

THIS PAGE INTENTIONALLY LEFT BLANK

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

3

me Temp

cus

me Temp

ur Angle
End

De

7

Date Sunday, June 7/8, 1952 Observer Smallman & Weston = W. S. - HK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20065	HD 135485	15 ^h 10.2 ^m	-14° 19'	E-12½	E-103a-0	0.008	18.20	21 ^h 28 ^m	22 ^h 30 ^m	3
20066	HD 107784	11 58.9	+25° 30'	"	"	"	18.1	22 39	23 59	7
20067	HD 126598	14 21.4	+26 43	"	"	"	18.0	00 05	01 45	1
20068	HD 191069	20 02.9	-16 00	"	"	.016	18.0	02 00	03 26	2
	Focus Test			0 1/3						

Dome Temp. 57°F

Focus 12.922

Dome Temp.

Transparency Conditions

Sat June 6. About 75 visitors. Showed slides + 74 - inch. Cloudy.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ⁿ 04 ^m E	-14° 34'	0	(7.9)	cB5	2 ^s -2 ^s -2	Start delayed because declination guiding motor would not operate. Had battery repair trouble. Matthew's high-velocity. Hydrogen lines winged. perhaps lower luminosity than a star. slight Flexure.	good
4 45W	+25 13	0	8.2	G0	2-2-2	set 2. AG + 25°. Went to line. sp. center the G0	good
04 09W	+26 28	0	8.5	K5	2-2-2	set 8. AG + 25°	good
00 08W	-15 51	0	8.78	G5V	1-1-1	set 5. N. Roman. (set 2: Forgot, widen slit.)	fine
					H/3	" 9.	all right
						NE SE N70 SW SW S NE June 8 -21 ^s -27 ^s -20 ^s -18 ^m -32 ^s -25 ^s -11 ^s	

Thesetimes were
read from the
watch. To get
correct times
subtract 25
seconds

Date Tues ^{Wed} 9-10 June 1957 Observer S-Mo-L Julian Day 171

Plate No.	Object	R.A. 1900-50	Declination 1900-50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hor. Angl Incl
200679	NGC 5272	13 39.9	+28°38'	Newt.	F-103A0			21 22	21 25	1	0.9W
⁷⁰ 20067	4147	12 07.6	+18 49					21 30 ^{+20^s}	21 40	2	2.38W
⁷¹ 20068	5634	14 27.0	-05 45					21 45 ^{+20^s}	21 59		0.17W
⁷² 20069	5904	15 16.0	+2 16					22 03 ²⁰	22 05		0.6E
⁷³ 20070	4147	12 07.6	+18 49					22 12 ^{30 5"}	22 20		3.08W
⁷⁴ 20071	5634	14 27.0	-5 45					22 28 ^{+25 14}	22 42		1.19W
⁷⁵ 20072	6205	16 39.9	+36 33					22 48 ²	22 50		0.56E
⁷⁶ 20073	6229	16 45.6	+47 37					23 00 ^{+14 14}	23 14		0.37E
⁷⁷ 20074	6171	16 29.7	-12 57					23 23 ⁸	23 31		0.09E
⁷⁸ 20075	6426	17 42.4	+3 12					23 42 ^{-20 14}	23 56		0.52E
⁷⁹ 20076	5897	15 14.6	-20 49					00 04 ^{-25 10}	00 14	1	1.54W
⁸⁰ 20077	6356	17 20.7	-17 46					00 22 ⁻¹⁸	00 34		0.07W
	K.A. 133	17 15.4	-15 02					00 37 ^{±00}	00 49		0.28W
⁸¹ 20078	IC 1276	18 07.5	-07 15					01 07 ^{+14 24}	01 31		0.19W
⁸² 20079	NGC 6342	17 18.2	-19 32					01 47 ^{+23 24}	02 11		0.95W
⁸³ 20080	6712	18 50.3	-8 47					02 15 ^{+19 10}	02 25		0.29W

Dome Temp. +60°F

Focus.....

Dome Temp.....

Mon-Tues June 8-9

Transparency Conditions.....

10

Newtonian. Thunder showers,

no one clear > 5 min. L + DIT put Cass mirror in alum tank

[Faint handwritten notes]

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 25	0 39 W							
21 41	2 28 W							
21 59	0 27 W							
22 05	0 16 E							
22 20	3 08 W						refocused on β Librae	
22 42	1 09 W							
22 50	0 56 E							
	4 05							
23 14	0 37 E							
23 16	0 09 E						refocused on κ Ophiuchi	
23 56	0 52 E						L guiding	
00 14	1 54 W							
00 34	0 07 W							
00 49	0 28 W							
01 31	0 19 W						refocused on η Serpentis	
02 11	1 48 W							
02 25	0 29 W							

(Continued)

Date Tues./Wed., 9/10 June 53 Observer S. M. L. Julian Day 2434538

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hor. Angle Ind.
20078 84	NGC. 6838	19 51.3	+18 38	Newt.	E103-a-0			+25 3	02 28	02 31	035 E
20079 85	6539	18 02.1	-7 35					00 24	02 36	03 00	132 W
20080 86	6712	18 50.3	-8 47					-20 8	03 05	03 13	117 W
20081 87	6838	19 51.3	+18 38					+05 2	03 16	03 18	123 W
20082 88	7089	21 30.9	-01 03			20 sec		-17 1	03 23		112 E

Dome Temp.....

Transparency Conditions

Focus.....

Dome Temp... +54°

Ending Time
L.S.T. P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
0 25 E																			
1 54 W																			
1 17 W						This plate was numbered 20081 by mistake - H.S.H.													
0 23 W																			
1 12 E																			
						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MYU</td> <td>STW</td> <td>SW</td> <td>S-M</td> </tr> <tr> <td>^s-22.2</td> <td>^s-18.3</td> <td>^s-27.8</td> <td>4.4^m</td> <td>-8^s</td> <td>-18.2^s</td> </tr> </table>	MC	SC	MYU	STW	SW	S-M	^s -22.2	^s -18.3	^s -27.8	4.4 ^m	-8 ^s	-18.2 ^s	
MC	SC	MYU	STW	SW	S-M														
^s -22.2	^s -18.3	^s -27.8	4.4 ^m	-8 ^s	-18.2 ^s														
						Fine night except for few early clouds. Seeing only fair													

13

Date Wed-Thurs. 10/11 June/53 Observer We S-BK-Hr Julian Day 2424539

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20088 89	NGC 5272	13 39.9	+22 38	Newt.	E _{103a0}			21 22	21 25	1
20089 90	4147	12 07.6	+18 49					21 30	21 40	2
20090 91	5634	14 27.0	-05 45					21 47.00	22 01.00	1
20091 92	5904	15 16.0	+02 16					22 05	22 07	2
20092 93	4147	12 07.6	+18 49					22 14	22 24	1
20093 94	5634	14 27.0	-05 35					22 36	22 50	2
20094 95	6205	16 39.9	+36 33					22 56	22 58	1
20095 96	6224	16 45.6	+47 37					23 03	23 17	2
20096 97	6366	17 25.1	-05 02					23 26	23 36	1
20097 98	5897	15 14.6	-20 49					23 44	23 54	2
20098 99	6426	17 42.4	+03 12					00 05	00 19	1
20099 100	6356	17 20.7	-17 46					00 23	00 35	2
20100 101	IC 1476	18 07.5	-07 15					00 48	01 12	1
20101 102	NGC 6342	17 18.2	-19 32					01 17	01 41	2
20102 103	6712	18 50.3	-08 47					01 45	01 53	1

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

Transparency Conditions.....

14.

Focus.....

Dome Temp.....

Hour Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 25	0 43 W						Focussed on α Boo	
21 40	2 30 W							
22 00	0 32 W							
22 15	0 10 E							
22 30	3 15 W						Seeing poor	
22 50	1 22 W						Refocused on η Boo	
23 00	1 16 W							
23 15	0 30 E							
23 30	0 52 E							
23 45	1 38 W							
24 00	0 25 E							
24 15	0 13 W							
24 30	0 04 W						Refocused on η Ser	
24 45	1 21 W						Same date	
25 00	0 02 W							

Date June 10/11 Cont'd. Observer S-BK-We-Hr Julian Day 2434539

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How high incl
20698	NGC 6838	19 51.3	+18 38					01 57 24	01 59 24	2	1.5E
		K.A. 89	21 10.4	+15 22				02 02 48	02 04 48	2	1.5E
20699	NGC 7023	21 01.0	+68 00					02 28	02 48	1	1.5
20699	- 11 -							02 49	02 55	2	1 05 E
20699	- 11 -							02 56 12	02 58 12	1	1 02 E
20699	- 11 -							02 59 15	02 59 45	1	1 00 E

Dome Temp.

Focus

Dome Temp.

17

These times were
read from the watch.
To get correct times
subtract 27 seconds

Date Thurs. June 11/12/53 Observer S-Mo-Hr Julian Day 2434540

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle and
⁰⁹ 20103	NGC 5272	13 39.9	+28 38	Newt.	E103a0			+15 ⁵ 21 21	4 ^m 21 25		(0 48W)
¹⁰ 20104	5904	15 16.0	+2 16					-28 21 35	3 21 3(5)		0 37E
¹¹ 20105	4147	12 7.6	+18 49					-20 21 46	12 21 52		2 52W
¹² 20106	5634	14 27.0	-5 45					+30 22 02	14 22 16	1	10 52W
¹³ 20107	6205	16 39.9	+36 33					+01 22 22	2 22 24	2	1 14E
¹⁴ 20108	6229	16 45.6	+47 37					-27 22 29	4 ^m -6 ^s 22 42		1 02E 0 01E
¹⁵ 20109	6426	17 42.4	+03 12					-20 23 29	24 ^m 23 53		0 48E
¹⁶ 20110	6366	17 25.1	-5 02					-10 23 56	12 00 08		0 15W
¹⁷ 20111	6171	16 29.7	-12 57					+08 00 20	14 00 34		1 07W
¹⁸ 20112	6712	18 50.3	-8 47					-02 ^s 00 39	16 -12 ^s 00 50		0 58E (0 53E)

Dome Temp. $63^{\circ}F$

Transparency Conditions *Scattered Clouds*

Focus.....

Dome Temp. $+5.5^{\circ}$

Reading Time
S.S.T. PE
1 25
8
2 35
12
14
22 16
2
22 4
4
22 42
4
23 53
2
0 08
14
00 4
6
00 50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
(0 48W)	calculated					thin clouds focused on η Bootis focus out 1 rev.	
0 ^h 37 ^m E						Thin some clouds	
2 52 W						apparently clear	
0 52 W						" "	
1 14 E						" "	
1 02 E							
(1 01 E)	The Hrc would have been 101E if exposure had lasted 14 m.					much cloud in south - & finally on cluster	
0 49 E						refocused on β Ophiuchi	
0 15 W							
1 07 W						some clouds	
0 58 E							
(0 53 E)	(calculated for 16 ^m)					area completely covered by clouds ✓	

P.H. #2 loaded in frig.

	MC	sc	Alto	str	SW	S	M.F.
June 12	-22.6	-28.6	-26.8	-3 ^m	-17 ^s	-25.4	-10.5

19

Date Sun June 14-15/53 Observer We. Hd - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
¹⁹ 2012	+11°2910 M 293 } Focus Test	16 01.2	+10 57	I-25	E103a0	008	18.8	20 42	22 42	4
²⁰ 2014	V451 Oph.	18 24.5	+10 49	"	"	"	18.8	22 57	23 51	1
²¹ 2015	M 333 } 70 Oph AB }	18 00.4	+02 31	"	"	"		23 56 ⁰⁸	23 57 ⁰⁸	2
								23 58 ²⁰	00 04 ²⁰	
								00 04 ⁵⁵	00 06 ⁵⁵	
²² 2016	32 Cygni M 397	20 12.3	47 24	"	"	"	19.0	00 16	00 17 ¹⁰	3
								00 18	00 24	
								00 25	00 27	
²³ 2017	32 Cygni	"	"	"	"	"	18.8	00 28	00 48	4
	"	"	"	"	"	"	18.8	00 49	01 49	
²⁴ 2018	MWC. 376	21 39.3	57 17	"	"	"	18.9	02 05	02 30	1
²⁵ 2019	B 5900 M 461 } Focus Test	22 42.2	16 19	"	"	"	18.8	02 37	02 57	
								03 09	03 19	2

Dome Temp. 6
Focus 15.6
Dome Temp.

Hour Angle
End

89m

07.8

2121

242

11E

11E

56E

95

5E

Dome Temp... 65 F.

Transparency Conditions

Focus... 15.695

Dome Temp.....

Jun. 13 Changed to 25" Camera: 12 1/2" was Focus 12.922
 Sat June 13 (cloudy) about 8 visitors W & Bk showed telescope
 25" is Focus 15.638 Tilt 20.35 Tilt 23.15

Ending Time
 1.57.
 2.2
 3.5
 4.7
 5.2
 6.17
 7.24
 8.21

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 8m	+10 46	1-2-1	8.5	Ko	5-5-5	Ho's binary set 5 Developed	fine
OTB					10/7	set 9 focus OK	
E 121	+10 50		7.9	Ad	5-5-5	Ecl. bin. Visual double. Fainter comp. is about 1 st length away. Tried to keep its light out.	fine
			4.0	dKo	0	set 2	good
					15.	" 5	good
E 41m					0	" 9	str fine
			4.2	CK5 + A	0	" 2 Ho's bin No comp! poor guiding	fine (w/ wanted)
					15.	" 5 poor guiding	str
					0.	" 9 No comp!	w/ (w/ wanted)
0211E	4733	1-2	"	"	5-5-5	" 2 slightly poor guiding	str (w/ wanted) very str.
0111E	"	1-2	"	"	5-5-5	" 8 some scratches in critical regions. (w/ wanted)	
0156E	5738	2-3	7.0	Bone	5-5-5	" 2 Be Bin. Southern * of pair as seen in guiding eye piece.	fine
139E	"	2-3	"	"	5-5-5	" 7 Northern * component.	fine
215E	16 34	0-1	5.7	K1	5-5-5	" 2 Ho Bin	fine
					10/7	1. Power wire in hand switch	slight
					3PH + 10	15 Broken	

Just one star. Focus must have been poor.

Dome Temp. 69°F

Transparency Conditions *Poor - some cloud*

22

Focus 15.757

Dome Temp. 60°F

Some clouds.

Reading Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 25 ^m	34 19	00-1	6.7	KR2	5-5-5	Ho binary (start delayed) - <i>Power wire in land with bacteria up. Slide set. dump?</i> - <i>Haze & light clouds</i>	<i>nothing</i>
02 35	25 15	0-1	6.6	dK5	155	Ho binary - 155 Comp since difficult to get at. <i>from guiding</i>	<i>fine</i>
00 5	47 34	0-1	(4.3)	cKs+A	5-5-5	Eclipping binary. set 2.	<i>fine (as desired)</i>
01 49E	"	"	"	"	5-5-5	" 5	<i>str.</i>
01 41E	"	"	"	"	5-5-5	" 8	<i>v. str. (as desired)</i>
02 47E	36 4.7	0	7.7	B3e	5-5-5	Hd Bin set 2. Hd Be - star	<i>good</i>
02 46E	38 24	0	6.4	B3me	5-5-5	" 7 " " <i>from guiding</i>	<i>fine</i>
02 29E	-0600	00	4.7	K0	15	Ho Bin " 2	<i>wh</i>
					10/7	" 9	<i>all right</i>
						2 P.H. +4	

	MC	SC	MTW	STW	SA	S	H. E.
June 15	-23.4 ^s	-16.9	-23.2 ^s	-2 sm	-8 ^s	-0.2 ^s	-2.0
17	-24.8	-43.3 ^s	-31.0 ^s	0 ^m	-23 ^s	-44.1	-13.1

Date Thurs. - Fri. June 18-19, 1952 Observer we - Hr Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle Lst
20132	M202	10 ^h 32.2 ^m	+34° 36'	I-25"	E-10320	0.008	+25.0	20 ^h 59 ^m	22 ^h 35 ^m	3	3 ^h 2 ^m V
20133	32 Cygni	20 12.4	+47 24	"	"	"		22 ^h 55 ^m	22 ^h 59 ^m	1	3 ^h 15 ^m E
	"	"	"	"	"	"		22 ^h 59 ^m	23 ^h 07 ^m	1	3 ^h 07 ^m E
	"	"	"	"	"	"	+25.0	23 ^h 08 ^m	01 08	1	1 ^h 32 ^m E
20134	32 Cygni	"	"	"	High-Speed	"		01 09	01 11	3	1 ^h 29 ^m E
	"	"	"	"	"	"		01 12	01 18	3	1 ^h 22 ^m E
	"	"	"	"	"	"		01 18	01 38	3	1 ^h 05 ^m E
20135	31 Cygni	20 10.5	+46 26	"	E-10320	"		01 41 ¹⁵	01 45 ¹⁵	2	1 ^h 35 ^m E
	"	"	"	"	"	"	25.1	01 46 ⁰⁰	01 58		1 ^h 43 ^m E
20136	H.D. 200775	21 00.4	67 47	"	H.-Speed	"	25.0	02 02	03 30	3	00 ^h 00 ^m E
	Focus Test				O.T.B.						

Dome Temp.

Focus 15.7

Dome Temp.

Dome Temp. 72
 Focus 15.786
 Dome Temp. 67

Fri. May 19. Showed 72" telescope and Sun on celostat to 75 children.
 L, Mo.

Transparency Conditions Hazy in all directions, but much worse at large zenith distances. Considerable Ci and Cs in W. and SW.

24

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
22 ^A 35 ^m 3	5 ⁿ 30 ^m W +34° 17'	1-0	6.7	K ₂	5 ^s -5 ^s -5 ^s	Herschel's binary. Only stars in finder field.	ok	
22 ⁿ 59 ^m 1	3 ⁿ 45 ^m E +47° 32'	1	(4.3)	ck ₅ +A	12 ^s -12 ^s	Ecl. bin. Lot 2 Plate spotted immediately before exposure	no record	
23 ⁿ 10 ^m 3	3 37 E	1-2	"	"	8 ^s -8 ^s -8 ^s	Lot 5	poor guiding	
61 12 1	1 32 E	2-1	"	"	6 ^s -6 ^s -6 ^s	Lot 8	lots off	
1 29 E	"	"	"	"	20 ^s -25 ^s	Lot 2	poor widening	
1 22 E	"	"	"	"	15-30	Lot 5	so desired	
1 8 1	1 05 E	"	"	"	15-15-15	Lot 8		
00 56 E	+46 33		(4.0)	ck ₁ +B	5-5-5	" 2 Ecl. bin. for Howard, Pelham, Winton	no record	
10 43 E		1-2			5-5-5	" 8	poor guiding	
33 00 00	67 55	1-2	7.5	Bsne	10-10-10-15	" 2	Only stars in finder. Norton's Be stars in circle of NAC 200	good all night
					20/16	0230 Hazy		

3PH + 12 + 24 Hi. Spd.

June 19

MC	SC	NW	SW	SW	S	ME
-20.8	-15.1	-11.50	0 ⁿ	-31 ^s	-15.5 ^s	-10.1 ^s

Date 1953 Fri/Sat Jun 19/20 Observer Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
[20137	HD 175578	18 50.9	+29 54	1-12½	E103-a-0	·008	+26.0	00 24 ³⁸	01 02	1
[20138	AG 9675	19 07.3	+26 14	"	"	"	+26.0	01 05 ³⁸	01 43	1
20139	HD 184467	19 29.5	+58 24	"	"	"	+26.0	01 54	02 02	2
20140	HD 191875	20 07.0	+29 25	"	"	"	+26.0	02 10 ⁴⁴	02 54	4
20141	HD 198254	20 44.0	+28 10	"	"	"	+26.0	02 59 ⁴⁵	03 33	1
	Focus Test	O.T.B.						(2?)	(3?)	

Dome Temp.
Focus 12
Dome Temp.

Hour high
End
C.R.E.
C.36W
C.36W
C.12W
C.22W

Dome Temp. +75° F.

Transparency Conditions very hazy at horizon
clear at zenith

Focus.....12.922

Dome Temp. +71° F.

June 19 Changed to 12 1/2" camera 25" was Focus 15.786 12 1/2" Focus 12.922
Silt 23.15 Silt 20.35

Ending Time
R.S.T. P.E.
01 02
01 43
02 02
02 54
03
33
(37)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 16 E	+29 56	2	8.35	G5	2-2-2	Set 12 S.E. AG 25	good
0 08 W	+26 17	2	8.42	G	2-2-2	Set 8	good
0 06 W	+58 26	2	7.70	K5	2-2-2	Std. Vel.	fine
0 20 W	+29 31	2 1/2	8.75	K2	2-2-2	Set 2 AG 25	good
0 22 W	+28 19	2 1/2	8.70	K0	2-2-2	Set 5	low
					4-3	Set 9 clouds at 1:22	all right

3
(37)

27

Date 1953 Sat/Sun June 20/21 Observer Ho - Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20142	HD 144579	16 01.5	+39 25	f-12 $\frac{1}{2}$	E103 $\frac{5}{10}$ -0	.008	+27.0	22 33	22 51	3
20143	HR 169819	18 21.4	+25 56	"	"	"		22 57	23 25	3
	"	"	"	"	"	"	+26.6	23 25	00 29	3
20144	HD 171830	18 31.8	+27 08	"	"	"	+26.6	00 44	01 54	4
	Focus Test	O.T.B.					+26.6			

Dome Temp. +72°F

Focus 12.922

Dome Temp. +71°F

Transparency Conditions Much haze.....

100 visitors Showed ♀ Ursa Major with 74", Moon with celostat
R.A.S.C. Amateurs set up their telescopes on lawn.

