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

3

Dome Temp

Focus

Dome Temp.

How high

Ed

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

[illegible]

Dome Temp.

1955 May 31. Sky never was clear long enough
to make opening-up worth while 12:15 E.D.T
Mo.

01.00 Completely Cloudy - K

6

[illegible]

Date 1955 June 1-2 Wed-Thu. Observer Ws. K Julian Day 2435260
 ☉ 70 37 43.5 3447.6

[illegible]

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

Focus 12.939

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

Transparency Conditions $\dots$ 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
4 17	+59 58	0	9.81	A0	1-1-1	Set 25 KAFS prog. 8×8	fine
1 17W	+44 49	0	9.67	F3	1-1-1	Set 8 " " slit at $14\frac{1}{2}$?	fine
0 37W	+77 42	0	6.7	A0	2-2-2	Set 5 Spec. Bin	lousy
1 04W	-00 38	0	9.96	O8	1-1-1	Set 2 O.B. - check Field?	fine X
					4/3	Set 8	
						02:30 IMAGE UNSTEADY wrong star. Identity uncertain. Set 5 m off.	
						4 PM + 8 in Frig.	
						How M.	

Date Thurs-Fri June 2-3, 1955 Observer O-K Julian Day 2435261
0 71 35 11.1 3446.5

Observer... O-K

Julian Day...2435261

⑦ 71 35 11.1 3446.5

[illegible]

Dome Temp. + 59°

0.00 Thin Cloud in West

1.00 North obscured by thin cloud

3.00 Very Happy

10

Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	3 35W	+59 58	0-1	9.81	A8	1-1-1	Set 2 KAFS pins 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 15W	+59 39	2-1	9.45	F5	1-1-1	" 8 " 135	Shifted position
23	0 45W	-11 44	1-0-2	7.8-8.5	A2	4-4-4	Ecl. Bin.	good
						15/10	" 9	OK.
							3PH + 6 in freq.	
							H on M	
							PH # 2 - rivet on back loose, please fix.	

Date 1955 Jun 3-4 Fri Sat Observer Mo-Hr Julian Day 2435.262
072 32 37.6 3445.4

[illegible]

Date 1955 June 10-11 Fri. Sat. Observer Hd. H. V. Julian Day 2435269
0791417.9 3440.3

Less than a dozen visitors, such as the R.A.S.S. telescope & transparencies N.W.

Dome Temp....+62°F

Transparency Conditions

Page

14

Clouds until about 22.15.

[illegible]

Date 1955 Jun 14-15 Tues Wed Observer S - Hr - Mo Julian Day 2435.273

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.
22 336	NGC 5904	15 16.0	+02 16	Newt.	E103a-0			21 34 22	21 36 22	
22 337	5634	14 27.0	-05 45	"	"			21 39 38	21 53 38	
22 338	6229	16 45.6	+47 37	"	"			22 09 22	22 18 22	
22 339	"	"	"					22 20 22	22 26 22	
22 340	6205	16 39.9	+36 33					22 34 10	22 35 10	
22 341	5634	14 27.0	-05 45					22 40 37	22 54 37	
22 342	6229	16 45.6	+47 37					23 00 03	23 12 03	
22 343	6402	17 35.0	-03 13					23 29 46	23 41 46	
22 344	5634	14 27.0	-05 45					23 48 38	00 03	
22 345	6356	17 20.7	-17 46					00 10 00	00 22 00	
22 346	6093	16 14.1	-22 52					00 24 53	00 30 53	
22 347	IC 1276	18 07.5	-07 15					00 38 51	01 04 51	
22 348	NGC 6402	17 35.0	-03 13					01 08 03	01 22 03	
22 349	6712	18 50.3	-08 47					01 25 25	01 32 25	
22 350	6342	17 18.2	-19 32					01 38 06	02 02 06	
22 351	6401	17 35.5	-23 52					02 06 04	02 30 04	

Dome Temp. 164°F

Focus.....

Dome Temp.....

Transparency Conditions

Newtonian June 13-14 Totally cloudy.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3622	0 27E			}	These two plates developed		Focused on α Boo	Searchlight from city moving about.
5332	0 39W						Focused on α Boo	
1222	0115E							
1222	0107E							
251	00 52E							
2417	1 40W						Green "LOBLAWS" gone.	
1227	00 21E						Focused on S Oph.	
422	0 39E						Lights from filling station out	
13	2 48W						Focused on S Oph.	
224	0 14W						Sky getting dark at last!	
3053	1 30W						Considerable haze	
145	0 10W							
1225	1 00W						Moon risen.	
1325	0 04E							
12-00	1 56W							
3004	2 08W						Decl. Trail 20 sec beginning at 30" at	

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

[illegible]

Transparency Conditions

18

Room Temp.....

[illegible]

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

Plate No.	Object	R.A. 1900 55	Declination 1900 55	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	How long 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	0.8W
22358	" 6229	16 45.8	+47 36					21 56 55	22 10 55	1	1.8E
22359	" "	"	"					22 12 58	22 16 58	2	1.8E
22360	" 6205	16 40.1	+36 32					22 21 13	22 22 13	1	1.8E
22361	" 5634	14 27.3	-05 46					22 29 49	22 43 49	2	3W
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	2.6W
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	1.4W
22367	" 6838	19 51.5	+18 39					0 40 17	0 44 17	2	1.8E
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	1	0.8W
22370	NGC 6838	19 51.5	+18 39					1 40 16	1 44 16	1	1.8E
22371	" 6402	17 35.3	-03 13					1 52 19	2 06 19	1	1.8W

Home Temp. +71° F

Transparency Conditions Hazy

20

Focus

Home Temp.

Seeing not as good as last night.

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
32 0	0 28 E						Focused on d. Bca.	
50 14	0 39 W						9.45 Shutter S 3 Signs Headlines	
10 55	1 18 E						10.00 Shutter NE 2 Signs Headlines	
16 58	1 12 E						10.15 2 " "	
22 13	1 02 E							
43 49	1 33 W						→ Mo. Guiding. 10.29 Strong SW breeze. shutter S. 3 Signs Headlines	
12 51	0 16 E						Focus B. lib. 11.12 shutter E 2 Signs Headlines	
35 33	0 43 E						→ Mo. Guide	
0 06	2 50 W						lots of fluffy clouds floating around sky	exposure delayed by clouds.
13 48	0 06 E						→ Mo. Guide.	still reading 2 signs of headlines
31 45	1 34 W							
44 17	1 51 E							
01 19	0 32 E						Focus B oph.	1:00 2 signs Headlines Shutter SE
36 02	0 45 W						Light cloud - Same Haze	
44 16	0 50 E						Sky worse	Moon Rising.
2 06 19	1 48 W							

Date 1955 Jun 15-16 Wed-Thu Observer S-L-K Julian Day 2435274

[illegible]

Dome Temp.....

Transparency Conditions.....

22

Focus.....

Dome Temp...+63°F...

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3917

2 13 W

Waiting for Clouds To Roll By.

They never really did. Too much cloud to
continue. Clouds very troublesome last half
of night, despite clear forecasts.

Date 1955 Jun 16-17 Thu Fri Observer S-Hr-Mo 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 long Exp.
22373	N.G.C. 5904	15 16.2	+02 15	Newt	F103a-D			21 30 30	21 33 30		0.22
22374	5634	14 27.3	-05 46	"	"			21 39 42	21 55 42		0.49
22375	6229	16 45.7	+47 36					22 01 25	22 13 25		0.28
22376	6229	"	"					22 15 11	22 17 11		0.88
22377	6205	16 40.1	+36 32					22 21 14	22 22 14		0.51
22378	6254	16 54.8	-04 03					22 31 11	22 34 11		0.59
22379	6229	16 45.7	+47 36					22 39 42	22 51 42		0.34
22380	6402	17 35.3	-03 13					23 34 54	23 43 54		0.25
22381	5634	14 27.3	-05 46					23 58 55	00 12 57		2.70
22382	6838	19 51.5	+18 39					00 57 02	01 01 02		1.00
22383	IC 1276	18 08.0	-07 14					01 05 25	01 15 25		0.10
22384	NGC 6342	17 18.5	-19 32					01 48 41	02 12 41		2.50
22385	6402	17 35.3	-03 13					02 17 32	02 32 32		2.00
22386	6712	18 50.6	-08 47					02 35 52	02 42 52		1.00
22387	6838	19 51.5	+18 39					02 48 56	02 52 56		0.30
22388	6638	18 28.2	-25 32					02 57 51	03 05 51		5.00

Home Temp. +73°F

Transparency Conditions ...Scattered clouds at beginning

24

Focus

Home Temp.

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Focussed on α Boo	
21 38 30	0 22E						" Searchlight on	
21 55 42	0 49W						" " Bright cloud near field	
2 13 25	1 12E						" "	
2 17 00	1 08E						" "	
2 22 10	0 57E						" " across field 6 times	
2 34 00	0 59E						Focussed on δ Oph.	
2 50 00	0 39E							
3 04 00	0 25E						Downward motion of carriage failed to operate. Power off at end of exposure for 3 min	
3 20 25	3 07W						L came down to fix carriage. Power again! 12:42 ^{hr} min.	
3 30 00	1 30E						Focussed on β Oph	
3 40 00	0 38W							
3 52 10	2 15W							
4 02 30	2 19W						Moon risen	
4 12 40	1 15W							
4 22 50	0 23W							
4 33 05	1 59W							

Date 1955 Jun 16-17 Thu-Fri Observer S-Hr-Mo Julian Day 2435275

[illegible]

27

Date 1955 Jun. 17-18 Fri-Sat. Observer K - H ✓ Julian Day 2425.276
 0 85 55 313 34376

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle Est
22390	HD 136244	15 14.5	+60 29	F12 1/2	E1039-0	.016	+29.5	21 49	22 39	4	6 45
22391	HD 136617	15 16.6	+59 53	"	"	"	+29.4	23 36	01 06		03 34
22392	H.D.E. 229221	20 20.1	38 11	"	"	"	29.4	01 21	03 11	1	20 11
	Comet Markes	5 24	51 21		too bright to get a picture						
	From York		O.P.B.							1	

Dome Temp. $+78^{\circ}\text{F}$

Focus 12.940

Dome Temp.

Transparency Conditions Hazy + Light Cloud to Start 28

Cleared about 22:00

Focus 15.782

Gilt 23.15

Focus 12.940

Gilt 20.35

June 17 Changed to
12 1/2" camera

25" was

ing Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19	0 48	+60 13	0	9.08	K3	1-1-1	Set 12 HINS 138 KAFS	
00	03 13 W	+59 38	1-2-1	9.75	Ksp	1-1-1	" 8 HINS 140 KAFS	
11	00 15 W	38 21	1	9.9	Bo: Ipe	1-1-1	" 2 22:00 Having trouble with elec 22:40 Not work at all. Called Gerry - voltage low (900) - he said same to 115 & it worked.	
						4/3	" 8	
3 P.H. loaded.								
No Heat.								
							MC SC MTW STW S SW ME	
							June 20 $+28.6^{\circ}$ -15.7° -5.9° -3.3° $+3.2^{\circ}$ -18.9° -16.3°	

Date Mon. Feb June 20-21 1955 Observer MR-K Julian Day 2435279
 088 47 22.9 243

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 End
22393	V 4510 Ph	18 ^h 24.5 ^m	+10° 49'	I-25	103a-0	set .008	+23.7	23 50 ⁵⁰	0 40	2	0 10
22394	V 805 AQL	19 00.7	-11 48	"	"	"	+23.7	0 46	1 56	2	0 30
22395	Comet Mikas	05 52.9	(1956) +54 47	"	"	"		3 04 50	3 16	3	3 49
	Focus Test	OTB.					+23.7				

ome Temp. 70.0 F
 ocus 15.767
 ome Temp.

Sat Jun. 18 150 Visitors
 showed Saturn with 74" 0-Mo
 sky still overcast at 2:15.

Transparency Conditions clearing about 11 PM.

30

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

ng Time 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 Ed. Bin	fair
56	0 30W	-11 41	1	8.1	A2	4-4-4	" 8 " "	fair
16	8 58E	-				12	Set 2	Filed in main file just before on
						15/10	" 8 "	
							1 PH loaded No Heat	

Date Tues. - Wed. June 21-22/55 Observer WS - K Julian Day 2435280

089 44 39.1 3435.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Min
22396	HD 136617	15 16.6	+59 53	I-25	E10300	.016	+25.6	21 31	22 25	4	00
22397	HD 154528	17 00.9	+77 48	"	"	(?) .008	+25.6	22 45	23 04	2	00
22398	V451 Oph.	18 24.5	+10 49	"	"	(?) "	+25.4	23 28	0 38	2	00
22399	V805 AQL	19 00.7	-11 48	"	"	"	+25.5	0 44	2 14	2	00
22400	V848 Cyg.	19 54.6	+54 32	"	"	.016	+25.2	2 26	3 26	1	00
	Focus Test	OTB.				"				1	00

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
25	0 57W	+ 59 40	0	9.75	Ksp	2-2-2	Set 2 KAFS. (cut the exposure - too faint)	newish
09	0 13W	+ 77 43	0	6.7	AO	4-4-4	Set 2. spec. bin.	lately
38	0 09E	+ 10 51	0	8.1	AO	4-4-4	Set 2 ecl. bin.	pin
14	0 51W	- 11 43	0	8.1	A2	4-4-4	" 8 Ecl. Bin.	pin
26	1 11W	+ 54 41	0	9.3	AO	2-2-2	Set 2 Ecl. Bin.	pin
						8/6	" 8	
1 PH loaded								
No Heat								
MC SC MTW STW S SW ME June 22 70.5 -14.5 -11.9 -.4m +3.3 +3.7 -0.5								

* Note Order in
which plate-holders
were used

Dome Temp. +65.0

ocus 15.752

Dome Temp.

Transparency Conditions... Scattered Clouds.

34

ing Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	3 02 W	+26 05	1 1/2	5.20	F5	-	Set 1 Vis. Bin.	fine
24 1/2	"	"	"	"	"	12	5	
25	3 02 W	"	"	"	"	-	9	
26		+19 15	2	4.01	F0	-	1 Vis. Bin. Through clouds	fine
27	0 40 E					-	5 " "	
28						12	9 " "	
29							clouded out.	
							3 ph loader	
							MC SC MTW STW S SW ME	
							June 24 -0.8 -13.9 -18.9 -.6m +3.3 -38.4 +3.0	

[illegible]

ome Temp. +6.3°
 ocus 12.940
 ome Temp.....

Transparency Conditions Much haze

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

ng Time S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
44	0 43 W	+45 30	1	7.64	F ₃	2-2-2	set 2. KAFS Much haze	bin
09			1	9.08	K ₃	1-3	" 8 " I cut exposure because I found the clock lights were reflected directly on to the slit.	
59	1 36 W	+60 15	1-2	"	"	1-1-1	" 5 " Clock lights out! Much haze	good
55	1 59 W	+45 05	2 1/2	9.25	A ₂	1-1-1	" 2 " " "	bin
2	1 18 W	+72 44		6.7	A ₀	2-2-2	" 5 Sp. Bin	5 plates very bad work
						15/10	" 10 haze too thick to continue	OK
							4 PH loaded. No heat.	
							Numbered 22328	
							No had book turned back to Jun 2-3 when W5 numbered this plate.	

Date 1075 June 25/26 Sat-Sun Observer ^{WS} PK - K. Julian Day 2435284
 0 93 33 38.3 3433.3

[illegible]

38

3. PH. Loaded
No Heat.

Date 1955 Jun 26-27 Sun-Mon Observer ^(Ws) Mo - H_v Julian Day 243528.5
094 30 51.6 3432.7

[illegible]

40

(some cloud at 22.00)

ome Temp.....

[illegible]

41

28

Date Mon - Tues 1955 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.	F	Hour Angle End
22412	HD 170177	18 ^h 23.0 ^m	-13° 34'	I-12½	1030-0	25 016	+24.7	21 16	0 22	1	
22413	BD +53° 2790	22 04.5	+54 03	"	"	"	+24.7	0 49	3 05	1	0.96
22414	HD 212883	22 22.4	+36 57	"	"	"	-	3 16	3 17	2	-
	+36° 4835	"	"	"	"	"	-	3 18	3 20	2	-
	"	"	"	"	"	"	-	3 21	3 25	2	0.96
	Focus Test	O.T.B.					-			2	

Time Temp.....

Focus.....12.740.....

Time Temp.....+62°F.....

Transparency Conditions

Good - some haze.

42

23

ading Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

22	0 00	-13° 31'	0	10.24	B0.5 Ia	1-1-1	OB p.3. Set 2		Fine
05	0 56 E	+54 17	0-1-0	10.11	09.5p III	1-1-1	"p12 " 8	FLEXURE	Strong
17	—	+37 14	0	6.2	B ₂ M.S	—	Set 1 B Type Stand. Vel		
2	—	—	0	"	"	3	" 4 " " " "		Fine
3	0 55 E	—	0	"	"	—	" 7 " " " "		
						4/3	" 10		O.K.

2 PH Loaded

No Heat

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

① 96 25 16.6 3431.9

[illegible]

Room Temp. +69° F

Transparency Conditions Clear some haze near horizon. 44
Very hazy to about 2:00 hrs.

1 PH loaded
No Heat.

	MC	SC	MTW	STW	S	SW	ME
June 29	-0.1 ^S	-11.6 ^S	+12.5 ^S	-0.4 ^m	+3.6 ^S	+10.6 ^S	+7.0 ^S

Date Fri-Sat July 1-2/55 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.	
22420	A.D.S. 10127	16 32.6	34 01	I-25	E103a-O	008	27.2	21 42	23 44	
	Focus Test			O.T.B.						
	Sky still cloudy			2:15 EDT - Mo.						

Home Temp. +76°F

Focus 15.822

Home Temp.

Transparency Conditions

Start delayed by Cloud, 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

ding Time
E.S.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

44

129W

33 56

0

7.89

Ko

4-4-4

Set. 2.

Vis. Bin.

Who turned Mirror
Heat on???

FLEXURES good

15/10

" 8

2320 Cloud from N.

O.K

2 P.H. + 10

No Heat,

Date Sat July 2-3/55 Observer He-Mo Julian Day 2435291
 @ 100 14 02.1 3430.7

① 100 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	E103a0	00.8	+28.1	22 47	23 21
22422	V805 Aql.	19 00.7	-11 48	I-25	"	"	+28.0	23 30	24 10
22423	V548 Cygni	19 54.6	+54 32	"	"	0.016	+28.0	01 25	02 23
22424	ADS 14998	21 24.6	+59 19	"	"	0.008	+28.0	02 29	03 13
22425	ADS 15764	22 11.1	+72 49	"	"	"	+28.0	03 21	03 45
	Focus Test	O.T.B.				"	+28.0		

Home Temp. 72 F
 Focus 15.836
 Home Temp.

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

About 200 visitors. Showed 6, 8 with 74"
 and 5". RASC members with 3 telescopes
 and the Cooke 4"

End 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 <i>Check if this is right star, Sp. Bin</i>	<i>Hr. & checks within 1 min.</i> fine
1 16	0 31W	- 11 43	0	8.1	A ₂	4-4-4	Set 2 Ecl. Bin.	<i>Star covered by clouds during much of exposure. especially first 20 min.</i> weak
02 35	0 51W	+ 59 41	1	9.3	A ₀	2-2-2	" 7 " "	fine
03 15	0 11W	+ 59 35	1 1/2	7.42	M _a	4-4-4	" 2 Vis Bin	good
03 40	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.	

Date Sun-Mon July 3-4/55 Observer K-Hr Julian Day 2435292
 @ 101 11 12.8 3430.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22426	HD 154528	17 00.9	+77 48	I-25	E1039-O	.008	+31.6 +31.9	21 09	21 29
22427]	V451 Ophi	18 24.5	+10 49	"	"	"	+31.9 +32.3	21 40	22 40
22428]	V865 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 46
22430 {	A.D.S. 13515	20 08.5 ⁵	38 09	"	"	.008	32.3	01 54	02 24
	Faint J.A.		0	J.B.					

ome Temp. 82° F - HOT

ocus 15.882

ome 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.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21 27	02 E	+77 41	0-1	6.7	A0	4-4-4	Set 2	Spec. Bin		fine
22 40	20 E	+10 54	0-1-0	8.1	A0	4-4-4	Set 2	Ecl. Bin	seeing changed back + forth continuously	good
23 26	10 E	-11 43	0-1-0	8.1	A2	4-4-4	" 8	" "		fine
24 30	18 W	54 40	0-1	9.3	A0	4-2-2	" 2	" "		l. strong
25 40	40 W	38 19	0	7.74	G5	4-4-4	" 2	Vis. Bin.		fine
						16/10	" 8			O.K.

IP. H.

No Heat.

	MC	SC	MTW 34.1	STW	S	SW	NE
July 7	-1.5	-8.5	-34.1	-7m	+1.5	-2.6	+9.3

Date 1955 Jul. 4-5 Mon. Tues. Observer Mo-K Julian Day 2435.293
 0102 08 23.5 3430.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
22431	HD 151881	17 20.8	+02 14	I-25	F103a-0	0.008	+33.0	21 31	1 01	1
22432	V451 OPH	18 24.5	+10 49	"	"	"	+32.4	1 08	1 48	2
	Focus Test	OTB				"				
1955 Jul. 6										
22433 ² F	Focus Test	0. TB		I-12 $\frac{1}{2}$	Hi Speed	0.008	+28.0	Focus	12 960	
						"	"		12 920	
						"	"		12 940	

ome Temp.....

Transparency Conditions..... Good. -

Start delayed because chain had jumped sprocket of focussing mechanism.

52

Star	Hour Angle E.S.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
01	09W	+02 13	1	8-90	K7V	4-4-4	(Nice Fit Don) Set 2 OLS	Few thin clouds. 23 ^h 0:30 Quite a few Clouds.	1. weak
48	53W	+10 54	1/2	8.1	A0	4-8	Set 2 Ecl. Bin	1:15 cloud & Haze becoming solid	weak
						16/10	" 8	1:48 Star disappeared. Too overcast to continue	O.K.
							3 PH No Heat		
760						15-20	Set 1		O.K
920						15-20	5		Centre to V.
940						15-20	9		O.K

Date Wed July 6-7/55 Observer Off - K Julian Day 2435295
 ☉ 104 02 44.9 3430.8

① 104 02 44.9 3430.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
{ 22433	HD 156110	17 10.6	45 30	I-12	E10340	016	+29.1	20 55	21 05
				"	"	"		21 05	21 15
{ 22434	Hins 135 HD 135741	15 11.6	59 56	"	"	"	29.1	21 22	22 52
{ 22435	HD 173987	18 43.2	-6 34	"	"	"	29.1	23 00	0 30
{ 22436	BD +53° 2790	22 04.5	+54 03	"	"	"	29.2	0 48	2 34
22437 {	HD 209900	22 01.6	+53 01	"	"	"	29.1	2 41	3 21
	Focus Test	O.T.B.							

ome Temp. +80°F

ocus 12.940

ome Temp. +70°F

Transparency Conditions

poor

54

Changed to

12" camera

25" was

Focus 15.932

Tilt 23.15

12 1/2 15.

Focus

12.940

Tilt

20.35

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

05	21 29	45 27	0	7.3	B ₃	1-1-1	Set 2	B-type 8th Vel.	[draw aside maybe didn't]	fine
15	21 18	5				1-1-1	" 5	" " " "		fine
25	52 18	59 42	0	9.45	F ₅	1-1-1	" 9	KAFS	light clouds.	fine
30	24 W	-6 31	0-1	9.28	Bos I ₂	1-1-1	" 2	OB p5	" ran dec 10° N of pos'n.	fine
34	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	fine bad flexure
	02 E	+53 16	2-1	9.0	A ₀ I ₆ I	1-1-1	" 2	OB p20	50 +52° 30' 95"	strong centre to violet.
						4/3	" 8			

1PH Loaded

No Heat

	MC	SC	MTW	STW	S	SW	ME
Jun 6	-1.7	-6.3	-47.8		10.2	+16.8	+0.4

55

Date Thurs July 7-8/55 Observer L. Bk. Hd - (Hr) Julian Day 2435296
 0 104 59 55.7 3431.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	11.
22438	HD 156110	17 10.6	+45 30	I 12 1/2	E103-a-0	set 016	29.0	22 32	22 42	
								22 42	23 00	
22439	HD 154528	17 00.9	+77 48	"	"	008	29.2	23 23	23 33	2
	Focus test	OTR								

ome Temp. 76 F

ocus 12.960

ome Temp.

Try 12.960

Transparency Conditions *very poor*

56

L installed new mirror for visitors' eyepiece

ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 02		+45 26	0	7.3	B3	1-1-1	set 2 B Std. Vel. / Parting clouds	fine
3 00	W 30 ^m					1-2	8	1. strong
3 33	W 1 17	77 43	0	6.7	A0	2-2-2	" 2 Sp. Bin.	1. strong
						10/7	" 8	O.K
							2 P.H. No Heat	
							0100 Sky Still Poor.	
							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 Bk. O - BokJulian 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 00.9	+77 48	F.12	E103a-O	.008		22 59	23 09
22441]	HD 173783	18 42.0	-09 25	"	"	.016	+30.1	23 17	00 47
22442	{ HDE 229234	20 20.3	+38 12				+29.8	01 05	02 15
22443	{ HDE 229238	20 20.4	+38 13				"	02 17	03 31
	Focus to A	0.73							

Dme Temp.....74°F

Transparency Conditions *Clouds 22:45 PM*

58

[illegible]

Date Surv-Mem. July 10-11/55 Observer ^{Hg}K - Hv Julian Day 2435299
0.107 51 30.1 3432.3

[illegible]

Ime Temp. 75°

Fcus. 12960

Ime Temp.

Transparency Conditions

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

Thin cloud in extreme south after midnite

32.3

nding Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	12W	-07 58	0	9.63	B.V	1-1-1	Set 2 OIB /page 5	fine
0142	140E	60 32	0	9.43	B ₂ III	1-1-1	" 8 " " 14	Extremely bad flexure fine
3:19	135W	45 19	0	9.57	B ₅ III	1-1-1	" 2 " " 12	Flexure fine
						4/3	" 8	OK
							2.P.H.	
							No heat.	
							MC SC MTW STW S SW ME	
							July 11 -3.5 -0.4 -50.0 -2m -2.2 -0.4 +53	

Date Mon Tues July 11-12 1955 Observer ^{Hg}MR - H Julian Day 2435300
 @ 108 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-12½	103a-0	Set	25.6°	21:12	23:48
22448						1016	25.4	00:02	01:56
22449	BD+44°3731	21 07.8	45 05	"	"	"	25.2	02:05	03:45
	Focus Test			O.T.B.					

Time Temp.....