Ending Time E.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 51	2	0 26 W	+39 14	0	7.6	G8	2-2-2	std. Vel. Set 5 <i>some faint lines on plate</i>	fine
23 25	3			1/2	8.72	K0	2-4	AG 25 Set 2 <i>For part of this exposure I was following a star close to HD 169819. I lost the star off the slit; when I found it again I wondered why it was so much fainter.</i>	Too dark
00 29	3	0 16 E	+25 57	1/2	8.72	K0	2-2-	" Set 8 <i>lost slit of plate when covering plate</i>	dark
01 54	4	0 59 W	+27 08	1/2	8.62	K0	2-2-2	" Set 2 Thin clouds at 1:30	h. value
							4-3	Lightning in north, east, and west.	all right?
								Increased lighting in east, clouds, and east wind forbodes rain.	
								4 P.H. loaded (in refrigerator)	

all plates defective in manufacture

Dome Temp. 68°F

Focus 12.922

Dome Temp.

Transparency Conditions Fair

30

Some Haze & Cloud in 11 & 11:11.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0045W	2720	0!	8.42	G0	22-2 8/6	A.G. 25 Set 2. <i>Some pin-holes over plate.</i>	<i>str. centered in</i>
						3 P.H. in fring.	
<i>Plate defective in manufacture</i>							
						MC SC MTW STW SW -30.0° -14.5° -32.2° .2^m +15.5°	

(Hd)
(Ho)

22-23

Date ~~Mon-Tues. June 21-22~~ 1953 Observer We - Mo Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20146	HD 104817	11 ^h 59.1	+2° 01'	I-12 $\frac{1}{2}$ "	E-1035-0	0.016	+26.4	20 ^h 59 ^m	22 ^h 07 ^m	2
20147	HD 114762	13 07.5	+18 02	"	"	0.016	+26.1	22 ^h 11 ^m	22 27	2
20148	HD 145001	16 03.6	+17 19	"	"	0.008		22 56	22 58	3
	"	"	"	"	"	"	26.0	23 01	23 05	1
	"	"	"	"	"	"		23 08	23 14	11
20149	HD 144577	16 01.5	+39 24	"	"	"		23 29	23 35	2
	"	"	"	"	"	"	26.0	23 41	23 56	"
	"	"	"	"	"	"	+26.0	23 56 ²⁴	00 20	2
20150	HD 192031	20 07.7	-15 43	"	"	0.016	+26.0	00 49	03 15	1
20151	FF Peg	21 35.1	+08 44	"	"	0.008	+26.0	03 20 ^{20m.}	03 40	2
	Focus Test	O.T.B								

Dome Temp.

Focus 12.9

Dome Temp.

How high
hd

3.5m W

3.2m W

65 W

1.30 W

2.03 W

0.51 W

0.8

Dome Temp. 76°F

Focus 12.932

Dome Temp. +60°F

*set focus at 12.932
CBM.*

Transparency Conditions *Some scattered Cu low in south, but this clearing. Much Cu sealing, but no better line.*

32

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 51 ^m W	+1° 43'	0	7.9	(A2)	1 ^s -1 ^s -1 ^s	<i>Only star in finder (no field sketch made). Lot 2 Romada high-velocity star. Flexure</i>	<i>l. str.</i>
3 ^h 02 ^m W	+17 43	0	8.2	F7	1 ^s -1-1	<i>Lot 6 std. vel.</i>	<i>fine</i>
	+17 08	0.1	6.1	G4	16 ^s	<i>Lot 2 std. vel.</i>	<i>fine</i>
0 45 W	"	"	"	"	6	<i>Lot 5 " "</i>	<i>l. str.</i>
	"	"	"	"	6	<i>Lot 8 " "</i>	<i>str</i>
	+39 15	0	7.6	G8	3-3	<i>Lot 2 std. vel. ^{at horizon} suddenly rose 23" 33"</i>	<i>fine</i>
1 30 W		0!	"	"	2-2-2	<i>Lot 5 " "</i>	<i>l. str.</i>
2 03 W	"	.	"	"	2-2-2	<i>Lot 8 " "</i>	<i>l. str.</i>
						<i>N.R. Field checks. Went as far west as possible</i>	
0 51 W	-15 35	0	9.4	GeV	1-1-1	<i>Hi. Vel. Dome turning relays failed: O.K. now</i>	<i>fine</i>
0 11 E	+8 55	0	7.0 -7.5 vis.	A0	2-2-2	<i>Bakar's Ecl. Bin</i>	<i>fine</i>
					4-3	<i>3 P.H. in box in refrig.</i>	<i>centered. to width</i>
						<i>Flashlight needs new batteries.</i>	

33

Date 1953 Tues/Wed June 23/24 Observer Ma - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Est.
20152	HD 104392	11 56.2	+24 47	J-12½	E1030-0	0.008	+20.0	21 26	23 16	1	5:1W
20153	HD 144579	16 01.5	+39 24	"	"	"	+20.0	23 25	23 39	2	25W
20154	HD 192286	20 09.0	+30 11	"	"	"	20.0	23 47	01 07	3	0:4E
20155	" 195667	20 27.6	26 42	"	"	"	20.0	01 13	02 17	"	00:5E
20156	" 195712	20 27.8	26 44	"	"	"	19.8	02 20	03 30	4	W
Focus Test					O.V.B						

Dome Temp. +63°F

Focus 12.942

Dome Temp. +55

*Set focus at 12.942
2:12 PM*

Transparency Conditions Good

Correction to S.T.W is -0.5^m

34

Ending Time
L.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 07W	+24 28	0-1	8.9	Kd	2-2-2	AG 25 <i>Calibration spots flexible since plate not in focus in center. This, due to plate being set incorrectly</i>	fine
1 25W	+39 14	1	7.6	G8	2-2-2	Std. Vel	l. str
0114E	30 18	0	8.75	G5	2-2-2	AG 25 Set 2	fine
0022E	26 52	0	8.55	K2	2-2-2	" " " 7 South Prec.	good
0050W	-26 53	0	8.60	K0	2-2-2	" " " 2 North Following	fine
					8/6		all right
						3 P.H. in frige	

35

E

Wn = Wellmann

Wed/Thurs.

Wn

Date

June 24-25/53

Observer

Wd

- Mo

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20157	HD 136202	¹⁹⁰⁰ 14.2 15 16.8	¹⁹⁰⁰ 09 +01 57	I-12	E103a0	00.8	22.0	21 03	21 11	1
								21 11	21 15	
								21 16	21 18	
{ 20158	HD 136577	15 16.4	58 52	"	"	"		21 25	21 55	2
{ 20159	HD 136749	15 17.3	+61 43	"	"	"	22.0	22 02	22 26	
{ 20160	HD 173435	18 40.2	26 08	"	"	"	22.0	22 34	23 34	3
{ 20161	HD 188566	19 50.7	25 04	"	"	"	22.0	23 40	00 40	4

Dome Temp. +62
 Focus 12.942
 Dome Temp. +60°F

Transparency Conditions *V poor at first - improving*

Ending Time
 L.S.T.
 PE
 21 1
 21 5
 21 18
 21 5
 22 2
 34
 00 40

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+1 53	0	5.74 ^{mag.} 5.2?	G0	2-4	Std Vel * Set 1.	strong
					6	" 5	fine
E 07m	+5				6	" 9	fine
0° 30 W	+58 37	0	7.90	K0	2-2-2	Set 2 KA prog.	fine
W 1 01	+61 32	0	7.89	G0	2-2-2	" 8	fine
E 1 15	+26 10	0-1	8.72	G5	2-2-2	" 2 AG Prog.	fine
1 19E	+25 11	2	8.20	K2	2-2-2	" 8	fine
00 44 Clouds - could not see star in finder 02 10 Put telescope to bed. Clouds are blacker and thicker than India ink I use for plate covers Began to rain as I left dome. 3 PH loaded - flashlight needs batteries.							
June 25 / MC SC MTW JTW SW -29.5 ^s -12.0 ^s 00.0 +1.4 ^m +13.0 ^s							

Date Fri-Sat. 1953 June 26/27 Observer Mo - Hvr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20162	HD 104076	11 54.1	+25 12	1-12 $\frac{1}{2}$	E103-a-0	0.008	+24.9	20 55	22 59	1	5.24W
20163	HD 144579	16 01.5	+39 24	"	"	"	+24.4	23 10	23 20		1.24W
20164	HD 194525	20 21.0	+30 15	"	"	"	+24.4	23 30	00 30	2	2.1E
20165	" 194510	20 20.9	25 24	"	"	"	24.7	00 36	01 26	"	2.5SE
20166	A.G. 11332	20 23.3	27 44	"	"	"	24.5	01 34	02 38	3	3.1W
20167	H.D. 195509	20 26.7	26 21	"	"	"	24.3	02 44	03 12		3.16W
20168	EE Peg.	21 35.1	+08 44	"	"	"	24.3	03 18	03 38	4	2.33W
	Focus Test				O.T.B.						

Dome Temp...+7.1°F

Transparency Conditions... Good

Focus...12-942

0204 Dandy Meteor in Cygnus - South to North

Dome Temp...+67

Ending Time
L.A.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 59	5 04W +24 54	0+1	8.68	G ₀	2-2-2	Set 2 AG 25 Flexure	too etc
23 20	1 19W +39 15	2	7.6	G ₈	2-2-2	Set 8 Sid. Vel	too etc
0 3	2 01 51E +30 23	1	8.42	G ₅	2-2-2	Set 2 AG 25	too etc
0 15	00 55E +25 32	0-1	8.33	G ₅	2-2-2	" 7 " "	too etc
0 15	00 15W 27 52	0	^{vis.} 8.6?	G ₅	2-2-2	" 2 " " Southern * of pair	fine
0 31	00 46W 26 31	0	7.71	K ₀	2-2-2	" 7 " "	etc
0 38	4 00 03W +08 55	0	^{2.0- 2.5 vis.}	A ₀	2-2-2	" 5 BK's Ecl. Bin.	must be along all rig
					P/B	" 9	
						2 P.H. in Proj.	

39

Date 1952 June 27-28 Sat, -Sun, Observer We L - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
2016 ⁹	HD 139007	15 ^h 30. ^m 5	+25° 20'	I-12 ^{1/2} "	E-103-D	0.008	27.0C	22 ^h 33 ^m	23 ^h 43 ^m	2
2016 ²⁰	AG. 9236	18 43.3	+28 19	"	"	"	26.9	23 50	01 04	2
Check numbering of fields Also for 20113 etc Also numbers on programme sheets <i>checked</i>										

Dome Temp. 71°F.

Focus 12.942

Dome Temp.

about 250 visitors, almost

Mizar with 74" telescope
and set with
5" horizontal, several RASC
had telescopes set on lawn
and showed various objects.
we 4L

Transparency Conditions.....

Bright red, almost stationary, note
at about 23° 15' about 1/3 distance of
apical line. Later, and only slightly
end of this line.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 3	2 ^h 16 ^m W	+25° 07'	0!!	8.3	G5	2 ^e -2 ^s -2 ^t	Set 2. AG-program	Comp. weak str.
01 04	0 25W	28 19	0	8.61	G ₆	2-2-2	Set 8 at 00.35, clouds from NW. 1 P.H. loaded in refrigerator	fine

41

Date Sun. - Mon. 1953 June 28 - 29 Observer Mo - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20171	HD 103614	11 50.8	+26 03	1-12 $\frac{1}{2}$	E1030-D	0.008	+25.9	20 55	23 01	1
20172	HD 144579	16 01.5	+39 24	"	"	"	+25.5	23 09	23 17	"
20173	HD 182218	19 18.5	+26 58	"	"	"	+25.9	23 27	00 17	2
20174	HD 197020	20 35.9	+25 41	"	"	"	25.8	00 22	01 26	"
20175	" 197395	20 38.3	+29 54	"	"	"	25.8	01 32	02 36	3
20176	" 197515	20 39.1	+25 15	"	"	"	25.8	02 40	03 41	"
20177	EE Peg.	21 35.1	+08 44	"	"	"	25.7	03 31	03 41	2
	Frame Test				O.9.B.					

Dome Temp... +74°F

Focus... 12.942

Dome Temp... +65

Transparency Conditions Good at beginning.

0140 Dome would not turn. Could not hear relays clicking. Closed them manually a couple of times. Now seems O.K.

Ending Time R.A.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 01	5 17W	+25 45	0	8.75	G ₀	2-2-2	Set 2: AG 25 clouds 21:12 to 21:51 <i>flexure</i> thin clouds	<i>good</i>
23 17	1 24 W	+39 14	2 1/2	7.60 4.8	G ₀ B ₅	2-2-2	Set 8 St. Vel. thin clouds	<i>fine</i>
00 7	0 54 E	+26 07.5	2 1/2	8.91	K ₀	2-2-2	Set 2 AG 25 <i>strong star. sp. prob. type A</i> thin clouds <i>Comp. very weak to strong</i>	<i>fine</i>
01 6	0 102 E	25 5 1	0	8.51	G ₀	2-2-2	Set 8 " thin clouds	<i>fine</i>
01 18	0 006W	30 03	0	8.61	K ₂	2-2-2	" 2 "	<i>fine</i>
01 30	0 055W	25 24.5	0	8.23	K ₅	2-2-2	" 6 "	<i>fine</i>
01 31	0 013W	08 57.5	0	(7.0) (-7.5)	A ₀	2-2-2	" 5 BK's Ecl. Bin.	<i>too star</i>
						2/6	" 7	<i>all right</i>

1 P.H. in frige

43

Date Mon. - Tues. 1953 June 29-30 Observer We - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20178	HD 105020	12 ^h 00. ^m 4	+29° 04'	I-12 $\frac{1}{2}$ "	E-103a-0	0.008	26.30	21 ^h 24 ^m	23 ^h 04 ^m	1
20179	HD 149142	16 27.8	+26 15	"	"	"	26.1	23 ^h 08 ^m	01 08	1
20180	" 187691	1946.2	+10 10	"	"	"	26.0	01 15	01 21	3
	"	"	"	"	"	"	"	01 21 ³⁰	01 33 ³⁰	
						.016		01 34 ³⁰	01 37 ³⁰	
						"		01 38 ⁰⁰	01 44'	
20181	" 184467	1929.5	+5824	"	"	.016	26.0	02 01	02 31	3
	<i>Faint text</i>			OCTB		.008				

Dome Temp. 70°F

Focus 16.042

Dome Temp. +5.8°F

Transparency Conditions Good

46

Strong north wind all night
Scattered clouds at 00h.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 02	0 42 W	28 21	1 1/2	8.61	G0	2-2-2	AG 25, set 2 flexure	fine
02 44	1 24 W	+28 20	0-1	8.95	G5	2-2-2	" set 8	fine
02 55			2	5.93	K0	6	Std Vel set 2	good
02 57			"	"	"	6	" 5	ok
03 03	0 57 E	+04 25	"	"	"	6	" 8	fine
03 36	0 29 W	+08 55	1	7.0-7.5	A0	2-2-2	Binary - Bakes Set 5	great fine
03 40	0 28 W	"	"	"	"	2-2-2	Set 8	ok
						4-3	Set 10 1 pH loaded	ok
							MC SC MTW STW SW	
							-36.7 -1.0 ^s -41.8 ^s -4 ^m -15.0 ^s	

67

Date Fri - Sat, July 3/4, 1953 Observer Wm - Hr Julian Day 195300

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Filter Angle Incl.
[20186	HD 105020	12 ^h 00.4	+29° 04'	I-12.5	103e-0	0.008	+21.2	21 ^h 05 ^m	22 ^h 50 ^m	4	S 15° W
[20187	HD 143688	15 ^h 56.8	+24° 44'	"	"	"	+21.02	22 ^h 56 ^m	01 00	"	
[20188	" 185269	1933.2	2817	"	"	"	20.8	01 06	01 44	1	
[20189	" 185229	1933.3	2608	"	"	"	20.9	01 48	02 26	"	
20190	185982	1936.7	2729	"	"	"		02 30	03 31	2	
	<i>Faint</i>	<i>Faint</i>	<i>Faint</i>	<i>Faint</i>	<i>F.B.</i>						

Dome Temp. 62° F

Focus 12.943

Dome Temp. +54

Transparency Conditions Good

48

0302 Transparency, as good as I have ever seen it, except for a few small low in S.N.

Reading Time P.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5h 15m W	+28° 43'	0-1	8.9	K0	2-2-2	AG 25 fct 2	Flexure good
0330 W	+24° 34'	0-1	8.9	K0	2-2-2	AG 25 fct 8	Plate badly fogged, but measurable. (Slide drawn too str. in light)
0037 W	28 2-3	0	*7.9?	G0	2-2-2	" " S-72 ^{mag. 7.2} * Is this supposed to be 7.73???	mult too str.
0120 W	26 14	0	8.00	G5	2-2-2	" " " 8	str.
0220 W	27 35	0	8.56	G5	2-2-2	" " " 2	str.
					4/3	" 9.	all right

1 P.H. in frige

Dome Temp. 64°F

Focus 12.943

Dome Temp. 60°F

about 200 visitors. showed
E Lyrae with 74" (seeing
fairly good!!) and later
with 4" we & BK.

Transparency Conditions

scattered clouds, especially
south and near horizon, after
22^h 00^m transparency good.

50

some clouds gave trouble except in low alt. present.
about 23^h 18^m and
again 24^h 10^m. Visibility at 14 miles.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 32 W	+24° 37'	0-1	8.8	K ₂	2 ^s -2 ^s - ^s	Set 2; AG-program. ^{0^h 30 - 1^h 15} scattered clouds Forgetful about the last ones	v good
0 37 W	+10 16	1	5.78	F ₂	2-2-2	set 5 Id. v. lsc.	v good
0 20 E	+08 57	0	70-75	A0	2-2-2 6/4	set 2 EE Peg. After a few minutes of exp. completed fine 2 ³⁵ again overcast Feb 2 ³⁰	fine
The same trouble with dec-motion as before							
<div style="display: flex; justify-content: space-around;"> <div>July 6</div> <div>ME +0.3^s</div> <div>SC +1.8^s</div> <div>MW +19.3^s</div> <div>SW +0.6^m</div> <div>S -23^s</div> <div>NE +0.5 -24.8</div> </div>							

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

Focus 12.943

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

Transparency Conditions *Good*

52

23^h very strong double air-mass arc
This magnificent pale-green arc across
the whole northern sky lasted until dawn.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
21 ^h 7	$+25^{\circ}39'$	0	8.5	K2	2-2-2	AG 25 Set 2	flexure fine														
22 ^h 12	-	0-1	6.8	M2	6	St. Vel Set 8	long														
23 ^h 40	$+26^{\circ}35'$	0	8.9	K2	2-2-2	AG 25 Set 2	fine														
00 33	$+27 47$	1	8.49	G0	2-2-2	" Set 8	fine														
01 6	-	$1\frac{1}{2}$	8.12	G5	2-2-2	" Set 2	fine														
01 55	$+26 13$	2	8.61	K5	2-2-2	" Set 8	good														
02 30	$+30 26$	$2\frac{1}{2}$	8.61	K2	2-2-2	" Set 2	fine														
03 09	$+27 18$	$2\frac{1}{2}$	8.91	K0	2-2-2	" Set 8	fine														
03 41	$+29 26$	2	8.33	K0	2-2-2	" Set 5 plate winded 20102	fine														
03 50	0 55W	$2\frac{1}{2}$	7.0 7.5	A0	3-3	Bakos' Binary. Set 2															
03 54	0 59W	$2\frac{1}{2}$	"	"	6	" Set 5															
					6-4	Declination axis seems to be dripping oil at north-west corner of south pier. Dome-turning relays failed to work once.															
						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> <td>S</td> <td>MC</td> </tr> <tr> <td>July 8</td> <td>-2.6</td> <td>+03.7</td> <td>+10.2</td> <td>+5.2</td> <td>+14.5</td> <td>-0.5</td> </tr> </table>	MC	SC	MTW	STW	SW	S	MC	July 8	-2.6	+03.7	+10.2	+5.2	+14.5	-0.5	
MC	SC	MTW	STW	SW	S	MC															
July 8	-2.6	+03.7	+10.2	+5.2	+14.5	-0.5															

53

Date Wed. July 8-9 1953 Observer Wm-L-Hv Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
[20204	AG. 6249	12 43.4	25 41	I-12 $\frac{1}{2}$	E-10340	set 008	+22.8	21 00	22 30	1
[20205	V 805 AQL	19 00.7	-11 48	"	"	"	+22.7	22 36	23 08	1
[20206	V 548 Cyg	19 54.6	+54 32	"	"	"	+22.6	23 14	00 24	2
[20207	H.D. 187 548	19 45.4	28 21	"	"	"	22.7	00 32	01 14	
[20208	" 187 565	19 45.5	29 08	"	"	"	22.5	10 17	02 27	3
[20209	" 197 514	20 39.1	26 54	"	"	"	22.2	07 37	01 32	
	<i>Film Test</i>				<i>O.T.B.</i>					

July 9

Dome Temp. ~~46.5°F~~
 Focus ~~12. A73~~
 Dome Temp. ~~75.40~~

9.7.84

Transparency Conditions *Excellent*

54

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 50	4 33W	25 23	0	8.99	K ₂	2-2-2	A.G. 25 Lt 2	l. weak
23 08	1 09E	-11 45	0	7.8-8.5	A?	2-2-2	Lt 8 Eclipsing Binary	fine
00 34	30 42E	54 39	0	8.9-9.7	A?	2-2-2	Lt 8 Eclipsing Binary	strong
01 17	0 17W	28 28	0	8.26	G-5	2-2-2	A.G. 25 " 8	strong
01 35	0 30W	29 14	0	8.83	G-0	2-2-2	" " 2	two stars at mount
01 40	0 140W	27 03	0	8.72	M ₃	2-2-2	" " 7	fine
						4/3	" 9	ok.
							1 P.H. + 8.	
Changed to I-25 (I-12 Tilt was 20.35 focus " 12.943)							2 I-25 Tilt 23.15. Focus.	