Transparency Conditions *very good.*

Mr Hollen, Georgia Tech.
visitor

62

[illegible]

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-0	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.....

Transparency Conditions Good

July 12/55 Changed to

12" was { Focus 12.960
Tilt. 20.35

25" is { Focus 15.762
Tilt 23.15

Astronomy 1b class visited Ole Shorn Mts. - 25" Camer.

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 27	O 28 E	+ 77 42	00	6.7	A _o	4-4-4	Set 2 Sp. Bin.	fine
23 15	O 45 E	- 11 40½	071	7.8	A ₂	4-4-4	Set 2 Ecl. Bin	fine
23 35	L 40 W	+ 72 43	2	6.7	A _o	4-4-4	" B Sp. Bin.	fine
0 25	O 27 E	+ 54 40	2	9.0	A ₀	2-2-2	" 2 Ecl. Bin	fine
1 20	I 57 W	+ 10 54	2	7.9	A ₀	4-4-4	" 8 Ecl. Bin	fine
2 38	O 32 E	+ 33 33	2-1	7.91	F8	4-4-4	" 2 Vis. Bin	good
3 41	O 26 W	+ 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.	
							ME S.C 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 Hy 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	^{set} .008	+27.4	20 56 45	20 57 15
	"	"	"	"	"	"	"	20 58 15	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 154528	17 00.9	+77 48	"	"	"	-	21 55	22 15
22460	V805 AQL	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 16520	23 02.5	+20 03	"	"	"	+27.1	2 12	3 02
22464	ADS 16603	23 08.5	+10 31	"	"	"	+27.2	3 08	3 34
	Focus Test	O.T.B.		"	"	"			

Home Temp.... 68°F

Transparency Conditions *Good - slight haze*

66

[illegible]

Date July 15-16/55 Fri-Sat. Observer - Hr Julian Day 2435304
 ☉ 112 37 37.1 3435.2

[illegible]

Time Temp.....

68

July 15 Changed. to
12 1/2" Camera

25" was $\begin{cases} \text{Focus } 15.900 \\ \text{Tilt } 23.15 \end{cases}$ $12 \frac{1}{2}"$ is $\begin{cases} \text{Focus } 12.960 \\ \text{Tilt } 20.35 \end{cases}$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5:25 N	38 21	0-1	9.9	Bo: I : pc	1-1-1	4/3	Set. 2. O.B. pp. 9. " 8 1 P.H.	fine OK

Eme Temp. 74°

Rcus 12.960

Eme Temp. 70

Transparency Conditions Very poor - Cloud & Haze

70

Ending Time EST.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	02W	+45 46	1-2	9.84	B. V ⁿ	1-1-1 4/3	Set 2 OB Cloud from SW Too poor to continue	FLEXURE fine OK
							4 PH.	
							July 20 MC_S SC_S MTW_S STW_S S_S SW_S HE_S	
							-2.9 +9.9 -47.8 -1.2 +65.8 -1.7 -5.6	

71.

Date 1955 July 17-18 Sun - Mon Observer MR - Hox (P&K) Julian Day 2435306
 @114 32 08.0 3436.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
22467	HDE 229238	20 ^h 20.4 ^m	+38° 13'	T-12 1/2	B3c-0	set .016	+27.0°C	23:31	01:32	1
22468	{ HD 180163	19 10.4	+38 58	"	"	"		00 56 00	00 57 15	
								00 57 00	01 57 30	
								00 59	01 00	
22469	BD 450 2230	20 33.9	+45 47	"	"	"	"	01 46	03 46	1
	Focus 1st	S.T.R.								

Time Temp. 70°

72

Reading Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:12	7 26 E	+38° 24'	2	9.6	B0.5 Ib	1 ^s -1 ^s -1 ^s	set 2 OB p. 9	good
9:16			2	4.3	B5 m.s.	3	net 2 Std vel.	
9:20						3	5	fine
9:25	11 W					3	8	
9:30	12 W	+46° 0'	2	10.15	B0.115	1 ^s -1 ^s -1	5 OB, p. 12	fine
						4/3	9	OK
							2 PH	
							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 +1.7 ^s	

Date: 1955 Jul. 18-19 Mon-Tue.: Observer S. - Hr. - Mo. 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.	F	Micro Angle Rad.
22470	NGC 5909	15 16.2	+02 15	Newt.	E103a-0			21 19 02 ³	21 22 02 ²⁰	1	
22471	5634	14 27.3	-05 46					21 26 43 ¹²	21 46 43		
—	5897	15 14.9	-20 50					—	—		
22472	6171	16 30.0	-12 58					21 58 00 ⁸	22 16 00		
22473	6093	16 14.4	-22 53					22 20 21 ¹²	22 28 21		
22474	6356	17 21.0	-17 46					22 31 53 ¹²	22 43 53		
22475	6171	16 30.0	-12 58				18	22 54 25 ⁸	23 12 25		
22476	6712	18 50.6	-08 47					23 16 43 ⁸	23 24 43		
22477	LC 1276	18 08.0	-07 14				4	23 29 00 ⁸	00 14 00		
22478	NGC 6626	18 21.8	-24 54					00 18 05 ⁴	00 26 05		
22479	6656	18 33.6	-23 58					00 30 30 ¹⁰	00 34 30		
22480	6638	18 28.2	-25 32					00 38 08 ¹²	00 46 08		
22481	6544	18 04.6	-25 01					00 51 38 ¹²	01 03 38		
22482	6717	18 52.4	-22 47					01 11 10 ²⁰	01 31 10		
22483	6712	18 50.6	-08 47					01 41 15 ⁸	01 47 15		
22484	6838	19 51.5	+15 39					01 54 20 ⁴	01 59 20		

Time Temp. $+77^{\circ}$

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
1 22.5	33 W						Focussed on α Serpentis	
1 46.4	46 W						} These two plates were developed during the night	
							Object invisible in haze and light	
2 16	13 W	calculated.						
2 51	41 W							
2 52	50 W							
3	09 W						Focussed on β Ophiuchi.	
							No guiding	
3 24	04 W							
3 49	33 W							
3 56.2	41 W							
3 56.5	27 W							
3 56.6	47 W							
4 03.2	26 W							
4 13	06 W						No guiding	
							Focussed on δ Aquilae	
4 14	26 W							
4 52	35 W							

continued

[illegible]

Focus.....

27.

76

Starting Time E.S.T.	Eur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 08	22W							
2 30	55W							
2 47	25W							
2 49	51W							
3 04	40W							
3 52	09W						A good night once haze cleared	

77

Date July 19-20 Tue-Wed 1955 Observer S-H-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.	1	Exposure Time
22491	NGC 5904	15 16.2	+02 15	Newt	E1039-0			21 18 42	21 20 42		35 W
22492	" 5634	14 27.3	-05 46	"	"			21 26 47	21 42 47		4 W
22493	" 5897	15 14.9	-20 50	"	"			21 46 16	21 56 16		4 W
22494	IC 1276	18 08.0	-07 14	"	"			22 03 42	22 48 42		4 W
22495	NGC 6712	18 50.6	-08 47	"	"			22 51 58	22 59 58		4 W
22496	" 6838	19 51.5	+18 39	"	"			23 06 06	23 10 06		4 W
22497	" 6342	17 18.5	-19 32	"	"			23 16 23	23 36 23		4 W
22498	{ KA 110	18 50.6	-08 47	"	"			23 39 48	23 45 48		4 W
		18 39.7	+00 03	"	"			23 48 10	23 54 10		4 W
22499	IC 1276	18 08.0	-07 14	"	"			00 02 48	00 47 48		4 W
22500	NGC 6838	19 51.5	+18 39	"	"			00 51 38	00 54 38		4 W
22501	" 6717	18 52.4	-22 47	"	"			00 59 33	01 15 33		4 W
22502	" 6656	18 33.6	-23 58	"	"			01 18 53	01 22 53		4 W
22503	" 6426	17 42.6	+03 12	"	"			01 28 05	01 44 05		4 W
22504	" 6712	18 50.6	-08 47	"	"			01 51 56	01 59 56		4 W
22505	{ " 6838	19 51.5	+18 39	"	"			02 04 43	02 08 43		4 W

Dme Temp. $+74^{\circ}\text{F}$

Fpus.....

Dme Temp.....

Transparency Conditions *Good*

78

Ending Time E.S.T.	Hr	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 20 41	0	35 W						Focus R Oph.	
1 42 42	2	46 W	→					← Plate Loaded Backwards - Thrown Away.	
1 56 2	2	12 W						Focus B Oph.	
2 41		12 W							
2 59 10	2	20 E							
3 10 0	0	46 E							
3 36 1	1	49 W							
3 45 1	1	27 W	} Sequence					} Sequence. Focus α Aquilae	
3 51 2	2	43 W							
00 47	2	11 W							
00 51 2	2	34 W							
01 16 1	1	55 W							
01 22 1	1	20 W							
01 44 2	2	33 W						Focus α Aquilae	
01 59 2	2	41 W							
02 09 1	1	49 W	} Sequence					} 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.	F	Angle Incl
-	KA 89	21 10.6	+15 22	Newt	E103a-O			02 14 05	02 18 05		SW
22506	UNKNOWN	23 04.4	+12 29	"	"			02 24 50	02 39 50		SE
22507	NGC 6838	19 51.5	+18 39	"	"			02 44 50	02 47 50		SW
22508	" 7089	21 31.2	-01 02	"	"			02 52 36	02 53 06		SW
22509	" 7099	21 27.8	-23 24	"	"			02 58 18	03 04 18		SW
22510	" 6838	19 51.5	+18 39	"	"			03 09 56	03 12 56		SW
22511	" 7078	21 27.8	+11 58	"	"			03 16 57	03 19 57		W
22512	" "	"	"	"	"			03 21 43	03 22 13		W
22513	" 6838	19 51.5	+18 39	"	"			03 27 48	03 29 48		W

Dne Temp.....

Transparency Conditions

Frus.....

Dne Temp. +66° F

ending Time E.S.T.	Hour End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 13 45	39 W	Sequence (+12 ^{set} 28½)					Sequence UNKNOWN OBJECT. (Wilson's Cluster)	
2 32 55	53 E							
2 47 52	28 W							
2 53 02	54 W							
3 04 52	58 W							
3 12 52	53 W							
3 19 51	24 W							
3 22 11	26 W							
3 27 13	10 W						Much the best night I have had this year	

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.
22514	NGC 5904	15 16.2	+02 15	Newt	E 103a-0	-	T ₂	21:19:36	21:21:36
22515	5634	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	22:19:4
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	0:37:24
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	1:38:25	2:08:35

Dne Temp. 78°

Transparency Conditions

82

Focus

09 Dne Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11:21:36	40 W						Focused on α Serp. Focus out considerably.	
11:45	53 W						Transparency not so good as last night.	
12:00	10 W						Focused on α Serp	
12:04	57 E							
12:30	52 W							
12:44	58 W							
12:59	7 E						Focused on α Serp	
13:00	16 E						seeing better, transparency worse than last night	
0:00	4 W						(focussed α Serp)	
0:00	01 W							
0:15	7 W							
0:15	2 W						Mo guiding	
0:54	1 W						Mo guiding	
1:15	8 W							
1:15	2 W						Mo guiding	
2:08	15 W						focussed α Serp. Mo guiding	

cont.

Date Wed-Thur. July 20-21/55 Observer S-Mo-Hg-R 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 Dec	2 12 43	2 13 05
22531	" "	"	"	"	"		B	2 15 11	2 15 11
22532	" 7089	21 31.2	-01 02	"	"		30 Nov	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

Date Thurs - Fri July 21-22/55 Observer S - Mo - Hg Julian Day 24353.12

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 35.8	-23 53	"	"		24	23 27 27	23 51 27
22544	6642	18 28.7	-23 30	"	"		24	0 03 10	0 27 10
22545	6717	18 52.4	-22 47	"	"		20	0 41 20	1 01 20
22546	6712	18 50.6	-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

One Temp. 82°

Transparency Conditions Fair

86

Fous

One Temp. 77°

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 2 15	43 W						Focused on α Serp.	
21 41 5	53 W							
21 52 15	03 W							
2 27 22	07 W						20 sec dec trail	
3 23 4	54 W						Focused on η Serp.	
3 3 3	54 W						20 sec dec trail.	
0 27	37 W						(2) 1/2 minute extra time, trail in RA. because decl. motion would not work.	
0 0 0	48 W						Focused on η Serp no guiding	
1 2 2	14 W							
1 32 7	20 W							
2 10	41 W						Focused on γ Aquilae no guiding	
2 29 2	05 W							
2 46 1	35 W							
2 52	0 W							
3 04	06 W							
3 24	05 E						No guiding	
							All Newtonian eye plate now used.	

Eme Temp. 86°F

Fcus. 12 960

Eme Temp.

Transparency Conditions Good

88

438.3

Ending Time E.S.T.	Sur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 20	35E	-9° 09	1	9.28	B ₉ I ₁	1-1-1	Set 2 HE SC MTW STW S SWI HE July 22 -8.3 $\uparrow$ +13.0 -6.5 -0.1 -12.5 +23.2 -5.1 OB P.5 OB P.12	Fine
01 20	2E	+47° 51	1-0	10.12	A ₀ I ₀	1-1-1	Set 8 OB P.5 OB P.12	FLEXURE Fine
00 20	2E	—	0	9.95	B ₀ V ₁	1-2	11 2	v. wk. centre slightly to violet
						4/3	8 Clouded in Suddenly at 02.00 Considerable lightning	
							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'	I-12 $\frac{1}{2}$	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.				"			

Dne Temp. $+77^{\circ}F$

Bus 12.960

Dne Temp. $+69^{\circ}F$

Transparency Conditions *good, but passing clouds*

90

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

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:58	46° W	$+77^{\circ}42'$	0	6.7	A0	2-2-2	set 2 SB	Strong
0.2	07 E	$+38^{\circ}23'$	0	9.4	09.5 III	1-1-1	set 2 OB p.9	fine
21:57	23 W	$+38^{\circ}21'$	0	9.9	B0 II	1-1-1	" 8 OB p.9	fine
3:23	14 W	$+62^{\circ}49'$	0	7.8	B0 IV	2-2-2	set 2 OB p.22	fine
3:41	—	$+43^{\circ}48'$	0	6.1	B3 MS.	3	set 1 B. St. Vel.	too wk
3:43	—	"	"	"	"	3	5 "	too wk
3:50	36 W	"	"	"	"	3	9 "	fine
						4/3	Set 8.	OK

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

Through clouds.
→ solid cloud.

4 PM
No Heat.

NE SC MTW STW S SW ME
 JUL 27 -10.8 $+20.5$ -38.0 $+0.8$ -5.1 -59.3 -6.1

91

Date 1955 Jul 24-25 Sun Mon Observer Mo-Hg Julian Day 2435313
 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	+26.3	20 48	23 40
[22563	HDE 239828	21 58.1	+59 02	"	"	"	"	23 55	2 30
[22564	BD +54° 2726	22 13.0	+54 59	"	"	"	"	3 06	3 55
22565	HD 9812	01 30.8	+58 08	"	"	"	"	4 03	4 11
	Focus Test	OTB				"			

Dme Temp. 74°F

Fus. 12.960

Dme Temp. 65°F

Transparency Conditions Excellent - could see θ Scov, $S = -43^\circ$

92

ending Time E.S.T.	Har Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 42	50W	-09 21½	½	10.01	(e?) B ₀ Ia	1-1-1	Set 2 OB p5	fine
2 :	22W	+59 15	1	10.26	B ₅ Ia	1-1-1	" 8 OB p.12	1. strong
3 53	28W	+55 13	1	9.2	B _I B _I B _I	1-1-1	set 2 ←	fine
4 11	38E	58 21	1	7.4	B ₅ ms	1-1-1	Set 5	strong
						4/3	Set 9	OK.
							2 PM	
							NE SE MTW STW S SW NE JUL-25 -9.5 128.1 -17.3 -0.4 +4.6 153.2 -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. Hg Julian Day 2435314
 0122 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.	Exposure Time
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	03 W
22567	B.D. 45° 3339	20 53.2	45 58	"	"	"	26.8	23 00	1 20	03 W
22568	HD 205139	21 28.3	+60 01	"	"	"	26.7	1 46 15	1 47 15	03 W
	"	"	"	"	"	"	"	1 50 30	1 51 30	03 W
	"	"	"	"	"	"	"	1 54 00	1 56 00	03 W
22569	55° 2748	22 21.5	+55 47	"	"	"	26.6	2 19	4 09	03 W
	Focus Test		OTB	"	"	"	"			

Dine Temp. $+73^{\circ}\text{F}$

Focus.....12.960.....

Dne Temp.....67°F.....

Transparency Conditions *Slight haze*

94

Haze near horizon. made it difficult to see star on slit at start.

[illegible]

Date Observer Julian Day

[illegible]

Dme Temp.....

Transparency Conditions.....

96

Fus.....

Dme Temp.....

July 26 changed
to 25" camera12 1/2" was Focus 12.960
Tilt 20.3525" is Focus 15.850
Tilt 23.15ending Time
E.S.T.Hr Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

July 27 changed
to 12 1/2" camera25" was Focus 15.850
Tilt 23.15 12 1/2" is Focus 12.960
Tilt 20.35

Date 1955 Jul. 28-29 Thu-Fri Observer Mo-K Julian Day 24353.17
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	E103a-0	0.016	+28.0	20 50	22 30
22571	BD +28° 3439	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	O.T. B		"	"	.016			

Dme Temp. $+76^{\circ}$

Feus.....12.960.....

Dme Temp. + 66°

Transparency Conditions Excellent

98

440-9

Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
08E -09 20	1-2	9.66	O ₉ I	1-1-1	Set 2 OB p 5	good
14E +29 02	2	8.5	B ₁ I ₆ p	2-2-2	" 8 OB p 7a	fine
24W +06 31	2	8.4	B ₇ ^{M.S.}	1-1-1	" 5 OB std vel	little wk
32W +28 14	2-1	9.9	B ₉ I _a	1-1-1	" 2 OB p 7a	fine
17W +45 41	1-2	10.11	B ₅ I _{ab}	1-1-1	" 8 OB p 12	little str
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

Funder light was on in the
funder telescope that is not used.

	MC	SC	MTW	STW	S	SW	ME
July 29	-11.7	+23.9	-57.5	-1.1	-6.8	+13.3	-7.4

Date July 29-30 Fri./55 Observer L-K Julian Day 2435318
 0 125 59 50.4 3441.5

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. +7637	18 41.2	-08 02	I 12 $\frac{1}{2}$	E-103A ₀	^{set} 016	+28.0	20 55	23 15	41 W
22577	^E BD +25 3438	19 38.1	28 46	"	"	"	+28.0	23 19	23 55	38 W
22578	BD +25 ⁰ 4083	19 59.8	+26 00	"	"	"	+27.9	0 00	1 12	31 W
22579	HD 212883	22 22.4	+36 57	"	"	"	-	1 20	1 22	-
	"	"	"	"	"	"	-	1 23	1 27	-
	"	"	"	"	"	"	27.8	1 28	1 36	E
22580	BD +60 ⁰ 2493	23 05.4	+60 55	"	"	"	28.0	1 48	3 58	2 W
	Forno Test	O.T.B.				"				

Dne Temp. +76°F

Bus 12.960

Dne Temp. +70°F

Transparency Conditions

Some haze

1001

34415

Ending Time E.S.T.	Hour 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. p 5	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 22	—	—	1	6.2	B ₂	3	Set 1 B. St. Vel.	fine
2 27	—	—	1	"	"	3	" 5 "	
3 38	E	+37 13	1	"	"	1-1-1	" 9 "	
5 02	W	+61 13	1-2-1	10.26	B _{0.5} pe	1-1-1	Set 6 O.B. prog. p 16 - clock lights on - slit for a few minutes * lost in haze 3:58	fine OK
						4/3	" 10	

4 PH

No Heat.

Anyone got a longer pencil?

Moist Temp. 85°F

'01S.....15.914.....

Ice Temp. 76° F

Transparency Conditions

Sun - July 31: - K
Too hazy.

Sat July 30: W 130 visitors; showed M13 in haze
sky; 5 P.A.C. telescopes on D. Schmitt alt. Few cloudy
to do any observing. MR, Mo.

Ending Time for Angle E.S.T. End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 49 07W	-11 43	0	7.8	A2	4-4-4	Set 2 Exp. Bin some clouds delayed start	good
01 59 38W	05 53	0	8.5	B _{5he}	4-4-4	Set 2 Be. Prog.	slow weak
1 41 34W	+42 32	0	7.1	B _{5(n)} e	4-4-4	" 8 " " " Seeing Unsteady	fine
2 59 23W	+56 30	0	8.1	B _{5(s)} e	4-4-4	" 2 " " " 2:00 setting quite hazy.	good
4 17 53W	+61 58	0	8.2	B _{3e}	4-4-4	" 8 " "	fine
					15/10	Set 8	O.K.

1 PH

nc	sc	ntw	stw	s	sw	re
Aug 2 -14 ^s	+28.6 ^s	-93.5 ^s	-1.7 ^m	-10.4 ^s	+42.9	-1.2 ^s

103

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

0134 36 33.1 3450.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 25.7	Starting Time E.S.T.	Ending Time E.S.T.
22586	V805 Aquilae	19 00.7	-11 48	I-25	E1030-0	0.008	+26.0	20 22	22 06
22587	η Scuti	18 51.7	-05 58	"	"	"	+25.8	22 13	22 53
22588	HD 164284	17 55.3	+04 22	"	"	"		22 30 40	22 31 10
	"							22 33	22 36
	"							22 37	22 41
22589	G Cap	20 12.5	-12 51	"	"	"		22 58 05	22 59 45
								23 00 25	23 02 50
								23 03 30	23 08 30
22590	HD 180398	19 11.3	+12 56	"	"	"	+25.5	23 17	23 57
22591	HD 183143	19 23.0	+18 05	"	"	"	+25.4	0 06	0 36
22592	HD 195407	20 26.0	+36 39	"	"	"	+25.4	0 45	1 33
22593	HD 195592	20 27.2	+43 59	"	"	"	+25.3	1 38	2 06
22594	HD 205095	23 58.3	+55 00	"	"	"	+25.4	2 17	2 57
22595	HD 13302	1 55.6	+59 12	"	"	"	+25.4	3 01	4 21
	Focus Test	O.T.B							

Bole Temp. +74° F

Transparency Conditions Good

104

Bois 15-801

Bole Temp. +57° F

Ending Time B.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22-06	12 E	-11 42½	0	7.8	A ₂	4-4-4	Set 5 Ecl. Bin.	fine
22-06	14 W	-05 52½	1½	5.8	K ₂ III	4-4-4	" 1 O.L.S.	good
22-06		+04 24	1½	4.8	B ₅ ne	12	1½ Be.	fine
22-06						12	5	
22-06	29 W		1	4.4	G ₉ III	12	9½ OLS Took east one of two bright stars sep. 18' This is the correct one,	fine
22-06						12	5	good
22-06	21 E					-	9½	fine
23-06	30 W	+13 01	½	7.7	B ₉ ne	4-4-4	2 Be.	sl. wk
23-06	57 W	+18 14	0	6.9	B _{9.5} ex	4-4-4	8 Be	too weak
1-3-07	51 W	+36 53	0	7.7	B ₃ E	4-4-4	" 2 Be	good
2-3-07	24 W	+44 12	0	7.2	B _{1.5} E	4-4-4	" 8 Be	sl. weak
2-3-07	18 E	+55 18	0	7.6	B ₁ E	4-4-4	" 2 Be	good
4-3-07	5 E	+59 27	0	8.2	B ₃ E	4-4-4	" 6 Be	fine
						15/10	" 10½	good
							2 P.H.	O.K.

Aug 5 MC SC MTW STW S SW HE
-16.0 +2.8 +1.7 -0.2 -12.2 +14.2 +1.1

Date Mon Aug 8-9, 1955 Observer L- Julian Day 2435328
 0135 34 03.2 3451.4

[illegible]

Inme Temp.....

Transparency Conditions

Haye

106

clouds from S.W. at sunset delayed start

[illegible]

107

Date Thurs. Aug 11-12/55 Observer L. May Julian Day 2435.331
 0138 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	H.D. 154528	17 00.9	77 48	I-25	E 103A	Set 008	26.3	20 46	20 58
(22598	MWC 307	18 47.7	-10 21	"	"	"	26.2	21 06	22 43
(22599	" 332	20 09.8	36 02	"	"	"	26.1	23 22	0 10
22600	" 336	20 12.9	32 04	"	"	"	26.0	0 26	1 03
22601	" 407	23 53.8	^{45 52} 46 09	"	"	"	25.8	2 00	2 24
✓ 22602	V549 CYGNI	19 54.6	54 32	"	"	Set 016	25.8	2 46	3 48
22603	MWC 397	19 02.6	49 40	"	"	Set 008	25.8	4 02	4 30
	Focus Test		01B						

One Temp. 67°F

108

Ending Time E.S.T.	Air Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00W	77.43	0	6.7	Ao	4-4-4	Set 2	Sp. Bin	over developed fine
054W	-10 16	0	8.1	Bze	4-4-4	Set 2	Be Prog. [for last 30 mins] broken clouds	weak
05W	36 13	0	7.1	Bene	4-4-4	Set 8	Be Prog. some haze	fine over developed
055W	32 16	0	7.0	Bone	4-4-4	Set 2	Be Prog	good over developed
030E	46 10	0	6.5	Bzne	4-4-4	Set 8	Be Prog	good over developed
055W	54 41	0	9.0	Ao	4-4-4	Set 9	Eclipsing Binary	too weak over developed
223W	49 59	0	6.8	Ave	4-4-4	Set 2	Be Prog Thin cloud	too weak O.K.
						15-10		
					</			

Date Sun Aug 14-15/55 Observer L. Hg 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	^{HL 195542} M.W.C. 347	20 27.2	43 59	I-25	E103A ₀	^{set} 008	21.0	23 24	0 00
22605	^{HD 193609} M.W.C. 336	20 12.9	32 04	"	"	"	21.0	0 09	0 35
22606	^{HL 206773} M.W.C. 376	21 39.3	51° 17	"	"	"	21.0	0 45	1 12
22607	^{HD 218395} M.W.C. 347	23 02.1	49 40	"	"	"	20.9	1 37	2 01
22608	^{HD 221551} M.W.C. 407	23 53.8	45 52	"	"	"	20.9	2 10	2 30
22609	^{HD 4133} M.W.C. 8	039.2	41 44	"	"	"	20.9	3 38	3 40.3
								3 47	3 48.2
								3 51	3 52
	Focus Test	OTB							

Dine Temp.....67°F.....