Dome Temp. +62°F

Focus.....15.698

Dome Temp. +56°F

Transparency Conditions.....Clouds near horizon in all directions except N

8

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
12 ^h	0 ^h 49 ^m E	+5° 0'	0!	7.8/8.1	F5	8-8	Let 2 Ed. Bin. 21 ^h 40 clouds. All under pass 21 ^h 20 ^m	l weak														
						12-7	Let 8	central bin														
0100	0050W	-11° 46'	0	7.8/8.5	A2	5-5-5	Let 2 Ed Bin. 0015 clouds	good														
0247	0247W	+04 58	0	7.8/8.1	F5	5-5-5	" 7 Ed. Bin. 0110 clearing off. prejudging	weak*														
0305	0210W	+10 18	1	6.78	F8	5-5-5	" 2 Std. Vel.	l														
0341	0005E	04 27	0-1	5.93	K0	5-5-5	" 7 " "	l														
						12/7	" 9															
							* Motion of plate hold or flexure.															
							July 10	<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MPW</td> <td>SPW</td> <td>SW</td> <td>S</td> <td>ME</td> </tr> <tr> <td>-A.0</td> <td>+6.4</td> <td>+6.0</td> <td>+0.4^m</td> <td>-4^s</td> <td>-1.0</td> <td>+1.0^z</td> </tr> </table>	MC	SC	MPW	SPW	SW	S	ME	-A.0	+6.4	+6.0	+0.4 ^m	-4 ^s	-1.0	+1.0 ^z
MC	SC	MPW	SPW	SW	S	ME																
-A.0	+6.4	+6.0	+0.4 ^m	-4 ^s	-1.0	+1.0 ^z																

Dome Temp. +68

Focus 12-943

Dome Temp.

Transparency Conditions Haze & some thin cloud. 58

July 10 Changed to 12 1/2 Camera

25" was Focus 15.698
Gilt 23.15

12 1/2" is Focus 12.943
Gilt. 20.35

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	07E	+04 57	0	7.8/8.1	F5	4-8	set 2 Ecl. Bin.	fine
02	17W	+24 32.5	0-1	7.56	K2	2-4	" 2 AG 25	very good
02	56W	25 35	0	8.82	G5	2-2-2	" 8 " "	fine
02	26W	-11 45.5	0	7.8/8.5	A2	4-4-4	" 8 Ecl. Bin.	Q. weak
00	10W	27 20	2-1	7.7-9.6	K0	2-2-2	" 2 A.G. 25	too strong
00	54W	29 56	1	8.93	K2	2-2-2	" 7 - " -	through
00	57W	04 57	0	7.8/8.1	F5	4-4-4	set 2 Ecl. Bin.	too weak
02	28W	54 40	1-2	8.9/9.7	A0	4-4-4	set 8 - " -	fine
01	14W	08 57	1	7.4/7.5	A0	2-2-2	set 2 - " - EE P. eq.	strong
03	15W	10 17	1	5.78	F8	6	6 Ad. veloc.	too strong
						4/3	9	O.K.
							P.H. # 1 Saturn	
							# 3 Cramer	

Dome Temp. +70°F

Focus..... 12.943

Dome Temp. +68°F

Transparency Conditions.....

60

Sat. Jul. 11 - Rain. Showed 74" to 25 visitors N-Mo-Bk.

Jul. 12/13: At beginning: sky clearing, scattered clouds

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 ^h 52 ^m	1 ^h 27 ^m W	+26° 71'	1	8.3	G5	2-2-2	AG-25 Set 2 start interruption by clouds...	fine
0 ^h 12	0 18 W	+30° 17'	1	8.4	G5	2-2-2	AG-25 Set 8 several long interruptions by clouds midexposure ~ 23 ^h 20, off exposure time ~ 25 min, quite uncertain	A. deck
							clouds are forming all over the sky, dome closed 0 ^h 45 ^m	
							had for experiment July 13	
							Pl. h. $\frac{2}{4}$ } 100 < 0	
							3 Lower H ₂ -speed.	
							July 13	
							NE SC H ₂ W S-TU S SW NE	
							-6.7 +11.1 ^S -5.5 +.2 ^m -2.9 0 +21.0 ^S	

Date *Mon. July 13-14, 1953* Observer *HSH-L-Bk* Julian Day.....

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
20227	NGC 5904	15 16.0	+02 16	Newt				21 23	21 26	2
20228	5634	14 27.0	-05 45	"				21 32	21 52	1
20229	6171	16 29.7	-12 57	"				21 57	22 17	2
20230	6366	17 25.1	-05 02	"				22 26	22 46	1
20231	6712	18 50.3	-08 47	"				22 51	23 07	1
20232	6838	19 51.3	+18 38	"				23 12	23 16	1
20233	6426	17 42.4	+02 12	"				23 23	23 47	2
20234	6712	18 50.3	-08 47	"				23 51	00 07	1
20235	6838	19 51.3	+18 38	"				00 11	00 15	2
20236	6535	18 01.3	-00 18	"				00 19	00 43	1
20237	6838	18 50.3	-08 47	"				01 02	01 06	1
20238	NGC 7023	21 01.0	+68° 00'	"				02 00	03 00	1
20239	7023	"	"	"				03 04	03 12	2

Dome Temp. +74°F

Transparency Conditions

Focus

Dome Temp.

Reading Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	19W	+02 18					Focused on 6712.	
02	34W	-05 44						
00	57W	-12 84					Have to lift seeing in south.	
00	30W	-05 00					Repositioned on 6712	
00	33E	-08 45						
01	22E	+18 40						
01	13W							
00 57	00 26W	-08 45						
00 57	00 26E	+18 40					Program limited all night + by atmospheric seeing. 6712	
01 00	01 51W	-00 16					Seeing difficult because diff. dropped at 6712. on 6712 Set on 6712 but totally invisible. Night turned over to EW at this point	
01 06	0 24W							
01 09	0 09W							
01 11	0 25W							

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Date Tue-Wed. July 14-15, 1953 Observer S-BK-Hr Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.1
20240	NGC 5904	15 16.0	+02 16	Haufl.				22 10	22 13	2
20241	6171	16 29.7	-12 57					22 16	22 56	1
20242	6093	16 14.1	-12 52					22 40	22 50	2
20243	6712	18 50.3	-08 47					22 57	23 11	2
20244	6838	19 51.3	+18 28					23 14	23 18	2
20245	6366	17 45.1	-05 02					23 26	23 28	2
20246	6426	17 42.4	+03 12					23 42	00 02	2
20247	6712	18 50.3	-08 47					00 08	00 22	2
20248	6838	19 51.3	+18 28					00 29	00 32	2
20249	6779	19 14.6	+30 05					00 37	00 43	1
20250	6760	19 02.6	+00 57					00 48	01 28	2
20251	6712	18 50.3	-08 47					01 31	01 45	2
20252	6838	19 51.3	+18 28					01 51	01 54	2
20253	NGC 7023	21 01.0	+68 00					02 11	03 05	2
20254	- " -							03 08	03 22	2

Dome Temp. +76°

Focus.....

Dome Temp. +72

Transparency Conditions *Hazy*

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Thunderstorm in West and complete cloudiness for 1st hour of night.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12	02 10W	02 20					Focused on β Ophi	
12	01 18W	-12 53						
12	01 48W	-22 48					Refocused on η Ser	
12	0 33W							
12	01 20 E							
12	-7 26W							
12	01 34W	+03 15						
12	00 44W	-08 45						
12	00 05 E	+18 42					Refocused on ζ Ser	
12	00 41W	+20 09					Heavy haze south of	
12	01 32W	+01 00					equator all night	
12	02 06W	-08 44					Refocused on η Ser	
12	01 16W	+18 43					Heavy haze	
12	01 18W	+67 57					night turned over to EW here	
12	01 35W						July 15	

$\begin{matrix} \text{HC} & \text{SC} & \text{MTW} & \text{STW} & \text{SW} & \text{S} & \text{NE} \\ \text{July 15} & -8.0 & +14.0 & -16.2 & 0^m & -15.5 & -11.2 & +2.2 \end{matrix}$

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1953

Date Wed. Thurs. July 15-16. Observer S. - Hr. - Mo. Julian Day 2434574.

Plate No.	Object	R.A.	Declination	Inst.	Emulsion	Slit	Temp.	Starting Time			Ending Time			P.I.	Hour Angle Est.
		1900- 1950	1900- 1950					E.S.T.			E.S.T.				
								h	m	s	h	m	s		
20255	NGC 5904	15 16.0	+02 16	Newt.	E103a-0			21	22	19	21	25	19		125W
20256	6366	17 25.1	-05 02					21	41	25 ¹⁰	21	51	25		017E
20257	6356	17 20.7	-17 46					21	57	50 ¹⁴	22	11	50		008E
20258	6712	18 50.3	-08 47					22	15	35 ¹²	22	29	00		005
20259	6838	19 51.3	+18 38					22	15	35 ⁴	22	27	35		147E
20260	IC 1276	18 08.0	-07 16					22	37	57 ³⁰	22	41	57		53E
20261	NGC 6535	18 01.3	-00 18					22	54	54 ²⁰	23	24	54		034W
20262	6712	18 50.3	-08 47					23	28	05 ¹²	23	48	05		03W
20263	6838	19 51.3	+18 38					23	55	46 ⁴	00	07	46		034W
20264	"	"	"					00	14	14 ⁴	00	17	14		017E
20265	6760	19 08.6	+00 57					00	20	47 ⁴⁰	00	24	47		009E
20266	6626	18 21.5	-24 54					00	40	24 ⁸	01	20	24		29W
20267	6656	18 33.3	-23 58					01	24	50 ⁶	01	32	50		228W
20268	6717	18 52.1	-22 47					01	36	56 ²⁴	01	42	56		226W
20269	6712	18 50.3	-08 47					01	46	49 ¹⁴	02	10	49		236W
20270	6838	19 51.3	+18 38					02	20	34 ⁴	02	34	34		302W
								02	38	35	02	42	35		208W

Dome Temp... +78°

Transparency Conditions Poor.....

Focus.....

Dome Temp.....

574

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 25	1 25 W						Focused on α Serpentis	
22 51 25	0 17 E							
22 1 50 29 04	0 08 E 05							
22 57 35	1 47 E						Maximum eastern Hr \leftarrow for NGC 6712	
22 41 57	1 53 E						Refocused on γ Sagittae.	
23 24 54	0 34 W							
23 48 5	1 03 W							
00 07	0 34 W							
00	0 17 E						Refocused on γ Sagittae.	
00 44	0 09 1/2 E						Repeated - Guide star jumped - Mo walked into spectrograph	
01 22 24	1 29 W							
01 32 50	2 28 W							
01 42 00	2 26 W							
01 50 40	2 36 W							
02 24 10	3 02 W						Refocused on ζ Aquilae	
02 41 30	2 08 W							

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Set decl. 03' N of tabulated positions

1953

(We)

Date Thurs. - Fri. July 16 - 17 Observer S. - Hr. - Mo. Julian Day 2434575

Plate No.	Object	R.A.		Declination		Inst.	Emulsion	Slit	Temp.	Starting Time			Ending Time			P.I.
		1900-1950	1950	1900-1950	1950					h	m	s	h	m	s	
20274	NGC 5904	15 16.0		+02 16		Newt	E103-a-0			21	23	18	21	26	18	
20275	6171	16 29.7		-12 57						21	29	50	21	41	50	
20276	6366	17 25.1		-05 02						21	46	07	21	56	07	
20277	IC 1276	18 08.0		-07 14						22	00	39	22	36	39	
20278	NGC 6712	18 50.3		-08 47						22	41	50	22	53	50	
20279	6838	19 51.3		+18 38						22	57	25	23	01	25	
20280	6342	17 18.2		-19 32						23	06	12	23	30	12	
20281	IC 1276	18 08.0		-07 14						23	36	25	00	12	25	
20282	NGC 6712	18 50.3		-08 47						00	15	05	00	27	05	
20283	6838	19 51.3		+18 38						00	30	30	00	34	30	
20284	6760	19 08.6		+00 57						00	37	44	01	17	44	
20285	6717	18 52.1		-22 47						01	23	47	01	43	47	
20286	6712	18 50.3		-08 47						01	49	10	01	59	10	
20287	6838	19 51.3		+18 38						02	02	45	02	04	45	
20288	NGC 7023	21 01.0		+68 00						02	22	13	03	08	13	
20289	"	"		"						03	09	30	03	23	30	

Dome Temp.
Pers.
Dome Temp.

Hour Angle
End

31W
0.33W
0.68E
0.10E
0.36E
1.30E
1.33W
0.95W
0.58W
0.04W
1.30W
0.13W
0.30W
0.35W
1.29W
0.44W

Dome Temp. $+81^{\circ}\text{F}$

Transparency Conditions *Better than previous night.*

Focus

Dome Temp.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 26 18	1 30 W						Focused on α Serpentis	
21 41 50	0 33 W							
21 56 07	0 08 E							
22 36 39	0 10 E							
22 53 30	0 36 E						Field obliterated by locomotive smoke. Refocused on η Serpentis	
23 01 23	1 30 E							
23 30 00	1 33 W							
00 12 29	1 25 W						Refocused on η Serpentis.	
00 37 09	0 58 W							
00 34 30	0 04 W							
01 17 44	1 30 W							
01 43 47	2 18 W						Refocused on η Serpentis.	
01 51 10	2 30 W						The best night of the series for transparency	
02 04 45	1 35 W						Night turned over to E W here	
03 08 30	1 29 W							
03 27 33	1 44 W							

Dome Temp.....

Transparency Conditions

Focus.....

Dome Temp.....

Ending Time
L.S.T.

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

Spec. Temp +28.

at 1/2						at HA 0 06 E comp 4S	} developed (too hot)
" 3 1/2						" " 0 24 W "	
" 6 1/2						" " 2 07 W "	
" 9 1/2						" " 2 57 W "	
						" " 3 47 W "	← flexure

Date Fri July 17-18, 1953 Observer Wm - PKC ^{Hd} Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
20290	μ Herc	17 42.5	27 47	I-12	E103a0	008	30.2	22 56	22 58	4
								22 58 ³⁰	23 03 ³⁰	
								23 05 ³⁰	23 08 ⁴⁵	
20291	γ Dra	17 54.3	51 30	"	"	"		23 15 ⁵⁵	23 16 ²⁰	2
								23 18 ⁰⁰	23 19 ⁰⁰	
								23 20 ⁰⁰	23 20 ¹⁰	
20292	β Oct	18 41.9	-4 51	"	"	"	30.5	23 29 ⁰⁰	23 32 ⁰⁰	4
								23 33	23 39	
								23 40	23 49	
20293	θ Lyr	19 12.9	37 57	"	"	"	30.7	23 57	00 03	2
								00 03 ³⁰	00 12 ⁰⁰	
								00 13 ⁰⁰	00 23 ⁰⁰	
20294	16 Cyg (Pee)	19 39.2	50 18	"	"	"	30.8	00 33	00 57	4
								00 58	01 18	
								01 18	01 58	

Dome Temp. 80°F
 Focus 12.955
 Dome Temp. 76°F

Transparency Conditions *poor*

Ending Time L.T.	Hour Angle End	Declination	Seeing	Ftg. Mag.	Sp.	Comp.	REMARKS	Quality
22 58	38.5 W		2	4.3	G5IV	8	Sat 1 Stol lum. clouds	
23 03	44 W					—	" 5 clouds	
23 08	49 W					—	" 9 clear	
23 16	46 W		2	3.6	K5III	8	" 1 " clear	
23 19	49 W					—	" 5 "	
23 20	50 W					—	" 9 "	
23 32			2	5.1	G5II	8	" 1 " haze	
23 39		-4 50				—	" 5 " + clouds	
23 49	W 29 ^m					—	" 9 clouds	
00 03				5.5	K0II	8	" 1 " much cloud.	
00 12		+38 03				—	" 5 "	
00 23	W 33 ^m					—	" 9 "	
00 30		+50 04	1	6.9	G2V	4-4	" 1 " "	
						—	" 5 " in	
	1 42 W					—	9	

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp.....

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12:44		+38 30	1	6.8	K5 V	8	Set 1 cloudy	
12:44						-	5	
12:44	34 W					-	9 transparency improved	
12:44			1	4.4	G8-II	8	1	
12:44						-	5	
12:44	43 W					-	9	
12:43	52 W	+08 56	0	7.0-7.5	A0	2-2-2 4/3	much cloud again	
							PH. No 4 loaded	

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Date Mon. Tues, July 20-21/53 Observer L.H. [unclear] Julian Day 144

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20299	31 Com	12 46.8	+28 05	I-12	E103.0	008	+28.0	20 33	20 35	1
	"	"	"	"	"	"		20 34	20 35	
	"	"	"	"	"	"		20 35 ³⁰	20 37	
	"	"	"	"	"	"		20 37 ⁴⁵	20 40 ⁴⁵	
	"	"	"	"	"	"		20 41 ¹⁵	20 45 ¹⁵	
	"	"	"	"	"	"		20 46 ¹⁵	20 51 ¹⁵	
20300	§ Boo A	14 46.8	+19 31	"	"	"		21 00	21 00	2
	"	"	"	"	"	"		21 01 ¹⁵	21 01 ⁵⁰	
	"	"	"	"	"	"		21 02 ¹⁵	21 03 ¹⁵	
	"	"	"	"	"	"		21 03 ²⁰	21 04 ⁵⁰	
20301	HD 142418	15 49.4	29 46	"	"	"	+28.0	21 12	22 08	4
20302	0 Lyr	19 12.9	37 57	"	"	"	+28.0	22 13 ²⁵	22 13 ⁴⁸	1
								22 14 ¹²	22 15 ⁰²	
								22 14 ¹⁸	22 15 ³⁸	
								22 15	22 16	
								22 16 ⁴³	22 18 ⁴³	

Dome Temp. 80 F

Transparency Conditions *Good*



ocus 12.945

Dome Temp.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 30 S		27 49	1	5.7	G ₀ III	-	Set 0 Std Lum	<i>fine</i>
20 35			1			-	2	
20 37			1			-	4	
20 40			1			-	6	
20 45	5 32 W		1			-	8	
20 51			1		G ₀ IV	-	10	
21 00			1			-	Set 0	<i>fine</i>
21 01			1			-	3	
21 03			1			-	7	
21 05	52 W	19 17	1			-	10	
22 08	52 W	29 36	1	8.82	K ₀ II	2-2-2	Set 2 A.G. Prog.	<i>fine</i>
22 13					K ₀ II		Set 0 Std Lum	<i>good</i>
22 15							3	
22 17							7	
22 19	22 E						10	

Date 2nd time (cont'd) July 20, 1953 Observer L.H. Cr. Julian Day -

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Exposure in
20303	α Lya	19 35.6	+17 47	1-12h	103a-0	008	27.9	22 23 ¹⁵	22 23 ⁴⁵	2	
								22 24 ¹⁰	22 25 ⁰⁰		
								22 25 ¹⁸	22 26 ³⁸		
								22 26 ⁵⁵	22 28 ⁵⁵		
20304	β Lya	19 32.6	+69 29	"	"	"	"	22 38 ¹³	22 38 ⁴⁸	1	32 E
								22 39 ²⁶	22 40 ¹⁶		
								22 40 ⁴¹	22 42 ⁰¹		
								22 42 ¹⁷	22 44 ¹⁷		
20305	HD. 184150	19 28.0	29 59	"	"	"	+27.9	22 51	23 41	4	E +
20306	61 Cyg A	21 02.4	38 15	"	"	"	+28.0	23 45 ³⁵	23 47 ³⁵	1	32 E
								23 48 ¹⁶	23 51 ¹⁶		
								23 51 ³⁷	23 56 ³⁷		
								23 57 ⁰⁹	00 04 ⁰¹		
20307	ξ Cyg	21 08.7	29 49	"	"	"	+28.0	00 09 ⁰⁴	00 09 ¹²	2	32 E
								00 09 ⁴⁹	00 09 ⁰⁵		
								00 10 ³⁴	00 11 ⁰⁶		
								00 11 ³¹	00 12 ²¹		

Home Temp.....

ocus.....

Home Temp.....

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 03				5.0	G ₀ II		Set 0. Sea Lum	fine
22 06							3	
22 26							7	
22 26	32 E						10	
22 27				5.8	K ₀ V		Set 0 "	good
22 28							3	
22 29							7	
22 34	1 12 E	+ 69 33					10	
23 41	13 E	+ 30 04	1	8.44	K ₂	2-2-2	Set 8 A.G. Prog. Haze	good
23 47			1	6.8	K ₅ V		Set 0 Sea Lum Haze	good
23 51							3	
23 56							7	
23 56	1 24 E						10	
23 57			1	4.4	G ₈ II		Set 0 "	fine
23 58							3	
23 59	1 22 E						7	
24 00							10	

Bubbles on emulsion

Date Mon. Tues July 20-21/5 Observer H. C. - H. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Mer Angle Ind
20308	E Peg	21 39.3	-9 25	1-12 1/2	103a-0	008	28.0	00 18 ⁵⁷	00 19 ⁰²	4	
								00 19 ⁴⁷	00 20 ⁰²		
								00 20 ⁴⁵	00 21 ⁰⁵		
								00 21 ⁵¹	00 22 ²¹		
								00 21 ⁵⁵	00 22 ²⁵		
20309	HR 8374	21 53.8	+16 18	1-12 1/2	"	"	28.0	00 39 ⁵⁵	00 48 ²⁵	1	
								01 16	01 28		
								01 31	01 31		
								01 40	01 50		
20310	HR 8832	23 08.5	+56 37	"	"	"	"	02 04 ³⁰	02 09 ³⁰	2	
								02 07 ⁰⁵	02 09		
								02 11	02 14 ³⁰		
								02 16	02 17		
20311	X Peg.	00 09.4	+19 39	"	"	"	"	02 50	02 53 ³⁰	1	
								02 54	02 53 ³		
								02 57	03 06 ³⁰		
								02 57	03 06		

Home Temp. 73°

Transparency Conditions

84

Docus

Home Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1	3.5	K ₂ I _b		Set 0	weak
						3	
						7	
42.5 E						10	
		1	7.4	G ₈ I _b		Set 0	weak
		0				3	
		0-2				7	
025 E		1-2				10	
		0	6.7	K ₃ V		0	good
						3	
						7	
113 E		0!				10	
		0!	6.7	M ₂ I		0	weak
						3	
						7	
125 E						10	

Dome Temp.....

Transparency Conditions *Fair*.....

86

Focus.....

Dome Temp.....

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				0!	4.6	K ₃ III		0 Std. Lum.	<i>fine</i>
								3	
								7	
		114E						10 Haze & Cloud.	
								P.H. # 1, 2, 4 loaded E10300.	
								# 3 loaded Hi Speed.	

Date July 11, 1953 Tue. U.S. Observer P.M. - Mo. Julian Day 2434580

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20313	HD 149474	16 30.0	+25 41	I 12 1/2	E 102-a-0	set '008	29.5	20 48	22 00	1	
20314	HD 186223	19 38.0	+26 57	"	"	"	29.4	22 10	23 20		0 2 E
20315	HD 188259	19 49.2	+26 15	"	"	"	29.3	23 25	00 15	2	0 04 V
20316	HD 189884	19 57.2	+26 54	"	"	"	29.3	00 26	00 46	"	0 27 W
20317	HD 190885	20 02.0	+27 51	"	"	"	29.3	00 49	01 25	4	1 01 W
20318	AG 11036 South, following	20 10.6	+26 29	"	"	"	+29.3	01 29	02 05	"	1 33 W
20319	AG 10838	20 01.8	+29 26	"	"	"	+29.2	02 10	03 26	1	3 03 W
20320	HD 212943	22 22.8	+04 12	"	"	"		03 40 ^{45s}	03 41	2	
	"	"	"	"	"	"		03 42 ^{1m}	03 43		
	"	"	"	"	"	"		03 44 ^{2m}	03 46		02 W
20321	F E Peg.	21 35.1	+08 44	"	"	"		03 57 ^{6m}	04 03	4	
	"	"	"	"	"	"		04 04 ^{2m}	04 06		3 09 W
	Focus Test	O.T.B.					+29.1				

Dome Temp. 78

Focus 12.945

Dome Temp. +71° F.

Transparency Conditions *some haze + light clouds*

88

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 08 W	25 35	0	8.84	K2	2-2-2	AG 25 set 1	flexure 1. wk.
0 40 E	27 03	1	8.93	K0	2-2-2	" set 7	fine
0 04 W	26 22	1-0	8.57	K0	2-2-2	" set 2	fine
0 27 W	+27 03	2 1/2	8.23	K2	2-2-2	" set 8	good
1 01 W	+27 58	2 3/4	8.96	K5	2-2-2	" Set 2	good
1 33 W	+26 36	2 1/2	8.93	G5	2-2-2	" Set 8	fine
3 03 W	+29 35	2	9.44	G5	2-2-2	" Set 2	weak
		3	5.93	K0	6	Std Vel.	1. wk
		3	"	"	6	"	good
1 02 W		3	"	"	6	"	good
	+08 56	3	7.075	A0	2-2-2	Set 2 PH #1 E 103-a-0	1. wk.
2 09 W		3 x	"	"	6	set 4 PH # 7 711	too wk.
					4-3		
						set 10	
						Me 5c ₃ H 7W 57W 3 ₃ 11	
						July 22 -15.3 ^s +24.0 +14.2 +.6 ^s -21 ^s -8.2 +47.2	

Loud crash at 2:27. I presumed it was a sector falling shut and therefore increased exposure time. On checking at end of exposure I found all sectors solidly hooked.

Date Thurs July 23-24/53 Observer 50 H-H Julian Day 2474.5825

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20322	HD 123612	14 03.6	24 47	I-12	E103aD	008	25.9	20 54	21 24	1
20323	AG 6888	14 29.9	24 51	"	"	"	25.0	21 40	22 40	2
20324	HD 184719	19 30.7	28 56	"	"	"	25.1	22 51	23 41	2
20325	E Per	21 39.2	49 25	"	"	"	25.5	23 47 ²⁴	23 47 ⁵⁴	4
								23 48 ²⁰	23 49 ¹⁰	
								23 50 ³⁰	23 51 ⁵⁰	
							25.8	23 52 ³⁵	23 54 ³⁵	
20326	AG 10151	19 31.7	30 10	"	"	"		00 04	01 21	1
20327	AG 10601	19 51.3	29 44	"	"	"	25.7	01 34	03 14	1
					OTF					

Dome Temp.

Focus 12.2

Dome Temp.

Hour Angle
Endk_m

1306

113 56

2 4

1139

210 W

Dome Temp. 66 F
 Focus 12.945
 Dome Temp. 60 F

note that all who recorded focus at all since July 12-13 write 12.915!

Transparency Conditions Good
 Correction listed for July 22 for ME was 1 min wrong when applied to Sid. electric clock.
 Found slit in a curious state of closure!

90

Ending Time E.S.T.

P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 24	W 3 ^h 06	24 32	0	7.6	K ₂	2-4	set 2 AG prog checking other things & 20 false start at setting 8 on this plate	good
2 30	W 3 56	24 35	0	8.7	G ₀	2-2-2	AG prog. Flexure	fine
3 41	E 4 ^m	29 01	0	8.51	K ₂	2-2-2	"	fine
3 47			0	3.5	K ₂ IB		Std lum. set 0	
3 49			0				" 3 1/2	
3 51			0				" 6 2/3	
3 55	9 1 59	9 38	0				" 10.	
	0139 W	30 16	0	8.98	K ₀	2-2-2	A.G. 25 set 2.	fine
	2 10 W	29 51	0	8.98	K ₂	2-4	" " " 7 4/3 " 9. Much cloud. Quite Windy.	good
							P.H. #2 E103-a-0	
							P.H. #3 Hi Speed.	
							July 24 H _c S _c H ₁ S ₁ S ₂ ME -18.2 +30.6 +3.3 +0.3 +18 ^s -11.5 ^s -0.3 ^s	

91

Date Fri-Sat July 24/25 1952 Observer Br - Mo Julian Day 2434583

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20328	HD. 150102	16 33.8	+27 15	12 1/2	E103-a-0	22 1008	+20.8	20 40	21 34	1	3:5
20329	HD. 175204	18 49.2	+25 15	"	"	"	20.8	21 40	22 30	1	4:5
20330	AG. 9950	19 11.2	+26 09	"	"	"	20.6	22 35	23 35	4	5:5
20331	HD. 189087	19 53.2	+29 23	"	"	"	20.8	23 29	00 33	1	6:31W
20332	HD. 187614	19 45.8	+26 30	"	"	"	+21.0	00 41	00 52	1	5:1
20333	AG 10837	20 01.8	+29 26	"	"	"	+20.8	01 00	02 54	1	1:43
20334	HD 193488	20 15.4	+27 06	"	"	"	+20.8	01 57	02 39	2	2:15W
20335	HD 195216	20 24.9	+27 31	"	"	"	+20.8	02 42	03 22	"	2:49
20336	HD 198483 HD 206155	20 45.5	+25 24	"	"	"	+20.8	03 26	03 48	4	2:59
20337	EE Pegasi	21 35.1	+08 44	"	"	"		03 52	03 62	2	2:18W
20338	HD 212943	22 22.8	+04 12	"	"	"		04 06	04 09	1	1:37.5W
	Focus Test	O.T.B.					+20.8				

Dome Temp. 61°F

Transparency Conditions *good, clear, variable*

92

Focus 12.945 I read 12.942 - Mo

Dome Temp. +56°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 50W	27 08	0	8.42	M0	2-2-2	alt. 2 AG-25	good
00 19E	25 17	0	8.56	G5	2-2-2	8 "	b. str - fine
00 04W	26 14	0	8.84	K0	2-2-2	2 "	fine
0 31W	29 41	0-1	8.56	G5	2-2-2	8 "	fine - b. str
0 57W	+26 57	2	7.44	G5	2-2-2	2 "	fine - b. str
1 43W	+29 35.5	1-2	8.84	G0	2-2-2	8 " sp. perhaps not normal G0(?)	fine
2 15W	+27 15	1-2	8.57	G5	2-2-2	2 " sp. much earlier than G5 poor guiding and comp. by str.	str
2 49W	+27 40	2	8.68	K5	2-2-2	8 " poor guiding	good
2 54W	+25 34	2	7.66	G5	2-2-2	2 "	fine
2 18W	+08 55	2	7.0 -7.5	A0	2-2-2	5 Bacos' Binary	fine - b. str
1 37.5W	+04 26	2	5.93	K0	3-3	2 Sid Vel	fine
					4-3	9 PH #3 - Cramer Plate	Center at the end

93

Date Sat. Sun. July 25-26 1953 Observer Ma Julian Day 2429.589

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20339	EE Peg.	21 35.1	+08 44	1-12 $\frac{1}{2}$	Hi Speed	0.008	+20.1	01 23	01 41	3	CCW
20340	X Peg	00 09.4	+19 39	"	F103-a0	"		02 20 15	02 21 15	1	
	"	"	"	"	"	"		02 24 20	02 26 20	"	
	"	"	"	"	"	"		02 28	02 31	"	
	"	"	"	"	"	"	+20.1	02 33	02 37	"	38E

Dome Temp... +65°

Focus... 12.942

Dome Temp... +63°

Transparency Conditions.....

Sat - Sun July 25-26 S, L, Mo + BK Heavy overcast, occasional break, ca 180⁺ visitors. Albino bird 70" moon & briefly Saturn with 4" & Mr. Clark's telescope.

Ending Time R.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
2 41	?	0 00 W	+08 57	1-2	7.0 -7.5	A ₀	2-2-2	Set 2. Fortunately this cloud break lasted 18 min.	fine																
2 45				2	6.2	M ₂ III		" 2 clouds 15° before end																	
2 46				2	"	"		" 4 ³ / ₄ clean																	
2 51				2	"	"		" 7 ¹ / ₂ clean																	
2 57		1 38 E	+19 55	2	"	"		" 10 ¹ / ₂ clean																	
3 PH. loaded - E 103a0																									
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MW</td> <td>SW</td> <td>SW</td> <td>S</td> <td>ME</td> </tr> <tr> <td>July 27</td> <td>-20.5</td> <td>+36.8</td> <td>-8.2</td> <td>+1.7</td> <td>-4.5</td> <td>+14.4</td> <td>-16.6</td> </tr> </table>										MC	SC	MW	SW	SW	S	ME	July 27	-20.5	+36.8	-8.2	+1.7	-4.5	+14.4	-16.6	
	MC	SC	MW	SW	SW	S	ME																		
July 27	-20.5	+36.8	-8.2	+1.7	-4.5	+14.4	-16.6																		

95

Date Mon., Tues. Jul. 27-28, 1953 Observer ^{SMo} We. - Mc Julian Day: 2434586

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20341	HD 120803	13 ^h 46 ^m .6	+25° 12'	I 12 $\frac{1}{2}$	E-1030-0	0.008	+25.1	20 44 ^m	21 ^h 18 ^m	3
20342	HD 120895	13 47.2	+25 11	"	"	"	+25.0	21 20	22 36	3
20343	HD 192031	20 ^h 07.7	-15 43	"	"	0.016	+24.9	22 50	01 02	2
20344	BD +4° 4762	21 49.1	+4 30	"	"	"	+24.9	01 10	04 00	2
20345	HD 206155	21 35.1	+08 44	"	"	.008	24.8	04 07	04 17	4
	Focus test	O.T.B.								

Dome Temp.

Focus 2.

Dome Temp.

Hour Angle
End

3 36W

4 50W

11 55

13 5

15 5

Dome Temp. 70°F

Transparency Conditions good

Focus 12.941

Dome Temp. 62°F

Hour Angle E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 18	3	3 ^h 32 ^m W	+24° 57'	1	8.05	K ₀	1 ^s / ₂ - 2 ^s / ₂	Set 2 AG Intended to take G. ND 20895, but set on wrong sta.	fine
2 36	3	4 50 W	+24 57	0+1	8.56	K ₀	1 ^s / ₂ - 1 ^s / ₂ - 1 ^s / ₂	" 8 " Flexure	l. note
1 12	2	00 55 W	-15 35	0	9.4	G8V	1-1-1	Set 2. Roman's High-velocity star	fine
4 10	2	02 13 W	+04 45	1	9.9	G2V	1-1-1	8 -"-	str.
04	5	02 44 W	+08 55	1	7 ⁰ / ₅	A0	2-2-2	2 EE Peg	fine data
							4/3	9	
								P.H. 1, 2 + 3 loaded with Eastm.	
								uc 30 mru spu s su ME July 29 -22.7 +46.2 -15.7 .0 -1 -15.0 +10.7	

97

Date Thurs July 30-31/53 Observer Hd - Mc Julian Day 2434589

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20346	HD 184150	19 28.0	29 59	1-12	E103a0	008	26.9	Elect. Cl. 21 52	Elect. Cl. 22 58	2
20347	AG 10154	19 31.9	+26 16	"	"	"	26.5	Elect. Cl. 23 24	00 44	"
20348	HD 191945	20 07.3	+28 52	"	"	"	26.5	00 45	01 27	3
20349	HD 197550	20 39.3	+29 51	"	"	"	26.4	01 25	02 25	3
20350	H.D. 213014	22 23.4	+16 46	"	"	"	26.3	02 30	03 04	4
20351	H.D. 30353	04 41.8	+43 06	"	"	"	26.5	03 16	04 06	4
20352	H.D. 206155	21 35.1	+08 44	"	"	"	26.6	04 15	04 55	4
	Focus test	C.T.B.								

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Cloudy earlier

Transparency Conditions

from improved later

98

Dome Temp.....

Focus..... 76 F

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12 E	+30 05	0-1	8.44	K2	2-2-2	Sid 2 AG 25 Some clouds	fine
01-21 W	+26 41	0-1	8.93	K0	2-2-2	8 11 elect. clock 4 min slow. exposure ended at 0 44 things	fine
01 26 W	+29 00	1-2	8.68	K2	2-2-2	2 11	fine
02 00 W	+30 01	1	8.81	K0	2-2-2	8	fine
00 54 W	+17 00	1	8.52	G0	2-2-2	2 Ad. velos.	fine
04 23 E	+43 10	1	8.3	G0p	2-2-2	8 Poldarman's star	str.
03 03 W	+08 56	1	7.5	A0	2-2-2	2 EE Peg	fine
					4/3	9	Antar. vel. to red
<p>P.H. No 2 + 3 headed with E ME SC HPC SPC S S July 31 -25.0 +44.1 31.0 -0.3^m -19^s -16.1^s -13.7^s</p>							

99

Date *Fri. July 31-Aug 1/53* Observer *L* Julian Day *2434590*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20353	{ HD. 182218	19 18.5	26 58	I-12 $\frac{1}{2}$	E-103A0	Set .008	+24.0	20 39	22 19	2	0 48E
20354	{ " 185289	19 33.3	26 08	"	"	"	+23.9	22 23	22 59	2	0 17E
20355	{ " 190630	20 00.8	30 14	"	"	"	+23.9	23 02	00 00	3	0 16W
	{ Focus Test					O.T.B.					

Dome Temp.

Focus *12*

Dome Temp.

Hour Angle
End

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

Transparency Conditions

Focus 12.241

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 19	2	0 42 E	27 04	0	8.91	K ₆	2-2-2	Set 2 A.G. 25 Light Clouds	fine
22 59	2	0 17 E	26 14	0	8.00	G ₅	2-2-2	Set 3 " "	fine
00 00	3	0 16 W	30 22	0	8.72	K ₀	2-2-2	Set 2 " Clouds. More clouds Flexure	good
							4/3	Set 3 star gone at 00.00	all right
								4 P.H.s loaded with E-103A0	

Date *Sun/Mon 1953 Aug 2/3* Observer *Wm - RR* Julian Day *2434592*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
[20 356	HD 15 12 56	16 ^h 41. ^m 2	+24° 46'	I-12.5	103a-0	0.008	+23.5	21 ^h 18 ^m	23 ^h 40 ^m	1
[20 357	HD 19 16 15	20 05.7	+25 15	"	"	"	+23.2	23 59	01 41	
20 358	HD 19 33 47	20 14.7	+26 40	"	"	"	23.2	01 45	02 05	2
20 359	AO 11 546	20 33.4	+29 50	"	"	"	22.8	02 12	03 56	
20 360	HD 30 353	04 41.2	+43 06	"	"	"	23.2	04 06	04 30	2
	Focus test	O.T.R.								

Dome Temp. *12*
Focus
Dome Temp.

Hour Angle
End
21 25 W
2 01 W
2 32
2 49
2 46 E

Dome Temp. 66°
 Focus 12.942
 Dome Temp.

Sat-Sun Aug 1-2, West Bk
 Heavy overcast, 14 visitors
 slides, followed by showing
 of telescope.

Transparency Conditions cloudy at beginning,
 starting of exposure in larger back.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
23:40	3 ^h 25 W	+24° 37'	1-0	8.8	42	2-2-2	Ab 25 set 2 New clouds soon after start. Heavy clouds of changing transparency during whole exp.	good																
	2 01 W	+25 00	2	8.29	K0	2-2-2	" 8 too much cloud	poor guiding fine																
	2 17 W	26 50	2	8.66	110	2-2-2	" 2 few clouds	fine																
	3 49 W	30 00	2	8.73	80	2-2-2	" 8 after 10 min of exp overcast, a bit more mirrored clouds again	poor guiding																
	3 46 E	43 11	2	8.3	30p	2-2-2	Brideluc * 2 interrupted by clouds + twilight Focus <u>that very close to</u> star position	l. str optical to red																
						4/3																		
							H. # 4 loaded																	
							<table border="0"> <tr> <td></td> <td>NC</td> <td>sc</td> <td>HD</td> <td>SW</td> <td>SW</td> <td>S</td> <td>ME</td> </tr> <tr> <td>Aug 4</td> <td>-29.2</td> <td>+31.7</td> <td>-39.4</td> <td>-.3"</td> <td>-3.8</td> <td>-18.5</td> <td>-9.0</td> </tr> </table>		NC	sc	HD	SW	SW	S	ME	Aug 4	-29.2	+31.7	-39.4	-.3"	-3.8	-18.5	-9.0	
	NC	sc	HD	SW	SW	S	ME																	
Aug 4	-29.2	+31.7	-39.4	-.3"	-3.8	-18.5	-9.0																	
							<p>Next on mirror (turned on 10:00 PM, Aug 4). Condensation in mirror tube which must be dried up before seeing telescope. 2:12 AM.</p>																	

103

Set 8 5' north of given positions.

Date Wed-Thurs Aug. 5-6, 1953. Observer S-L-Mo-We Julian Day 2434595

Plate No.	Object	R.A.		Declination		Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.			Ending Time E.S.T.			P.H.	Hour Angle End
		1900	1950	1900	1950					h	m	s	h	m	s		
20361	NGC 6838	19 51.3		+18 38		Newt.	E103-a-0			21 02 00		21 06 00			2 06 E		
20362	6712	18 50.3		-08 47						21 10 30		21 18 30			0 53 E		
20363	IC 1276	18 08.0		-07 08						21 22 50		21 23 50					
	"	"		"						21 25 00		22 05 00			0 36 W		
20364	NGC 7023	21 01.0		+68 00			E103-a-0	Emulsion No 492 333		22 47 35		23 27 35			0 53 E		
20365	"	"		"			E103-a-E	489, 211		23 55 20		00 55 20			0 35 W		
20366	"	"		"			E103-a-E	489, 211		01 02 45		01 12 45			0 52 W		
20367	"	"		"			E103-a-0	492, 333		01 27 00		01 57 00			1 37 W		
20368	"	"		"			E103-a-0	492, 707		02 00 22		02 03 22			1 43 W		
20369	"	"		"			E103-a-0	492, 333		02 05 43		02 15 43			1 56 W		
20370	"	"		"			E103-a-0	492, 707		02 16 27		02 17 27			1 58 W		
20371	"	"		"			E103-a-0	492, 333		03 15 50		03 35 50			3 17 W		
20372	"	"		"			E103-a-0	492, 333		03 53 05		04 03 05			3 49 W		
20373	"	"		"			E103-U	488, 835		04 05 14		04 17 30			3 59 W		
20374	"	"		"			E103-a-0	492, 707		04 21 43		04 21 53			4 03 W		

Dome Temp. ...

Focus ...

Dome Temp. ...

Dome Temp... +67°F

Transparency Conditions.....

Focus.....