110

clouds in evening, then clearing

Rising Time E.S.T.	Solar Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 00	44 W	44 09	1-2	7.2	Bise	4-44	Set 2 Be Prog.	fine
6 11	34W	32 16	2	7.0	Bone	4-44	Set 8 Be Prog	fine
19 08	20W	57 32	1-2	7.0	Bone	4-44	Set 2 Be Prog	fine
2 55	10W	49 58	1-2	6.8	Ave	4-44	Set 8 Be Prog	fine
2 11	13E	46 10	1-2	6.5	B _{ine}	4-44	Set 2 Be Prog Time light cloud	fine
							Too cloudy	
3 41		48° 03	1	4.7	Bunes	12	Set 2	fine
3 52			1			12	Set 8	
3 51	62BW		1			12	Set 8	
						15/10	Set 9	O.K.
MC SC MTW STW S SW ME								
Aug. 15 -22 ^s .6 +18 ^s .5 +7 ^s .1 -1 ^m -35.6 +16 ^s .6 -4 ^s .9								

Date 1955 Aug 15-16 Mon. Tue. Observer Mo. - H. v. Julian Day 2435335

① 142 17 13-2 3461.5

[illegible]

Dne Temp... +72°

Rus... 15.756

Dne Temp.....

Transparency Conditions Fair, after clouds cleared.

112

Ending Time E.S.T.	Hour 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 - Ent. Bin	good
2 50	7 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 At 23:16 star jumped twice length of slit in declination. Was clamped in dec	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	35 W	+22 20	2	7.59	K ₀	4-4-4	" 8 " "	fine
2 51	07 W	30 15	2	7.34	K ₀	4-4-4	" 2 " "	fine
2 51	40 W	57 02	2	7.94	K ₂	4-4-4	" 8 " " 0315 Very thick ground MIST.	weak
2 51	33 W	53 57	2-3	7.50	F ₅	4-4-4	" 2 " "	fine
						15/10	" "	O.K.
							2 P.H. + 6	
							N. Heat.	
							Mc SC MTW STW S SW ME	
							Aug 17 - 22.6 +19.5 -8.5 -.4m -42.8 +27.4 +11.7	

Date Thurs Aug 18-19 Observer L-K Julian Day 2435338
0145 10 21.6 3465.4

[illegible]

Dme Temp. + 71° F

Transparency Conditions

114

Clouds and haze at sunset clearing slowly.

Ending Time E.S.T.	Hr End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 30		53W	54 40	0	9.0	Ao	2-2-2	Set 2. Ecl. Bin.	weak
0 10		45W	67 58	0	7.2	Bse	4-4-4	Set 2 Be Prog.	good
0 15		02W	+61 41	0	6.6	Bse	4-4-4	" 8 " "	good
1 15		48E	+65 43	0	7.1	BseB	4-4-4	" 2 " "	poor guiding good
2 30		01E	+63 06	0	7.5	cB(s)e	4-4-4	" 8 " "	good
1 30		04E	+48 31	0-1	7.9	Bgne	4-4-4	" 2 " "	fine
							15/10	" 8	O.K.
								2 PH + 2	
								MC SC MTW STW S SW ME	
								Aug. 19 -23.9 +22.5 -30.2 -5.7 -48.9 -19.9 +3.0	

115

Date Fri-Sat Aug 19-20/55 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	E1039-0	Set 0.008	31.2	20 30	22 00
22626	V548 Lya	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					3 00 EST		

D'ne Temp.....

Transparency Conditions

Slight Haze
cloud at Sunset

116

[illegible]

Date 1955 Aug. 20-21 Sat Sun Observer ^{Hg} Mo - ^{Hg} _~ Julian Day 2435340
 0147 05 53.7 3467.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 30.8	Starting Time E.S.T.	Ending Time E.S.T.
22629/9	ADS 12661	19 31.3	+05 47 ^B	I-25	F103a-D	0.008	30.8	22 20	00 02
22629/30	ADS 15758	22 09.6	+39 14	"	"	"	+30.8	00 07	00 15
22630/1	ADS 13765	20 18.6	+39 56					00 25 10 ^{2m}	00 26
								00 27 45 ^{4m}	00 28 25
								00 30 05 ^{8m}	00 31 25
								00 32 15 ^{2m}	00 33 15
22631/2	ADS 16325	22 47.5	+42 46	"	"	"	+30.8	00 44	01 00
22631/3	ADS 16227	22 39.6	+41 17	"	"	"	+30.7	01 05	01 21
22631/4	ADS 16526	23 03.1	+45 50	"	"	"	+30.6	01 29	02 07 ⁰⁷
22631/5	ADS 16912	23 35.1	+37 06	"	"	"	+30.6	02 17	03 15
	Focus Test	MB					+30.5		
								sky too poor	325

Due Temp. 80°
 Eqs. 15.887
 Due Temp. 76°

865
 022
 15.887
 15.887

Transparency Conditions Fair in zenith - poor at horizon.

200 visitors shown M13 and M57

118

Mo. Hg.

Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
+05 56	0	7.61	K ₆	4-4-4	Sect 2 Vis Bin.	weak
+39 30	1 1/2	5.35	K ₂	12	8 1	weak
+40 27	1	2.75	F8p	-	1 25	
				12	4	
				-	7	good
				-	10	fine
+43 05	1	6.24	K ₅	4-4-4	2	weak
+41 35	1	6.00	K ₀	4-4-4	8	little weak
+16 10	1	6.59	K ₅	4-4-4	Sect 2	weak
+37 24	1.0	6.86	F ₀	4-4-4	9 sky poor, bands	good
				15/10	5	centre very slightly to red
					1 PM	

Date 1955 Aug. 21-22 Sun-Mon Observer K-Hv Julian Day 2435341
0148 03 41.5 3469.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. <i>32.6</i>	Starting Time E.S.T.	Ending Time E.S.T.
[226386	ADS 9908	⁵⁸⁻⁹ 15 59.0	⁴² +11 4 3	1-25	E1030-0	^{set} .008	32.6	20 09	21 49
[226387	ADS 12445	19 22.1	+19 42	"	"	"	32.3	21 57	22 37
226388	ADS 14322	20 44.9	+52 03	"	"	"	32.2	22 48	23 16
226389 {	V548 Cyg	19 54.6	+54 32	"	"	.016	32.2	23 22	00 00
	<i>1/6</i>	<i>lost</i>	<i>0 4.5</i>						

Date Temp. $+87^{\circ}F$
 701s. 15. 922
 Date Temp. 80

.900
 .022
 15.
 15.922

Transparency Conditions Good

120

Ending Time E.S.T.	For Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 12	28W	+11 33	0-1-0	8.08	K2	4-4-4	Set 2 Vis. Bin → frequent lightning in the West.	weak flexure
2 3	54W	+19 48	1	7.30	K5	4-4-4	" 8 " " → storm visible in West.	weak
3 6	10W	+52 14	1	6.88	G5	4-4-4	" 2 " "	good
4 10	2N	+54 41	1	9.0	A0	2-2-2	" 2 Gel. Bin → It's still there.	weak
						3/6	0005 Clouded + T.	centre very slightly to red.
							2 P.H.	
							MC SC MTW STW S SW ME	
							Aug. 22 -25.3^S $+27.8^S$ -33.2^S $+8^m$ $+16.5^S$ $+9.7^S$ $+8.8^S$	

Date 1955 Tue-Wed Aug 23-24 Observer K-Hr Julian Day 2435343.0
 ① 149 59 20.8 3471.4

[illegible]

Dose Temp. 58°

.718
022

15.

15.740

Transparency Conditions

Transparency Conditions *Excellent except for
Broken Cloud at start*

122

[illegible]

Date (Thurs) Friday Aug 26/55 Observer H₂ Julian Day

Julian Day

[illegible]

Air Temp. 68°F
 W.S. 15.756
 Air Temp.

Transparency Conditions

Cloudy first half,
 clearing later on
 haze and/or cloud in W & N

124

Ending Time L.S.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 19	34 W	30 00	2	3.56	G-D		Set 2	Nothing slit closed
01 12						12	Set 5	
01 18							Set 8	
01 5	3 W	52 W	1-2	7.86	F ₅	4-4-4	Set 2	Nothing slit closed
							2:30 Cloud coming from west	
							2:45 Haze & cloud cover star almost completely	
							3:10 Haze gone.	
						15/10	Set 8	
							4 PM	
							MC SC MTW STW S SW ME	
							Aug. 26 -27.0 ^S +0.3 ^S -45.9 ^S +.5 ^m +0.4 ^S -31.6 ^S -8.9 ^S	

125

Date 1955 Sat-Sun Aug. 27-28 Observer K-M Julian Day 2435.347
 0 153 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-O	Set .008	25.0	21 : 58	23 42
[22647	ADS 16550	23 04.5	+8 08	"	"	"	24.7	23 : 52	0 22
	MWC 381								
[22648	HD 208682	21 52.9	+64 52	"	"	"	+24.6	00 35	00 49
	MWC 395		10						
[22649	HD 217543	22 56.3	+38 28	"	"	"	+24.6	00 53	01 17
22650 {	ADS 16520	23 02.5	+20 03	"	"	"	+24.5	01 22	03 16
	Focus test	O.T.B.				"	+24.3		

Dne Temp... +70°F

Pous... 15.78.7

Dne Temp... +60°F

0h 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 Visitation shown 13 lyp.
L. K. 2 RASC Telescopes. 126

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 47	09W	+16 28	0	7.72	K5	4-4-4	Sat 2 Vis Bin Cloud Moving up from the SE at 23:00	weak
0 22	40E	+8 27	0	6.28	M6	4-4-4	" 8 " "	good
00 41	00W	+65 06	0	5.8	B3ne	4-4-4	" 2 Be	sl. strong
01 15	23W	+38 27	0	6.4	B3ne	4-4-4	" 8 Be	sl. strong
03 2	16W	+20 20	0	7.67	K0	4-4-4	" 2 Vis Bin Clouds from south. Star gone for 12 min at 2 28 Many cloudy intervals later.	good
						20-15	8	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	

Date 1955 Aug. 30-31 Tue. Wed. Observer Mo - H ✓ Julian Day 2435250

© 156 44 47.7 3480.8

[illegible]

Home Temp.....

128

Observing Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 21	48 W	+ 77 43	0	6.7	Ao	4-4-4	Set 2. Sp. Bin. Practically covered by clouds till 20:21	fine
23 54	36 W	+ 33 56	1 1/2	7.89	Ko	4-4-4	" 2 Vis Bin Covered by cloud at 20:50 to 21:26	good
01 46	07 W	54 43	0	9.0	Ao	2-2-2	" " Ec/Bin.	fine
3 59	44 W	36 37	0	7.34	Ko	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 -0.58 +19.5 -9m -20.7 +10.1	

Date 1955 Aug 31 - Sept 1 Wed-Thu Observer R- Julian Day 2435.351
 2157 12 48.5 2122.1

① 157 42 48.5 3482.4

[illegible]

Time Temp.....

130

[illegible]

131

Date 1955 Sept 1-2 Thu-Fri Observer K - Mg 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 15993	22 25.9	51 54	I-25	E 103a-0	.008	18.7	00 40	01 30
[22657	ADS 16526	23 03.1	45 50	"	"	"	18.7	01 37	02 15
[22658	ADS 16681	23 15.3	56 41	"	"	"	18.7	02 24	04 52
	Focus Test	MP		"	"	"	18.6		

Eme Temp. $+61^{\circ} F$

Focus.....15.708692

Ime Temp..... 56.....

Sept 1-2. Clearing at Sunset
so I opened up then it clouded
over again.

Transparency Conditions

Clearing well around 12 30

132

[illegible]

133

Date 1955 Sept 2-3 Fri-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	E103a-0	^{Set} .008	22.0	19 : 38	21 : 58	SW
22660	ADS 12750	19 34.9	+16 21	"	"	"	"	22 : 07	22 : 11	"
22660	V548 Cyg.	19 54.6	+54 32	"	"	.016	22.0	22 : 18	23 48	SW
22661	ADS 15431	21 49.6	+19 51	"	"	.008	21.9	23 : 56	00 46	W
22662	" 16810	23 26.6	51 52	"	"	"	22.0	00 54	02 14	W
22663	" 16690	23 16.2	61 39	"	"	"	22.0	02 22	03 32	W
22664	" 1233	01 28.6	62 34	"	"	"	22.0	03 39	04 39	W
Focus lost.					O. 9.13.					

Inne Temp. 62°F

134

[illegible]

135

Date Sat-Sun Sep 3/4, 1955 Observer ^{Hof} ARK - Hg Julian Day 2435.354
 ☉ 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.
[22665]	ALG 15690	22 05.5	+14 08	225	E 1030-D	lit 1.02	22.5	42 58	00 55
[22666]	" 15874	22 17.5	+40 10	"	"	"	22.3	00 09	01 25
[22667]	" 538	00 33.2	+46 24	"	"	"	22.3	01 30	02 30
[22668]	" 1053	01 13.2	+39 26	"	"	"	22.1	02 35	04 15
[22669]	" 1904	02 24.8	+24 48	"	"	"	22.1	04 20	04 40
	Focus Test	07B					22.0		

Eme Temp. 62°F

136

300 visitors or more. Showed 3 Cys with the 74th
to Moon and Sathini with a small telescope

[illegible]

Date Sun. Sept. 4-5/55 Observer L-K Julian Day 2435355

0161 35 08.1 3489.4

[illegible]

D ne Temp.....

138

Start delayed by cloud and haze at sunset.

[illegible]

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 198183	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 16248	22 40.9	+29 56	"	"	.008	21.8	00 58	02 12
{ 22681	ADS 546	00 33.6	+48 48	"	"	"	21.7	02 22	02 52
{ 22682	ADS 1560	01 52.0	+40 54	"	"	"	21.6	02 57	04 55
	Focus Test	OTB		"	"	"	21.5		

Date Temp. 69° F.

Transparency Conditions Excellent.

140

1015. 15.740

Date Temp. 57° F.

Ending Time E.S.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 02	52 W	-10° 16'	1/2	8.1	B ₃ e	4-4-4	Set 2. Hd Be	good
21 57	2 W	+18° 14'	1	6.9	B ₁ sex	4-4-4	Set 8 Hd Be	sl. wk.
20 07 13			1	4.5	B ₆ e		Set 1 Hd Be	fine
20 15		+36° 20'	1	"	"	8-16	Set 5 "	
20 35	39 W		1	"	"	8-8-8	Set 9 "	
22 4			1	4.9	B ₂ sex		Set 1 Hd Be	
22 45			1	"	"	24	Set 5 "	fine
22 5	44 W	+45° 58'	1	"	"	4-4-4	Set 9 "	
23 20	12 W	+77 46	1	6.7	A ₀	4-4-4	Set 5 Sp Bin. Can still reach eyepiece at 7 th West. Telescope reversed	sl. strong
00 4	30 W	+54 48	1	9.0	A ₀	2-2-2	Set 5 Ecl. Bin	fine
02	13 W	+30 13	1.0	7.34	K ₀	4-4-4	Set 2 Vis Bin	fine
02 1	56 W	+49 07	1	6.53	K ₂	4-4-4	Set 8 Vis Bin	sl. weak
04 51	4 W	+41 11	1	8.08	G ₅	4-4-4	Set 2 " "	fine
						15/10	Set 8	O.K.

2 PM

141

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

Julian Day 243.5357

0163 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	E1030-0	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 Lyr	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
	HD 217050	"	"	"	"	"		3 : 00	3 : 06.4
	"	"	"	"	"	"	22.7	3 : 07	3 : 17
	MWC 49	"	"	"	"	"	22.8		
22690	HD 15472	2 ^h 24.4	+70° 30	"	"	"	22.5	3 : 25	5 : 07
	Focus Test	O.T.B.		"	"	"	22.5		

Drie 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.

Landing Time E.S.T.	No. Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:00	45W	+77° 43'	1	6.7	A0	4-4-4	Set 2 Spec Bin	fine
0:18	13W	+37° 01'	1	6.9	G5	4-4-4	Set 2 Vis Bin Broken clouds across sky - 20:20 strong wind	good
2:24	30W	+7° 19'	0	7.31	K0	4-4-4	" 8 " Some shifting in strong gusts of wind. 20:50	sl.wk
0:18	00 W	+54° 41'	0	9.0	A0	2-2-2	Set 2 Tel. Bin. Seeing changing rapidly Dec. lamp stuck; fixed same. Can't reach motor's eyepiece for HD 154522 (00:40)	good
1:36	20 W	+65° 50'	0	5.86	G0	4-4-4	Set 2 Vis. Bin.	weak
2:49	33 W	+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	
3:06			0	"	"	6-6	Set 5 "	fine
3:17	06 W	+48° 26'	0	"	"	4-4-4	Set 9 "	
5:07	123 W	+70° 46'	0	8.0	Bane	4-4-4	Set 5 HdBe	fine
						15/10	Set 10	O.K.
2 P.H. + 0 in refrig.								
MC SC MTW STW S SW ME								
Sept.7	-26 ^s .8	(+5 ^s .3)	-8.1	-.6m	+4 ^s .1	+15 ^s .8	+5 ^s .3	

Date Wed. Sept. 7-8, 1955 Observer L. Hg 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	I-25	E-103A _b	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 30
22695	" 16913	23 35.1	37 06	"	"	"	16.5	01 39	02 45
22696	" 546	00 33.6	48 48	"	"	"	16.6	02 50	03 38
22697	" 2701	03 36.2	32 37	"	"	"	16.6	03 44	05 10
	Focus Test	07B		"	"	"	16.6		

One Temp. $+49^{\circ}$

Transparency Conditions

144

[illegible]

145

Date Thurs Sept 8-9 1955 Observer K - Mn Julian Day 243.5359
 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	I-25	K103a-0	5ct .008	17.3	19 58	20 : 30
22699	→ ADS 10633	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 14567	20 58.5	+39 07	"	"	"	16.5	23 16	0 : 16
22702	→ HD 154528	17 00.9	+77 48'	"	"	"	16.3	0 ^h 28	0 ^h 44
22703	→ ADS 16325	22 47.5	+42 46	"	"	"	16.2	0 ^h 53	1 : 13
22704	→ ADS 1A	23 57.5	+65 32	"	"	"	16.4	1 12 1	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 1630B	1 57.8	+41 51	"	"	"	16.2	3 : 56	4 : 04
22708	→ ADS 1630A	"	"	"	"	"		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 : 16	5 : 04
	FOCUS TEST	O.T.B.		"	"	"	16.6		

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

Hum. $15:6.71$

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

Had trouble with spec. heat.
Found loose connections at
small knife switch on the
bridge circuit.

Transparency Conditions *Good - Cleared shortly after sunset.* 146

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 13.5	29W	+77 42	0	6.7	A0	4-4-4	Set 2 Spec Bin. <i>telescope out of balance, hung chair on spectrograph</i>	fine
0 17.5	27W	+13 11	0	7.10	G5	4-4-4	Set 2 Vis Bin. <i>Left RA + Dec buttons not working properly</i>	sl. weak
0 18.5	20W	+34 56	1	7.09	K0	4-4-4	" 8 " "	fine
0 20.7	W	+39 20	2	7.42	K2	4-4-4	Set 2 " "	sl. weak
0 41	37 W	+77 45	1	6.7	A0	6-6	Set 8 Sp. Bin.	fine
1 3	15 W	+43 02	2	6.24	K5	4-4-4	Set 8 Vis. Bin.	good
1 37	28 W	+65 51	2	5.86	G0	4-4-4	Set 2 Vis. Bin. <i>guiding little poor</i>	fine
2 40	138 W		2	7.34	A2	4-4-4	Set 8 " "	strong
3 50	139 W	+29 49	$1\frac{1}{2}$	7.23	K0	4-4-4	Set 2 " "	good
4 04	155 W	+42 06	1	5.08	A0	4-4-4	Set 8 " "	strong
4 11			1	3.03	K0		Set 1 " "	
4 28			1	"	"	12	Set 5 " "	good
4 41	102 W		1	"	"	6-6	Set 9 " "	fine
5 00	142 W	+57 19	$1\frac{1}{2}$	6.85	K0	4-4-4	Set 2 " "	fine
						15/10	Set 8	O.K.

3 P.H. + 0 in refrig

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

① 166 26 15.2 3499.6

[illegible]

Time Temp....65°F....

Used $1\frac{2}{3}$ normal exposures.

148

[illegible]

149

Sat Sep. 10. 70 visitors - cloudy Mo-K.

Date Sun-Mon Sep 11/12, 1955 Observer BK - HV Julian Day 243.5362

0168 22 56.6 3503.8

[illegible]

Ime Temp.....

Transparency Conditions Good, for a while only
much cloud
improved later

[illegible]

[illegible]

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	Fo	4-	Set 2 Vis Bin. about 15 mins - if sky then star gone. closed at 23.00 2 P.H. loaded + 6	

153

Date Tues. Wed. Sept. 12-14 Observer M. N.Julian Day 2435364

1955

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	+28° 32'	I-75	E 103a-0	.002		1:53:25	1:54:00
	"	"	"	"	"	"		1:55:20	1:55:40
	"	"	"	"	"	"	13.8°	1:57:30	1:58:40
22721	ADS 915	1 ^h 01.2	+52° 52'	"	"	"	13.8°	2:07	4:39
22722	ADS 1073	1 ^h 13.8	+57° 42'	"	"	"	13.9°	4:43	4:55
	Focus test	a.T.P.		"	"	"	14.0°		

Dne Temp... 54° F.

Fous... 15. 624

Dne Temp... 53° F.

Transparency Conditions... Clearing... 11.00

Clouded 3:00 - closed shutters

Cleared 4:00. opened again.

154

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1.54.00			1	2.42	Aop	-	Set 1 (Normal) Vis. Bin.	
1.55.00			1	"		12	Set 5 (1/2) " "	good
1.58.00		+28° 51	1	"		6-6	9 (2x) " "	
4.39	" 47 W	+53° 16	1	7.14	Ko	4-4-4	Set 2 Vis. Bin. Hazed over 2:30 2nd Comp. 12:40 Clouded in 13:00 - 4:05	l weak
4.55	" 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 refrig.	
							MC SC MTW STW S SW ME	
							Sept. 14 +7.5 -1.5 -3.6 -.6 ^m -18.6 +6.3 +1.3	

Date Thurs Sept 15-16/55 Observer L-Hr Julian Day 2435366
 ☉ 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.
22723 {	ADS. 15602	22 00.2	32 28 ⁷	I-25	E-103A ₀	Sep .008	21.0	22 30	00 00
22724 {	" 42	23 59.8	26 06	"	"	"	26.0	00 07	02 07
22725 {	" 990	01 07.5	29 32	"	"	"	26.2	02 13	04 13
22726 {	" 1904	02 24.8	24 48	"	"	"	26.0	04 17	05 01
	<i>Lens Test</i>			<i>O.I.B.</i>					

ome Temp.....

156

Waze, clouds, delayed start.

	MC	SC	MTW	STW	S	SW	ME
Sept. 16	+8.0 ^S	-2.5 ^S	+1.1 ^S	+6 ^m	-27.9 ^S	+22.4 ^S	+1.2 ^S

157

Date Fri-Sat 1955 Sep 16-17 Observer MR - RK Julian Day 243.5367
 0173 15 15-8 3513.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22727	HD 154528	17 ^h 00 ^m .9	+77° 48'	I-25	1030-0	^{set} .008	+19.10	19 44	20 20
22728	ADS H213	18 12.9	+56 33	"	"	"		20 34	
22728	HD 154528	17 00.9	+77 48	I-25	1030-0	.008	19.8	23 40	00 10
22729	ADS 15992	22 25.9	+51 54	"	"	"	"	00 25	01 35
22730	XX Cep	23 33.6	+63 47	"	"	.016	"	01 52	03 22
22731	ADS 915	01 01.2	+52 58	"	"	.008	"	02 44	04 44
22732	ALC 3093	04 10.8	-07 49			"		04 58	05 02
						"	20.0	05 02	05 10
						"		05 10	05 26
						"			
	Foras 104	27.8				"			

Dne Temp. 60°

158

Ending Time E.S.T.	Alt Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 20	44 W	+ 77° 43'	0	6.7	AD	4-8	set 2 spec bin Tel F	sl. wk.
		+ 56 34		6.9	FO	4-	set 2 Vis Bin clouded out	
		+ 77 14	0	6.7	AD	4-4-4	set 8 spec bin Tel F poor guiding	good
		52 10	1	7.08	G5	4-4-4	set 8 Vis Bin clouded-out exposure on ADS 11213 on this plate also	fine
		64 08	0	9.0	A8	4-4-4	5 Tel. Bin "	sl. wk.
		53 17	1	7.14	K0	4-4-4	5 Vis Bin "	sl. wk
		- 7 41	0	5.00	G5		1 " Tel. W	
						4-4-4	5	good
							9	fine
						15/10	9	O.K.
							3 PH + 6 in ref.	

Date Sat - Sun Sep 17-18/55 Observer Ad-L Julian Day 243436.8
 0174 13 49.4 3515.5

[illegible]

Dole Temp. 68°F

Transparency Conditions Good

200 Visitors Showed M13, Ring Det. with 74th

160

[illegible]

Date Sun - Mon 1953 Sep 18-19 Observer MR - BK Julian Day 24353.69
 ☉ 175 12 24.9 3517.2

[illegible]

Dose Temp. 70°F

visitors. Ole &
Chrisnaal, Manchester.

Transparency Conditions *fair, low haze*

162

Ending Time LST.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:00	47 W	+77° 43'	1	6.7	A0	4-4-4	set 2 spec bin. Tel. E	very poor guiding! weak
21:00	40 W	+56 34	1	6.93	F0	4-4-4	set 2 vis. bin. " "	good
22:00	18 W	+52 15	1	6.88	G5	4-4-4	set 8 " " " "	good
23:00	—	+59 35	2+	7.42	Ma	4-4-4	set 2 " " " "	weak
00:00	43 W	+77 44	2	6.7	A0	4-4-4	set 8 spec bin " W	poor guiding good
00:00	15 W	8 26	2	6.28	Mb	4-4-4	" 8 vis bin	weak
0^h40 at 10 ummi 0^h50 star near good 1^h20 back still in x 1.6 1 PH MC SC MTW STW SW ME Sept. 19 ^S+7.5 ^S-3.3 ^S+7.2 ^S+6^m ^S-6.8 ^S-4.4								

520.7

Transparency Conditions

Sept. 21 $+14^s.7$ $-3^s.8$ $+11^s.1$ $+ .8^m$ $+11^g.3$ $+2^s.4$

Date Thurs-Fri Sept 22-23, 1955 Observer O-Hr Julian Day 2435373.
 ① 179 07 04.0 3524.1

[illegible]

Ice Temp. 48°F.