Dome Temp... +60°F

Ending Time L.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 06 00	2 06 E						Focused on β Ophiuchi	
21 18 30	0 53 E							
21 23 50							Automobile lights at beginning of exposure - shutter closed in time. Reopened when lights went out	
22 05 00	0 36 1/2 W						175H much depressed by light on your ST around stop 22. Strong enough to cast her shadow on platform at 10 p.m.	
22 27 35	0 53 E						Luggage thrown over to EW Focused on α Cephei. for 1 1/2 min.	
01 05 20	0 35 W						Closed shutter at 0 ^h 17 ^m because of train Lat 0 ^h 24 for 1/2 min for auto lights	
01 24 50	0 52 W						Filter - Red Plexiglass	
01 57 00	1 37 W						Filter - Red Plexiglass	
02 03 22	1 43 W						two times - 180° apart. normal spotting - 2 1/8" x 3 1/4" plate	
02 54 30	1 56 W							
02 57 27	1 58 W						normal spotting 2 1/8" x 3 1/4" plate. changed position of plate holder by 180° on tube.	
03 35 50	3 17 W							
04 03 05	3 44 W						some intermittent clouds.	
04 17 32	3 59 W						Filter - Wratten 70-gelatin clouds clouds	
04 21 55	4 03 W						normal spotting 2 1/8" x 3 1/4" plate changed position of plate holder by 180° on tube (back to normal position)	

105

Set 8 2' N of given positions

Date Thurs. - Fri. Aug. 6-7, 1953. Observer S. Bk. Mo. W. Julian Day 2434596

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20375	NGC 6838	19 51.3	+18 38	Newt.	E103-a-0			21 02 35	21 10 35	1	01 52 E
	6712	18 50.3	-08 47								
20376	6366	17 25.1	-05 02					21 29 22	21 44 22		1 03 W
20377	6838	19 51.3	+18 38					21 49 29	21 59 29		1 09 E
20378	6426	17 42.4	+03 12					22 11 41	22 41 41		1 43 W
20379	6712	18 50.3	-08 47					22 48 50	23 00 50		0 54 E
20380	IC 1276	18 08.0	-07 12					23 06 40	23 46 40		2 16 W
20381	NGC 6717	18 52.1	-22 47					23 52 04	00 12 04	1	2 03 W
20382	6712	18 50.3	-08 47					00 16 05	00 28 05		2 22 W
20383	6838	19 51.3	+18 38					00 35 13	00 41 13		1 33 W
20384	NGC 7023	21 01.0	+68 00		E103-a-0			01 10 43	01 48 15		1 32 W
20385	"	"	"		E103-U			02 08 06	02 34 06		2 18 W
20386	"	"	"		E103-a-0			02 35 12	02 35 27		2 19 W

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Emulsion No.

492,333

488,835

492,707

Dome Temp. +68°F

Transparency Conditions Poor

Focus.....

Dome Temp. +60°F

Reading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 14 35	1	01 58 E						Focused on α -Ophiuchi	
								Hopeless - clouds too heavy cluster poorly centred because of difficulty finding a guide star Much cloud	
21 41 22		1 03 W							
21 59 29		1 09 E							
22 41 4		1 43 W						Closed shutter for 45 ^s at 22:30 for auto lights.	
23 00 50		0 54 W						Focused on η Serpentic	
23 41 49		2 22 W							
00 12 04		2 03 W							
00 27 05		2 22 W						Focused on α H β l. Focus O.K.	
01 13		1 33 W						Shutter turned over to EW	
01 15		1 32 W						Auto lights - closed shutter at 1:16 for 35 ^s	
02 31 06		2 18 W						Filter - Wratten 70 - gelatin cloudy sky.	
02 35 27		2 19 W						normal spotting - twice	

Aug 7 - 12.2 - 3.1 +17.0 $2\frac{1}{2} \times 3\frac{1}{4}$ SW S ME
+0.5^m +18^s -23.9 -11.7

Dome Temp. + 69°F

Transparency Conditions Poor

Focus.....

Dome Temp.....

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
1 34 26		1 31 E						Focused on α Aquilae																	
2 00 02		1 22 W						Clouds at 21 55																	
3 01 49		0 00						Focus was poor																	
3 01 24		0 24 W						Refocused on α Aquilae.																	
								An almost impossibly poor night																	
								Sat Aug 8 - Heavy thunderstorms, disagreeable night. About 25 visitors. S + L shared telescope time.																	
								<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTU</td> <td>STW</td> <td>SW</td> <td>S</td> <td>MF</td> </tr> <tr> <td>Aug 10</td> <td>-5.5^s</td> <td>+2.3^s</td> <td>+8.3^s</td> <td>+0.5^m</td> <td>-38.5^s</td> <td>-77.3^s</td> <td>-6.3^s</td> </tr> </table>		MC	SC	MTU	STW	SW	S	MF	Aug 10	-5.5 ^s	+2.3 ^s	+8.3 ^s	+0.5 ^m	-38.5 ^s	-77.3 ^s	-6.3 ^s	
	MC	SC	MTU	STW	SW	S	MF																		
Aug 10	-5.5 ^s	+2.3 ^s	+8.3 ^s	+0.5 ^m	-38.5 ^s	-77.3 ^s	-6.3 ^s																		

Dome Temp. 70°F

Transparency Conditions *good*

110

Focus 12.940

Dome Temp. +63°F

Weak aurora at 01^{hr} -

*Beautiful green arc across northern sky at 0h. - remained till dawn
Frequent Persiads.*

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	24 W	24 51	0	8.99	G5	2-2-2	net 2 AG 25	<i>fine</i>
2	35 E	08 58	1	7.0/7.5	A0	2-2-2	2 EE Perf <i>Confirmed by spectrum on HD195273, which is probably at a 5th mag. spectrum. Some fainter members.</i>	<i>good</i>
0	49 W	29 43	1	7.23	K0	2-2-2	" 8 AG 25	<i>good</i>
2	07 W	26 09	1	8.86	G0	2-2-2	" 2 "	<i>fine</i>
2	36 W	+28 36	1-2	8.50	G0	2-2-2	" 8 "	<i>sl. poor guiding fine</i>
						2-2	" 2 " Superposed on #20392	
1	42 W	+26 47	2+	8.09	K0	2-2-2	" 2 " <i>sl. poor guiding</i>	<i>fine</i>
2	12 W	+27 16	2-	8.54	K0	2-2-2	" 8 "	<i>fine</i>
3	09 W	+28 35	1	8.65	G5	2-2-2	" 2 " <i>sl. poor guiding</i>	<i>fine</i>
3	36 W	+26 16	1-2	8.57	K5	2-2-2	" 8 "	<i>dark</i>
3	16 W	+08 57	0-1	7.0 7.5	A0	2-2-2	8 Ecl. Bin.	<i>good</i>
0	24 E	+05 52	2-	6.19	K4	2-2-2	2 Std. Vel.	<i>fine</i>
3	09 E	+43 11	1 1/2	8.3	Gop	2-2-2	7 Bidelman's Star	<i>sl. str</i>
						4-3	10 1/2	<i>Time lost re-hooking a fallen sector. Citra 7.5 red</i>
							2 p.h. loaded	

111

Date Tues. Wed. Aug. 11-12, 1953 Observer O. Ma Julian Day 2434601

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20403	HD 149474	16 30.0	+25 41	5-12 1/2	E103a-0	^{cut} .008	26.1	20 17	21 42	4	2 13 W
20404	HD 161197	17 39.1	+24 50	"	"	"	25.9	21 46	22 46	"	2 02 W
20405	EE Peg	21 35.1	+08 44	"	"	"	26.0	22 55	23 10	3	24 E
20406	HD 187460	19 45.0	+29 38	"	"	"	+26.0	23 18	00 24	1	40 W
	BD +25° 4256	20 25.2	+25 38	"	"	"					
20407	HD 191103	20 20.3	+25 36	"	"	"	+26.0	00 34	01 10	"	1 46 W
20408	HD 224383	23 52.3	-10 12	"	"	0.008		01 29	01 33	2	
	"	"	"	"	"	0.016	+25.9	01 36	02 20	"	31 E
20409	HD 1368	00 12.7	-00 11	"	"	0.016	+26.0	02 25	03 35	"	0 29 W
	HD 206155			"	"						
20410	EE Peg	21 35.1	+08 44	"	"	0.008	+26.0	03 49	04 01	3	3 22 W
20411	HD 9318 ⁹¹³⁰	01 24.9	+05 38	"	"	"		04 08 30	04 11 30	4	
	"	"	"	"	"	"	+25.8	04 13 00	04 17 00	"	0 06 E
	Focus Test	O.T.B					+25.8			"	

Dome Temp. 72°F

Transparency Conditions fair... clouds low in NW. 112

Focus 12.942

Dome Temp. +62°F

Magnificent auroral arc across northern sky some haze.
 not so bright as last night - remained till dawn.
 Numerous Persiads - 3 within 10 sec at 3 27

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 13 W	+25 34	0	8.84	K2	2-2-2	set 2 AG-25	l. wh
2 08 W	+24 48	1	8.68	F5	2-2-2	" 8 "	fine
1 24 E	+8 57	1	7.0-7.5	A0	3-	" 2 Ecl. Bin. Forget second comp.	fine
1 40 W	+29 44	1-2	8.98	K0	2-2-2	" 2 AG-25	fine
1 46 W	+25 49	1-2	9.2 8.72	K2	2-2-2	" 8 " Wrong star; set R.A. at 20 27.5	Too wh
	-09 55	1+	8.5	G ₂ V	2-4	" 2 N.R. Hi Vel. Much trouble with dec. buttons	Too wh
1 31 E	-09 55	1+	"	"	2-2-2	" 6 " " Comp. too str	good
0 24 W	+00 07	1-2	9.4	G ₀ V	2-2-2	" 10 1/2 " " Comp. too str	fine
3 28 W	+08 57	0	7.0 -7.5	A0	2-2-2	8 Ecl. Bin. poorly guided	wh
		2	6.19	K4	3-3	2 Std Vel	wh
0 06 E	+05 53	2	"	"	2-2-2	6 " " Very heavy fog at 4:15 I could barely make outline of administrative buildings	too wh
						10 1/2 I ph. loaded.	Center peaks str red

Angle
 NE ³ -7.3 S ³ +5.9 NW ⁵ +1.7 SE ³ +.4^m S ³ -29.9 SW ⁵ +5^S NE ³ -2.2

Dome Temp. 74°F

Focus 10.942

Dome Temp. 68°F

Transparency Conditions

hazy + quite a few clouds in S. 114

Delayed starting because of clouds.

check with Franklin-Adams chart showed slight error in Argelander's chart

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 12		2 35 W	29 12	1	8.84	K2	2-2-2	set 2 AB 25	fine
02 14		2 30 W	27 53	1-0	8.39	K2	2-2-2	8 -11- Wrong star taken? The field doesn't check; the star indicated on chart is much too faint.	fine
02 16		2 34 W	28 55	1	8.69	K0	2-2-2	2 " Time lost because of dec. slow motion.	fine
02 39		3 04 W	+29 45	1	8.98	K0	2-2-2	8 "	fine
02 40		3 04 W	+26 08	1	8.72	K0	2-2-2	2 "	good
04 08		4 24 W	+30 25	0+1	(8.9)	G0	2-2-2	8 " Flexure	good
04 19		4 04 W	+08 57	1 1/2	7.0 -7.5	A0	2-2-2	2 " <i>sl. poor guiding</i>	good
04 38		0 23 W	+05 55	12	6.19	K4	3-3	7 Std. Vel.	good-fine
							4-3	10 1/2 3 ph. loaded.	cut to red

ME SC MW SW S ME
 S S S m S S S
 Aug. 14 -9.0 +9.4 -5.2 +2.0 -14 -32.1 +11.2

Dome Temp. $75^{\circ} F$
 Focus 12.942
 Dome Temp. $70^{\circ} F$

Transparency Conditions *clouds in NW, slightly hazy*

116

Ending Time L.A.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
11:00	1	$1^h 47^m W$	$+25^{\circ} 38'$	1	8.8	KO	2-2-2 4-2.5	AG 25 set 2 set 8 <i>Comp. made too late, lightning in NW. At end of exposure clouds cover the whole sky in a very short time. Thunderstorm in NW</i>	<i>fine slight</i>																
								<i>Pl. h. 2 and 3 loaded.</i>																	
								<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>Aug 19</td> <td>$-14^{\circ} 3'$</td> <td>$+17^{\circ} 4'$</td> <td>$-45^{\circ} 3'$</td> <td>-5°</td> <td>$-37^{\circ} 4'$</td> <td>-34°</td> <td>$-7^{\circ} 2'$</td> </tr> </table>		MC	SC	MTW	STW	S	SW	ME	Aug 19	$-14^{\circ} 3'$	$+17^{\circ} 4'$	$-45^{\circ} 3'$	-5°	$-37^{\circ} 4'$	-34°	$-7^{\circ} 2'$	
	MC	SC	MTW	STW	S	SW	ME																		
Aug 19	$-14^{\circ} 3'$	$+17^{\circ} 4'$	$-45^{\circ} 3'$	-5°	$-37^{\circ} 4'$	-34°	$-7^{\circ} 2'$																		

117

Date Sat-Sun: Aug. 15-16 1953 Observer We-Mo Julian Day 2434.605

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20421	AG 9236	18 43.3	+28 19	I-12 $\frac{1}{2}$	E103-a0	0.008	+23.2	22 19	23 29	2
20422	BD+17°4708	22 06.7	+17 36	"	"	0.016	+23.2 +23.1	23 42	closed plate holder at 4 06 Effective ending at 3 00	-
20423										
	Focus Test	O.T.B					0.016 +23.1			"

Dome Temp...
Focus 12.93
Dome Temp...

Hour Angle
End
2^h 03^m
at 426
3 16
0 16W

Dome Temp.....

Focus..... 12.932 (focus set before start of observing) *1934*

Dome Temp..... +6.3°F

Transparency Conditions.....

about 300 visitors shown Ψ Iacovis with 74" and various double stars with 4" and other small telescopes (provided by members of R.A.S.C.). We & Mo.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	2 ^h 03 ^m W	+28° 20'	0	8.61	G ₀	2-22	False start of set 2 - one min exposure. 2 sec comparison. Prisms were all the way south for focusing. <i>Set 8 AG 25</i>	<i>fine</i>
3	at 4:06	+17 ⁵⁰	0	(9.8)	F ₂	1 ⁵ -2-1	<i>Clouds 3:00 - no star</i> <i>Star field does not check well with chart, but</i> <i>Roman's high velocity star, that this is correct star.</i> <i>Star visible no more than three min. after 3:00.</i>	<i>l star</i>
0	16 W	-00 39	1 $\frac{1}{2}$	7.49	K ₀	1-2	7 Std. Vel.	<i>fine</i>
						3-2	10 $\frac{1}{2}$	<i>all right</i>
							4 ph. loaded	

119

Date Sun. Mon. Aug. 16-17, 1953 Observer O. Ma Julian Day 2434606

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20424	{ HD 154760	17 02.3	+26 38	7-12 1/2	103a.0	Sit .008	+22.4	20 03	20 48	4	1 07 W
20425		16 ^{41.9} 48.9	+26 13	"	"	"	"	20 54	20 21 49	4	2 28 W
20426	{ HD 150799	16 38.2	+25 38	"	"	"	+22.3	21 55	23 20	1	4 03 W
20427	{ HD 195216	20 24.9	+27 31	"	"	"	"	23 24	00 08	1	1 04 W
20428	{ HD 194525	20 21.0	+30 15	"	"	"	+22.0	00 11	00 45	2	1 43 W
20429	{ AG 11823	20 46.3	+28 20	"	"	"	+22.0	00 47	01 39	"	2 14 W
20430	BD + 30° 4417	18.5	16	"	"	"	+22.0	01 45	02 51	3	2 54 W
	AG 12426	21 18.3	+30 15								
20431	{ AG 13194	22 03.6	+26 33	"	"	"	+22.0	02 57	04 01	"	3 19 W
20432	{ HD 9138	01 24.9	+05 38	"	"	"		04 07 30	04 10 30	4	0 07 W
20433	{ HD 30353	04 41.8	+43 06	"	"	"		04 22	04 46	"	2 35 E
	Focus Test	O.T.B					+22.0			"	

Dome Temp. 67°F

Transparency Conditions *Good*

120

Focus 12.932

Dome Temp. +58°F

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 48	4	1 ^h 07 ^m W	+26 34	1-	8.63	G5	2-2-2	Set 2. AG 25	<i>fine</i>
21 49	4	2 28 W	+26 07	1	8.84	G5	2-2-2	" 8 "	<i>fine</i>
23 20	1	4 03 W	+25 31	1	8.5(?)	G0	2-2-2	Set 2 " 1 Through Glass	} <i>badly</i> <i>fractured</i> <i>no load</i>
00 08	1	1 04 W	+27 40	2-	8.68	K5	2-2-2	" 8 " Through Glass	
00 43	2	1 43 W	+30 25	2-	8.42	G5	2-2-2	" 2 " <i>sl. per guiding</i>	<i>inc. date</i>
01 39	"	2 14 W	+28 30	1=2	8.92	K0	2-2-2	" 8 "	<i>fine</i>
02 51	3	2 54 W	+30 29	2+	8.91	K0	2-2-2	" 2 "	<i>wide</i>
04 01	"	3 19 W	+26 46	1-2	8.96	G5	2-2-2	" 8 "	<i>dark</i>
04 10 30	4	0 07 W	+05 53	2	6.19	K4	3-3	2 Sid. Yel.	<i>good</i>
04 48	"	2 35 E	+43 12	2	8.3	Gop	2-2-2	7 Bidelman's Star	<i>to st.</i>
							4-3	10 1/2 3 ph loaded.	<i>centered</i> <i>to red</i>

Aug 17 $\begin{matrix} Mc \\ S \end{matrix} -12.3$ $\begin{matrix} sc \\ S \end{matrix} +14.1$ $\begin{matrix} MW \\ S \end{matrix} -41.5$ $\begin{matrix} stw \\ S \end{matrix} -0.3^m$ $\begin{matrix} SW \\ S \end{matrix} -14^S$ $\begin{matrix} S \\ S \end{matrix} -36.7$ $\begin{matrix} ME \\ S \end{matrix} -6.9$

121

Date Mon-Jue 17/18 Aug, 1953 Observer PKR - Hvr Julian Day 2434607

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20434	HD. 124019	14 05.9	+28 05	12"2	E103-a-0	.008	20.3	20 07	21 17	1
20435	HD. 150799	16 32.2	+25 38	"	"	"	19.8	21 23	22 53	1
20436	205027	21 27.3	+00 34	"	"	.016	19.5	23 02	00 12	2
20437	BD+17° 4708	22 06.7	17 36	"	"	"	19.9	00 21	02 51	2
20438	HD 3765	00 35.3	39 40	"	"	"	19.6	03 00	03 50	3
20439	"	"	"	"	"	.008	19.8	03 32	04 30	5
	<i>Focus Test</i>				<i>O.P.B.</i>					

Dome Temp. 62°F

Transparency Conditions *good*

122

Focus 10932

Dome Temp. 54°F

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	4 35W	27 51	0	8.8	G5	2-2-2	vel. 2 ⁵ AG 15 ⁻	Flexure <i>fine</i>
21.5	3 39W	25 30	0-1	8.5	G0	2-2-2	" 8 " "	<i>str</i>
22	00 10W	00 46	0-1	8.9	G2V	1-1-1	" 2 Roman th. velve	<i>str</i>
25.1	02 10W	+17 51	0-1	9.3- 10.0	F2	1-1-1	" 8 " " "	<i>l. str</i>
25.5	03 20W	39 57	0	8.52	K5	1-1-1	" 2 Std. Vel. ⁰³²⁰ clouds NE, E, SE, S.	<i>str</i>
0130	01 20W	"	0	"	"	2-2-2	" 7 " " ⁰⁴⁰⁰ A few clouds.	<i>str</i>
						4/3	" 9 4 P.H. Loaded	<i>slight</i>

Dome Temp..... 66°F

Focus..... 12.973

Dome Temp.....

Transparency Conditions..... good, a few scattered clouds 124
SE horizon end W,
disappearing

Ending Time L.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^h 36 ^m	1	0 ^h 59 ^m E	- 15° 52'	0	8.8	G5V	1-1-1	Set 2 Rø. High Vel.	
23 ^h 36 ^m	"	0 ^h 20 W	- 8 57'	0	9.0	G2V	1-1-1	Set 8 " " "	strong
00 ^h 06 ^m	2	0302W	+28 23	1	8.6	G0	2-4	Set 2 A6-25	0001 Clouds. Star Gone
							4/3	" 9.	too weak
								0030 Solid-	

Dome Temp. 66°F

Focus 12.933

Dome Temp. +57°F

Transparency Conditions Thin clouds scattered about 126

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 55 ^m W	+25 03	1-2	8.19	K5	2-2-2	set 2 AG-25	fine
0 08 W	-15 36	0-1	9.4	G-8	1-1-1	" 2 RomHi-Val.	fine
0 58 E	+08 55	1	7.0-7.5	A0	3-3	" 2 Spec Bin	fogged at times
1 12 W at 01 29	+27 39	1-2	8.68	K5	2-2-2	" 8 AG-25	L. weak
1 32 E	-08 34	1½	9.7	F+V	1-2	" 8 N.R. Hi Val.	good
					4-3	" 10½	
						3 p.H. loaded.	
<p>The slow motion controls do not work A wire must be broken in the cable near the box. The buttons worked for a while when I gave the cable a certain twist but finally even this would do nothing.</p>							
<p>Scattered clouds in south and east.</p>							
<p>July 20 μm $+ 5.2^s$ STW 0^m</p>							

Dome Temp. 66°F

Focus 12.938

Dome Temp. 59.5

Transparency Conditions haze + a few scattered clouds.

128

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 31 W	26 00	0	8.84	K0	2-2-2	pel 2 AG 25	weak
1 58 W	26 27	0-1	8.96	K2	2-2-2	8 " more cloud from N	too weak
1 02 W	28 27	1	8.19	G5	2-2-2	2 " "	fine
1 35 W	29 41	1-2	8.40	G5	2-2-2	8 " "	fine
02 27 W	25 46	1-0	8.72	K5	2-2-2	" 2 " "	weak
01 59 W	29 59	0-1	8.63	K0	2-2-2	" 8 " "	good
02 35 W	08 55	0	7.0-7.5	A0	2-2-2	" 5 Ecl. Bin. BK.	weak
00 45 W	39 56	1	8.5	K5	2-2-2	" 2 Std. Vel.	strong
00 25 W	74 02.5	0-1	8.0	A0	2-2-2	" 5 K.A. 21 Looks faint. Hazy	fine
					4/3	" 9	
1 P.H. Loaded.							