166

Ending Time or Angle E.S.T. End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 22 27 W	+13 13	0	7.10	G5	4-4-4	Set 2. Vis Bin.	fine
20 27 57 W	+3 19	0 ⁺	5.24	G5	4-4-4	" 8 " "	good
21 11 54 W	+56 33	0 ⁺	6.93	F0	4-4-4	" 2 " "	fine
21 31 2	+36 52	1	5.68	M6	4-4-4	" 8 " "	fine
22 51 51 W	+19 48	1	7.30	K5	4-4-4	" 2 " "	good
23 4 19 W	+38 18	1	7.74	G5	4-4-4	" 8 " "	fine
0 5 18 W	+54 42	1	9.0	A0	2-2-2	" 2 Ecl. Bin.	fine
02 2 44 W	36 35	0	7.34	K0	4-4-4	" 2 Vis Bin.	fine
05 43 W	39 45	0	8.04	G5	4-4-4	" 8 " " 0450 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	+9.9 ^m	+31.4 ^S	+30.4 ^S	+5.3 ^S

167

Bk

Date ~~Sat-Sun~~ Sept 24-25, 1955 Observer O - Hr Julian Day 2435375

① 181 04 34.0 3527.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22763	ADS 12520	19 25.2	+2° 41'	I-25	E103a-O	5.008	+16.3	21 16	22 34
22764	ADS 15543	21 56.2	+12 38	"	"	"	+16.3	22 39	22 59
22765	ADS 15431	21 49.6	+19 51	"	"	"	+16.3	23 04	00 21
22766	" 16681	23 15.3	56 41	"	"	"	16.5	00 55	04 01
22767	" 2794	03 43.8	34 31	"	"	"	16.5	04 20	05 16
Focus test					O.T.B.				

3527.5

Transparency Conditions good

22^h - clouds coming in from West.

168

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
22 34	01 W	+2 49	.0	7.52	K5	4-4-4	Set 2	Vio Bin Found slit set at .065	(C) weak
22 37	55 W	+12 56	1	6.00	F2	4-4-4	" 8	" " Thin Clouds	fine
00 21	7 W	+19 31	0	7.26	K0	4-4-4	" 2	" "	fine
04 21	59 W	57 00	0	7.94	K2	4-4-4	" 8	" " 0200 Thin Cloud,	weak!!
05 01	5 W	34 41	0	7.08	F0	4-4-4	" 2	" "	fine
						15/10	" 8		OK
							2 P.H. + 2		
							H on M.		

Date Sun. Sept 25-26/55 Observer L-Hr 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 26.6	51 52	"	"	"	14.8	23 14	01 16
22771	" 17038	23 45.6	53 39	"	"	"	15.0	01 22	02 5
22772	" 1435	01 43.4	+07 11	"	"	"	14.8	03 00	05 10
	Focus 7 ft.			O.7B					

Ice Temp.....

Transparency Conditions Good

170

35243

[illegible]

Date Mon. Sept 26-7/55 Observer - Hr Julian Day 2435377.
 0 183 02 10.8 3531.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 13.5	Starting Time E.S.T.	Ending Time E.S.T.
22773	ADS 2701	03 36.2	32 37	I-25	F1030-0	008	14.6	02 59	04 09
22774	M.W.C. 68 HD 21650	03 24.6	41 25	"	"	"	14.8	04 17	04 31
	3701	10 4			5/B				

Die Temp. +50°F

015 15.620 Reset at 0411 to 15.632

Die Temp. 4.8

Transparency Conditions

Clearing after
Midnight.

172

Ending Time E.S.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0410	33W	32 49	0	7.21	F8	4-4-4	Set 2 Vis. Bin.	fine
0410	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.	
							Hon. M.	
							MC SC MTW STW SW ME	
							Sept. 28 +8.0 -6.1 -29.9 -.2 ^m +11.0 -3.5	

173

Date Wed. Thurs, Sept 28-29, 1955 Observer O. H. v. Julian Day 2435379.
0 184 59 54.7 3534.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22775]	ADS 11494	18 31.6	+4 52	I-25	E103a-O	.008	+17.4	18 40	19 40
22776]	ADS 11825	18 50.3	+36 45	"	"	"	+17.3	19 44	19 54
22777]	ADS 12520	19 25.2	+2 48	"	"	"	+18.6	19 59	20 59
22778]	ADS 14027	20 30.7	+32 10	"	"	"	+18.6	21 03	22 23
22779]	91 Aqr	23 10.7	-9 38	"	"	"	+18.6	22 29	22 39
22780]	33 Psc	0 00.2	-6 16	"	"	"	+18.5	22 43	22 57
22781]	ADS 14909	21 17.5	+19 23	"	"	"	+18.9	23 02	23 10
22782]	ADS 15758	22 09.6	+39 14	"	"	"	+18.7	23 14	23 22
22783	ADS 16211	22 38.3	+29 42	"	"	"		23 25	23 26
"	"	"	"	"	"	"		23 27	23 29
"	"	"	"	"	"	"		23 29	23 33
22784	ADS 16681	23 15.3	+56 41	"	"	"	17.9	23 44	02 54
22785	HD 154528	17 00.9	77 48	"	"	"	17.8	03 09	03 59
22786	ADS 2794	03 43.8	34 31	"	"	"	17.7	04 09	05 15
7	7 +			0.9/2					

015....15.6.73.

Transparency Conditions *Clear*

174

015....15.6.73.

Moie Temp.....

54.7 353

Ending Time E.S.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19-01	16 W	+4 56	1-2	7.64	K2	4-4-	Set 2 Vis Bin	fine
19-01	12 W	+36 52	1	5.68	M6	4-4-4	" 8 " "	fine,
20-01	42 W	+2 51	1-2	7.52	K5	4-4-4	" 2 " "	weak
22-01	20 W	+32 22	1	7.83	K0	4-4-4	" 8 " " Reset Thermostat	fine
22-01	24 E	-9 19	1	5.1	K0	6-6	" 2 OLS	fine
22-01	55 E	-5 56	1	5.73	K1 III	4-4-4	" 8 " "	fine
23-01	00 W	+19 39	1	4.99	K0	6-6	" 2 Vis Bin.	fine
23-01	21 W	+39 30	1	5.35	K2	6-6	" 8 " " Head Control appears to stick on.	fine
23-01			1	3.56	G0	-	" 1 1' " "	fine
23-01				"	"	12	" 5 2"	
23-01	03 W	+30 01		"	"	-	" 9 4"	were in synchograph base.
02-02	1 W	+57 01	0	7.94	K2	4-4-4	" 2 Vis Bin	fine
03-02	10 W	77 45	0	6.7	A0	4-4-4	" 2 Spect. Bin. Telescope Reversed.	fine
05-02	37 W	34 40	0-1	7.08	F0	4-4-4	" 8 Vis. Bin	strong
						15/10	" 8 2 P.H. +2 H. M.	OK.

3 P.H. + 1 + file box
175

Date Fri/Sat, 1955 Sept 30/Oct 1 Observer Lhr - Box Julian Day 2435381
 O 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	103A-0	.008	+20.0	20 ^h 50	20 ^h 58 ^m
"	"	"	"	"	"	"	+20.6	21 ^h 1	21 ^h 17
"	"	"	"	"	"	"	+21.0	21 30	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
22790	ADS 16211	22 38.3	+49 42				+21.0	22 52	23 53
								23 53	23 55
								23 56	00 00
22791	ADS 16227	22 39.6	+41 17				21.2	00 15	00 35
22792	ADS 16325	22 47.5	+42 46				21.0	00 40	01 02
22793	ADS 94	00 03.2	+28 32					01 08	01 11
							"	01 09	01 11
								01 11	01 15
22794	ADS 538	00 33.2	+11 24					01 24	03 56
	Frame to -								

Core Temp. 56°

Obs. 15.710 , at 22° changed to 15.724

Core Temp. 44.0

Transparency Conditions *partly cloudy*

176

3538

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ⁵	3 ⁰⁰ E	+15 ⁰ 39	-7 $\leftrightarrow$ +1	4.99	KO	4-4-4	Set 2 Vis. Price Begin delayed by clouds	badly
21 ⁵	5 ⁰⁰ W	"	"	"	"	4-4-4	5 } occasionally small clouds.	fogged
22 ⁵	2 ⁰⁰ W	"	"	"	"	6-6	8	temperature not constant, thermometer checked apparently O.K.
23 ⁵	0 ⁰⁰ W	+66 35	0	6.73	F2	4-4-4	2 " long beam of debris in 6 min	distorted
24 ⁵	7 ⁰⁰ W	+56 32	0	6.53	MC	4-4-4	8 "	fine
25 ⁵		-30 04	0	3.56	GO		2 "	fine
26 ⁵						12	5	
27 ⁵							9	
28 ⁵		41 35	0	6.05	KO	4-4-4	2 "	fine
29 ⁵		43 05	0	6.24	K5	4-4-4	8 "	good
30 ⁵				2.42	Aop		1 "	
31 ⁵			0			12	5 "	too strong
32 ⁵		54 50					9 MC SC MTW STW SW ME	
33 ⁵		46 42	0	7.31	G5	4-4-4	Set 2 Sept. 30 $+7.6^S$ -6.5^S -25.2^S -1^m $+42.4^S$ $+6.5^S$	fine
						15/10		O.K.

Date Sat-Sun 1955 Oct 1-2 Observer MR-L Julian Day 2435382.

© 187 56 44.5 3540.6

[illegible]

Fore Temp. 57°F

ocs. 15.636

Fore Temp.

Transparency Conditions Excellent

178

250 vis line, showed β Cyg in 74"
MR, L + 4 RASC telescopes.

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:15	29 W	+38° 36'	1	6.47	Ma	4-4-4	Set 2 Vis Bin	fine
23:15	13 W	"	2	6.66	G5	4-4-4	Set 8 " "	fine
23:15	21 W	+49 59	3	5.87	K0	4-4-4	Set 2 " "	fine
00:15	25 W	39 31	4	5.35	K2	4-4-4	Set 8 " " ← working on heat control	fine
				7.59	K0	4-	Set 2 " " about 10 mins of clear sky then haze and clouds	
							3 P.H.s loaded + 4 H or M	

179

Date Sun. Mon. Oct. 2-3, 1955 Observer O - H Julian Day 2435383
 0 188 55 45.1 3542.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22799	ADS 11494	18 31.6	+4 52	I-25	E103a0	Set 1008	+15.9	18 52	20 18
22800	ADS 14457	20 52.1	+0 05	"	"	"	+17.3 +17.4	20 22	21 18
22801	ADS 13278	19 58.5	+49 50	"	"	"	+17.4	21 27	21 39
22802	ADS 14345	20 46.5	+49 45	"	"	"	+17.4	21 42	23 02
22803	ADS 14998	21 24.6	+59 19	"	"	"	+17.4	23 07	00 07
22804	" 16913	23 35.1	37 06	"	"	"	17.6	00 12	00 50
22805	" 1435	01 43.4	07 11	"	"	"	17.4	00 58	04 10
22806	HD 32147	04 55.9	-05 52	"	"	"	17.4	04 18	05 18
	<i>Low</i>	<i>Teint</i>			<i>O.9B</i>				

Air Temp. $+58^{\circ}\text{F}$

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

Air Temp.

Transparency Conditions *Some clouds at beginning
Clearing*

180

Ending Time L.S.T.	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 8	10 W	+4 57	1	7.64	K2	4-4-4	Set 2 Vis Bin Temp control stuck. Shit found at :003	fine
21	50 W	+0 19	1	7.16	K2	4-4-4	" 8 " "	fine
21 1	03 W	+49 58	1	5.87	K0	6-6	" 2 " "	fine
23 1	40 W	+49 57	1-2	7.77	Mb	4-4-4	" 8 " "	fine
00 07	57 W	+59 33	1-2	7.42	Ma	4-4-4	" 2 " "	fine
01	39 W	37 24	0-1-2	6.86	F0	4-4-4	" 8 " "	strong
04	1 W	+07 27	0.	7.99	K0	4-4-4	" 2 " " Guiding Poor	good
05	53 W	-05 48	0	7.0	K0	4-4-4	" 2 O.L.S.	fine
						15/10	2 P.H. Plt's Needed	OK.
							Hon M.	
							MC SC MTW STW SW ME	
							Oct. 3 $+7.1^{\circ}$ -7.4° -15.9° -0.01° -30.9° $+7.6^{\circ}$	

Date Tues Oct 4-5, 1955 Observer Ad- Julian Day 2435385
 0 190 53 52.7 3547.2

.....Julian Day 2435385.....
0 190 53 52.7 3547.2

[illegible]

3547.2

Transparency Conditions

Rather poor

182

clearing spasmodically after 2100

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 43		+ 46 06	1	5:	B3ne	G-	nit 1'	
23 00						G-6	" 5"	
23 24	2-59					G-6	" 9 Clouds,	
							MC SC MTW STW S SW ME	
Oct 5							+6 ^S .9 -8 ^S .2 -7 ^S .3 -1 ^m -4 ^S .9 -14 ^S .4	+11.9 ^S
6							+7 ^S .0 -8 ^S .4 -6 ^S .9 +1 ^m -6 ^S .1 -5 ^S .1	+8.8 ^S

183

Date Sat - Sun 1955 Oct 9/9 Observer Box Julian Day 24353.89

O 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.
22808	ADS 15268	21 39.3	+9 25	I-25	E603-a-0	Set .008	14.2	22 30	20 31
								22 31	22 33
								22 34	22 36
22809	ADS 15543	21 56.2	+12 38	"	"	"	14.2	22 47	23 10
22810	ADS 16550	23 04.5	+8 08	"	"	"	"	23 15	23 45
22811	ADS 1 A	23 57.5	+65 32	"	"	"	14.2	00 16	00 31
22812	ADS 546	00 33.6	+48 48	"	"	"	"	00 42	01 26
22813	ADS 1524A	01 50.2	+36 46	"	"	"	14.2	01 28	02 00
22814	ADS 1524B	"	"	"	"	"	14.2	02 04	02 44
22815	ADS 1753	02 11.0	+57 03	"	"	"	14.2	02 52	03 34
22816	ADS 278	03 35.6	+71 19	"	"	"	"	03 40	04 20
22817	HD 104528	17 00.9	+77 48	"	"	"	"	05 15	05 41
	Focus Test	C.T.C.							

184

89

3556.6

[illegible]

187

10-11 (Hd)

Date Mon-Tues / Oct 11-12, 1955 Observer Wm - H r Julian Day 243539.1

© 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 11773	18 ^h 47 ^m 8	+14° 25'	I-25	103a-0	.068	+20.0	19 ^h 02 ^m	20 ^h 52
22825]	ADS 13240	19 ^h 56.5	+36° 08'	"	"	"	+20.1	20 ^h 58	22 ^h 58
22826 {	ADS 1233	1 28.6	+62° 14'	"	"	"	+20.2	23 ^h 14	00 44
2-62 {	" 1459	01 44.0	64 22	"	"	"	20.4	00 50	03 14
22828 {	H.D. 50281	06 47.4	-05 03	"	"	"	20.4	03 32	05 26
	7-22	1-28	0 57.15						

IC13. 15. + 10

561.2

very good at beginning } few clouds near
late & the worse } W horizon

188

H. on. M.

189

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

G 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	19 50	19 40
{ 22830	{ MWC 350	20 34.0	-2 46	"	"	"	22.0	19 44	20 09
22831	HD 194335 MWC 343	20 20.0	37 10	"	"	"		20 12	20 24
							22.0	20 24	20 32
								20 32	20 36
22832	ADS HD 15268	21 39.3	+9 25	"	"	"		20 45	20 46
								20 47	20 49
							21.8	20 50	20 54
{ 22833	ADS HD 12992	19 45.9	38 28	"	"	"	21.7	21 05	21 49
{ 22834	ADS 546	0 33.6	48 48	"	"	"	21.8	22 11	22 51
22835	ADS 548	0 34.0	30 19	"	"	"	21.5	22 57	23 05
								23 05	23 11
								23 11	23 15
22836	{ HD 875	0 58.7	+0 50	"	"	"	21.8	23 22	00 10
22837	{ 1560	01 52.0	40 54	"	"	"	21.8	00 16	02 36

563.4

Transparency Conditions

190

12 Visitors (course 2b) showed Ring Neb. with 74"

Ending Time EST.	Angle ad	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 40	2 22	25 05	0	6.9	Bse	4-4-4	Sct 2 Be * clouds half time 1/2 min diff between sid clock & telescope circle	fine
20 30	0 39	-2 34	0	6.3	B9e	4-4-4	" 8 Be	fine
20 20				5.7	B3ne	6-6	" 1 Be	
20 20		37 20	0			6-6	" 5	fine
20 30	1 16					12	" 9	
20 20			0	3.51	Ko	12	" 1 Bk Binary Prog	
20 20						12	" 5	fine
20 50	15m	+9 40				12	" 9	
21 00	3 03	33 38	0	6.66	G5	4-4-4	" 2 Bk Binary Prog	fine
22 00	1 44	49 07	0-1	6.53	K2	4-4-4	" 8 " " "	fine
23 00				4.38	K2	12	" 1 " " "	
23 00						12	" 5 } Two clouds	fine
23 00	0m	- -				12	" 9 }	
20 00	0 W	+1 07	0-1	6.26	F0	4-4-4	" 2 Bk Bin. Prog Thru Unobs till 2335	fine
02 00	3 W	41 11	0-1	8.08	G5	4-4-4	" 8 " " " Clouds last part stay remaining chide closed at 3.30	fine

191

Date Oct 1920, 1955 Observer O. H. v. Julian Day 24354.00

① 205 44 37.7 3579.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22838	ADS 1703 ¹ B	23 57.5	+65 32	I-75	E103a-0	5.1 1.008	+10.6	22 55	23 55
22839	ADS 1268	1 30.5	+72 32	"	"	"	10.9	23 58	00 22
22840	" 1534 B	01 50.2	36 46	"	"	"	12.0	00 31	01 01
22841	2553	03 22.4	57 50	"	"	"	12.3	01 57	05 33

ole Temp.....41.1=

Transparency Conditions

Thurs Oct 13-14, 32 visitors course 4 (11 yr M + P) - cloudy

Sat Oct 15 about 180 visitors - cloudy - Hd-L 192

Sat Oct 15 about 180 visitors - cloudy - Hd-L

192

[illegible]

Date Fri/Sat, Oct 20/21, 1955 Observer Wm - Hr Julian Day 2439401

② 206 44 17.2 3581.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22842 [	ADS 12882	19 ^h 41.0 ^m	+4° 0'	I-25	103A-0	.008	+10.0	19 ^h 10 ^m	20 ^h 40
22843 [	ADS 1073	1 ^h 13.8	+57° 42'	"	"	"	+10.0	20 ^h 53 ^m	21 7
22844 [	ADS 548	0 24.0	+30 19	"	"	"	+10.0	21 18	21 20
								21 21	21 25
								21 26	21 34
22845 [	ADS 94	0 3.2	+28 32	"	"	"	+10.0	21 ^h 42 ^m 30 ^s	21 45 30
								43 50	44 30
								45 30	46 50
22846	ADS 1459	1 44.0	+64 22	"	"	"	+10.9	22 5	0 3 05
22847 {	HD 32147	04 55.9	-05 52	"	"	"	10' 0"	02 18	03 46
22848 {	" 37394	05 33.2	53 26	"	"	"	10' 0"	03 54	05 30

Day Temp. $+41^{\circ}$
 Focus 15.574
 Day Temp. 34

Transparency Conditions *at beginning: clouds disappearing*
in S and W.
transparency good

194

Ending Time SST.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ⁴⁰	37 W	$+40^{\circ} 8'$	0	7.50	G0	4-4-4	Set 2 W. Bin.	Weak
1 2	28 E	$+38^{\circ} 0'$	0	5.35	F0	4-4-4	" 8 " "	fine
2 4	—	$+30^{\circ} 36'$	0	4.38	K2	6-6	2	fine
2 5	31 E	" "	0			6-6	5	fine
2 6	22 E	" "	0			6-6	8	
2 7	—	$+28^{\circ} 49'$	0	2.42	40p	12	2 W. Bin.	
2 8	—	"	0			12	5	fine
2 9	26 E	"	0			12	8	
2 10	37 W	$+64^{\circ} 38'$	0	8.00	45	4-4-4	2	Weak
2 11	50 W	$-05^{\circ} 49'$	0	7.0	K0	4-4-4	2 OK S. MC SC MTW STW S SW ME	fine
2 12	53 W	$53^{\circ} 28'$	0	7.0	K0	4-4-4	Oct. 21 $+3.5^s$ -11.9^s -1.6^s -0.01^m -22.4^s $+9.7^s$ $+2.8^s$	fine
						7/10	2 BH. +10 H. M.	

Date Sat. Sun. Oct 21-22, 1955 Observer O - ^{1Bk)} Julian Day 2435402

0 201 43 58.4 3582.9

[illegible]

More Temp.....

About 2009 or so - Showed M15 & M30 with
RASA telescopes - O.P.K.

11:00 - 11:30 11:30 - 12:00 before
 ↓ midnight 11:00 - too windy earlier
 60 visitors (Forest Hill H.S. & Lindsay
 Arch. Soc.) showed C and M15

Date Wed. 26-27 Oct. /50 Observer -Hv

..... Julian Day 2435407.
 @ 212 42 50.3 3591.5

[illegible]

on Temp. $+40^{\circ}\text{F}$

at 15-552

on Temp.

Transparency Conditions Clearing at Midnight. 198

Very difficult to balance bridge.

91.5

Reading Time Angle R.S.T. R.d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05	71 28	0	7.52	G5	4-4-4	Set 2. Vis. Bin	fine
05	-05 07	0	7.5	K4	4-4-4	" 2 OLS	fine
					15/10	" 9	OK
						0540 Thin Cloud.	
						1 P.H. +8.	
						Hon M.	
						Gerry - See P.H. #2 in obs. box.	
						Shoulder screw on back is stripped.	

Transparency Conditions partly seen at first 200

60 Visitors Tutorial class showed C with 74"

Ending Time E.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 21	2 32	59 58	0	6.9	B4e	4-4-4	Set 2 Bc prog.	fine
19 30	1 33	26 21	1	5.9	B3e	4-4-4	" 8 " "	fine
20 03	5 50	77 45	1	6.7	A0	4-4-4	" 2 Sp. bin Telescope reversed Guiding	strong
21 39	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	B(3)2e	2-2-2	" 2 Bc Prog. Doubtful of field - no sketch	strong
	33E	62 12	0	6.5	B2e	4-4-4	" 8 " "	strong
	3 W	44 48	0	7.8	B3ne	4-4-4	" 2 " " 0050 Haze, Cloud, Mist, Every thing dripping outside	good
						15/10	" 8 Concave dec. quick Motion. won't work.	OK
							2 D.H. + 2	
							H - M.	
							MC SC MTW STW S SW ME	
							Oct. 28 +4.5 ^S -17.3 ^S +40.0 ^S +.7 ^m -27.4 ^S -26.4 ^S -1.6 ^S	
							31 +3.8 ^S -21.4 ^S -3.5 ^S 0 ^m -29.5 ^S +0.4 ^S +2.5 ^S	
							Sat Oct 29 - 15 visitors, some got a look at the clouds & rain Mx - L	

207

☉ Nov 5 221 42 40.1 3608.9

Date Sat/Sun Nov 5/6, 1955 Observer Wm - R Julian Day 2435417

☉ Nov 6 222 42 49.0 3611.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22860	[ADS 12445	19 ^h 22.1	+19° 42	I-25	103A-0	.008	+6.0	18 ^h 04 ^m	19 ^h 14 ^m
22861	[ADS 13240	19 58.5	+36 08	"	"	"	+6.0	19 21	21 31
22862	[ADS 1268	1 30.5	+72 32	"	"	"	+6.0	21 45	22 9
22863	[ADS 1459	1 44.0	+64 22	"	"	"	+6.0	22 16	01 16
22864	ADS 1630A	1 57.8	+41 51	"	"	"	"	01 24	01 25
								01 25	01 27
								01 28	01 32
22865	ADS 1630B	1 57.8	+41 51	"	"	"	"	01 34	01 38
								01 38	01 40
								01 46	02 00
22866	{ +10 154528	17 00.9	+77 48	"	"	"		02 00	02 00
	{ FMC 128								
	{ +10 154528	17 00.9	+77 48	"	"	"	Too much light		
	{ Focus Test C.T.B.								

608.9

Temp. 41°F

15.522

Temp. 132°F

Transparency Conditions good at horizon

202

later transparency decreasing

3611.0

Ending Time LST. Ed	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS								Quality
9 ^h	30 ⁻ W	+19°48 ⁻	0	7.30	K5	4 ⁻ 4 ⁻ 4	Set 2	Un, bin							good
11 ^h	13 ⁺ W	+36°17 [']	0	7.81	K0	4-4-4	1 8	" "							fine
22 ^h	46 E	+72 48	1	6.22	K0	4-4-4	" 2	" "							strong
0 ^h	5 ⁻	+64 38	1,0	8.00	K5	4-4-4	" 8	" "							fine
1 ^h				303	K0		1	"							
2 ^h						12	5	"							strong
3 ^h	142 CG		1				9	"							
4 ^h			1	5.08	A0		1	" seems fainter							strong
5 ^h						6-	5	4 brighter and comp.							
6 ^h	142 CG		2			6-6	9	"							
7 ^h	177 43		0	6.7	A0	4-4-4	5	MC ⁵ SC ⁵ MTW	STW	S	SW	ME		strong	
8 ^h	check			21	0.00		Nov. 2	+5.0	-22.5	+7.8	+3.5 ^m	-30.4 ^s	+20.4 ^s	+4.1 ^s	
						15/10	Set 9	+5.2	-23.5 ^s	+20.0 ^s	+1.5 ^m	-30.6 ^s	-26.4 ^s	+2.7 ^s	
							2.741								
							7	+6.7 ^s	-24.9 ^s	-23.2 ^s	-.5 ^m	-2.1 ^s	+27.0 ^s	+9.2 ^s	

① No 11 233 43 00.0 3613.1

Date Mon - Tues 1958 Nov 7-8 Observer MR Julian Day 2435419

Q NOV. 8 224 43 13.1 3615.1

[illegible]

Ending Time Angle E.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19.2.43 W	+2° 47'	1	7.9:	K5	4-4-4	set 2 Urbin Star seems bright but field checked in BD	good
2: -	+3 17	1	7.86	K0	4-	" 8 " " Exp. stopped by clouds at 20:15	unclear
						Cloudy till midnight +	
						2 fl + 8	
Nov. 9 MC SC MTW STW S SW ME							
	+6.8	-5.1	-13.2	0 ^m	-4.0	-16.0	+11.0
Nov. 11 +7.3 -6.9 -3.5 -.1 ^m -5.6 +2.2 0							
14	+9.5	-8.5	+13.9	+3 ^m	-5.5	-32.0	+5.6
16	+10.2	-11.3	+22.9	+3 ^m	-7.3	-14.3	-3.7
18	+11.8	-14.1	+31.9	+4 ^m	-7.6	+5.0	+1.0
21	+13.1	-18.4	-17.9	-.7 ^m	-8.6	-22.3	-6.0
23	+16.5	-21.0	-16.4	-.1 ^m	-8.9	-1.9	-0.6
25	+16.8	-25.5	-11.1	-.1 ^m	-9.5	+16.0	-2.3
28	+19.1	-31.6	-5.0	-.2 ^m	-11.4	-16.4	-1.0

205

② 245 54 08.8 3645.2

Date Mon. Nov. 28-29 1955 Observer MR - H Julian Day 2435440② ~~276 24 11.0 36674~~

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22869	HD 207130	21 41.9	-71 52	I-25	103 c-o	^{set} 1008	-3.6c	18:49	19:39
22870	8 Op	23 35.2	+77 04	"	"	"	"	19:47	19:55
	"	"	"	"	"	"	"	19:51	19:55
22871	4 Cas	1 18.9	+67 36	"	"	"	"	20:05	20:38
22872	ADS 1459	1 44.0	+64 22	"	"	"	-4.4	20:43	00:01
22873	H.D. 36434	05 26.9	32 44	"	"	"	-4.3	00:22	01:02
22874	" 30353	04 41.8	43 06	"	"	"	-4.2	01:14	03:32
	Focus Test		05 13						

Temp. $+150$

15.400

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

Transparency Conditions *fair, cld. N.Y.S., full mem*

206

[illegible]

Date Sat/Sun, Dec 10/11, 1955 Observer Wm Julian Day 2435452.
 @ 258 04 38.6 3660.4

[illegible]

Temp.

Transparency Conditions *few clouds near Nard Shon Toa*

208

3660 4

[illegible]

Date Thurs - Fri Dec 15-16/55 Observer Hd-H Julian Day 24354.57
 @ 263 09 49.7 3664.4

[illegible]

Temp. $+17^{\circ}\text{F}$

15.370

Temp. 15°F

Transparency Conditions *Fair*

210

Clear at sunset, then cloudy till 21.50

Ending Time EST. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1230 103W	43 13	0	8.3	Gep	4-44	Set 2 Bidelman's *	<i>Fine</i>
					15/10	" 8	<i>OK</i>
						*1230 Shatters Closed " Snow.	
						Continuous light snow all night	
						slightly off the mountain.	
						2 P.H + 2	
						from M.	
						MC SC MTW STW S SW ME	
						Dec. 16 $+12.8$ -29.4 $+37.8$ $+5^m$ -13.0 -3.2 -4.3	
						19 $+19.1$ -0.1 -14.2 -3^m -9.7 $+30.2$ -0.8	

Temp.....

15.377

Temp.....

Transparency Conditions

212

0200 Temp { inside -1°F
outside -8°F

Ending Time RST. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 23W	+46 14	0!	4.95	68-11W	set 1	circ!	
02 51 40W	+05 09	0-4	6.8	B2e	4-8	5 snow!! closed	
05 01 40W	+03 04	000	7.7	B3ne	4-8	112 Hd Be Bin.	
					15/10	" 8	
						0415 Guiding Very Poor	
						0500 Clouds thank goodness	
						Temp -5 4-10	
						2 A H plates needed	
						Hom.	
						MC SC MTW STW S SW ME	
						Dec. 21 +22.0 -3.5 -10.0 -1.1m -8.8 -11.0 -4.5	

Temp.

214

[illegible]

① Dec. 26 273 20 49.6 3667.0

⊙ Dec. 27 274 21 56.6 3667.1

[illegible]

217

☉ Dec. 27 274 21 56.6 3667.1

Date Tues Dec 27-28/55 Observer Ad-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 50.1	46 36	I-25	E10320	016	-7.5 -5.0	18 04	19 14
	HD 5340	00 50.2	46 21	"	"	016	-6.0	19 20	20 10
	HD 16604	02 34.6	47 08	"	"	016	-7.0	20 32	21 02
	HD 16883	02 36.9	46 32	"	"	016	-7.0	21 07	21 47
{ 22888	AD 154528	17 00.9	77 48	"	E10320	008	-7.0	23 02	23 52
	"	"	"	"	"	"		23 54	00 44
	"	"	"	"	"	"		00 45	01 45

m Temp. +16 F

in 15.350

Temp.

3667. E

Transparency Conditions

218

Ending Triangle E.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 14 20 ^m	46 54	0	^{10.6} 8.0	^{G6} A0	2-2-2	Set 2 KA 6x6 star seems ft.	weak
20 1 12 ^m	46 39	0	7.8	A0	2-2-2	" 8 " 6x6 this star much brighter	strong
21 0 29 ^m	47 23	1	7.7	A0	2-2-2	" 2 KA 6x6	fine
21 4 6 11 ^m	46 48	1	7.9	H0	2-2-2	" 8 KA 6x6	fine
23 5 58 ^m	77 84	1	6.7	A0	4-4-4	" 2 N's Binary Tel. E. Couldn't get it at 2230 as requested.	fine
00 4 13E	"	1	"	"	4-4-4	" 5 1/2	
0 4 27E	"	1	"	"	4-4-4	" 9 clouds at 1.05 some breakers, which at 1.45 closed 4 P.H.s loaded. +16	

	MC	SC	MTW	STW	S	SW	ME
Jan. 3	+0.2 ^s	-0.2 ^s	-17.3 ^s	-.6 ^m	-0.5 ^s	-28.5 ^s	-7.0 ^s
6	+3.3 ^s	-6.3 ^s	-9.9 ^s	-.3 ^m	+8.3 ^s	+3.1 ^s	-1.9 ^s

Date Sat./Sun Jan 7/8, 1956 Observer Wm - Box Julian Day 2435480.

① 286 35 38.4 3669.8

[illegible]

a Temp. +15°F

u 15.360

a Temp. +8°F

Transparency Conditions very good

220

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

Ending Time E.S.T. 2.1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^h 0 W	+64° 36'	0-00	8.3	K5	4 ^s -4 ^s -4 ^s	Set 5 vis. viz. strong wind { cannot grating difficult { dirty but clear	weak
00 ^h 0 W	+43° 10'	00	8.3	Gop	4-4-4	Set 5 Bidelman's star	good
					15/10	91	OK
						Dome moved by gusty wind	
						Had to close up	
						2HP + 2	
						MC SC MTW STW S SW ME	
						Jan. 13 +12.2 ^s -2.4 ^s +20.2 ^s +.2 ^m -0.5 ^s -31.9 ^s -8.0 ^s	

Temp.

222

Temperature control variable
(Adjustment and contacts checked several times)

Reading Time EST. 201	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 ^h 4 ^m 10 ^s W	+47° 34'	variable 00 to 1	5.2	K+B	4 ^s -4 ^s -4 ^s	Set 2 Strong wind makes guiding extremely difficult. At least 20% loss of exposure time. Dome can be turned only during short intervals of less wind.	fine
21 ^h 00 ^m 0 ^s W	+16 38"	0	7.9	A0	4 ^s -4 ^s -4 ^s	Set 2 K.A. Buzzaon	fine
22 23 24	+17 8	00	7.6	A0	8-2-2	Set 8 K.A. Buzzaon } 5 star motion tails. provided repaired by blocking the clutch.	fine
01 00 00 W	+12 22	00*)	7.9	A3	2-2-2	Set 2 KA "	weak
					8/6	*) From EST 11 ^h 45 seeing variable, sometimes extremely bad	etc. used.
					Set 2	3 P.H. + ? Hen. M.	
						Too Windy !!	
						Programme is needed from 8 ^h - 16 ^h .	

223

Jan. 14 ☉ 292 42 35.6 3668.6
 15 ☉ 293 43 44.2 3668.0

Date Sat Jan 14-15/1956 Observer L-BK Julian Day 2435487

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22895	32 Cyg.	20 12.4	47 24	125	E-10340	Set 008	-5.5	17 58	18 38
22896	HD 15747	02 26.7	12 14	"	"	"	-5.5	18 48	20 28
22897	" 20579	03 13.6	27 11	"	"	"	-5.5	20 32	22 12
22898	" 385833	05 22.4	16 23	"	"	"	-5.5	22 26	00 06
22899	" 42233	06 04.5	+15 56	"	"	"	-5.5	00 17	02 47
22900	66 Aur	07 17.2	+40 52	"	"	"	"	03 04	03 34
22901	5 Hya	08 50.1	+6 20	"	"	"	"	03 42	03 48
22902	BCVn	12 29.0	+41 54	"	"	"	"	03 56	04 00
	"	"	"	"	"	"	"	04 00	04 00
	Focus lost								

at Temp. $+18^{\circ}\text{F}$

224

There is not anything else I could take.
L.H.

225

Jan. 15 293 43 44 2 3668.0
 16 294 44 52 2 3667.1

Date Jan 15/16, 1956 Observer Hw - Hr 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 ^m 4	+47° 24'	I-25	103A-0	.008	-2.0	17 ^h 45 ^m	18 ^h 25
	" "	" "	" "	"	"	"	-2.3	18 ^h 26	18 ^h 40
22904	HD 23690	03 42.0	+46 30	"	"	.016	-2.1	20 28	21 ^h 18 ^m
22905	HD 25922	04 01.7	+12 16	"	"	.016	-2.2	21 25	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
	Focus Test:		0.9.13:						

226

Shutler motor did not work, opened drive by hand.

	MC	SC	MTW	STW	S _s	SW	ME
Jan. 17	+16 ^s .0	-6 ^s .4	+37 ^s .9	+5 ^m	+2 ^s .7	+4 ^s .7	+1 ^s .8

227

Jan. 17 293 45 59.6 3666.7
 18 296 47 06.3 3665.9

Date Thurs Jan 17-18/55 Observer HD-L Julian Day 2435.490

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	I-25	E103.00	008	-7.0	18 03	18 35
22910	HD 5071	00 47.5	60 08	"	"	016	-7.0	18 55	19 55
22911	HD 18337	02 51.7	59 11	"	"	016	-7.0	19 59	20 59
22912	HD 27029	04 11.2	15 38	"	"	016	-7.0	21 07	21 59
22913	HD 55813	05 32.3	12 50	"	"	016	-7.0	22 05	23 05
22914	MWC 164 HD 52721	6 57.2	-11 09	"	"	008	-7.0	23 13	23 45
22915	MWC 170 HD 65875	7 55.8	-2 36	"	"	008	-7.0	23 52	00 22
22916	MWC 139 HD 44637	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 ⁴⁵
								02 22 ⁰⁰	02 23 ⁴⁵
								02 25	02 27 ⁴⁵
22918	40 Leo	10 14.3	19 59	"	"	"	-7.0	02 36 ⁰⁰	02 36 ⁴⁵
								02 43 ⁰⁰	02 48 ²⁵
								02 49 ⁰⁰	03 00 ⁰⁰

next page

366.7

366.9

30.

Temp. 20 F

Temp. 15-35.7

Temp. +90 F

Transparency Conditions

228

Ending Time L.S.T. G1	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:55	47 35	0	5.2	K+B	4-4-4	Set 2	Very windy	good
9:55	23E	60 28	0	7.87	A2	2-2-2	" 2 KA 6x6	fine
10:55	131	59 25	0	7.85	A0	2-2-2	" 8	fine
11:55	114	+16 05	0-0	7.62	G5	2-2-2	" 2	weak
12:55	108	12 53	0	7.7	A0	2-2-2	" 8	only bright star in field
13:55	016	-11 15	0	6.6	B3e	4-4-4	" 2 Be prog	weak
14:00	08E	-02 48	0	6.4	B2e	4-4-4	" 8	fine
14:02	23W	15 08	0	7.7	B3e	4-4-4	" 2	weak
14:02				3.58	A0 Ib		" 1 MK Standards	
14:02						12	" 5	fine
14:02	BE						" 9	
14:02				4.97	F6 IV		" 1	
14:02						12	" 5	fine
14:03	2W						" 9	

229.

Date Jan 17-18 cont.

Observer

Julian Day 2435490.

O 296 47 06.3 3665.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22919	8 Leo	11.08.8.	21 04	I-25	E-103AD	Set 008		03 05 ⁴⁵	03 06 ⁰⁰
								03 07 ⁰⁰	03 07 ³⁰
								03 09 ⁰⁰	03 10 ⁰⁰
22920	0 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	B 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	8 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				O T B				

mTemp.....

Transparency Conditions

230

mTemp.....

mTemp.....

Ending Star angle
R.S.T. Hsl

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

03 01

0

2.58

A4V

Set 1 MK standards

03 02

12

" 5

fine

03 10

33E

" 9

03 13

0

3.4

A2V

" 1

"

"

03 12

12

" 5

fine

03 16

11E

" 9

03 17

0

2.23

A3V

" 1

"

"

03 18

12

" 5

fine

03 19

38E

" 9

03 20

0

2.9

F0V

" 1

"

"

03 21

12

" 5

good.

04 01

38E

" 9

15/10

ct. and
abs. mag

3 PHs loaded + 4

14 on M

Too windy to work at +60°

231

Date Wed-Thurs Jan 18/19, 1958 Observer Por - H. v. Julian Day 24354.91

☉ 297 48 12.2 3665.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22923	MWC 114 HD 37115	05 31.0	-5 41	I-25	E103-ano	set 008	-6.8	19 12	21 22
22924	MWC 174 HD 57386	07 15.9	-8 15	"	"	"	"	21 41	00 01
22925	MWC 107 HD 24921	05 15.8	+37 35	"	"	"	-6.7	00 12	01 42
22926	" 65583	07 54.3	+29 31	"	"	"	-7.0	01 54	03 44
	Focus 7 in		O.9 B.						

n Temp. $+18^{\circ}\text{F}$

n 15360

n Temp.

Transparency Conditions *Some cloudiness earlier*

232

Ending Triangle EST. E1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
L 2 30 E	-5 41	0	8.2	BSne	4-4-4	alt 2 Be foggy becoming cloudy again	fine
000 1 W	-8 22	0	8.1	BSne	4-4-4	8 "	fine
01-256 W	+37 38	0	7.4	BSne	4-4-4	2 "	fine
034 9 W	+29 20	0	7.9	G7	4-4-4	" 8 Std. Vel. 0245 Haze.	good
					15/10	" 5 0330 Haze & Cloud. <i>under weak.</i>	OK
						1 P.H. +4	
						Hon. M.	
						MC SC MTW STW S SW ME	
						Jan. 20 -5.5 -9.5 -6.5 +.2 ^m +3.5 -27.0 -6.9	

0 Jan. 20	298	49	17.3	3664.2
	299	50	21.5	3663.2

Julian Day 2435493.

[illegible]

3663.2

3663.2 Temp. 21° F

15.445

m Temp.....

Transparency Conditions Good

234

[illegible]

0 Jan. 23	301	52	27.0	3661.2
24	302	53	28.2	3660.2

Date *Mon-Tues Jan 23-24 1956* Observer *AK-Hr* Julian Day *2435496*

[illegible]

3660 : m Temp. $+17^{\circ}F$

15.372

m Temp.

Transparency Conditions

236

Ending Hour Angle L.S.T. - E.T.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:15 ^m 5 W	+29° 03'	1	5.47	G8 III 6-6	Set 2	Obs suff 2	from
19:10 5 W	+50 52	1±	6.41	K0 III 4-4.4	" 8	" Dec G & S 7 use clear; some clds Set in next star but clds came over; cloudy till 10 PM Then snowing from clear sky. Clds abt. midnight again.	from
						0145 Still Cloudy	
						2 P.H. + 12'	
						Horn. M.	
						MC SC MTW STW S SW ME	
Jan. 24						-13.6 +12.1 +1.1 ^m +4.5 +5.5 +0.9	

☉ Jan 24 302 53 28.2 3660
 303 54 28.4 3657

Julian Day 2435497.

[illegible]

282 3a

284 3a Temp. $+20^{\circ}\text{F}$

u. 15.372

7. nTemp. $+14^{\circ}\text{F}$ Transparency Conditions Good

238

Ending Far angle E.S.T. H1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15 06E	-13 11	0	5.5	B3ne	4-4-4	net 21 Be pugn. " "	fine
15 35E	30 28	0	7.5	A0ap	4-4-4	8 "	fine
15 52E	-0 15	0	8.3	B5ne	4-4-4	2 " cloudy, snow at midnight	fine
					15/10	8	cloud slightly
						4 PH +8	

239

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

0304 55 27.6 3658.3

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-103a0	Lat. .008		03 43 ¹⁰	03 43 ⁵⁵
								03 46 ⁰⁰	03 47 ³
							-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 38 ⁰	"	"	"		04 50 ⁰⁰	04 51 ¹
								04 51 ³⁰	04 53 ³⁰
							-7.8	04 55	04 59
22938	α Dra.	14 01.7	64 51	"	"	"		05 21 ¹	05 21 ⁴⁵
								05 23 ¹⁵	05 24 ⁴⁵
							-7.8	05 26	05 29
22939	δ Boo	14 28.1	38 45	"	"	"		05 48 ⁰⁰	05 48 ⁰
								05 49 ²⁰	05 50 ⁰
							-7.9	05 51 ⁰⁰	05 52 ²

Temp. +10.5

cl. 15.350

Temp.

Transparency Conditions *Clearing after Midnight*

240

92
83

Ending Time LST. Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0343			2.9	F ₀ V		Set 1. 45° -	
0347		00			12	" 5. 90°	<i>good.</i>
0351	18E -01 14					" 9 180°	
0421			4.89	F ₂ V		" 1 2.5 ^m	
0431					6-6	" 5 5 ^m	<i>fine</i>
0441	18E +5635					" 9 10 ^m	
0451		00	4.02	A ₅ V		" 1 1 ^m	
0455					12	" 5 2 ^m	<i>fine</i>
0459	23E 5510					" 9 4 ^m	
0521			3.64	A ₀ III		" 1 45°	
0524					12	" 5 90°	<i>fine</i>
0528	33E 64 33	0				" 9 180°	
0531			3.00	A ₇ III		" 1 20°	
0535					12	" 5 40°	<i>fine</i>
0551	36E +3828					" 9 80°	

[OVER]

Date Jan 25/26 Cont'd. Observer - H. V. Julian Day 2435498.
 304 55 27.6 3658.8

[illegible]

242

496
88

Ending Time E.S.T.	Angle d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0611			00	3.76	AoV		Set. 11 45°	
0614						12	5 90°	
0624	E + 0203						9 180°	fine
							2 P.H. + 4 Horn. M.	

Date Thurs Jan 26-27/1986 Observer L Julian Day 24354.99
 365.8
 3568.8

[illegible]

Temp. $+18^{\circ}\text{F}$
 15.346

Transparency Conditions

244

Temp.

Angle L.S.T. d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 4 58 E	40 42	0	6.1	B4ne	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 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 HD 45314	6 21.6	+14 57	I-25	E10302	008	-5.0	23 32	00 15
{ 22943	MWE 146 HD 45995	6 25.6	+11 19	"	"	"	-4.3	00 14	00 32
22944	H.D. 36484	05 26.9	+32 44	"	"	"	-4.4	00 40	01 30
22945	L U Ma	08 52.4	48 26	"	"	"		01 42 ⁰⁰	01 42 ²⁵
								01 43 ⁰⁰	01 45 ⁵
							-4.3	01 45 ⁰⁰	01 47 ⁴
22946	U U Ma	09 43.9	59 31	"	"	"		02 17	02 1
								02 19	02 2
							-4.2	02 21	02 2
22947	ρ Leo	10 27.5	+09 49	"	"	"		03 02 ⁰⁵	03 05 ²
								03 04	03 0
							-4.2	03 06 ¹⁰	03 0 ⁵
22948	B 3138	11 55.7	-19 06	"	"	"	-4.2	03 28	03 4
22949	Σ 1669 B	12 36.1	-12 28	"	"	"	-4.2	03 55	04 4
22150	B 3323	12 40.6	+02 13	"	"	"	-4.7	04 52	05 0
	5 min		+ 0 35						

Temp.

Transparency Conditions

246

15.377

clearing after 2200

Temp.

500

5

Ending Angle E.S.T. d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10 51 55	+14 54	0	7.1	B ₂₂	4-4-4	Set 2 Be prog.	fine
4 00 33 11 W	+11 16	0	5.8	B ₂₂	4-4	" 8 "	fine
01 32 08 W	+32 45	0	6.50	A ₀	4-4-4	" 2 Bin.	fine
01 42		0	3-12	A ₇ V		" 1 25 ^s MK Std.	fine
01 42					12	" 5 50 ^s	fine
01 59 W	4 8 12					" 9 100 ^s	
02 2		0	3.89	F ₂ IV		" 1 1 ^m " "	
02 2					12	" 5 2 ^m	fine
02 2 45 W						" 9 4 ^m	
02 2	+09 31	0-1	3.5	B ₁ Ib		" 1 40 ^s " "	
03 2					12	5 80 ^s	fine
03 2 17 W						9 2 ^m 40 ^s	
03 2 33 E	-19 25	0	5.1	B ₃	4-4-4	" 2 Ecl Bin.	fine
03 2 47 W	-12 47	0	6.4	F ₂	4-4-4	" 8 " " North Prec.	fine
03 2 50 W	+07 55	0	5.4	A ₅	6-6	" 1 " " Haze & Thin Cloud	fine
					15/10	" 8 " " 1 P.H. +4 H m M.	on

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

[illegible]

Temp.

248

Wed Feb. 1, 1956

Changed to $12\frac{1}{2}$ " camera

25" was *Goats* 15.377
Silt 23.15

12 $\frac{1}{2}$ " is *Clay* 12.926
Silt 20.35

[illegible]

Date Fr/Sat, Feb 2/4, 1956 Observer Wm Julian Day 2435507.
 @ 314 03 42.0 3650.9

[illegible]

3650.9

250

[illegible]

Date Fr/Sat, Feb 10/11, 1952 Observer Wn - Hr Julian Day 2435514.
0 321 09 17.3 3643.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22 954	BD +49° 975	3 ^h 29. ^m 8	+49° 24	I-12	1036-0	.016	+30.1	18 ^h 36 ^m	20 ^h 46 ^m
22 955	BD +49° 991	3 33.7	+49 11	"	"	.016	+30.1	21 ^h 35	23 ^h 35
22 956	HD 82069	9 24.6	+30 00	"	"	.016	+3.2	23 ^h 50	03 00
	<i>F. Louis</i>	<i>7.2</i>	<i>6.7</i>	<i>13.</i>					

Temp.

Transparency Conditions *light house*

clouds near north horizon

20⁴⁵ clouds scattered over the whole sky

252

[illegible]

Date 1956 Feb 20/21 Mon-Lues Observer MR-Hv Julian Day 2435524.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22957	B ^D +48° 907	03 ^h 18. ^m 0	+48° 55'	I-12½	103a-O	.016 set	-0.6C	18 : 46	19 : 36
22958 [	47 835	3 22.1	+47 59	"	Ht-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-O	.008 set	-	22 : 09	22 : 31
22963 [	46056	6 26.0	+04 54	"	"	"	-1.1	22 : 39	23 : 59
						.016			

1. 12,927

24.

Temp.....

3626A

Transparency Conditions *very good, int acc. dds from W*

254

Ending Triangle E.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:30 76 W	+49° 06'	0	8.2	A:	1-1-1	Set 2; ✓ Per #639	some clds
20:20 87 W	+48 08	0	7.2	B9	2-2-2	Set 2; " 831	" "
20:46 0 W	+47 43	0	6.6	B9	2-2-2	Set 8; " 955	" "
21:18 19 W	+48 35	0	6.5	B9	2-4	Set 2; " 965	" "
22:00 7 W	+47 34	0	7.1	A0	2-2-2	Set 8; " 775	" "
22:31 1 W	+85 21	0	6.6	09.5 III	2-2-0	Set 2; OBp.26,	" "
23:15 3 W	+4 53	0	7.7	08	2-2-2	Set 8; OBp.28	" "
						0025 - snow	" "
						Ham. M. 1 P.H. + 12	" "
						0200 Snow & Clouds	" "

Thurs

Date, Feb 23-24/56

Observer

Wm

7/22 - H

Julian Day..2435527.

⑥ 334 16 33.0 3620.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22964	BD ^{-1°} 723	3 15.3	+51 18	Z-12	E103+0	.016	-4.5	19 03	20 ^h 10 ^m
22965	BD+47° 819	3 18.4	+47 38	"	"	.016	-4.2	20 13	21 ^h 42 ^m
22966	BD+47° 805	3 14.9	+47 36	"	"	.176	-4.0	21 50	22 46
22967	BD +29° 1957	9 24.6	+29 33	"	"	.016	-4.0	23 00	02 06
22968	" +30° 2175	11 29.8	29 59	"	"	"	-4.1	02 11	04 47
<i>Fours Per. t.</i>		<i>O. T. B.</i>							

a Temp. + 28° F

12.927

Temp.....

Transparency Conditions

256

L. please check

Ending Time E.S.T. 21	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 15 ^m W	+51° 31'	1-0	9.0	A3	2-1'	Get 2. 2 Per. # 522	fine
21 ^h 14 ^m W	+47° 49'	0	9.2	A5	1-1-1	" 8 α Per # 658	fine
22 ^h 52 ^m	+47° 46'	0	8.3	A0	1-1-1	" 2 α Per # 507	fine
02 ^h 3 ^m W	+29 19	0	9.89	F5	1-1-1	" 2 KAFS mag. Hms 569	fine
04 ^h 3 ^m W	29 40	0	9.78	G5	1-1-1	" 8 " 0400 Haze + Cloud.	fine
					4/3	" 5	OK
						2 P.H. +8	
						Hon. M.	
						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	

Date Wed-Thurs Feb 29-Mar 1, 1956 Observer O-H Julian Day 2435533

① 340 18 12.7 3610.9

[illegible]

Temp. +12°F

Transparency Conditions

Clear

258

Ending Time L.S.T. M31	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 46	9W	+47 59	0	8.8	F7	2-2-2	5.1 2 α Per #1225	fine
21 47	9W	+48 04	0	8.4	A3	1-1-1	" 8 α Per #694	fine
22 2	2W	+50 50	0	7.0	B9	2-2-2	" 5 α Per #441	fine
23 2	2W	+4 52	0	7.7	O8	2-2-2	" 5 OB p 28	good
01 4	7W	+44 25	0	9.72	G8	1-1-1	" 2 KAFS #1100 301	fine
05 1	7W	44 19	0	9.65 10.1	F7	1-1-1	" 8 " " 322	fine
06 03	16E	47 34	0	5.2	K+B	2-2-2	" 5 0400 A little hazy	strong
						8/6	" 9 0510 Thin Cloud.	etc red
							2 P.H. + 4	
							H on M.	
Thurs - Fri Mar 1-2. Partly clear at first, but secondary frosted.								
							MC SC MTW STW S SW ME	16d
							Mar 2 -2.7 -0.6 -22.0 +1.3m +17.4 -7.6 -0.6	

Date Fri/Sat, March 2/3, 1952 Observer Wm Julian Day 152

[illegible]

Temp.....

is.....