129

Date Fri-Sat. Aug 21/22, 1953 Observer McC - H v Julian Day 2434.611

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20457	AG 10844	20 02.0	+28 42	I ^{1/2} 2	E103-a-0	008	22.0	20 28	21 20	3
20458	HD 191010	20 02.6	+25 22 ²⁴	"	"	"	21.9	21 24	22 04	.
20459	" 191445	20 04.8	+28 24	"	"	"	21.8	22 09	23 01	4
20460	AG 11579	20 35.2	+26 17	"	"	"	21.6	23 05	22 45	.
20461	HD 196928	20 35.3	+27 44	"	"	"	21.8	23 48	00 38	1
20462	197020	20 35.9	25 41	"	"	"	21.8	00 46	01 36	.
	<i>Fours Test.</i>			<i>O.F.B.</i>						

Dome Temp. 65°F

Focus 15.933

Dome Temp. 61°F

Transparency Conditions clouds scattered about

130

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 01 E	28 46	2	8.97	G5	2-2-2	pet 2 AG 25 Large proper motion? The dec. is out by 4'.	good
0 18 E	25 32	2-1	8.64	K0	2-2-2	" 8 "	good
0 36 W	28 30	2-1	8.88	K5	2-2-2	" 2 "	Flexure weak
0 49 W	26 26	2	8.77	K0	2-2-2	" 8 "	weak
01 44 W	27 54	(2)*	8.58	K5	2-2-0	* Seeing Rapidly worse ‡ Forget last 2 sec	good
02 42 W	25 52	1	8.51	G0	2-2-2	0125 Cloud from N.W. 0135 Star Gone	good
					4/3	" 9 "	
						MC SC MICU SW SW S Aug 21 +16.3 +21.3 +2.7 ^s .0 ^r +11.9 ^s -38.6 ^s +6.5 ^s	

131

Cr
GzDate Sat-Sun Aug 22-23, 1953 Observer O - Mo Julian Day 243.4612

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20463	HD 188258	19 49.2	+27 50	I-125	F103a-0	Set .008	+22.9	21 53	21 59	1	
	"	"	"	"	"	"	"	22 00	22 14	1	0° 10' W
20464	HD 188566	19 50.7	+25 04	"	"	"	22.8	22 17	22 35	4	0 29 W
20465	AG 10838	20 01.8	+29 26	"	"	"	"	22 40	23 24	4	1 07 W
20466	AG 10837	20 01.8	+29 26	"	"	"	+22.8	23 26	00 10	2	1 54 W
20467	HD 1985 ² 76	20 45.8	+28 37	"	"	"	+22.8	00 15	00 45	2	1 45 W
20468	AG 11990	20 55.7	+28 53	"	"	"	+22.7	00 48	01 30	4	2 20 W
20469	HD 200679	20 59.8	+25 59	"	"	"	+22.7	01 34	02 04	4	2 50 W
20470	AG 12426	21 18.3	+30 15	"	"	"	+22.7	02 10	03 18	2	3 45 W
20471	HD 8779	01 21.4	-00 55	"	"	"	+22.7	03 30	03 36	2	0 00
20472	HD 14147	02 12.2	+18 00	"	"	"	+22.7	03 58	04 03	4	0 24 E
	Focus Test	O.T.B.					+22.7			4	

Dome Temp... 66° F

Focus... R. 93.3

Dome Temp... +62° F

Transparency Conditions... Some haze, clouds in south after 22:30

About 150 - 200 stars shown M13, E Cyg,
O, Mo, Cr, G2.

132

Ending Time
E.S.T. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		2	7.79	K ₂	2-	Set 2 Plunger half-way out AG-25 N. Roman Box of plates.	fine
0 ^h 10 ^m W	+27 58	2-3	"	"	2-2-	" "	fine
0 29 W	+25 11	3	8.20	K ₂	2-2-2	Set 2 " "	weak
1 07 W	+29 37	3	9.44	G ₃	2-2-2	" " "	too weak
1 54 W	+29 37	2-3	8.84	G ₀	2-2-2	Set 2 " "	weak
1 45 W	+28 47	3	8.88	K ₀	2-2-2	" " "	weak
2 20 W	+29 03	3	8.95	G ₀	2-2-2	" " " clouds - no star 01:12 - 01:22	weak
2 50 W	+26 09	3	8.82	K ₂	2-2-2	" " "	weak
3 45 W	+30 27	3	8.91	K ₀	2-2-2	" " " clouds 02 43 star barely visible. Intermittent clouds till 03 13	too weak
0 00	-00 40	3	7.49	K ₀	2-2-2	" " " Std. Vel.	weak
0 24 E	+18 13	3	7.68	F ₀	2-2-2	" " " K.A. 70 Completely overcast at 4:05	weak
					4-3	" " " 2 pH loaded.	

Date Sun - Mon. 1953 Aug 23/24 Observer McC - H.V. Julian Day 243.4613

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	
20473	H.D. 170951	18 27.0	+25 06	I 12 1/2	E103-n-D	0.002	26.0	19 58	20 52	1	
20474	18 9943	19 57.5	+29 56	"	"	"	26.0	20 57	21 21	1	
20475	19 1898	20 07.1	+25 51	"	"	"	26.0	21 36	22 20	3	
20476	19 3221	20 14.0	+25 12	"	"	"	26.0	22 25	22 55	3	
20477	AG 11420	20 26.5	+27 37	"	"	"	25.9	22 59	23 39	4	
20478	H.D. 196034	20 29.7	+25 17	"	"	"	26.0	23 43	00 33	1	
20479	" 198482	20 45.5	30 16	"	"	"	25.9	00 40	01 40	1	
20480	206979	21 40.7	28 46	"	"	"	25.8	01 45	02 15	1	
20481	AG 13221	22 54.8	29 33	"	"	"	25.8	02 51	04 01	2	
20482	H.D. 30353	04 41.8	43 06	"	"	"	25.8	04 11	04 41	1	
<i>Focus Test.</i>				<i>O.T.B.</i>							

Dome Temp.
Focus
Dome Temp.

Hour Angle
End

Dome Temp. 74°F

Focus 10.925

Dome Temp. +6.6

Transparency Conditions good, except a few clouds 134

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0	14 W	+25 10	1	8.95	M0	2-2-2	REL 2 AG 25	weak
0	38 E	30 05	2	8.42	K0	2-2-2	" 8	fine
0	82 W	25 59	2-1	8.81	G5	2-2-2	" 2	weak
0	30 W	25 24	2	8.44	K5	2-2-2	" 8	fine
1	01 W	27 47	2-3	8.76	K0	2-2-2	" 2 " Flexure	fine
0	153 W	25 27	2	8.64	K5	2-2-2	" 8 " Seeing 0-1-2 Variable 0.110 Quite Windy	fine
0	244 W	30 27.5	0	8.61	K2	2-2-2	" 2 " Seeing 0-1-2 Image unstable	fine
0	253 W	29 00	0-1	8.58	K0	2-2-2	" 7 " "	good
0	256 W	29 48	0-1	8.72 8.4	G5 A2	2-2-2	" 2 " "	strong
0	212 E	43 11	1-2	8.3	G0 p	2-4	" 7 Bidelman's Star.	strong
						4/3	" 9	

1 P.H. - Loaded

ME	SC	MW	SW	S	SW	ME
⁵	³	⁵	⁵	⁵	⁵	⁵
Aug 21	-18.8	+26.2	-16.3	-0.2 ^m	-41.6	+18.2 +15.8

135

Date Mon-Tues, Aug 24-25, 1953 Observer O. H. V. Julian Day 2434614

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20483	AG 8824	18 16.1	+26 28	T-12.5	E103a ⁰	5.2 .008	+26.7	19 59	21 20 09	3	0 45 W
20484	HD 169819	18 21.4	+25 56	"	"	"	"	21 13	22 13	3	1 44 W
20485	AG 10838	20 01.8	+29 26	"	"	"	+26.4	22 18	23 46	4	1 37 W
20486	HD 192732 BD +30° 44' 17"	20 11.3 18.5	+29 42 16	"	"	"	26.3	23 50	01 00	4	2 42 W
20487	AG 12426	21 18.3	30 15	"	"	"	26.2	01 09	03 21	2	6 40 W
20488	H.D. 3765	00 35.3	39 40	"	"	"		03 36	04 30	2	0 11 W 3
Focus Test				O.P.B.							

Dome Temp. 76°F

Focus 12.933

Dome Temp.

Transparency Conditions *Fair, a few scattered clouds and haze in south-east* ¹³⁴

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 45 ^m W	+26 29	2	8.96	K2	2-2-2	Set 2 AG 25 Flexure	weak
1 44 W	+25 58	2	8.72	K0	2-2-2	" 8 "	good
1 37 W	+29 37	2	9.44	G5	2-2-2	Set 2 "	weak
02 42 W	29 52	0-1	8.83	K0	2-2-2	" 8 "	fine
04 04 W	30 29	0	9.5	K0	2-2-2	" 2 " 03/2 Sky Flexure " of haze + cloud + moon that skylight on slit is almost as bright as the star	too weak
01 42 W	39 57	1-2	8.52	K5	2-2-2	" 7 Std. Vel. 4/3 " 9	strong

3 P. H.

MC SC NW SW S SW ME
 Aug 26 -20.5^s +29.8^s +17.5^s +.2^m -43.6^s -17^s +13.2^s

Date ~~Wed-Thurs~~ Aug. 26-27, 1953 Observer ~~Mo - Pnc~~ Julian Day 2434.616

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20489	HD 150102	16 33.8	+27 15	I-12 $\frac{1}{2}$	E103-a-0	set	+28.2	19 44	20 34	1	2 00 W
0.008											
20490	HD 173367	18 39.8	+28 00	"	"	"	+28.2	20 39	21 33	"	0 54 W
20491	HD 187548	19 45.4	+28 21	"	"	"	+28.2	21 37	22 09	2	0 24 W
20492											
20493	AG 12015	20 47.9	+28 30	"	"	"	+27.8	23 57	00 51	3	0 13 W
20494											
20495	AG 12015	20 57.5	+26 51	"	"	"	27.8	00 55	01 55		3 4
20496	HD 11297	01 46.9	-16 48	"	"	set	28.2	02 10	03 56	4	0 11
20497						0.016					
20498	HD 8779	01 21.4	-00 55	"	"	"	28.2	04 03	04 09	1	0 41
20499											
20498	HD 15747	02 26.7	+12 14	"	"	"	28.0	04 30	04 38	2	0 11
20499											
	Focus Test O.T.R.										4

Dome Temp... +81° F

Transparency Conditions... Very thin... clouds... scattered over whole sky

Focus... 12.933

138

Dome Temp... 70° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 00 W	+27 08	1	8.42	M ₀	2-2-2	Set 2 AG 25	good
0 54 W	+28 03	1	8.69	K ₀	2-2-2	" 8 "	fine
0 24 W	+28 30	2	8.26	G ₅	2-2-2	" 2 "	strong
0 51 W	+29 35	2	8.84	K ₂	2-2-2	" 8 " Broken wires in slow motion controls. Repaired by Hr.	fine
2 03 W	+28 40	2	8.81	K ₂	2-2-2	" 2 "	good
3 00 W	-27 03	2	8.91	G ₀	2-2-2	8	good
0 10 W	-16 34	1	9.6	G _{8,11}	1-1-1	" 2 Romani's Hi-veloc. Seeing variable	fine
0 48 W	-00 40	2	7.5	K ₀	1-1-1	" 2 Std. vel.	fine
1 00 W	"	2	"	"	2-2-2	" 8 "	break
0 12 W	+12 29	2	7.7	A ₂	2-2-2	" 2 K.A.	fine
0 42 W	+12 45	2	7.90	G ₅	2-2-2	" 8 K.A.	fine
					4/3	" 8	

Aug 28 ^{3 P4}
 ME -23.5 SE +33.1 ME +7.8 S W +.2^m S SW +45.1 -15^S ME +9.5

139

Date Fri-Sat... Aug. 28-29... 1953. Observer Ma-Hv... Julian Day 2434.618

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20500	HD 156002	17 10.0	+26 56	12 $\frac{1}{2}$	E103-a-0	Set 0.008	+30.5	19 39	20 49	2	1 47 W +
20501	HD 177251	18 58.8	+29 09	"	"	"	+30.5	20 54	21 34	"	0 44 W +
20502	HD 194071	20 18.5	+27 55	"	"	"	+30.5	21 39	22 27	3	0 17 W +
20503	HD 197263	20 37.5	+27 55	"	"	"	+30.5	22 30	23 12	"	0 43 W +
20504	HD 198550	20 46.0	+29 01	"	"	"	+30.2	23 16	00 46	4	0 59 W +
20505	204658	21 25.0	+28 26	"	"	"	30.1	00 50	02 30	"	0 31 W -
20506	EE Peg.	21 35.1	+08 44	"	"	"	30.0	02 42	03 10	1	0 34 W -
	Focus Test					O.B.					

Dome Temp. +83°F

Transparency Conditions Fair.....Much haze at beginning.

Focus.....12:933

Exhibition fireworks very good this year.

140

Dome Temp. 76°F

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 49	2	1 47 W	+26 54	1	8.88	G ₅	2-2-2	Set 2 AG 25	strong
21 34	"	0 44 W	+29 13	1+	8.42	K ₀	2-2-2	" 8 "	fine
22 27	3	0 17 W	+28 05	1	8.53	K ₀	2-2-2	" 2 "	fine
23 12	"	0 43 W	+28 05	1	8.44	G ₀	2-2-2	" 8 "	fine
00 46	4	0 2 09 W	+29 12	1	8.82	K ₀	2-2-2	" 2 "	good
0 23		0 3 14 W	+28 38	0	8.77	G ₅	2-2-2	" 7 "	fine
10		0 3 44 W	+08 57	0!!	7.0- 7.5	A ₀	2-2-2	" 2 BK's Ecl. Bin.	fine maybe tweaked
							4/3	" 9	all right
								0130 A few wisps of cloud. 0145 A few more 0200 Quite a few more. popped due Flexure & overdevelopment 0257 STAR GONE.	
								3.P.H.	

141

BK

Date Sat-Sun, Aug 29-30, 1953 Observer O - mc Julian Day 2434.619

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20507	AG 9236	18 43.3	+28 19	I-12	F103a-0	set .008	31.0	22 02	00 26	2
20508	HD 198483	20 45.5	+25 24	"	"	"	31.0	00 35	01 05	
20509	HD 194385	20 20.0	+37 10	"	"	"	30.6	01 14	01 24	3
20510	210809	22 07.9	+51 56	"	"	"	30.5	01 46	02 16	
20511	14503	02 15.7	+13 00	"	"	"	31.0	02 34	03 34	4
	16604	02 39.6	+47 06	"	"	"				
	Focus test O.R.									

Dome Temp. 8
Focus 12.93
Dome Temp. 2

Hour Angle
End
2.5
1.0
1.5
1.5

Dome Temp... 80°F

Transparency Conditions... much cloud

142

Focus... 12.933

about 125 winters shown M13

Dome Temp... 73°F

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:20	3 56.4	28 22	1	8.61	G0	2-2-2	AG25 Power off for a few seconds at 23:56 Scattered clouds, for first comparison for few minutes weak.	
01:00	2 32.4	25 35	1	7.66	G5	2-2-2	at 8 AG-25	quadrant 1 fine
01:00	3 17.4	37 18	0	6.0	B2 II	2-2-2	2 Matthews **	quadrant 1 fine
01:00	2 22.4	52 11	0	7.6	O95	2-2-2	8 -11- The right star taken? cannot identify the field	Field all right, just upside down.
01:20	0 25E	13 10	0	7.90	A5	2-2-2	2 KA	fine
				7.7	A0		nearly completely overcast.	at night
						4/3		
							4 PH. loaded	

143

Date Sun-Mon Aug 30-31/53 Observer - Hr Julian Day 2434620

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 End
20512	A.G. 13167	22 00.6	+25°10'	I-12½	E _{103a-0}	.008	29.8	0107	02 39	-1	0255W
20513	H.D. 214434	22 33.0	25 55	"	"	"	29.4	0245	03 49	"	0333W
20514	" " 30353	04 41.8	+4306	"	"	"	29.4	0400	04 46	2	0145E
		<i>Focus Test</i>		<i>J.T.B.</i>							

145

Date *Mon-Tues*: *Aug 31-Sept 1, 1953* Observer *O-Hr* Julian Day *2434621*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20515	^{174 126} HD 174104	18 43.9	+28 32	I-12	E103a-D	^{Slit} .008	+30.3	19 41	20 17	3
20516	HD 174104	18 43.8	+28 31 128 37	"	"	"	"	20 19	21 05	"
20517	HD 198273	20 44.1	-9 01	"	"	^{Slit} .016	+30.2	21 14	22 00	4
20518	HD 205027	21 27.3	+0 34	"	"	"	+30.0	22 05	22 49	"
20519	HD 195667	20 27.6	+26 42	"	"	^{Slit} .008	+30.0	22 55	23 31	1
20520	HD 195712	20 27.8	+26 44	"	"	"	+29.8	23 33	00 13	"
20521	" 199221	20 50.7	27 42	"	"	"	29.9	00 23	00 47	2
20522	" 199440	20 52.1	27 07	"	"	"	29.8	00 51	02 01	"
20523	" 208187	21 55.0	29 25	"	"	"	29.6	02 07	02 31	3
	<i>Focus Test</i>			<i>O.F.B.</i>						

Dome Temp.
Focus 12.9
Dome Temp.

Hour Angle
End
0 37 E
0 42 W
0 25 E
0 19 E
1 24 W
0 26 W
0 32 W
0 37 W

Dome Temp. 84°F

Focus 12.933

Dome Temp.

Transparency Conditions Good, Clear

148

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 17	3	0 ^h 07 E	+28 35	2	8.56 8.72	K2 G5	2-2-2	Sat 2 AG-25. Wrong star chosen first. Correct data is given.	good
21 05	"	0 42 W	+28 40	0-2	8.72	G5	2-2-2	8 " Flexure	good
22 00	4	0 25 E	- 8 50	1+	9.0	G2	2-2	Sat 2 Roman Hi-wel.	fine
22 49	"	0 19 E	+0 49	1	8.9	G2	1-1-1	8 " "	strong
23 3	1	1 24 W	+26 53	1-2	8.55	K2	2-2-2	Sat 2 AG-25	good
00 3	"	0 2 06 W	26 55	2-0	8.60	K0	2-2-2	8 "	fine
01 7	6	0 2 17 W	27 52.5	2	8.30	G5	2-2-2	" 2 " "	strong
02 12	2	0 3 30 W	27 20	0	8.91	K0	2-2-2	" 7 " 0140 Bank of Cloud NW, W, SW	fine
02 31	5	0 2 57 W	29 39	0	8.68	K2	2-4	" 2 " 0225 Star G. "	partly weak.
							4/3	" 9	all right.
								1 P.H.	

147

Date Tues Sept 1-2/53 Observer Hd - Hr Julian Day 2434.622

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
→ 20524	HD 174881 MWC 307	18 47.7	-10 21	I-25	E103aD	008	31.8	19 42	20 30	4	W 06 ^m
20525	V4510ph	18 24.5	+10 49	"	Hi-speed	"	31.5	20 42	22 02	1	W 2 01
20526	EE Peg	21 35.1	+08 44	"	E103aD	"	31.6	22 07	22 37	2	E 34
→ 20527	HD 1950407 MWC 346	20 26.0	36 39	"	E103aD	"	31.5	22 42	23 16	4	W 1 14
20528	HD 205060 MWC 371	21 27.7	42 16	"	Hi-speed	"	31.3	23 20	23 46	1	W 42 ^m
20529	HD 206773 MWC 376	21 39.3	57 17	"	"	"	31.5	23 50	00 14	2	W 59 ^m
20530	HD 209296 MWC 383	21 57.2	56 14	"	"	"	31.8	00 17	01 27	3	1 55 ^w
20531	HD 217543 MWC 395	22 56.3	38 10	"	"	"	31.7	01 33	01 47	4	1 16 ^w
20532	HD 224559 MWC 407	23 53.8	45 52	"	"	"	31.7	01 54	02 10	1	02 41 ^w
20533	HD 225095 " 409	23 58.3	55 00	"	"	"	31.8	02 18	03 00	2	03 21 ^w
20534	HD 4180 " 8	00 39.2	47 47	"	"	"		03 14 ⁰⁰	03 15	3	
				"	"	"		03 18 ⁰⁰	03 21	"	
				"	"	"		03 22 ⁰⁰	03 26	"	01 11 ^w
20535	HD 6343 MWC 10	00 59.4	65 26	"	"	"	31.8	03 55	04 21	1	03 50 ^w
20536	HD 21650 " 68	03 24.6	41 25	"	"	"	31.8	04 29	04 51	1	04 01 ^w

Dome Temp. +89°F!