Temp.....

Transparency Conditions.....

260

clearing late ~22^h EST
sky hazy

Ending Time EST. 52	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Shutter does not move. Voltage, fuses and fiddlers checked. Instrument closed 22 ^h 20	
						Found blown fuse & fixed it. Hr.	
						MC SC MTW STW S SW ME	
						Mar. 5 -0. ^s 9 -2. ^s 3 -8. ^s 1 +.8 ^m +17. ^s 8 -36. ^s 0 -5. ^s 0	

Date *Mon Tues Mar 5-6/1956* Observer *MR* } - Julian Day *2435538*
 © 345 18 51.9 3603.0

[illegible]

air Temp. +34°F

DE 12.924

air Temp. +33°F

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

262

38.

603.0

Ending Air Angle E.S.T. Time	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality				
22 14 4 E	+44° 54'	0	7.50	A8	1-1-0	KAFS 29-304 St 2	fine				
5 06 E	+44 36	0	8.52	G3	1-1-1	" 29-306 " 8	weak				
					4-3	" 10 1/2	OK.				
1 PH. loaded H on M.											
					MC	SC	M.T.W	STW	S	SW	ME
Mar. 9	+0.2	-3.6	+6.4	+7m	+18.4	+1.5	-3.8				
12	+3.3	-4.2	+21.7	-0m	+19.8	-28.4	+0.8				

Temp. $+23^{\circ}\text{F}$

12 926

Temp. $+17^{\circ}\text{F}$ Transparency Conditions *Cloudy, clearing later.* 264

Ending Time EST. 51	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
025	25W	+45 16	0	9.95	F9	1-1-1	Ed 2. KAPS #310 <u>6030</u> Cloud + Haze	pin
051	33W	+45 22	0	9.28	F3	1-1-1	" 8 " 34.7	pin
						4/3	" 5	
							How. M.	
							4 P.H. loaded.	
							MC SC MTW STW S SW ME	
							Mark $+5.6^s$ -5.8^s -17.3^s $+4^m$ $+222^s$ $+7.7^s$ -1.5^s	

Date Sat. Mar. 17-18/52 Observer L. Fox Julian Day 2435550

Temp. +19°F

12.926

Temp. +14°F

Transparency Conditions

266

Clouds at sunset + some mechanical
delays slowed start.

Ending Angle E.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 0 46W	44 02	0	9.85	F9	2-2-	Set 2 K.A.F.S.	fin
01 2 2 N	44 24	0	9.12	F5	1-1-1	8 " Hins 327	fin
02 3 3 N	44 15	1	9.27	F6	1-1-1	2 " Hins 333	fin
05 0 4 N	44 34	1	9.90	F9	1-1-1	5 " 341 I am not quite satisfied about the field.	fin
					4/3	8	etc. red.
						2 Per.	

Temp. +21°F

12.926

Temp. 16°F

Transparency Conditions *excellent*

268

3577.2

Ending Angle E.S.T. 51	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01.3 33 W	+49°33'	1	(9.5)	A2	1-1-1	x Per 1183 set 2	weak
23 47 W	+29 04	1	10.02	G8	1-1-1	KAFS 53-573 set 8	fine
02 17.16 W	+29 39	0	9.78	G5	1-1-2	" 55-587 set 7?	good
05 15.10 W	28 54	0	9.76	K5	1-1-1	" " 2	fine
					4/3	" 10	et. red.
						Hon. M.	
						2 P.H. +10	

Date *Mon Tues March 19/20 1952* Observer *MR - Hr* Julian Day *2435552*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
[22988	BD 50° 728	03 ^h 09. ^m 4	+50° 58'	I-12½	103a-o	.006	-0.8 C	19:28	21:15
22989	BD 29° 1908	09. 25.2	+29 44	"	"	.016	-1.0	21:26	23:26
22990 {	BD 30° 2024	10 24.1	+30 01	"	"	"	-1.0	23:37	01:57
22991 {	H.D. 114071	13 03.0	29 59	"	"	"	-1.0	02 15	05 15
	Zams	Fest	O 7.13						

Temp. 19° F.

Transparency Conditions *excellent*

270

574.9

Rising Time E.S.T.	ngle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:15	34 W	+51° 16'	1	9.1	F2	2-2-2	x Pers 314 set 2 (max hr < west S:34)	fine
23:40	30 W	+29 27	1	9.93	G8	1- -1	KAFS 53- 50 ²⁹ set P	fine
01/5	02W	+29 43	O	9.66	F6	1- ·1	" 54-579 set 2 (N _y ddd.)	fine
05:	43W	29 42	O	10.08	F8	· ·	" " 8 North Following	fine
						4/3	" 5	ok red
 4 P.H. + 6? Hon. M.								
MC SC MTW STW S SW NE								
MAR. 20							+9.8 -7.2 +4.9 +.5 ^m +23.8 ^s +10-13.0 ^s	

271

Date Tue-Wed, Mar 20/21, 1956 Observer BK - L Julian Day 243555.3
 ☉ 0 16 19.9 3572.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
22992	BD +49° 938	03 21.0	+49 27	I-12½	E103-a-0	cell 016	+24	19 28	19 50
22993	BD +48° 934	03 23.2	+48 "	"	"	"	"	19 57	20 31
22994	BD +47° ⁸⁴⁴ 240	03 ^{23.6} 22.8	+47 ⁴⁷ 27	"	"	"	+2.2	20 35	20 51
22995	BD +49° 953	03 24.0	+49 23	"	"	"	+2.0	20 57	21 07
22996	BD +45° 1753	09 36.7	+45 30	"	"	"	+1.8	21 37	21 37
22997	BD +45° 1761	09 40.2	+44 50	"	"	"	+4.5	23 46	02 06
22998	HD 112297	12 50.6	44 50	"	"	"	+2.5	02 12	03 02
22999	" 131861	14 50.9	45 43	"	"	.008	+2.5	04 11	04 41
	Focus Test			OT13					

12.926

Transparency Conditions *good*

272

553.....

3572.5

Temp. Doesn't the head control surface need adjustment?
Head was on at the beginning of night

[illegible]

Date Thurs/Fri. 22/23 March 1956 Observer Wm Julian Day 243555.5
 ☉ 02 16 22.7 3568.0

[illegible]

n Temp. $+30^{\circ}$

u 12.926

n Temp.

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

274

Delay in start because shutter was stuck. Found shutter free before
since ~ 8^h 20^m EST strong aurora

Ending Angle E.S.T. 1961	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^h 7 ^m 10 ^s W	+51° 36'	0-1	7.7	A0	1-1-1	Set 2 $\leftarrow$ $\times$ Per clock Nr. 575	<i>fine</i>
22 ^h 10 ^m 9 ^s W	+31° 42'	1-0	7.7	A0	2-2	Set 8 { 44 sec. 10% of exposure time lost $\leftarrow$ because of failure of driving clock (planetary gear) $\leftarrow$ clouds interrupt the exposure, loss ~ 10 min	<i>the present</i>
						New trouble with driving mechanism	
						New clouds, dome closed 22 ^h 30 ^m	
						3 P.H. + 2 plates in box	

Date Sat Mar 24-25/56 Observer L - Pok Julian Day 2435557
 @ 25 11 16.1 35

© 04 14 16.4 3563.7

[illegible]

12.916

Temp. +12° F.

Transparency Conditions *Good*

276

Some light clouds and snow at sunset

Ending Time EST. M	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 07 37W	49 38	0	9.0	A8	1-1-1	Set 2 L Pers. Cluster 635	two weak
22 10 20W	44 37	0	8.52	G3	1-1-1	" 8 K.A.F.S.	fine
01 2 45W	45 08	0	9.99	G2	1-1-1	" 2 "	fine
05 50W	29 40	0	10.06	G8	1-1-1	" 5 "	fine
					4/3	8	no other spectrum
						3 PH +12	

Date Mon-Tue, 1956 Mar 26/27 Observer BK - Hr Julian Day 2435559

0 06 13 01.6 3559.6

[illegible]

US

neTemp.....

Transparency Conditions *good*

278

Had to open shutters partially by hand, the fuses keep blowing. Need more 15 + 25 A fuses!!

59. netemp.

3559.6

[illegible]

Date Tues - Mar 27-28/56 Observer Ad. Julian Day 2435560
 @ 07 12 21.2 3557.5

[illegible]

temp. 26

is

temp.

3557.5

Transparency Conditions

280

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

Ending Angle E.S. 1st	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 53 35	47 50	0	7.9	A0	1-1-1	set 2 & Per cluster # 874	fine
20 35 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.	

281

Date Sat/ March 31/ 1956 Observer Wm - BK Julian Day 2435564
Sund. April 1 1956 0 11 09 20.2 3550.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23 014	49° 918	3 ^h 17.1	+49° 59'	I-12	103A-0	.016	+1.5	19 ^h 40 ^m	20 ^h 38 ^m
23 015	HD 36043	5 ^h 23.8	+31 44	"	"	.008	+1.2	20 ^h 48 ^m	21 25
23 016	HD 83697	9 35.2	+44 39	"	"	.016	+2.0	21 ^h 40 ^m	24 00
23 017	BD +44° 1898	09 36.6	+44 18	"	"	"	+1.8	00 00	02 30
23 018	BD +60° 1598	15 14.2	+60 08	"	"	"	+1.8	02 50	04 51
23 019	g. l. yz	18 55.2	+32 33			.0082		05 07 50	05 14 3
								05 08 15	05 09 15
								05 10 30	05 12 30
	Focus star O.T.B.								

temp. +30°F

12.915

temp.

Transparency Conditions good, becoming little hazy later.

~22^h: above streamers strong

282

550.2

Ending Angle E.S. Time	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 30 ^m W	+50° 11'	0-1	9.1	F0	1 ^s -1 ^s -1 ^s	Set 2 1 α Per. disk No 609	weak
21 ^h 30 ^m W	+31 46	0	7.7	A0	2-2-2	Set 8 KA 6X6 (Thermometer not working properly during last 30 min)	weak
24 ^h 00 ^m W	+44 25	0	9.7	G8	2-1-1	Set 2 KAFS, thin 301	fine
24 ^h 07 ^m W	44 02	0	9.85	F9	1-1-1	8 " " 302	fine
24 ^h 08 ^m W	59 56	1	9.84	F5	1-1-1	2 " " 137	fine
24 ^h 15 ^m			8.18	B9 III		2 MK stand Check 40 178849; there are 2 vis. binaries field.	strong
24 ^h 15 ^m					6	5	
24 ^h 30 ^m E	32 37	1				8	
					8/6	8	corrected slightly
						244. 142 + 12	
						Sun Apr 1-2 Cloudy at sunset Then partly cleared. Opened at 2200 but clouds again 1/4.	

Date Thurs. April 5-6/56 Observer L-H Julian Day 2435569
 © 16 04 53.2 3541.2

[illegible]

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

12.415

Temp.

Transparency Conditions

284

Considerable cloud in early evening.

Ending R.S.T.	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 23	45W	44 24	0	9.12	F5	1-1-1	Set 2 K.A.F.S.	inade
						4/3	" 8	OK
							0120 Clouds at Midnite Then Clear " Cloudy again	
							1 P.H. Hon. M.	
							MC SC MTW STW S SW ME	
							Apr. 3 +17.5 -16.5 -45.0 +2.2m +28.5 -14.0 +0.4	
							6 +18.4 -17.0 -32.0 +.4m +31.0 +14.9 +4.3	

285

Date Sun. Mon. Apr 8/9, 1956 Observer Boe - H. V. Julian Day 243557.2

0 19 01 51.4 3535.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23021	HD 95866	10 58.6	+59.27	I-12½	E103-a-0	set 016	+6.2	21 29	23 59
23022	HD 97420	11 07.6	+59.41	"	"	"	"	23 34	01 34
23023	" 143585	15 56.2	30 23	"	"	"	6-3	01 50	04 50
	<i>Focus Test</i>			<i>O.B.</i>					

Temp. +38°F

Transparency Conditions Cloudy after sunset

286

Temp. +31°F

still some scattered cloud at evening

0025 Fireball through Leo going N.W.

Ending Angle R.S.T. E.1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 8 W	+59 07	0	9.86	G3	1-1-1	pet 2 KAFS, lines 117	fine
01 3 5 W	59 21	0	9.32	F6	1-1-1	8 " " 124	fine
04 5 15 W	30 13	0	10.08	G-8	1-1-1	" 2 " " 634	fine
					4/3	" 8	fine
3 P.H. + 12 Hon. M.							
Clocks Need Resetting							
						MC SC MTW STW S SW ME	
						April 9 +19.5 -17.6 -18.9 +7.7 +31.3 -14.8 +1.2	

287

Date Mon. June 1956 April 9/10 Observer MR - H Julian Day 2435573
 0 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 $\frac{1}{2}$	103c-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	21:0
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	BD +29° 2751	15 57.6	29 42	"	"	"	+4.5	02 14	04 50
	<i>Four</i>	<i>1st</i>	<i>39/13</i>						

3533.8

Transparency Conditions

Transparency Conditions *good; sl. haze in W & SW*

288

Ending for angle P.S.T. E.1	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20.3 54W	+4° 50'	0	7.7	08	2-2-2	set 2 DB p 28	good
20.1 28W	+23 30	0	6.7	B0 II	-	set 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 I 6	-	" 2 MK std, Exp 4 ^s	
-	"	0	"	"	6	" 5 8 ^s	too weak
23 95W	"	0	"	"	-	" 8 20 ^s	
02. 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 Hon. M.	

Date Tue - Wed Apr 10/11, 1956 Observer ^{BOK} Hid - L Julian Day 2435573
 © 20 59 40.8 35317

[illegible]

m Temp. 40

Transparency Conditions

290

Cloudy at first. then very good.

m Temp.

35317

Ending Triangle E&T Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6 W	48 12	1	3.30	A7 $\bar{U}$		set 2 5 sec MK Ad.	
					6	5 10 sec	fine
						8 20 sec	
			4.3	F2 $\bar{W}$		set 2 20 sec	
55 W	59 14				6	5 40	fine
						8 80	
50 W	16 59		3.6	A0 $\bar{I} b$		10	
					6	20	fine
	12 12					40	
			1.21	B7 $\bar{V}$		1/2 sec	
						1 sec	good
					6	3 sec	
						4 sec	
			3.82	F0 $\bar{II}$		10	
					6	20	fine
						40	
W	23 35	1					

Date... Apr 10/11, cont.

Observer.

Julian Day.....2435573

② 20 59 40.8 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-12½	E183a-D	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-12	E103a-D	008	10.2	22 41	01 30
	Focus Inst				O T/B				

Temp.

Transparency Conditions

292

573 Temp.

35317

Ending Triangle 1st Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	19 41	0	5.27	FG 10		set 2 1 min	
22 2					6	2	
22 3 13 W						2 min	
0133 29 W	36 15 *	1	8.98	M 21	2-2-2	MIK std. Set 5	
					8/6		
						* note dec (should be 36 22) but only * on field * very real.	good
						clouds and haze	OK
						poor at 1.30	
						4 PH 2 loaded	
						plates needed	

$\mu_s = 4.8$
 $\pi = 0.39$

fine

good

OK

293

Date Wed-Thurs April 11-12, 1956 Observer O - Julian Day 2436575

G 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.
23037	B Tan	5 20.0	+28 31	1-12	EK320	Set -008	+10.0	19 35	19 35
	"							19 37	19 37
	"							19 38	19 38
	"							19 40	19 40
23038	P Tan ^{Aur}	5 14.7	+41 43	"	"	"		19 49	19 50
	"							50	51
	"							53	56
23039	119 Tan	5 26.3	+18 31	"	"	"		20 04	20 06
	"	"						06	10
	"							10	18
23040	HD 43836	6 13.3	+23 19	"	"	"	+10.2	20 31	20 41
	"							20 41	21 01
23041	HD 43818	6 13.2	+23 30	"	"	"		21 04	21 14
	"	"	"				+10.0	21 14	21 34
23042	B Gem	6 46.2	+34 05	"	"			21 41	21 4
	"							43	44
	"							44	4

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

Transparency Conditions

Clear

294

Temp.

Ending Time EST. Ind	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 35			0	1.51	B7 III		Set 1 MK. 3 ^s	
19 35				"			4 6 ^s	fine
19 35				"		6 ^s	7 12 ^s	
19 40 W		+28 35		"			10 24 ^s	
19 50			1	5.0	B5 V		Set 2 MK. 40 ^s	
19 50						6 ^s	5 80 ^s 1 ^m 20	fine
19 50 W		+41 47					8 160 ^s 2 ^m 40 ^s	
20 00			1+	6.05	M2 Ib		2 MK. 2 ^m	good
20 00				"		6 ^s	5 4 ^m	
20 00		+18 34		"			8 8 ^m	
20 00			1+	7.0	B9 II		" 2 MK.	fine
21 00		+23 18				3-	5	
21 00				6.7	B0 II		" 2 MK	fine
21 00		+23 30		"	"	3-3	" 6	
21 00				3.69	A3 III		" 2 MK 15 ^s	
21 00						6 ^s	5 30 ^s 1 ^m	fine

Date... Apr 11/12, cont.

Observer

POK

Julian Day...2435575

© 21 58 32.5 3529.6

[illegible]

Transparency Conditions

296

on Temp.....

on Temp.....

on Temp.....

29.6

Ending Time EST. Ed	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	4 2 W		1				Set 10	
22				4.8	B I V		Set 1 1/2	
22						6	4 1	
22		- 0 35					7 2	fair
22	45 W						10 4	
22				1.21	B 7 V		Set 1 2"	fair
22						6	4 4"	
22						6	7 8"	
22	2 W	12 12	1				10 16"	
22				3.6	B I Ib		Set 1 15	fair
22						6	4 30	
22						6	7 60"	
22	57 W	9 33					10 2 ^m	
22				2.74	A Y V		1 7"	not fair
22						6	4 15"	strong
22						6	7 30"	
22	6 W	20 46					10 1 ^m	

297

Date Apr 11/12, cont

Observer

P8K

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.
23047	θ Leo	11 09.0	+15 59	[12 1/2	E103-1-D	.008		22 38	22 38
								22 39	22 39
								22 39	22 40
								22 41.	22 42
23048	β Leo	11 44.0	+15 08				10.2	22 48	22 48
								22 48	22 48
								22 49	22 49
								22 50	22 51
23049	γ Vir (A)	12 36.6	-0 54					22 59	22 59
								22 59	22 59
								22 59	22 59
								23 01	23 02
23050	γ Vir (B)							23 05	23 05
								23 05	23 05
								23 06	23 06
								23 07	23 08

Temp.....

Transparency Conditions

Temp.....

575

5296

Ending Time E.S.T. and	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 35			1	3.36	A2 $\bar{V}$		ref 1 10 sec	
21 38							4 20	strong
22 40						6	7 40	
22 42	33 W	15 40					10 80	
22 44		14 10		2.21	A3 $\bar{V}$		ref 1 5 ^s	
22 45							4 10	all strong
22 48						6	7 20	
22 50	007 W						10 40 ^s	
22 51				3.10	FO $\bar{V}$		ref 1 5 ^s double star, worker	
22 52							4 10	fine
22 53						6	7 20	
22 54	1 E	-1 12					10 40 ^s	
23 00							ref 1 5 ^s double	
23 01							4 10	fine
23 02						6	7 20	
23 03	45		1				10 40 ^s	

Date Apr 11/12, cont.

Observer... ^{PK} 0 —

Julian Day... 2435575.

② 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 56.4	+56 54	I-12½	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 21.2	+55 37 ⁰	"	"	"	"	23 32	23 32
								23 32	23 35
								23 33	23 34
								23 35	23 37
23 053	α Dra	14 01.7	+64 51					23 42	23 42
								23 44	23 44
								23 45	23 46
								23 46	23 47
23 054	γ Boo	14 25.1	+38 45					23 57	23 57
								23 56	23 56
								23 57	23 57
								23 58	23 59

or Temp.

Transparency Conditions

300

or Temp.

75, or Temp.

529.6

Ending Time R.S.T. Ed	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 18		56 35	2	5.30	F2 V		set 2 1m	
23 21						6	5 2	fine
23 24	30E						8 4m	
23 27							10 1/2 m	
23 30		55 12	2	4.17	A5 V		1 15"	weakest fine
23 33							4 30"	
23 36						6	7 60"	strong
23 39	3E						10 2m	
23 42		64 35		3.59	A6 III		set 1 10"	
23 45							4 20"	v. strong
23 48						6	7 40	
23 51	2E						10 80"	
23 54		38 29		3.22	A7 III		set 1 5"	weakest fine
23 57							4 10	strong
23 60							7 20	
23 63	5						10 40	

Date..... Apr 11/12, cont

Observer

Box

$$0 - H \checkmark$$

..Julian Day...2435575.

⑤ 21 58 32.5 3529.6

[illegible]

Transparency Conditions a little haze before dawn.

cu.....

Temp. 40.0°F

529.6

Ending Triangle EST Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	+2 05	2	3.74	A0 $\bar{V}$		set 1 15"	
01						4 30	fine
02					6	7 60	
03	32 E					10 2"	
005	4 E	52 46	1-2	7.2	A0	2-2-2 " 2 Wn Ecl. Bin.	extremely fine
033	33 N	28 57	0-1-2	9.76	K5	1-1-1 " 2 KAFS.	fine
045	50 W	29 20	0-1-3	9.42	F6	1-1-1 " 9 "	fine
					4/3	" 5 "	
						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 Apr 13/14, 1956

Observer

BOK

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-12½	E103-n-0	net -008	+5.5	20 26	
								20 26	
								20 27	
								20 28	
23060	HD 48434	06 38.3	+ 4 02	"	"	"	"	20 36	20 38
								20 39	20 43
								20 45	20 53
23061	δ Leo	11 08.8	+21 04					21 02	
								21 03	
								21 04	
								21 06	
23062	β Leo	11 44.0	+15 08				5.9	21 15	
								21 16	
								21 16	
								21 18	
23063	HD 153345	16 52.9	+52 52	"	"	"		21 38	21 58

Temp. +35° F

12.915

Temp.

Transparency Conditions clearing after sunset

304

Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	16 25	2	1.95	A0 IV		1 1 ^s	
						4 2 ^s	fine
					6	7 4 ^s	
05 W						10 8 ^s	
	03 58	2	5.89	B0 III		2 2 ^{min}	
					6	5 4	guiding! fine
						8 8 ^{min}	
	20 47	1	0.74	A4 V		1 3 ^{sec}	
						4 6	fine
					6	7 12	
						10 24 ^{sec}	
	14 40	1	2.21	A3 V		1 1 ^{sec}	
						4 2	fine
						7 4	
						10 6	
	52 44	1	7.72	A0 3-3		2 8 ^{min} sec. triv.	strong-

e.emp.....

306

[illegible]

Thu. - Fri.

Date (Fri) April 19-20/58 Observer Ad - Hr Julian Day 2435583
029 48 08.2 3511.9

[illegible]

atemp. 33 F

Transparency Conditions

308

Cloudy after sunset.

atemp.

Ending Angle
E.S.T.

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

23 23 16

45-13

0

9.87

B8

2-22

Sat 2

KAFS.

01 3. 4 W

44 15

0

9.27

F6

1-1-1

" 8

"

0100 Cloud.

4/3

" 5

3 P.H. + 8

H on. M.

fine
extremely
OK

⌞ please clean visitors' eyepieces before Sat.

Temp.

Transparency Conditions Good

310

Ending In R.S.P.	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
2 4 0W	60 05	-1	9.56	F6	1-1-1	set 2	KAFS, timing	Dec slow motion	strong pin
00 2 2W	59 06	1	10.08	G5	1-1-1	8	" 122	needs fixing!!	
Intermittent cloud after midnite									
Solid deck at 0130									
2 P.H. + 8 Hon. M.									

Date Sat Apr 21-22, 1956 Observer Hol - BK Julian Day 24355.85
031 45 09.9 3507.7

[illegible]

.....

Temp. 32°

07.7

Transparency Conditions

312

about 100 visitors, showed 4, 10 with 7H
moon with 5" 4RASC showed
C, 4, 9

[illegible]

Date Mon Tue Apr 23/24 1956

Observer MR-Hv

..Julian Day...2435587

$$0.33 + 2 \cdot 0.3 = 3503.8$$
[illegible]

Moist Temp.....

Transparency Conditions

314

clearing at sunset
low haze in S

[illegible]

Date Truesdell Apr 24/25, 1956 Observer Wm - L Julian Day 2435558
034 40 27.1 3501.9

[illegible]

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 ¹⁵	25° W	+44° 35'	0	9.88	F7	1 ^s -1 ^s -1 ^s	Set 2 K.A.F.S. 29-308,	fine
23 ⁵⁵	5 E	+52° 45'	0	7.1	A0	2-2-2	Set 5 Wn Ecc. bin.	fine
01 ³⁶	37 W	45 03	0	9.17	G5	1-1-1	Set 8 I.K.A.F.S. prog.	fine
03 ⁰⁵	39 W	45 04	0	9.13	F0	1-1-1	" 2 " "	fine
04 ⁴⁵	32 W	29 21	0	9.42	F6	1-1-1	" 8 " "	fine
							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	γ 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	α 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 08	22 14
								22 15	22 17
								22 18	22 23
{ 23088	HD 12 2742	13 58.1	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 180316	19 11.0	+27 46	"	"	"		23 48	00 14
23091	" 15 3345	16 53.9	52.52	"	"	"	10.3	00 24	00 56

on: Temp. 42 F

on: 15.552

on: Temp.

Transparency Conditions

Apr 26 changed to I-25.

I 12 was from 12.915 tilt 20.32

(should be 20.35).

focus 15.552 Tilt 23.15

318

Ending Time E.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 16			2	5.7	M0 III	4-4-4	Set 1 MK std	at 21.30 about
21 21							" 4	brightest aureole
21 23							" 6	Dense now.
21 30	13 59	27 01				6-6	" 9	Corona just S
								of zenith with
								deep red colour
22 00			2	1.21	BTU	12	" 1	
22 02							" 4	
22 04							" 6	
22 06	1 41	12 12				12	" 9	
22 08		27 46		5.7	G0 III	6-6	" 1	This plate has 2 more on it.
22 10							" 4	23087 is right
22 12							" 6	23086 " wrong
22 14							" 9	
22 16	25 m					12	" 9	
23 00	1 57	11 59	2	6.8	G5	4-4-4	" 2	
23 02	1 43	11 26	1	6.8	G0	4-4-4	" 9	
00 00	1 6 E	27 52	1	6.64	B5	4-4-4	" 2	Sp bin. for N
00 02	1 6 E	52 45	1-2	7.2		4-4-4	" 2	W4 13 in 0040 Anv. Brilliant

weak

strong

fine

fine
good (1)
weak
Focus
bad

Date Apr 26/7/56 Observer - HS 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.
23092	δ Aqu.	<u>1960</u> 19 23.5	<u>1960</u> +03 02	I-25	E _{103a} -O	008		01 13	01 18
23093	"	"	"	"	"	"		01 27	01 34
23094	HD 178619 +16° 37' 58"	19 04.2	+16 42	"	"	"	10.1	02 00	02 38
23095	δ Aqu.	<u>1960</u> 19 23.5	<u>1960</u> +03 02	"	"	"		02 49	02 54
23096	"	"	"	"	"	"		03 00	03 05
<i>[Handwritten notes and corrections]</i>									
	δ Aquilae	1900: $\alpha = 19$ 20.5, $\delta = +02$ 55							

Sat. April 28 - cloudy.
66 visitors given lecture
and shown telescope.

Transparency Conditions

320

on Temp.....

xv.....

one Temp.....

8.4

Ending Time EST	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	12 E		1-2	3.69	F ₀ IV	12 each	Set 1, 5, 9. Ex. 30 ^s , 60 ^s , 120 ^s	Grinding bad. fine
01	3 6 E		"	"	"	12 each	" 1, 5, 9. " "	Grinding bad fine
02	3 5 E	+ 16 47	1	6.9	F ₅	4-4-4	" 2 Ecl. Bin. Prog. 0234 some thin clouds	fine
02	5 26 E		0-1	3.69	F ₀ IV	12 each	" 1, 5, 9, Ex 30 ^s , 60 ^s , 120 ^s	Grinding bad weak
03	0 5 E		0	"	"	"	" " " " " "	Grinding bad. fine
						15/10	" 8	OK
							1 P. H. No Plates	
							Ham. M.	
							Sky is a <u>Mess</u> !!	
							Mc Sc MTW STW S SW ME	
							Apr. 30 +26.8 -31.9 -44.3 -.4 ^m +41.8 +59 0	

Date Mon-Tue Apr 30/May 1, 1956 Observer MR — Julian Day 2435594

040 30 13.1 3492.0

[illegible]

at Temp.

ca 15.555

at Temp.

533
512
515 ✓

Transparency Conditions

322

92.0

Ending Time R.S.T. Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 3		0	1.95	A0 IV	12	set 1 5 th MK std. Set 11' on HD 43818 but it is too far west	
20 4						4 10	fine
20 5	16 25					6 20	
20 6 (25W)					12	9 40	
20 7		0	1.21	B7 V	12	1 1 "	
20 8						4 2	fine
20 9						6 4	
20 10	12 12				12	9 8	
20 11	5 22	0	5.6	B8		1 2nd base Prog	fine
20 12					4-4-4	5	
20 13 (35W)						9	
20 14	77 50	0	5.3	A5		1 "	
20 15					4-4-4	5	fine
20 16 (14W)						9	
20 17		0	5.2	A2		1 (5 th) " S-Fall of DBL. Probably very close.	fine
20 18 (3W)	+83 38				6-6	5 (10 th) 9 (4 th)	

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 42.3	+83 58	I-25	E103-a-0	1008	+8.0	22 39	22 49
								22 49	22 54
								22 55	23 15
23103	HD 153345	16 53.9	+52 52	"	"	"	+8.0	23 24	23 54
	Fraunhofer Test 0.7/13								

Temp.

Transparency Conditions

Temp.

Temp.

92.0

Ending Time E.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 4			0	5.8	A0		set Ecl. Bin N-luc & fainter & probably the correct star	fine
22 5		83 38				6-6 5		
23 8	14 W							
23 54	52 E	52 45	0	7.2	A0	4-4-4 15/10	set 2 Ecl. Bin in Wn " 8 Clds in Sat midlight 4 P.H. + 1 Horn. M. 0200 Cloudy since midnite	exp good. Faint exp. exposed on spectrum

325

Date Tue-Wed May 1/2, 1956Observer RKJulian 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 25.2	-0 07	I-25	E103-n-0	net .008	+12.2	20 53	20 54
								20 54	20 56
								20 57	21 01
								21 02	21 10
23105	HD 126053	14 18.1	+1 43	"	"	"		21 59	22 29
23106	q Vir	14 23.0	-1 47					22 14	22 24
23107	+10 153345	16 53.9	+52 52				11.0	22 42	23 22
23108	HD 150682 B 4247	16 37.6	+27 07	"	"	"	12.2	22 51	00 11

ore Temp.....

Transparency Conditions

[illegible]

327

Date Fri-Sat May 4-5, 1958Observer O - H vJulian 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-O	^{Set} 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	"	"	"	8.0	00 10	03 10
23116 ←	H.D. 153345	16 53.9	52 52	"	"	"	7.7	03 20	04 10
	61 154	154	09.3						

oil Temp.....

Cherry

328

486 3

[illegible]

329

Hg = James Hogg.

Date Mon - Tues May 2-8Observer MR J. - H. v
HgJulian 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 $\frac{1}{2}$	103a-0	^{set} .016		20:28	-
	"	"	"	"	"	"		-	-
	"	"	"	"	"	"		-	20:31
23118	BD +44° 1904	9 41.0	+44° 42'	"	"	"	+9.0°C	20 46	22.26
23119	80 UMa	13 21.2	+54° 31'	"	"	^{set}.008	+9.2	20 38	-
	"	"	"	"	"	"	"	-	-
	"	"	"	"	"	"	"	-	20:42
23119	BD +45° 2137	13 50.1	+45 13	"	"	^{set} .016	9.2°C	22 51	00 51
→ 23120	" +45° 2344	15 48.6	45 00	"	"	"	9.2	00 58	03 18
23121	H.D. 153345	16 53.9	52 52	"	"	008	9.0	03 30	03 50

→ From list 5213

ore Temp. +40°F

cs 12.915

ore Temp.

Transparency Conditions

330

May 7 Changed to 12 1/2" Camera

25" was Focus 15.545
Tilt 23.15

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. Int.	
-	"	"	"	"	"	3	5 15 ^s	fine
20.3	47W	"	"	"	"	3	8 30 ^s	
22.2	27W	+44 27	0	9.39	A5	1-1-1	set 2 KAFS 29-311	fine
24W	+55 14	0	4.17	A5V	-	set 3	exp 15^s (set 1 & set 5 have 15 ^s & 30 ^s with oil on lens by mistake)	
-	"	"	"	"	"	set 7	30^s	
25W	"	"	"	"	"	set 9 1/2	60^s no plate in plateholder !!	
00	5W	+45 55	0	9.57	F6	1-1-1	set 8 KAFS 33-344 MC SC MTW STW S SW ME	fine
03	4W	44 49	0	9.67	F3	1-1-1	set 2 KAFS May 7 +29.4 +1.3 +5.0 +.2m +45.2 +18.4 +4.3	fine
03.5	2W	52 44	0	7.2	A0	2-2-2	Set 8 Galois stand on 2	strong
						8/6	Sat May 5 225± visitors - MR/Bk sky covered with thin clods. Showed Jupiter. 3 RASC telescopes	OK
							L: Fuse for shutter opening with under plate from broken on Sat & again Mon, how it has 2 15-amp units in it.	

IPH. Photos Needed.
H.M.

331

Date Tues May 8-9/56 Observer L-KR - Mo Julian Day 243560.2
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-12½	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	+45 15	"	"	"		01 47	01 49
23124	{ HD 142592	15 50.3	+45 15	"	"	"	+9.9	01 53	03 25
23125	{ HD 157297	17 17.3	+11 47	"	"	0.008	+9.5	03 39	04 01
	Focus Test	O.T.B.		"	"	"	+9.5		

ore Temp... + 34° F

Transparency Conditions Excellent.

332

[illegible]

o Temp.....

Transparency Conditions

Sat May 12

Rain. about 25 visitors. gave
lecture on Sun + rhomed telescope.
Hd - Lo - Bk.

334

[illegible]

Date Wed/Thurs, May 18/19 ^{16/17th} 1956 Observer Wm - H Julian Day 2435610
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 1/2	103A-O	.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 32
23133	HD 143585	15 56.2	30 23	"	"	.016	6.3	00 51	03 41
	Focus	Test	O.T.B						

on: Temp. $+36^{\circ}\text{F}$

on: Temp.

on: Temp.

Transparency Conditions Good

336

21^h Anne
 ~ 22^h 20: continuously drifting draperies and fleecy clouds,
 northern sky up to and back of zenith. Excitation in waves, running
 very quickly from north to south, - lasts very long!

Ending Time E.S.T. Ind	Angle Ind	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 ^h 22 ^h W		+45° 16'	1-0	9.95	E9	15-15-15	Set 2 KAFS 29/310 Anne	good
00 ^h 3 ^h E		+52° 47'	0	7.1	40	25-25-2	Set 2 W. Ecl. Pin	fine
01 ^h 12 ^h E						3-3	" 8 "	good
03 ^h 2 ^h W		30 13	10	1000	G-8	1-1-1	KAFS. 0150 Thin Clouds	good
						4/3	" 5 4 P.H. + 12	OK.
							11 m M.	
May 18.								
	MC	SC	MTW	STW	S	SW	ME	
	-1.5	+54.4	-28.9	-0.5	-11.5	1.24	-10.7	

337

N

Date 1956 May 19-20 Sat Sun

Observer Mo - Hg

Julian Day 2435613.5

058 51 42.5 3462.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23134	HD 164353	17 55.6	+02 56	I-12 $\frac{1}{2}$	E103a-0	0.016		22 27 ^{15³}	22 27 ²⁰
	"			"				22 29 ^{40⁵}	22 29
	"							22 31	22 31 ⁴
23135	Star marked on finder field.			"	"	"	+10.8	22 47	23 0
23135	HD 170177	18 23.0	-13 34	"	"	"	+10.8	23 08	03 44
	Focus Post. O.B.								

Temp. +37°

Transparency Conditions Excellent

338

200 Visitors

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

[illegible]

339

L₀Date ~~Wed-Thurs~~ May 23-24, 1956 Observer O - H_r Julian Day 24356.17

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	E103a-O	Set .008	+9.8	20 51	Middell
	"	"	"					20 53	"
	"	"	"					20 54	Middell
	"	"	"					20 55	20 57
23137	γ Boo	14 28.1	+38 45	"	"	"		21 24	21 24
	"							21 27	21 27
	"							21 25.5	21 25
	"							21 27	21 27
→ 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 34	"	"	.016	9.8	00 56	02 56
→ 23141	HD 153345	16 53.9	52 52	"	"	.008	9.4	03 08	03 40
	Test	Test	0.713			.008			

un Temp. +38°

cu. 12.918

un Temp.

Transparency Conditions *Clear*

340

Aurora After Midnight.

456.4

Ending hour angle L.L. El	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0-	3.59	A0 II		St 1 MK. 15' Down cables slipping badly.	
						4 30'	fine
					6 ^s	9 1"	
20 S	E 64 36					10 2"	
			3.22	A7 III		1 MK 15'	
						4 30'	fine
					6 ^a	7 1"	
	E 38 26	-1				10 2" Dec slow motion slipping	
22	42E 45 2 44	-1	7.1	A0	2-2-2	" 2	fine
00	9W 59 "	-1	8.36	F8p	2-2-2	" 2 KAFS 14 # 133 only star in field	fine
02	2W -06 30	-1	9.28	Bos Ia	1-1-1	" 2 OB.	fine
03	2W 52 44	-1	7.1	A0	2-2-2	" 8	fine
					8/6	" 8	012
						Hon M. 2 P.t. in fig.	

neTemp. 42°
 us 12.916
 neTemp.

O-Lo
 Sat May 26 100 visitors - cloudy.

Transparency Conditions Clear

342

Aurora 8-10 EST
 20-10

" Very bright after midnight.

Ending Time E.S.T. Hk.	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'	
20 1/22	45 03	0	9.76	K ₅	1-1-1	2 KAFS 135 m	fine
01 027W	25 18	0+	9.4	G ₅	1-1-1	2 AG prog.	starry
03 110W	-00 38	0-1	9.96	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 frige.							
H.m.M.							
Friday May 25 th							
					SC	MTW	
					143.4	-10.9	

Date Sum. May 27-28/56 Observer L - BK Julian Day 2435.621

① 66 32 40.6 3452.1

[illegible]

Temp. 56°F

12.916

Temp. 48°F

Transparency Conditions Good, some haze

344

452-1

Ending Time E.S.T. 1d	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 23	47°W	44°54'	0	9.59	F4	1-1-1	Set 2 K.A.F.S.	fine
23 50	52E	52 46	0-1	7.1	A0	2-2-2	Set 2 Binary	strong
03 18W	44 24	0	9.88	G8	1-1-1	Set 8	K.A.F.S.	fine
03 42W	52 45	0	7.1	A0	2-2-2	8	Wubui.	strong
4 PH + 8								
MONDAY MAY 28 th								
MC	SC	MTW	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. Tues. May 28-29 1936 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 1/2	103-A-0	^{set} .016	+16.3C	20:55	22:55
23151	HD 153345	16 53.9	+52 52	"	"	^{set} .008	+15.8	23:06	23:36
23152	J Her	16 16.7	+46 33	"	"	"	+15.4	23:46	—
	"	"	"	"	"	"	"	—	—
	"	"	"	"	"	"	"	—	—
	"	"	"	"	"	"	"	—	23:52
23153	BD +28° 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
	<i>Transit</i>								

0.13

o e Temp. $+53^{\circ} F$

XS.....

o e Temp.....

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

346

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:55	4 W	$+59^{\circ} 07'$	0	9.86	G3	1-1-1	set 2 KAFS 13-117	<i>fine</i>
23:36	9 E	$+52^{\circ} 46'$	0	7.2	A0	2-2-2	set 5 Wellmann binary (set 2 has 1 st slit 016)	<i>strong</i>
-	-	$+46^{\circ} 25'$	0	3.73	B5 IV	-	set 1 155 OKS MK	
-	-	"	"	"	"	-	4 30	<i>fine</i>
-	-	"	"	"	"	6	7 1 ^m	
23:52	6 E	"	"	"	"	-	9 2 ^m	
00:3	7 E	$28^{\circ} 53'$	00	8.7	B2 IV	1-1-1	" 2 O.B. Prog.	<i>fine</i>
03:59	06 W	$28^{\circ} 07'$	0	8.6	07	1-1-1	" 8 "	<i>fine</i>
						$\frac{4}{3}$	" 5	<i>OK</i>

*H.P.H + 4 in fig.
H on M.*

Wed May 30

MC	SC	MTW	STW	S	SW	ME
^S -0.4	^S +50.0	^S -8.2	^m -0.2	^S -9.0	^S +67.8	^S -18.6

Fri June 1

^S -2.1	^S +47.0	^S -0.8	^m -0.1	^S -11.0	^S +32.0	^S +44.5
----------------------	-----------------------	----------------------	----------------------	-----------------------	-----------------------	-----------------------

Date June 6 / 56 Observer L-Hr. Julian Day 156

[illegible]

e Temp.....

June 6
changed to
25" Camera

348

12½" was Grows 12.916 25" is Grows 15.687
 Tilt 20.35 Tilt 23.15

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

349

PK

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 54	I-25	Harpicel	0.008		21 29 10	21 30 10
								21 34 04	21 36 04
								21 38 06	21 47 06
	Focus Test						+28.0		
23156	⊙ oph.	1950	1950	I-25	Harpicel	008		22 16 20	
23156	⊙ oph.	17 15.9 <u>1900</u> 17 15.9	-24 57 <u>1900</u> -24 54		E103a-D	008		22 21 20	22 25 20
								28 34	33 34
								34 55	39 55
								41 32	46 32
23157	⊙ oph.	"	"					22 48 05	53 05
								53 45	23 00 15
							+26.2	01 08	06 08
								07 00	12 00
23158	⊙ oph.	"	"				26.5	23 13 10	23 18 10
								19 14	24 14
							+26.0	25 25	30 25
								31 08	36 08

Correction to latitude
Clock is +1m 54.5
This should be added
to the recorded times.

ie Temp.....

cs 15:788

ie Temp.....

15-766
022

15 788

Transparency Conditions Poor at horizon

350

43.8

Ending Time E.S.T.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
21 30 12			1?	2.21	80	32	Set $\frac{1}{2}$	This plate developed as a guide to exposure	about weak
21 36 04						32	$3\frac{1}{2}$		weak
21 42	26 E	at correct time of 21 ^h 44 ^m 00 ^s				32	$6\frac{1}{2}$		weak
						32-20	$9\frac{1}{2}$		et al
							Set $\frac{1}{2}$ for Van Hooft.		
22 05 30	03 ^m 55 ^s E	-24 57		3.07	83	12	$\frac{1}{2}$	This plate developed	weak
33						12	$3\frac{1}{2}$		good
39						12	$6\frac{1}{2}$	Turned off heat.	good
46						12	$9\frac{1}{2}$		good
53	5 20 E					12	$\frac{1}{2}$		good
23 00						12	$3\frac{1}{2}$		"
01						12	$6\frac{1}{2}$		"
01						12	$9\frac{1}{2}$		"
02 00	15 E		$1\frac{1}{2}$			12	$\frac{1}{2}$		good
24						12	$3\frac{1}{2}$		good
30						12	$6\frac{1}{2}$		fine
30						12	$9\frac{1}{2}$		fine

Date..... June 7/8, cont.

Observer

Julian Day...2.4356.32

077 04 49.7 3443.8

[illegible]

ole Temp. 67° at 0045 EST

Transparency Conditions

352

PCS.....

ore Temp.....

43.8

Ending Time EST.	Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	46 09 E			3.07	B3	12	set 1/2	fine
48						12	3 1/2	"
53						12	6 1/2	"
58						12	9 1/2	"
00	05 22 40 E					12	1/2	fine
11						12	3 1/2	"
						12	6 1/2	"
23						12	9 1/2	"
28	00 35 W					12	1/2	good
						12	3 1/2	"
						12	6 1/2	"
						12	9 1/2	"
5	4 05 W					12	1/2	good
						12	3 1/2	good
						12	6 1/2	good
01						12	9 1/2	weak

Seeing Worse

at 00 38 25 H-L 0010W

353

Date June 7/8 contd. Observer Mo Hr 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.	Angle in
23163	θ Oph.	17 15.9	-24 54	I-25	E103AD	008		01 10 ²³	01 15 ²³	28W
								15 ⁵⁴	20 ⁵⁴	
							+24.2	21 ²⁶	26 ²⁶	
23164	HD 154528	1700.9	+77 48	"	"	"	23.2	02 04	02 40	W
23165	HD 178619	1904.2	+16 42	"	"	"	23.0	02 54	03 26	W
	Flows Test		O.T.B.				"			

Dne Temp.....

Transparency Conditions

354

F01S.....

Dne Temp.....

43-8

Ending E.S.T.	Ho: Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 5	6 58W			3.07	B3	12	Set 1/2	weak
20						12	3 1/2	weak
20		-24 57				12	9 1/2	weak
02 4	9 W	+77 45	00	6.7	A0	4-4-4	" 2 Spect Bin. for N. Tel. East.	weak
03 2	1 W	+16 48	0	6.9	F5	4-8	" 2 Ecl. Bin Proj.	too weak
						15/10	" 8 0300 Haze + Thin Cloud.	OK
2 P.H. in frig.								
June 8. Horn. M.								
MC	SC	MTW	STW	S	SW	ME		
-2.3	+39.9	-12.1	-0.2	-9.1	+31.8	-44.8		

355

Date Fri/Sat, 1956 June 8/9 Observer W. W.

O

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.	Angle Incl.
23 166	δ Sco	15 ^h 54. ^m 4	-22° 20'	I-25	H. speed	.008	+23.7	21 ^h 0 ^m	21 ^h 1 ^m	
	"							5.5	7.5	
	"							11.5	15.5	
	Focus test									
23 167	θ Oph	17 ^h 15. ^m 9	-24° 54'	"	H. speed	.008	+23.8	22 03.	09	
	"							11.3	17.4	
	"							18.6	24.6	
	"							25.5	31.5	
23 168	θ Oph				"			33	39.5	
	"							42.2	48.3	
	"							49.7	55.7	
	"							57.2	23 3.4	
23 169	θ Oph				"			23 4.5	23 10.5	
	"							23 10.5	23 17.5	
	"							23 18.2	24.5	
	"						+23.6	26.0	32.5	

Date Temp. 68°F

Xs. 15.765

Date Temp.

Transparency Conditions medium in tank
horizon pretty hazy

356

correction to both electric clocks: +2^m

Ending Time for EST.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15	48 15 ^m E at correct time of 21 ^m 17.5	-22° 28	1-00	2.21	B ₀	32 ^s	set 1/2	
						32	3 1/2	fine
						32	6 1/2	
						10 ^s 7 ^s	9 1/2	plate developed immediately after exp OK.
0	57 ^s E	-24° 55'	0	3.07	B ₃	32	set 1/2 few clouds	fine
						32	3 1/2	"
						32	6 1/2	"
						32	9 1/2	plate developed
5	27 E					32	set 1/2	plate de
						32	3 1/2	good
						32	6 1/2	"
23						24	9 1/2	"
20	27 E		0			24	1/2	good
22						24	3 1/2	"
						24	6 1/2	"
						24	9 1/2	"

Date Temp.....

Focs.....

Date Temp..... 63

Transparency Conditions

358

Angle nd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
43 57E		0-1	3.07	B3	24 ^s	tel 1/2	fine
					24 ^s	3 1/2	"
					24 ^s	6 1/2	"
					24 ^s	9 1/2	"
09 57E	-24° 52'				24 ^c	tel 1/2	fine
					24 ^s	3 1/2 clouds near star, and over the star ^{low} 3 min	"
					24 ^s	6 1/2 clouds passed	good
					24 ^s	9 1/2	fine
21 W					24 ^s	tel 1/2	fine
					24	3 1/2	"
					24	6 1/2	"
					24 ^s	tel 3 1/2	} PH closed,
					24 ^s	7 1/2	
3 W	52° 44'	0-1	7.2	A ₀	4-4-4	Set 2	strong OK.
					18/10	Set 8.	
					clouds	at 2:30	

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

Date 10/11 June, 1956 Sun/Observer ~~Va~~ - ~~Mo~~ Julian Day 2435.635

© 79 56 58.5 3441.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle
23174	HD 153345	16 ^h 53 ^m 9	+52° 52'	I-25"	103A-0	.008	+26.0	21 ^h 55 ^m	22 ^h 36 ^m	19E
23175	HD 161321 +14° 3329	17 39.8	+14° 27'	"	"	"		22 58	23 16	26E
23176	HD 178661 Σ 2767 A	19 4.4	+38° 46'	"	"	"	+26.0	23 28	00 30	35E
23177	HD 180316	19 11.0	+27° 46'	"	"	"	26.0	00 48	01 14	0=
23178	HD 168957	18 173	+25° 01'	"	"	"	25.8	01 42	02 14	1W
23179	15 Sgc	17 ¹⁹ 59.7	+16 48	"	"	"	25.8	2 24	2 34	7E
23180	HD 153345	16 53.9	52 52	I 25	"	"	25.6	2 53	3 33	1W
Focus test O.T.B.							25.6			

Aluminized primary
during week of June 11/56

Done Temp. 64°

Transparency Conditions *Excellent*

360

Sat June 9-10. Hd-L.

June 9-10 Ad-L
200 visitors, showed by with 14
4 RSC tubelips on ♀ H 4

Sat
Clouded up
night after
visitors.

Ending Time E.S.T.	Angle hd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22'30	19E	+52° 46'	0	7.1	A0	4 ^s -4 ^s -4 ^s	Set 2 Ed. Bin. Wm.	
22	26E	+14° 27'	0-	6.2	A3	6 ^s -6 ^s	Set 2 Ed. Bin. Progr.	Weak.
H 3	35E	+38° 50'	0	7.6	A3	4 ^s -4 ^s -4 ^s	Set 8 " " "	fine
01 14	10E	27 55	0	6.64	B5	4 ^s -4 ^s -4 ^s	Set 5 Spec Bin	fine
1 14	5W	25 23	0.1	6.9	Bsc	4-7-4	Set 2 Be prog	fine
2 3	27E	26 56	1	6.1	G0	6-6	Set. 2 OLS	fine
3 20	8W	52 45	1-	7.1	A0	4-4	Set 8 E1 Bin Wm	
						15-10	" 5	
							1 PH loaded E103-a-0	
							H. on M.	
							Progs Jun. 11.	
							me, SC, mTW, STW, S, SW, ME.	
							-3.7 +34.8 -30.9 -0.6 ^m -9.9 ^s - -11.8 ^s	
Jun 13							-4.7 +32.1 -33.1 -0.7 ^m -10.4 - -13.2 ^s	
Jun 15							-4.7 +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	

361

Date... June 19-20 / 56

Observer

L. W. 70

Julian Day...2435644

Tues. Wed.

088 32 36.9 3433.7

[illegible]

Temp. $+62^{\circ}\text{F}$

12.916

Temp.

Transparency Conditions

362

June 15 Changed to 25" Was Focus 12.916
12 1/2" Camera Tilt 23.15 12 1/2" Tilt 20.35

Ending Time E.S.T.	Angle Ed	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 1	07E	52 44	0	7.1	A0	4-4	Set 2 Ed. B. 1/4	fine
22 2	58E	"	0	"	"	3-3	Set 8	fine
		60 03	0	9.60	A8	1-	Set 2 K.A.F.S.	15
						8/6	Set 8 sky clouding over at 23.10	O.K.
							2 P.H.s loaded + 8	

Date Thurs June 21-22/56 Observer Ad-L Julian Day 243564.6
292 27 03.8 2132.8

090 27 03.8 3432.8

[illegible]

ne Temp. 70°F
us 12.963
ne Temp. 66°F

Transparency Conditions Fair

364

a few clouds at sunset, then cloudy:
clearing about 22.10. light clouds at 22:15
to south all night

Ending Time E.S.T.	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. Ecl Bin	fine
01 12	38 W	-12 14	0	10.22	08	1-1-	" 2 OB prep. all slow motions. in poor shape, weak	weak
03 30	15 6"	+02 27	0	9.0	G5	2-2-2	set 5 ecl bin. (pec) image jumping	fine
						2-6	" 9 clearing	OK.
							3 PH. loaded. (2m .)!!? not a gelow: 90	
						Jun. 22	MC -10.9 ^s SC +25.6 MTW -15.8 STW -0.3 ^m S +6.8 ^s SW +18.8 MG ^s -8.7 ^s	
							Sat. June 23 MR, Hg 35 visitors lecture in D. 100% cloudy	

Date Sun/Mon 1956 June 24/25 Observer Wm

..Julian Day...2435649

093 18 41.0 3431.9

[illegible]

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	$+52^{\circ} 44'$	0	7.2	A0	2 ^s -2 ^s -2 ^s tot. 2	Ecl. Bin. Un.	0.4.
						8 ^s -8 ^s tot 9		
							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	

Date Mon. June 1956 June 25/26 Observer McA 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-d	Set 0.008	22.0	21:04	21:30
23187	HD 127386	14 ^h 26.0	+25° 33'	"	"	Set 0.016	22.0	21:42	23:14
23188	BD+28°3485	19 44.9	+28 34	"	"	"	22.0	23:25	00:43
23189	HD 153345	16 ^h 53.9	+52' 52'	"	"	Set 0.008	21.9	00:59	01:29
	Focus test	OTB							

Date 1956 Jun. 26-27 Tue-Wed Observer Mo.