Focus 15.897

Dome Temp. 77°F

Transparency Conditions fair.
 changed to I-25; 1-12 focus was 12.934 set I-25 focus 15.897
 tilt was 20.35 tilt 23.15

148

Ending Time L.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 30	4	W 06 ^m	-10 18	2	8.1	B3e	4-4-4	Be Prog; set 2	good
22 21	1	W 2 01	+10 51	2	7.9	A0	6-6-6	set 5 Ecl. Bin.	good
22 27	2	E 34 ^m	+8 56	2	7.5	A0	4-4-4	set 2 Bk's Bin.	fine
23 4	4	W 1 14	36 39	2	7.7	B3e	4-4-4	set 8 Be Prog	l. wk
23 46	1	W 42 ^m	42 29	2	7.1	B5(m)e	6-6-6	set 5 Be Prog.	fine
00 14	2	W 59 ^m	57 31	2-3	7.0	B2e	6-6-	" " " "	fine
01 27	3	01 55 w	56 31	0	8.1	B(st)e	6-6-6	" " " "	good
		01 16 w	38 26	2	6.4	B3ne	6-6-6	" " " "	l strong
		00 41 w	46 08.5	2	6.5	B3ne	6-6-6	" " " "	strong
		01 35 w	55 12	1-2	7.6	B1e	6-6-6	" " " "	line
				2	4.7	B4ne	18	" 2 " Sep. 2. -30° +43° +4.8° +0.3° +1.30°	ME +12.5" fine
				2		v	18	" 5	lra at
		01 11 w	42 01	2	v	v	9-9	" 8	too rtr
		01 45 w	65 42	2	7.1	B5ep	7-5-6	" 2 "	good
		00 10 E	41 33	3+	7.2	B5ne	6-6-6	" 5 "	good
							12/2	" 7 "	OK

IP.H.E.103-a-0

MC SC MTW STW SW
 Sep. 2. -30° +43° +4.8° +0.3° +1.30°

Plates loaded thus

20524	20525	20526	20528
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149

Date Wed. - Thurs. Sept. 2-3, 1959 Observer We - Mo Julian Day 2434.623

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Ever Angle End
20537	MWC 278 HD 164284	19° 55.3'	+4° 22'	I-25	Cramer High-Speed	0.008	33.2	19 ^m 58 ^m	20 ^m 01 ^m	3	0° 34'
	"	"	"	"	"	"	"	20 02	20 08	"	0 41'
	"	"	"	"	"	"	"	20 09	20 21	"	0 59'
20538	MWC 292 HD 168957	18 17.3	+25 01	"	"	0.008	33.2	20 30	21 10	4	1 21'
20539	MWC 310 HD 172648	19 00.5	+23 11	"	"	0.008	33.2	21 16	21 54	1	1 22'
20540	MWC 350 HD 196712	20 34.0	-2 46	"	"	0.008	"	22 01	22 07	4	1 00'
	"	"	"	"	"	"	33.2	22 08	22 20	"	0 14'
	"	"	"	"	"	"	"	22 20	22 44	"	1 37'
20541	V451 Ophiuchi central star in NGC 7023	18 ^{24.5} 26.7	+10 49	"	E-103a-0	0.008	33.1	22 50	23 50	2	3 54'
20542	HD 200725	21 00.4	+67 47	"	Cramer High-Speed	0.008	+33.2	23 59	00 51	4	2 20'
20543	HD 188001	19 47.9	+18 25	"	"	"	133.0	01 07	01 49	1	4 30'
20544	32 Cygni	20 12.4	+47 24	"	F103-a-0	0.008	"	02 01	02 03	3	
	"	"	"	"	"	"	"	02 06	02 10	"	
	"	"	"	"	"	"	+33.0	02 12	02 20	"	4 36'
20545	MWC 29 HD 13661	02 08.1	+54 04	"	F103-a-0	"	+33.1	02 55	03 55	1	2 14'
20546	MWC 76 HD 23982	03 44.3	+63 11	"	"	"	+33.1	04 02	04 30	"	2 42'

Dome Temp.

Focus 15'

Dome Temp.

Ever Angle
End

Dome Temp. 87°F.

Focus 15.917

Dome Temp.

Etrapatata focal chart

Transparency Conditions *Very good*

Some snow in north part of time, as times bright and in cloud, but fine much of time.

Ending Time L.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h	34 ^m W + 4° 21'		0!!!	4.8	B _{5ne}	9-9 ⁵	Set 2: Heard's Be - program	Image looking wh
0	41W	"	"	"	"	6-6-6	" 5	Time recorded look
0	54W	"	"	"	"	6-6-6	" 8	from clock. Bright star in field. fine
1	21W + 25° 01'		0-0!	6.9	B _{7c}	6-6-6	Set 2	Time recorded fine
1	22W + 23° 14'		0	6.9	B _{3e}	6-6-6	Set 5 <i>from start</i>	fine
0	00W - 2 36		1+	6.3	B _{7c}	6-6-6	Set 2	Only star (and high) wh
0	14W	"	1+	"	"	6-6-6	Set 5	No sketch wh
0	37W	"	1+	"	"	6-6-6	Set 8	good
3	54W + 10 51		1	7.9	A ₀	4-4-4	Set 5	<i>birds on lake flying about inside dome. Heard's eclipsing binary. <u>flexure</u></i> look
2	20W + 68 00		1-2	(7.5)	B _{5ne}	6-6-6	Set 5	Milton's Be spec. star in NGC 2003 fine
4	30W + 18 33		0-1	6.2	O ₇	6-6-6	" 5	Oke's star. fine
			2	4.16	cK ₅ +A	12	" 1/2	} Ok.
			2	"	"	6-6	" 5	
4	38W + 47.32		2	"	"	4-4-4	" 8 1/2	
0	14W + 54 17 1/2		1-2	8.6	B _{3ne}	4-4-4	" 5	Be. star. Field does not check to me. fine
0	42E + 63 21		2	8.1	B _{3e}	4-4-4	" 8 1/2	fine

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp. +7.8° F

Ending Time
R.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
05 00 2	1 44W	2	5.8	K ₃	4-4-4	Set 1 Ho star	} ok												
05 06 "		"	"	"	4-4-4	" 4													
05 09 30	+33 19½	"	"	"	6-6	" 7 3 ph loaded - all E103a-0													
					12-8	" 10½	focus ok.												
					sp. 3	<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> </tr> <tr> <td>-30.5</td> <td>+47.0</td> <td>-01.0</td> <td>+0.3</td> <td>-48.0</td> <td>+1.52</td> </tr> </table>	MC	SC	MTW	STW	S	SW	-30.5	+47.0	-01.0	+0.3	-48.0	+1.52	ME +15.5
MC	SC	MTW	STW	S	SW														
-30.5	+47.0	-01.0	+0.3	-48.0	+1.52														

Date *Tues Sept 3-4/53* Observer *Ad* Julian Day *2434624*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20548	HD 175863 MWC 308	18 52.3	59 53	I-25	Hypered	008	31.9	19 36	20 26	2	W 06m
20549	V45187h	18 24.5	10 49	"	E103aD	<u>016</u>	31.8	20 32	22 02	3	W 08
20550 A	HD 187671	19 46.2	10 10	"	"	<u>016</u>	31.9	22 05	22 15	3	W 10
" B	HD 198183					008	32.0	22 16	22 36	3	W 12
20551	MWC 352	20 43.5	36 07		Hypered	008		22 41	22 45	2	W 08
							32.0	22 46	22 54		W 092
								22 54	23 16 ¹⁶		W 104

Dome Temp. 85 F

Transparency Conditions Poor

154

Focus 15.912

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 26	2	W 06m	59 57	0!	6.9	B4e	6-6-6	Be Prsq. Bright annular with Corona	good
22 02	3	W 2 08	31 01 10 51	0	7.9-	A0	2-2-2 set 5 Ecl. bin.	Star very faint. Prob. in primary eclipse. also haze	weak
22 15	3	W 1 00	10 15	0	5.78	F8	3-3	set 1 stalled. Haze worse.	good
22 36	3	W 1 20		1			3-3-3	" 9 " "	good
22 45	2	W 0 33		1	4.5	B6e	9-9	set 1 Be prsq. Haze still worse.	
22 54		W 0 42	36 18	1			9-9	Set 5	
23 16 ¹⁶		W 1 04		2			9-9	" 9 star gone.	fine

1+4 loaded with 103a0
3 " " Airspeed

	MTW	STW	MC	SC	S	SW	NE
Sep. 4	-04.0	+0.3	-31.6	+48.3	-48.5	+2.17	+19.7

Dome Temp. 66


Focus 15.739

Dome Temp. +61°F

Beautiful green auroral arc across northern sky. - 120 Large spot just west of Castor and Pollux varying rapidly in brightness.

Transparency Conditions Fair

About 125 Visitors shown M13 Ring Nebula. Saturn and β Cyni with 4"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 35 3	32 13	0	7.0	Bone	6-	Be Prog. Set 5 Focus 15.730	
22 16 00	"	"	"	"	6-6-6	Set 9 Changed to 15.739	
22 43 2	18 30	1 1/2	6.2	07	6-6-6	OK 1/2" +  Slight astigmatism. ←	fine
23 30 3	61 38	0-1	6.6	Bone	6-6-6	Be	
3 48 00.2		1+	5.2	B3ne	9-9	Be prog. Set 1 1/2	
3 54 30.		"	"	"	9-9	" " " 5	
0 06	0 07 E +48 26	"	"	"	6-12	" " " 8 1/2	
0 74		2-	5.7	Ko	6-6	Ho star " 1 1/2	
0 44		2.	"	"	6-6	" " " 5	
0 1 02	0 18 E -05 59	2+	"	"	4-4-4	" " " 8 1/2	
0 2 11	1 06 W +61 57	1	8.2	B3e	4-4-4	Be prog. " 2	
0 3 13	0 14 E +59 25	1+	8.2	B3e	4-4-4	" " 8	
0 3 24		2	5.18	F9	9-9	Std. Vel. " 1 1/2	
0 3 30		"	"	"	9-9	" " 5	4 pH loaded with Hi Speed plates.
0 3 39	1 13 E +00 16	"	"	"	9-9	" " 8 1/2	
0 5 10	0 53 E +43 11	1	8.3	Gop	4-4-4	Bidelman's Star. 4 12.8 9	fine

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Date Sun. Mon. Sep. 6-7 1953. Observer (Mo) O - H v Julian Day 2434627

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20561	HD 188001	19 47.9	+18 25	I-25	Hi Speed	Long slit 0.008	+23.0	19 32	20 06	1	0 59E+
20562	"	"	"	"	"	"	+23.0	20 06	20 36	"	0 29E
20563	"	"	"	"	"	"	+23.0	20 36	20 52	"	0 13E
20564	"	"	"	"	"	"	+23.0	21 31	21 49	4	0 44W
20565	"	"	"	"	"	"	+23.0	21 49	22 05	"	1 01W
20566	"	"	"	"	"	"	+23.0	22 05	22 21	"	1 16W
20567	"	"	"	"	"	"	+23.0	22 22	22 38	2	
20568	"	"	"	"	"	"	+23.0	22 38	22 58	"	1 54W
20569	"	"	"	"	"	"	+23.1	22 58	23 16	"	2 15W
20570	"	"	"	"	"	"	+23.0	23 16	23 34	3	2 38W
20571	"	"	"	"	"	"	+23.0	23 34	23 41	"	
20572	"	"	"	"	"	"	+23.1	00 22	00 44	"	3 40W+
20573	"	"	"	"	"	"	23-2	00 44	01 02	4	1 04W
20574	"	"	"	"	"	"	+23.4	01 32	01 42	"	1 08
20575	M.W.C. 13	0124-6	+62 51	"	"	Normal	23-5	01 59	02 43	1	1 01W
20576	" 49 Focus Test	0224-4 A.T.B.	70 30	"	"	"	23-7	02 52	04 40	2	

Dome Temp... +70°F

Focus.....15:761.....

Dome Temp.....62°F

Transparency Conditions Good after the clouds departed. 158

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 06		0 59E	+18 31	1½	6.2	O7	6-6-6	Set 1½ Clouds - star disappearing intermittently fine	
20 36	"	0 29E	"	2	"	"	6-6-6	" 5 effective starting time 20 18, due to clouds good	
20 52		0 13E	"	1-2	"	"	6-6-6	" 8½ Clouded out	lucide
21 49	4	0 44W	"	2	"	"	6-6-6	" 1½	fine
22 05		1 01W	"	2-3	"	"	6-6-6	" 5	fine
22 21		1 16W	"	"	"	"	6-6-6	" 8½ Flexure	fine
22 38	2		"	2-3	"	"	9-9	" 1½ No guiding	good
22 5		1 54W	"	2	"	"	9-9	" 5	good
22 16		2 11½W	"	"	"	"	9-9	" 8½	lucide
23 34	3	2 30W	"	2	"	"	9-9	" 1½	fine
23 41			"	"	"	"	9-	" 5 Effective ending 23 39 Clouds 23 39 -	—
30 44		3 40W	+18 32	1-2	"	"	9-9	" 8½ 4PH - loaded - in spec	fine
4		4 04W	"	1	"	"	9-	" 1½	fine
7+		4 38W	"	1	"	"	9-9	" 5	fine
3		00 01W	63 05	1-2	7.5	CB(6)e	6-6-6	" 2 Be Prog.	
057.W		70 44		0-1	8.0	Byne	6-6-6	" 5 9	Flexure

163

Date Wed-Thurs Sept 9-10, 1953 Observer O-Har Julian Day 2434.630

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 End
20594	HD 175578	18 50.9	+29 54	I-12	E103a-D	Set .008	+21.0	19 18	19 56	3	0 ^h 00 ^m W
20595	AG 9364	18 51.3	+29 ²⁶ 52	"	"	"	+21.0	19 58	20 54	3	0 58 W
20596	+4° 4762	21 49.1	+4 30	"	"	Set .016	+21.0	21 02	23 12	4	0 18 W
20597	HD 197550	20 39.3	+29 51	"	"	Set .008	+20.8	23 19	00 07	2	0 23 W
20598	HD 197605	20 39.7	27 06	"	"	"	20.7	00 13	01 18	1	0 33 W
→ 20599	" 11397	01 46.9	-16 48	"	"	.016	20.7	01 38	03 34	4	0 03 W
20600	" 29587	04 34.5	41 57	"	"	"	20.9	03 43	03 59	1	0 16 E
20601	"	"	"	"	"	.008	20.9	04 22	04 24	1	0 16 E
	" (28236)	Much too faint. Looks about 9th mag at best.									
20602	" 27532	04 15.7	29 25	"	"	"	20.8	04 51	05 03	3	0 16 E
	Focus Test	OST B									

Dome Temp. 67°F

Transparency Conditions Good

164

Focus 12.934

Dome Temp. 55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 56 3	0 ^h 00 W	+29 58	0-1	8.35	G5	2-2-2	Set 2 AG-25	strong
20 54 1	0 58 W	+26 56	1-2	8.96	K0	2-2-2	" 8 "	strong
23 12 4	0 18 W	+4 45	1	9.9	G0	1-1-1	" 2 Hi Vel.	strong
00 07 2	0 22 3 W	+30 01	1-2	8.81	K0	2-2-2	Set 2 AG-25	fine
01 18 "	0 33 4 W	27 16	1-0	8.54	K0	2-2-2	" 8 " " Telescope guiding very poorly. " "	fine
0 37 "	0 04 3 W	-16 34	0	9.5	F8*	2-2-2	" 8 Hi-Vel. * Book says G8 III	fine
0 9 "	0 14 1 E	42 01	0	7.85	G0	2-2	" 2 Std. Vel. Guiding lousy	strong
0 54 "	0 11 6 E	"	0	"	"	2-2-2	" 8 " "	strong
05 5 3	00 17 E	29 30	0	7.7	A2	3-3	" 2 K-A. 48	Too weak.
						4/3	" 9	weak, poor centre part.

2 P.H. 103 a.O.

165

Date Thurs - Fri Sept 10/11, 1953 Observer H. - Ludwig ^{H₂} Julian Day 24346.31

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20603	HD 178029	19 ^h 02. ^m 0	+29° 11'	F-12	E10320	let .008	22.4C	19 ^h 25 ^m	20 ^h 25 ^m	1	0 ^h 32 ^m W
20604	HD 191875	20 ^h 07. ^m 0	+29 25	"	"	"	22.4	20 31	21 21	"	0 ^h 13 ^m W
20605	HD 192287	20 09.0	+24 56	"	"	"	22.3	21 25	22 20	2	0 ^h 10 ^m W
20606	HD 195790	20 28.3	+27 10	"	"	"	22.2	22 23	23 15	"	0 ^h 46 ^m W
20607	HD 198854	20 44.0	+28 10	"	"	"	22.2	23 19	00 25	3	0 ^h 4 ^m W
20608	HD 208750	21 53.3	+26 45	"	"	"	22.1	00 32	01 36	"	0 ^h 3 ^m W
20609	+53° 104	00 31.2	54 05	"	"	"		01 53		4	
	HD 29587	"	"	"	"	.016	22.3	02 12	04 12	"	0 ^h 10 ^m W
20610	HD 29587	21 34.5	41 57	"	"	"	22.4	04 23	04 35	1	0 ^h 03 ^m E
20611	"	"	"	"	"	.008		04 35	04 55	1	0 ^h 13 ^m E
	Flare Test.										

Dome Temp. 6
Focus 1275
Dome Temp.

Dome Temp. 67°F

Transparency Conditions Poor - some haze & cloud

166

Focus 12.834

Dome Temp. 59°F

Some Aurora early in the night.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ^h 32 ^m W	+29° 14'	0-1	8.7	K ₀	2-2-2	AG Set 2 Flexure	fine
00 13 W	+29 32	1-2	8.8	K ₂	2-2-2	AG Set 8 R.A. Clamping Switch arcing.	fine
01 10 W	+25 04	1-2	8.86	M ₃	2-2-2	AG Set 2 Transparency improving	good
01 46 W	+27 19	1-2	8.33	K ₀	2-2-2	AG Set 8 Increased exposure time, since off meridian.	fine
02 41 W	+28 19	1-2	8.70	K ₀	2-2-2	AG Set 2	fine
02 42 W	26 59	1-2	8.7	G ₅	2-4	AG Set 8 Guiding very poor	1 in.
			(9.3)	A ₀	2	" 2 Hi-Vel. Forgot to widen slit	
02 40 W	54 24	0-1	"	"	1-1-1	" 5 "	good
01 03 E	42 02	0	7.85	G ₀	1-1-1	" 2 Std. Vel.	fine
00 43 E	"	0	"	"	2-2-2	" 6 "	fine

poor guiding
Badly out of focus
Misty even thin
Badly out of focus
overlapping circles
Centre very far to blue

4/3

Sep 11 ^{MC} -39.8 ^{SC} +3.7 ^{MTW} -0.8^S ^{STW} +2^m ^S -52.8 ^{SW} -31^S ^{ME} +18.2

1. P.H. loaded E₁ 3-1

Dome Temp. 67°F

Transparency Conditions poor, too much cloud

1:68

Focus 12.934

Sat. Sep. 12. Showed 25 visitors 74" - N-Mo

Dome Temp.

Sky completely overcast.

32

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 53W	29 13'	0	8.83	G0	1-0-	sel 2 - AG 25 " 8	Flexure overcast, soon after starting wk.
					4/3	2 P.H. loaded	all right

Sept. 14

MC	SC	MYU	SWW	SW	S	ME
-42.0	+6.5	-16.0	.0	+25.5	+10.7	+18.8

Date Mon Sep 14-15, 1953 Observer Hd - Hv Julian Day 243.4635

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
{ 20613	HD 177251	18 58.8	29 09	I-12	E10320	008	+15.0	19 16	20 52	3
{ 20614	HD 192286	20 09.2	+30 11	"	"	"	+15.0	20 56	21 56	3
→ 20615	HD 198273	20 44.1	-9 01	"	"	016	+15.1	21 03	22 05	4
{ 20616	HD 192405	20 09.6	+27 14	"	"	008	+15.0	22 12	22 46	1
{ 20617	HD 196928	20 35.3	27 44	"	"	008	+15.1	22 51	23 31	1
→ 20618	+17° 4708	22 06.7	17 36	"	"	016	15.0	23 43	01 17	4
20619	H.D. 11397	01 46.9	-16 48	"	"	"	15.0	01 27	03 07	2
	29587									
	Found Test: T.B.					.008				

Dome Temp.
Focus... 12
Dome Temp.
Hour Angle
End
1 08m
1 02m
1 035
1 1 51
2 11
2 5 W
3 36m

Dome Temp. 59 F

Transparency Conditions *good*

170

Focus 1.2 937

Dome Temp. 49

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 08m	29 11	0-1	8.42	K0	2-2-2	Sit 2 AG prog.	fine
W 02m	30 19	0-1	8.75	G5	2-2-2	" 8 AG "	fine
W 0 35	-8 51	0-1	9.00	G2	1-1-1	Ret 2 Roman Hi Vel.	fine
W 1 51	27 21	1	8.42	G0	2-2-2	" 2 AG prog.	strong
W 2 11	27 55	1-2	8.58	K5	2-2-2	" 8 AG "	fine
0225W	17 50	1-2	9.8	F2	1+1	" 8 Roman Hi Vel. (guiding)	fine
00 36W	-16 33	0-1	9.5	F8	1-1-1	" 2 " " " 0245 Clouds in W.	fine
						0503 Star Gone	
					4/3	" 9	not in h but a to violet
						H.P.H.	

Dome Temp. +56° F.

Focus 12.933

Dome Temp.

Transparency Conditions ^(19 00) Clouds in W. at beginning, drifting north
Some haze.
20:30 very thick

172

Ending Time
L.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 13 W	+29 13	0+	8.83	G-0	2-2-2	Set 2 AG-25 8 Focus Test 6/5 3 PH loaded	Flexure fine

Dome Temp. +48

Focus 121933

Dome Temp.

Transparency Conditions Good

174

cloud in South
Clearing about midnite EST.

Clouded over several times to top 2000 FT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 09W	60 16	0	8.9	07	22-2	Matthew's * set 2	good
					8/6	" 9 0327	light
						Clouds + haze.	
						0330 Star gone	
						Flash lite Kaput.	
						2 P.H.	