Julian Day...2435651

095 1304.6 3431.7

[illegible]

Dne Temp. ... +67°F

Mus. ... 12-966

Dne Temp. ... +65°

Transparency Conditions ... Poor

370

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 19	1 34 E	+52 44	0-	7.2	A0	2-2-2	Set 2 Through thin clouds. Clouded out.	lunch 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.	OK.
						Jun. 27	mc sc m1w stw S SW NE -14.7 +24.9 -20.1 -0.5" +7.7 +88.5 -9.4	

371

Date Fri/Sat, 1956 June 29/30 Observer WmJulian Day 2435654

098 04 39.7 3431.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
23191	HD 153345	16 ^h 53.9 ^m	+52° 52'	I-25	10320	1008	+21.0	21 ^h 12 ^m	21 ^h 50
	"	"	"	"	"	"	+21.2	21 51	22 ^h 20
23192	HD 180316	19 ^h 11.0	+27° 46'	"	"	"	+21.2	23 06	23 30
	Focus test								

Dne Temp. $+65^{\circ}\text{F}$

Fus. 15.724

Dne Temp. 15.724

Transparency Conditions

372

June 27 changed
to 25" Camera

12 1/2" Nas

Focus 12.967

25" is

Focus 15.739
Silt 23.15

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^h 50	650.5 E	+52° 45	0 ⁺	7.2	40	4 ^s -4 ^s -4 ^s	Let 2 Ed. Bin. Var. Cloudy but for a few	fine
22 ^h 20	32 E	"	7-0	"	"	4 ^s -4 ^s -4 ^s	Let 8 open areas. Star occasionally covered by clouds	good
23 ^h 10	128 E	+27° 52	0	6.64	135	4 ^s -4 ^s -4 ^s	Let 2 Spec. Bin. Through haze some transparency decreasing gradually sky clouding over completely 23 ^h 30 10 ^h -7 ^s Dome closed 23 ^h 45 2 P.H. loaded	good clouded slightly

Sat June 30
373

S-Hg. Cloudy at first clearing somewhat. Shroud E Box and a little "14"
Selling pan, 200 miles near Salem. Small blizzards on top & briefly seen
about 150 m. m.

Jul. 1.

Date Sat Sun June 30-31 Observer S-Hg 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.	F	Angle Incl
23193 ^v	HD 153345	16 53.9	+52 52	I-25	E-10320	.008	23.1	23 04	00 20		W
23194 ^v	72 Hen	17 16.9	+32 36	I-25	"	.008	23.0	00 20	00 26		W
					"	.008		00 27	00 37		7W
								00 38	00 56		W
23195 ^v	HD 180316	19 11.0	+ 27 46	"	"	.008		01 07	01 25		W
23196 ^v	B4507	17 44.4	+47 38.9	"	"	.008	22.8	1 46.5	02 03		7W
23197	AD 194495	20 20.8	21 10	"	"	.008					
23193	HD 153345	16 53.9	+52 52				22.8	02 21	03 01		W
23197 ^v	HD 193536	20 15.6	4600		"	"		3 16	03 19		7W
"	"							03 19	03 25		
23198 ^v	"							03 30	3 42		
	Four star		OTB								

Ime Temp. 6.4°

Transparency Conditions

374

hazy and cloudy
intermittently

Ending Time E.S.T.	Bur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0026	32 W	+52 45	O	7.2	A ₀	44-4	Ecl Bin w.m. Set 2	There clouds, * covered a few	fine
0037	26 W	+32 30	O ⁺	6.01	G.O.V		OLS prog. Set 2		
01:06	37 W					4-4-	Set 5		fine
		I calculate 0° 31' W at 01:25 EST					Set 9		
01:18	6 W	-7 52	O ⁺	6.6†	B5	4	Sp Bin Set 2		good
02:34	-37 W	47 38	O ⁻	6.4	A ₂	44-4	Ecl Bin Set 1	30° cloud to star	good
						39	Set 8		
03:08	25 W	52 46	O ⁻	7.2	H ₀	4-4-4	w.m. Set P	control set 2	mackerell, sky mag + less good.
03:23 M	7 W	x 6 "	O	6.1	B ₂	6-6	Ecl Bin Set 5	too short.	5+ did too weak
03:24	"	"				6-6	Set 9		" "
03:40	5 W	"				4-8	Ecl Bin Set 2		too weak
						10-7	D		OK
		I calculate 1° 21' W at 03:19 EST and 1° 44' W at 03:42"					3 PH		

Date Mon-Tues July 2-3

Observer Lo- BOK

...Julian Day...2.435657.

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.	Angle ind
[23 179	ADS 8516	12 15.2	+38 27	I-25	103-00	508	27.3	21 04	21 54	c	(2)
23 200	ADS 8489	12 11.1	+41 13	"	"	"	29.6	22 02	22 38	1	52
23 201	HD 153345	16 53.9	+52 52	"	"	"	30.2	22 56	23 26	3	58
23 202	ADS 9539	15 09.5	+48 57	"	"	"	30.2	23 37	00 57	4	50
	ADS 11271	18 15.9	+03 20	"	"	"					

Eme Temp. 74° F
 Eus. 15-805
 Eme Temp.

Transparency Conditions exceptional
Light clouds passed at 2215

376

Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
215-7	02W +38°07	1 ⁺	7.63	K ₀	4-4-4	Vis Bin Set 2	superior
232	+ 52W 40°58	1 ⁻	7.01	K ₅	4-4-4	can't see Bin faint trap Set 8	"
3.6	58W 52°45	1	7.2	A ₀	4-4-4	Ecl bin WN Set 2 (20% to compensate)	fine
57	15W 42°4	1 ⁻	8.06	K ₀	4-4-4	Vis Bin Set 2 from 0.40 clouds Found plateholder loose!!	good
			5.24 6.5				
						closed at 2 o'clock	
						4 PH. loaded	
						July 3	
						ME 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 2435658

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	Angle had
23203	NGC 5904	15 16.2	+02 15	Newtonian	E103a-D		3 ^m	^h ^m ^s 21 20 05	^h ^m ^s 21 23 05		37W
23204	5024	13 10.8	+18 24				6 ^m	21 28 45	21 34 45		35W
23205	6205	16 40.1	+36 32				2 ^m	21 40 56	21 42 56		27E
23206	6229	16 45.7	+47 36				2 ^m	21 49 43	21 51 43		24E
23207	6229	16 45.7	+47 36				8 ^m	21 53 48	22 01 48		4E
23208	5897	15 14.9	-20 50				10 ^m	22 11 31	22 18 07		34W
23209	6254	16 54.8	-04 03				4 ^m	22 47 53	22 51 53		28W
23210	6218	16 44.9	-01 53				6 ^m	22 56 19	23 02 19		48W
23211	6838	19 51.5	+18 39				6 ^m	23 13 22	23 19 28		4E
23212	6535	18 01.6	-00 18				24 ^m	23 38 00	00 02 00		3W
23213	6366	17 25.4	-05 02				16	00 12 57	00 28 57		5W
23214	6342	17 18.5	-19 32				24	00 32 08	00 56 08		33W
	6626	18 21.8	-24 54								
	6712	18 50.6					8				

Ending Time E.S.T.	Hr Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 23	37 W						Focussed on α Boo	
21 34	35 W							
21 43	27 E							
21 51	24 E							
22 00	14 E						Focussed on κ Oph. Cannot improve focus	
22 18	34 W						Clouds ended. exposure 4 min too soon.	
22 51	28 W						Through a hole in clouds.	
23 02	48 W						"	
23 11	01 E						" Sky getting worse.	
00 00	31 W						Focussed" on β Oph	
00 28	35 W						Sky best it has been for last hour	
00 51	08 W						Cloud bank rose over cluster	
							This one clouded over too	
							Very poor night	

July 4-5 Totally cloudy July 5-6 Totally cloudy and misty

Temp.

010994

* Temp.

[illegible]

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

Transparency Conditions

380

Fous.....

Dne Temp.....

Correction to $\delta = +4'$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10:00	50 W						Focussed on δ Serpensis.	
10:05	50 W							
10:10	50 W							
10:15	50 E							
10:20	50 W							
10:25	50 E						Focussed on δ Ophiuchi	
10:30	50 W							
10:35	50 E						Clouds rapidly spreading over sky, Heavy haze all night - tried to sky, north of eye - 00 ^h totally cloudy	
July 9.							mc sc mtw stw S SW NE	
							-24.3 +22.6 -59.3 -1.25 ^m +9.6 +67.2 -9.2	
11.							-27.7 +22.0 -59.0 -1.05 ^m +10.0 +92.6 -8.2	
13							-24.7 +21.6 -54.5 -1.0 ^m +9.8 +118.3 -9.8	

381

Tues

Date July 10, -11 1956

Observer L-Gu-Hg

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.
23223	γ (Tau) Herc.	16 16.7	46 33	I-25	103a-0	.008	21.5	21 09 ⁰⁰	21 09 ³⁰
								21 10 ¹⁵	21 11 ¹⁵
								21 15 ⁰⁰	21 17 ⁰⁰
23224	γ (Gamma) Herc.	16 17.5	19 23	I-25	"	"	21.3	21 28 ³⁰	21 29 ⁰⁰
								21 29 ⁴⁵	21 30 ⁴⁵
								21 32 ⁰⁰	21 34 ⁰⁰
23225	HD 150682 B 4247	16 37.5	27 07	"	"	"	21.3	21 45	21 55
23226	HD 178661 E 2469A	19 04.4	38 50	"	"	"		22 14	22 50
23227	HD 180398	19 11.3	12 56	"	"	"	21.1	23 06	23 42
23228	HD 183143	19 23.0	18 05	"	"	"	21.1	23 49	00 15
23229	HD 193007 MWC 336	20 12.9	32 04	"	"	"	21.1	00 24	00 45
23230	HD 200332 MWC 300	20 57.6	45 46	"	"	"	21.1	01 08	01 17
23231	HD 153345	16 53	52 52				21.1	01 23	01 57
23232	ADS 10755	19 34.7	+16 21				21.0	02 05	03 03
23233	HD 214402	22 58.7	-44 27				21.0	03 25	03 45
	Focus Test	OTB					20.9		

Date Temp. 67°F
 1015. 15.734
 Date Temp. 61°

Transparency Conditions *Some light clouds*

382

37

Ending Time E.S.T.	Angle and	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 03		46 24	0-1	3.73	B ₅ IV		Set 1 M.K. Std.	
21 11						12	Set 5	<i>fine</i>
21 17	04 E						Set 9	
21 25			0-1	4.00	A ₉ III		Set 1 M.K. Std.	
21 32		19 14				12	Set 5	<i>fine</i>
21 35	12 W						Set 9	
21 55	13 W	26 59	0-1	6.3	F ₂	4-4-4	Set 2 Eclipsing Bin Prog.	<i>fine</i>
22 05	12 E	38 51	0+	7.6	A ₃	4-4-4	Set 8 " " "	<i>fine</i>
23 05	33 E	13 01	0-1	7.7	B _{3ne}	4-4-4	Set 2 Be Prog.	<i>good</i>
23 10	8 E	18 12	0-1	6.9	B _{9.5α}	4-4-4	Set 2 Be Prog.	<i>good</i>
23 15	27 E	32 14	0-1	7.0	B _{one}	4-4-4	Set 8 Be Prog.	<i>fine</i>
23 20	57 E	45 59	0	5.2	B _{3re}	12	Set 2 Be	<i>fine</i>
23 25	W	52 44	0	7.2	A ₅	4-4-4	Set 2 Wn	<i>fine</i>
23 30	"	16 29	0	7.72	A ₅	4-4-4	Set 2 Vis Bin	<i>weak</i>
23 35	"	42 47	2	7.2	A ₅	4-4-4	Set 2 Ap Bin	<i>strong</i>
						15/10		<i>OK</i>
							4 PH	

Chain on focus slipped off

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

Observer

$$Hd - L_o$$

Julian Day...2.4.3.5.6.6.9.

0112 22 56.8 3433.8

[illegible]

ne Temp. 64° at 10 hrs
 us. 15730
 ne Temp. 63°

Transparency Conditions
 Sat. July 14 about 175 visitors. Showed 5 Boo Thro clouds. RASC (4 telescopes) showed C, Y, R
 Hd - Lo
 Rhy about 9/10 at 22.30. weather cleared at 00 20 hrs.

384

Ending Time E.S.T.	Star Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 2	49w	79 22	0	7.3	F ₂	4-4-4	Set 8 Sp Bin set wrong star on set 2, 10 min earlier	good
01 59	02 00w	29 53	0	6.64	B ₅	4-4-7	Set 2 Sp Bin small cloud to south 03 00 hrs	good
03 25	03 17w	02 49	0 ⁺	7.9	K ₅	4-4-4	Set 2 Vis Bin ADS	weak
4	1 17w	32 47	0	6.9	G ₅	4-4-4	Set 8 Vis Bin (probe ruined) thin to medium clouds 03 40 hrs.	weak
						10-7	Set 8 close set 1 - 30 E.S.T.	
							1 P.H.	
July 16							mc gc MTW STW S SW ME	
							-32.2 +21.3 +58.5 -0.7 _m +8.8 +37.6 -7.3	

Date Mon Tues July 16-17, 1961 Observer Hg (Mr) - Lo Julian Day 2435671

[illegible]

ome Temp.....

$$\begin{array}{r} 15.748 \\ + 0.022 \\ \hline 15.770 \end{array}$$

Transparency Conditions

386

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	4 10W	38 09	0-	7.63	K ₆	4-8 K ₁₁₀	Set 2 Clouds covered star just after start of exposure Set 8	Nothing
							23:15 still cloudy	
							4 PM.	
							01.00 almost solid clouds.	

387

Date Tues July 17-18/56 Observer L - Gu Julian Day 2435672
 0 115 14 38.7 3434.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
23238	ADS 8516	12 15.2	38 27	I-25	E-103A ^{set}	.008	23.0	20 47	22 17	24V
23239	" 9539	15 09.5	48 57	"	"	"	22.9	22 22	23 44	58V
23240	HD 180316	19 11.0	27 46	"	"	"	22.9	23 53	00 09	21V
23241	" 214946	^{36.7} 22 38.7	²⁹ 44 46	"	"	"	22.5	00 22	00 52	22V
23242	" 205060	21 27.7	42 16	"	"	"	22.2	01 10	01 30	34V
23243	" 180316	19 11.0	27 46	"	"	"	22.2	02 13	02 27	39V
23244	" 214946	^{36.7} 22 38.7	²⁹ 44 46	"	"	"	22.2	02 36	03 00	26V
23245	ADS 15602	22 00.2	32 27	"	"	"	22.2	03 07	03 22	12V
23246	HD 214652	22 34.6	36 51	"	"	"	22.2	03 37	03 47	19V
	Focus Test	O.T.B.								

Room Temp. 69°F

ocus.....15.756

Room Temp.....

Transparency Conditions

face, N. wind -

388

[illegible]

Date Wed-Thurs July 18-19, 1956 Observer O-Hr Julian Day 24356.73
0116 11 53.0 3434.7

[illegible]

ome Temp. $+71^{\circ}\text{F}$

ocus.....15.790.....

ome Temp.....

Transparency Conditions

Clear

390

4.7

ending Time
E.S.T.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 49	05 W	$+40^{\circ} 54'$	1	7.1	K5	4-4-4 Set 2 Vuo Bin. Guiding Difficult far West	good
3 19	37 W	$+48^{\circ} 45'$	1+	8.06	K0	4-4-4 " 8 " "	fine
3 30			1	5.24	G5	6-6 " 2 6" " "	fine
3 42	54 W	$+3 22$	1	"	"	6-6 8 12" " "	
3 20	55 W	$+52 45$	0	7.1	A0	4-4-4 " 5 Spec Bin. Dome is full of train smoke	fine
0 55	12 W	$27 53$	0	6.64	B5	4-4-4 " 5 " "	fine
2 54	47 W	$+03 18$	0	7.86	K0	4-4-4 " 5 ADS.	(1) weak
3 41	56 14 W	$77 45$	0	6.7	A0	4-4-4 " 5 Spect Bin. Telescope reversed Above Pole	strong.
					15/10	" 9	etc red slightly.
4 P.H. + 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	+40.5	+0.5	+10.0	+92.7	-8.8
23	-38.3	+21.5	+53.5	+0.7	+10.2	+130.4	-3.2

391

Gu

Date Tues-Wed July 24/25 Observer Ma — 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.	Sur Angle End
23254	θ Oph.	17 ^h 15.9	-24° 54'	I-25	Hi-speed	Set. C08		20 39'42"	20 45'42"	1	
	"	"	"	"	"	"		20 46'58"	20 52'58"		
	"	"	"	"	"	"	26.1	20 53'20"	20 59'20"		26.1
23255	"	"	"	"	"	"		20 59'47"	21 05'47"		
	"	"	"	"	"	"	26.4	21 11.14	21 17.14		076
23256	"	"	"	"	"	"		21 17.38	21 23.38		
	"	"	"	"	"	"		21 23.53	21 29.53		
	"	"	"	"	"	"	26.5	21 30'01"	21 32'25"		26.5
23257	"	"	"	"	"	"		21 44'20"	21 50'20"		
	"	"	"	"	"	"		21 53'15"	21 55'15"		51.4
	Focus Test		O. T. B.								
								Correction to clock used for these times is -3 ^s			

Home Temp. $+74^{\circ}$
 Focus 15.802
 Home Temp. $+72^{\circ}$

Sat. July 21
 about 60 vintons
 Sat. through clouds
 15.780
 15.802

Transparency Conditions

Good, clouds W (exposed
 w.w.)
 392

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-24 57	1	3.07	B ₃	18 ^s	10 <i>Uchiuchi Reg.</i>	weak
	"	1	"	"	18 ^s	5 "	good
26E	"	1+	"	"	18 ^s	9 "	good
"	"	2	"	"	18 ^s	1 "	good
09E -24 57	"	1	"	"	18 ^s	9 "	good
"	"	1	"	"	18 ^s	1 " thin cloud	good
"	"	1~	"	"	18 ^s	5 " "	fine
06W -24 57	"	1	"	"	18 ^s	9 * lost at 21 32' 25' increasing cloud	too weak
"	"	0	"	"	18 ^s	1 <i>Uchiuchi Reg.</i> (through cloud)	too weak
31W	"	0	"	"	18 ^s	5 " " * lost at 21 32' 25'	weak
					25/15 9		OK.
						(1 sp. thin, top one)	
						3 Ph's 103 a-0 +2	
						1 Ph Hi. Speed (#1) +1	
						loaded	
						Jul. 23	
						Mc SO MTW STW S SW MG	
						-40.0 +21.3 +52.0 +0.5 +10.0 +57.5 -6.2.	

393

Correction to clock
used for these times
is -55Date Wed-Thurs July 25/26 Observer Gu} —
Mo}Julian Day 2435680

0122 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.	Angle End
23258	0 Oph.	17 ^h 15.9	-24 54	I-25	Hi-Speed	.008		20 29.17	20 36.17	1	
	"	"	"	"	"	"		20 37.20	20 44.20		
	"	"	"	"	"	"	+26.5	20 44.40	20 51.40	32E	
23259	"	"	"	"	"	"		20 52.11	20 59.11	2	
	"	"	"	"	"	"		20 59.8	21 06.18		
	"	"	"	"	"	"	26.6	21 06.00	21 13.30	09E	
23260	"	"	"	"	"	"		21 13.53	21 20.53	3	
	"	"	"	"	"	"		21 21.00	21 28.00		
	"	"	"	"	"	"	26.8	21 38.10	21 45.10	3W	
23261	"	"	"	"	"	"		21 35.48	21 42.48	4	
	"	"	"	"	"	"		21 43.02	21 50.02		
	"	"	"	"	"	"	26.8	21 50.10	21 57.10	5W	
23262	"	"	"	"	"	"		21 59.23	22 06.23	1	
	"	"	"	"	"	"		22 06.39	22 13.39		
	"	"	"	"	"	"		22 14.04	22 21.04		
	"	"	"	"	"	"	26.7	22 21.27	22 28.27	02W 03W	

Dome Temp. +73°

Focus 15.808

Dome Temp.

Transparency Conditions

Fair

394

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	3.07	B ₃	18 ^s	1 0 Ophi. Reg.	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 "	strong
		1/2	"	"	18 ^s	1 "	strong
		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		1/2	"	"	18 ^s	10 "	good.
53 W	-24 56	1/2	"	"	18 ^s		

395

cont'd

Date Wed.-Thurs, July 25/26 Observer Mo } - Hr Julian Day 2435680
 0122 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.	Angle End
23263	HD 180316	19 11.0	+27°46'	I-25	103a-0.008		+26.5	22 35	22 55	3	238
23264	ADS 12520	19 25.2	+2 41	"	"	"	+26.4	23 09	23 55	4	20 W
23265	ADS 12661	19 31.3	+5 48	"	"	"	+26.2	00 00	00 50	4	13 W
23266	HD. 180316	19 11.0	27 46	"	"	"	26.1	00 59	01 30	3	15 W
23267	" 214652	22 34.6	36 51	"	H, Spd.	"	26.3	02 04	02 34	2	05 E
	Four Post		0.7 B								

Dome Temp. $+73^{\circ}$

ocus. 15.808

Dome Temp.

Transparency Conditions *Good*

396

+38.9

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 55	23 E +27 52	0-1	6.64	B5	4-4-4	Set 2 Spec. Bin. Prog.	good from
3 55	24 W +02 48	0-2	7.9	K5	4-4-4	Set 2 Vis. Bin. Prog.	weak (1)
0 50	1 13 W +05 55	0	7.61	K0	4-4-4	Set 8 " " "	good.
1 30	2 15 W 27 53	0	6.64	B5	4-4-4	" 8 Spect. Bin. Thin Cloud.	fine
2 30	0 05 E 37 09	0-1	6.5	B3	6-6-6	" 2 " " " " No Guiding	fine
					30/20	" 8 More Cloud.	clearly
						3 P.H.	

397

correction to clock
used for these times
15 - 5⁺

Date *Thurs/Fri, July 26/27* Observer *Gu* *Gu* *Gu* Julian Day *2435681*
 ☉ 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
23268	Θ <i>Ophi.</i>	17 ^h 15.9	24 54	E-25	Hi-Spl.	108		20 30.23	20 36.23		
	"	"	"	"	"	"		20 37.07	20 44.07		
	"	"	"	"	"	"	+24.9	20 44.52	20 50.52		28E
23269	"	"	"	"	"	"		20 51.58	20 57.58	4	
	"	"	"	"	"	"		20 58.41	21 03.41		
	"	"	"	"	"	"	+24.8	21 04.33	21 09.33		09E
23270	"	"	"	"	"	"		21 10.40	21 15.40		
	"	"	"	"	"	"		21 16.26	21 21.26		
	"	"	"	"	"	"	24.8	21 22.15	21 28.15		10W
23271	"	"	"	"	"	"		21 29.19	21 35.19		
	"	"	"	"	"	"		21 36.14	21 42.14		
	"	"	"	"	"	"	24.7	21 43.50	21 50.50		33W
23272	"	"	"	"	"	"		21 51.52	21 58.52		
	"	"	"	"	"	"		21 59.40	22 06.40		
	"	"	"	"	"	"	24.8	22 08.20	22 15.20		7W
23273	HD 154528	17 00.9	77 48	"	"	"	24.8	22 29.0	22 47 ²		48

ome Temp. *+70 F*

ocus. *15.766*

ome Temp.

Transparency Conditions *Fair*

398

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 36		0	3.07	B ₃	18 ^S	1 <i>O. Vph. Prog.</i>	good
0 40		0	"	"	18 ^S	5 " "	fine
0 57	28E-24 57	0	"	"	18 ^S	9 " "	good
1 03		0	"	"	18 ^S	1 " "	fine
1 08		1	"	"	18 ^S	5 " "	fine
1 14	09E-24 57	1	"	"	18 ^S	9 " "	fine
1 20		1	"	"	18 ^S	1 " "	fine
1 26		1 2	"	"	18 ^S	5 " "	fine
1 32	10W-24 57	0	"	"	18 ^S	9 " <i>Large</i>	fine
1 38		0	"	"	18 ^S	1 " "	fine
1 44		0-1	"	"	18 ^S	5 " "	fine
1 50	33W-24 57	0~	"	"	18 ^S	9 " "	fine
1 56		1	"	"	18 ^S	1 " "	fine
2 02		1	"	"	18 ^S	5 " "	fine
2 08	57W-24 57	1	"	"	18 ^S	9 " "	fine
2 14	1 48 +77 43	1	6.7	A ₀	4-4.4	<i>Sci 8</i> <i>also fine Prog.</i>	fine

ome Temp.....

Lands from S.W. at 02 35 S.S.T

400

[illegible]

401

Fri - Sat.

Date July 27-28 1950

Observer.....Hg-Lo

Julian Day..2.4.3.5.6.8.2

①124 47 24.9 3440.8

[illegible]

Time Temp. 71.

Fus. 15.812

Time Temp.

Transparency Conditions

402
hazy with some clouds
sun

improving, strong NW

0.8

ending Time
E.S.T.

Bar Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3.0

55W

48 45

0-1-0

8.06

K₀

4-4-4

Set 2 Vis Bin - Telescope humming in RA & Dec

fine

0.9

15E

37 18

1-2

7.42

K₂

4-4-4

Set 8 Vis Bin

good

54W

+27 52

1-2

6.64

B₅

4-4-4

Sp Bin Set 2

fine

28W

+16 28

1-2

8.2

K₅

4-4-4

Set 2 Vis Bin

all I can get on the radio
is rock and roll! No. number
a strong odour of skunk at 30

(1)
weak

Slowdec button not working

37W

+44 44

1

7.26

A₅

4-4-4

Set 2 sp bin

Extremely
weak

15-10

Set 8

OK

2 PH of 103 and

1 PH of H. speed: #2

404

Ending Time
E.S.T.

405

406