Date *Thurs. Sept 17-18/53* Observer *L. Hr* Julian Day *2434638*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20622	AG. 10837	20 01.8	29 26	I-12 $\frac{1}{2}$	E-103A ₀	Set .008	14.8	19 20	20 26	3	0 10 E
20623	" 11036	20 10.6	26 29	"	"	"	14.8	20 30	21 36	3	0 52 W
20624	H.D. 193488	20 15.4	27 06	"	"	"	14.8	21 43	22 33	4	1 45 W
20625	" 194510	20 20.9	25 24	"	"	"	14.8	22 37	23 11	4	2 17 W
20626	AG. 12398	21 17.0	29 51	"	"	"	14.8	23 18	00 20	1	2 32 W
20627	+17° 4708	22 06.7	17 36	"	"	.016	14.8	00 30	02 40	2	2 00 W
20628	+50° 1359	06 44.6	50 46	"	"	"	15.0	03 09	05 09	2	2 25 E
	<i>From List 57B.</i>					.008					

Dome Temp. $+56^{\circ}\text{F}$

Transparency Conditions *Good*

176

Focus *12.933*

Dome Temp. *47*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 10 E	29 36	0	8.84	G ₀	2-2-2	Set. 2 A.G. 25	<i>fine</i>
0 52 W	26 38	0	8.93	G ₅	2-2-2	Set. 8 "	<i>fine</i>
1 45 W	27 15	0-1	8.57	G ₅	2-2-2	Set. 2 "	<i>strong,</i>
2 17 W	25 32	0-1	8.33	G ₅	2-2-2	Set. 8 "	<i>strong</i>
0230 W	30 04	1	8.98	K ₀	2-2-2	Set. 2 "	<i>strong</i>
0400 W	17 51	1	(9.8)	F ₂	1-1-1	" 2 Hi Vel. Flexure	<i>fine</i>
0209 E	50 42	1-2	10.32	A ₀	1-1-1	" 7 " "	<i>strong</i>
					8/6	" 9 " "	<i>all night</i>

2 P.H. + 8 In Dome

Sept 18. Ne Sc NW SW S SW NE
 -45.2° $+11.9^{\circ}$ -10.0° $+1^{\circ}$ -3.3° $+19^{\circ}$ $+16.2^{\circ}$

177

Date Fri. Sept 18-19/53 Observer HO - MO Julian Day 2434639

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20629	V451 Oph	18 ^h 24 ^m .5	+10° 49'	I-25	Hi-Speed	set .008	15.2C	19 ^h 08 ^m	19 ^h 41 ^m	1	20 45 W
20630	"	"	"	"	E103uO	set .016	15.2	20 14	22 14	3	23 20 W
Reopened Dome - few very small clouds scattered about 23 ^h 15 ^m - Mo											
20631	MWC 61 HD 19243	3 00.7	+ 62 42 00	I-25	Hi Speed	set 0.008	+14.5	00 30	00 48	1	2 44 E +
20632	MWC 82 HD 26420	4 05.7	+ 41 53	"	"	"	+14.4 +14.2 +14.0	01 17	02 31	2	2 09 E +
	Focus Test	O.T.B.					+14.0			"	

Dome Temp.

Focus 15.6

Dome Temp.

Dome Temp. 58°F

Focus 15.649 Reset 15.635 at 00h

Dome Temp. 55°F

Transparency Conditions Monthly Partly Cloudy 178

Fri. Sept. 13 L.

Changed to 25" Camera 12 1/2" was Focus 12.933 25" is Focus 15.639
Northern sky covered with brilliant green aurora Tilt 20.35 Tilt 23.17

Ending Time I.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 41	1	00 48 W	10° 49'	000	7.9	A0	6-12	Set 5 Used slit setting, emulsion etc so in 20525 Intermittent cloud. - Closed in at 19 41 ^m	too wk.
22 14	3	03 20 W	" "	000	7.9	A0	6-6-6	Clouds thinned out - Tried faster emul ²² + wider slit - Moon (aurora) contr ^{ing} Exposure cut & started again many times during exposure because of cloud.	no number good
								1 P.H. + 8 in dome	
00 48	1	2 44 E at 02 31	+62 10	1+	6.5	Bre	6-6-6	Set 5 Be star, 1st half of exposure through thin clouds Star gone at 02:27	Too wk
02 31	2	2 04 E	+41 58	1-	7.6	B3nex	6-6-6 20-14	" 5 1:26 - 1:40 - star almost completely gone - haze Thermostat pointer not making good contact with wire	Too wk
								" 9 P.H #3 - Hi Speed } in dome P.H #4 - E 103-a-0 } Me SC Hye Ste S S W 4E	
								Sye 21 -17.0 +15.6 -36.2 -.3 ^m -7.4 +16 ^s +19.2 ^s	

Dome Temp. 57 F

Transparency Conditions

180

Focus 12.933

Dome Temp. 47

Changed to 12 1/2" camera 25" was Focus 15.635 12 1/2" is Focus 12.933
Silt 23.17 Silt 20.35

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 15	4	W 1 28	26 15	0	9.74	F2	1-1-1	set 2 Roman Hi Vel	flexure strong
22 13	1	W 1 37	28 04	0	8.53	K0	2-2-2	set 2 AG clouds 2235-2243	fine
23 20	1	W 2 41	30 25	0	8.42	G5	2-2-2	" 8 AG. First set telescope way west in effort to preclude flexure	fine
00 39	-	00 29W	-09 56	0	8.5	G3	2-2-2	" 8 Roman Hi Vel	fine
01 51	3	03 24W	54 21	0	9.3	A0	1-1-1	" 2 " " 0108 Patches of cloud Auraca	fine
02 10	-	02 10E	42 00	0	7.85	G2	1-1-1	" 5 Std. Vel. * Pointer on bridge Resat.	strong
02 32	-	02 32E	"	0	"	"	2-2-2	" 8 " " 0410 Galv. near.	strong
03 11	-	03 13W	43 10	0	8.3	Gop	2-2-2	" 5 Bidel mass *	fine
							8/6	" 9	extra to violet
								P.H. #2 5103-10 + 1)	
								" 3 Hi Sp.	
								How Mo.	

G₂ - G₂
C₂ - C₂

Tues-Wed
Date ~~200~~ Sept. 22-23/53 Observer O - L Julian Day 2434643

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
20641	Focus Test					set 008	+13.0			
	B Aql	¹⁹⁵⁰ 19 52.9	¹⁹⁵⁰ +06 17	F-12	E103u0	"		(19 00 ["])	(19 01 ⁰⁰)	2
	"							19 01 ⁵⁰	19 03 ⁰⁰	
	"							19 05 ³²	19 07 ²²	
20642	E Cyg	¹⁹⁵⁰ 20 44.2	¹⁹⁵⁰ +33 47	"	"	"		19 08 ⁰⁹	19 10 ⁴⁵	
	"							19 20 ²⁰	19 20 ³⁶	
	"							19 20 ⁰⁰	19 20 ³²	
	"							19 22	19 22	
20643	♂ Peg	¹⁹⁵⁰ 22 49.8	¹⁹⁵⁰ +09 34	"	"	"	+13.0	19 23 ²²	19 24 ¹⁷	
	"							19 24 ⁵⁰	19 25 ¹²	
	"							19 24 ²⁷	19 37 ²²	
	"							19 36 ⁵⁵	19 39 ⁴⁵	
20644	HD 205027	¹⁹⁰⁰ 21 27.3	¹⁹⁰⁰ +0 34	"	"	set 016	+12.8	19 37 ¹⁵	19 47 ¹⁵	
	+4° 4762	¹⁹⁰⁰ 21 49.1	¹⁹⁰⁰ +4 30	"	"	"	+12.3	19 47 ⁴⁵	19 51 ⁵⁰	
20645		¹⁹⁰⁰ 21 49.1	¹⁹⁰⁰ +4 30	"	"	"	+12.3	20 04	20 56	
20646	HD 20570.0	¹⁹⁰⁰ 21 32.0	¹⁹⁰⁰ +29 05	"	"	set 008	+12.5	21 00	23 36	

Dome Temp. *54° focus 12.936 changed to 12.946 before beginning to observe*

Transparency Conditions *Good*

Dome Temp.

Reading Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					8/6	Set 0	
19 01		0	4.90	G8		4 Stand Lum.	49
19 03						6	70
19 07						8	110
19 10	00 53E	0.6	17			10	156
19 20		0	3.64	K0		1 Stand Lum.	
19 22						3	
19 27						5	
19 28	01 29E					7	
19 31		0	5.72	F7		1 Stand Lum.	
19 37						3	
19 47						5	
19 55	03 09E	0.9	32			7	
20 56	0 45E + 0	0.47	0	8.9	G2 1-1-1	Set 2 High Velocity	
21 36	1 33W + 4	0.47	0.1	9.9	G2 1-1-1	Set 8 " " 22:35-23:00	
19	2 33W	29	18	0.1	8.21	G0 2-2-2 " 2 AG.	

52
55

1/2

line

Spectrograph heater apparently stopped working. Rest and work.

strong
strong
strong

Date..... Sep. 22-23 cont'd..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
206 47	✓ And	01 33.8	+41 09	1-12 $\frac{1}{2}$	103a-0	.008	+12.0	00 27	00 58	3
								12 26	12 26	
								00 25	00 25	
								12 27	12 28	
								00 58	00 38	
								12 28	12 30	
206 48	α Tri	01 50.2	+29 51	1-12 $\frac{1}{2}$	103a-0	.008	+12.0	00 31	00 41	4
								12 49	12 49	
								00 05	00 35	
								12 50	12 50	
								00 56	00 46	
								12 50	12 51	
206 49	γ Ari	02 42.3 43	+23° 13'	1-12 $\frac{1}{2}$	103a-0	.008	+11.8	00 37	00 47	1
								12 59	12 59	
								01 13	01 22	
								01 13	01 31	
								01 13	01 01	
								01 13	01 00	
206 50	16 Per	02 47.4	+39° 09'	1-12 $\frac{1}{2}$	103 a-0	.008	+11.7	01 53	01 03	2
								13 10	13 11	
								01 13	01 12	
								13 11	13 12	
								01 31	01 51	
								13 12	13 13	
01 12	01 52									
01 14	01 15									

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

11 E

0 07 E

1 48 E

1 42 E

185

Date... Sep. 22-23 cont'd... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20651	36 PER	03 28.9	+45° 53	1-12 ¹ / ₂	103a-0	=008	+11.9	2 03 ⁰⁵	2 04 ³⁵	
								07	37	
								2 05	2 07 40	
								57		
2 08	2 12 45									
								38		
								2 15	2 22	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

1-16 E

Dome Temp.....

Transparency Conditions

Focus.....

Dome Temp.....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
33					5.63	F ₄₁₀		lt 1	1 ^m 30	too strong
07 37								3	2 ^m 30	"
07 00								5	3 ^m 30	"
07 12								7	5.0 blue cloud	"
07 22		1 16 E								
<p>Sky clouding over completely</p> <p>3 P.H.s loaded + 4 H. on M.</p>										

Date Wed - Thurs Sept 23-4, 1953 Observer Ho - HV Julian Day 2434644

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20652	HD 192031	20 07.7	-15° 43'	I 12 1/2	E103a0	Set 016	14.7	19 ^h 03 ^m	20 ^h 30 ^m	4	00° 13' W
20653	BD +26° 35' 78"	19 28.4	+26 07	"	"	"	14.6	20 35	22 30	1	02 12 W
20654	HD 224383	23 52.3	-10 12	"	"	"	14.5	22 37	23 05	1	00 57 E
20655	HD 1368	00 12.7	-00 11	"	"	"	14.4	23 13	00 33	1	00 11 W
20656	+53° 104	00 31.2	+54 05	"	"	"	14.1 13.9	00 44		2	
							13.8	00 49		"	03 11
20657	A.G. 3682	06 55.3	26 22	"	"	"	14.1	04 02	04 52	3	02 2 E
20658	H.D. 29581	04 34.5	41 57	"	"	"	14.0	05 00	05 10	1	03 11

Sept. 24 Had the secondary dew up while setting telescope ran it down and dried with heater. Covered secondary and waited. Started dewing over 1 hr. later when uncovered again. Then haze and clouds. Primary OK with heat on!

Dome Temp. 55°F

Transparency Conditions Good - (None) (None)

188

Focus 12.946

Dome Temp. +44

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
20 ¹ 30 ^m	+	00 ^m 13 ^m W	-15° 35'	00-0	9.4	G-8	1-1-1	Set 2 Roman High Velocity OK. S preprocessed incorrectly.	Field agreed with 20633!	fine	
22 30		02 52 W	+26 18'	00-0	9.74	F2	1-1-1	Set 8	- (Note & reading)	fine	
23 05		0 57 E	-09 55'	0	8.5	G2	1-1-1	Set 2	} Plate loaded backwards! - Reset Heater in sp. Plate heated & removed after 5m exposure to check if 200 was hot or not	fine	
		00 11 W	+00 05'	0	9.4	G0	1-1-1	Set 8			fine
				0!	9.3	A0	1	" 2			fine
		03 07 W	54 23	"	"	"	1+1	" 4			fine
		02 12 E	26 18	1	8.82	G5	2-2-2	" 5 A.G. 25		Strong	
		00 03 LW	42 00	1-2	7.55	G0	2-2-2	" 7 S.H. 01	Number of 20633 is 21	fine	
							8/6	" 7		fine	
									* Much brighter than 20633		

3 P.H.
 Hon. M.
 Plate Used

	MC	SC	HVV	SPW	S	SW	ME
Sept 24	- 2 ^s	+20.6	-18.0	.0 ^m	-9.4	+22 ^s	+19.2

Dome Temp. 58°F

Focus 12.946

Dome Temp.

Transparency Conditions Poor - some light cloud

190

Ending Time R.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 40	-01	11 E	-09 55	0	8.5	G2	1-1-	<p>field as in 224383</p> <p>set 2 off between 21:50 - 22:07 - Oil in gear stuck</p> <p>Clouded in - No third comparison</p> <p>5/2 1/2 set 9</p> <p>2 PH - Plates needed</p>	<p>fine</p> <p>all right</p>

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

Transparency Conditions *good*

Focus *12.9x6*

Dome Temp. *41.1*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
1 ^h 40 ^m W	+26° 17'	0	9.7 ^m	F2	1-1-1	Set 2 Roman High Vel. } Occasionally scattered clouds. Driving clock mod too slow,	<i>fine</i>																								
1 ^h 3 ^m W	+ 0 48	0-	8.9	G2	1-1-1	Set P " " " } compensation only by nearly constant faster slow motion	<i>fine</i>																								
0 43 W	+17 0	0	8.52	K0	1-1-1	Set 2 Stand. Vel.	<i>strong</i>																								
0 28 W	- 9 56	0+	8.5	G2	1-1-1	Set 8 Rom. th. Vel. temp. control reset at beginning of exposure	<i>strong</i>																								
0 0 17 W	39 56	0	8.52	K5	1-1-1	" 2 Std. Vel.	<i>strong</i>																								
0 0 57 W	"	0	"	"	2-2-2	" 8 " "	<i>fine</i>																								
1 53 E	50 42	0	10.32	(A0)	1-1-1	" 2 Hi. Vel.	<i>good</i>																								
0 0 51 W	43 11	0	8.3	Gop	2-2-2	15 Bidelmans	<i>fine</i>																								
					2/6	19	<i>all right</i>																								
IPH + 8																															
Horn M																															
<table border="0"> <tr> <td>NE</td> <td>SE</td> <td>NW</td> <td>SW</td> <td>S</td> <td>ME</td> </tr> <tr> <td>^s</td> <td>^s</td> <td>^s</td> <td>^s</td> <td>^m</td> <td>^s</td> </tr> <tr> <td>Sept 28 -6.2</td> <td>+16.5</td> <td>-5.7</td> <td>-3.6</td> <td>+11.0</td> <td>-12.5</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+24.5</td> </tr> </table>							NE	SE	NW	SW	S	ME	^s	^s	^s	^s	^m	^s	Sept 28 -6.2	+16.5	-5.7	-3.6	+11.0	-12.5						+24.5	
NE	SE	NW	SW	S	ME																										
^s	^s	^s	^s	^m	^s																										
Sept 28 -6.2	+16.5	-5.7	-3.6	+11.0	-12.5																										
					+24.5																										

Dome Temp. +64°F

Focus.....12.946

Dome Temp.....54

Transparency Conditions Hayrat first then better

194

Lost 10 mins. finding star in hay

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 22	1	0 08 W	27 54	1	9.?	G5	2-2-2	Set 2. A.G. 25 s. prec. of double.	level
21 17	1	1 02 W	27 40	1-0	8.68	K5	2-2-2	Set 8. "	level
21 47	2	1 32 W	26 45	1-0	8.09	K0	2-2-2	Set 2 "	strong
23 10	2	2 26 W	30 27	1-0	9.?	G0	2-2-2	Set 8 "	fine
	3	02 42 W	29 25	1-0	8.5	G5	2-2-2	Set 2 "	fine
		00 12 W	39 55	1-2	8.52	K5	2-2-2	" 5 Std. Vel.	strong
		20 13 W	52 55	0	8.9	CB ₂₅	2-2-2	" 2 Matt. Prog.	good
		01 2 W	60 17	0	8.9	G7	2-2-2	" 7 " "	good
		01 33 E	25 07	0-1	8.86	K0	2-2-2	" 2 A.G. 25 Difficulty in identifying field.	fine
							2/6	" 9 all	light
4 P.H. Plates Needed.									
Hon-M.									

Dome Temp. 56 F

Transparency Conditions Clearing after sunset, 196

Focus.....

Dome Temp.....

50

Ending Time
R.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
E 10 ^m	-9 51	0	9.0	G ₂	1-1-1	Set 2 Roman Hi'kel.	good																
W 2 49	+26° 17	0	9.74	F ₂	1-1-1	" 8 " " " <i>first part, tel. 3 hrs went to preclude pleasure clouds during last 1/2 hour</i>	good																
<i>Clouds persisting closed 22⁴⁵.</i>																							
<table border="0"> <tr> <td></td> <td>Mc</td> <td>Sc</td> <td>Urc</td> <td>Str</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>Sept 30</td> <td>-8.0^s</td> <td>+19.5^s</td> <td>-0.2^s</td> <td>+0.1^m</td> <td>-24.0^s</td> <td>+13.5^s</td> <td>+21.2^s</td> </tr> </table>									Mc	Sc	Urc	Str	S	SW	ME	Sept 30	-8.0 ^s	+19.5 ^s	-0.2 ^s	+0.1 ^m	-24.0 ^s	+13.5 ^s	+21.2 ^s
	Mc	Sc	Urc	Str	S	SW	ME																
Sept 30	-8.0 ^s	+19.5 ^s	-0.2 ^s	+0.1 ^m	-24.0 ^s	+13.5 ^s	+21.2 ^s																

197

Date Wed. Thurs. Sept 30 - Oct 1, 1953 Observer O - H v Julian Day 2434.651

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20679	HD 154942	17 03.5	+28 16	I-12	E103a-0	Set .008	+19.7	18 48	19 24	2
20680	HD 160508	17 35.2	+26 49	"	"	"	+19.7	19 27	20 03	2
20681	+4° 4762	21 49.1	+4 30	"	"	Set .016	+19.4	20 11	21 51	3
20682	HD 1368	0 12.7	-0 11	"	"	"	+18.7	21 57	22 47	3
20683	HD 3567	0 33.5	-8 51	"	"	"	+19.0	22 53	00 13	4
20684	" 3765	00 35.3	39 40	"	"	"	18.9	00 21	00 43	4
20685	"	"	"	"	"	.008	18.8	00 45	01 33	1
20686	" 4268	00 40.0	27 25	"	"	"	17.3	01 41	02 53	1
20687	" 6286	00 58.7	26 04	"	"	"	18.2	03 03	04 03	2
20688	A.G. 1143	02 01.9	29 09	"	"	"	18.0	04 09	05 25	2
	<i>Exposure Test</i>				<i>O.F.B.</i>					

Dome Temp... +62°F

Focus... 12946

Dome Temp... +50

Transparency Conditions... Good... A few thin clouds at 10:00
for 4 hr after sunset.

198

Ending Time I.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 24	2	2 ^h 38 ^m W	+28 11	0	8.14	K0	2-2-2	Std 2 AG-25 Taken 3:30 W to prevent flaring at beginning	good
20 03	2	2 ^h 46 W	+26 47	0	8.23	G0	2-2-2	" 8 "	good
21 51	3	0 ^h 19 W	+4 45	1-	9.9	G2	1-1-1	Std 2 High Velocity	fine
22 47	3	1 ^h 08 E	+0 06	1+	9.4	G0	1-1-1	" 8 "	fine
00 13	4	00 02 E	-8 35	1-	9.7	F4	1-1-1	Std 2 " "	fine
00 43	4	00 25 W	39 56	0	8.52	K5	1-1-1	" 8 Std. Vel.	fine
01 11	4	01 16 W	"	0	"	"	2-2-2	" 2 " "	fine
01 53	4	02 31 W	27 41	0-1	9.0	G5	2-2-2	" 8 A.G. 25	good
02 03	4	03 24 W	26 19	0-1	8.61	G0	2-2-2	" 2 " "	good
02 22	4	03 41 W	29 24	0	8.93	G5	2-2-2	" 7 " "	good
							8.6	" 9	center to vi

2 P.H. + 8
Hon M.

Dome Temp. +63°F

Transparency Conditions *Good*.....

1200

Focus *12.946*.....

Dome Temp. *50*.....

Mic. Rae with 3yr. M+P. Showed M15, with 174."

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 00	3	0 15-W	29 34	0	8.84	K ₂	2-2-2	Set c. A.C. 25 flexure	<i>fine</i>
20 43	3	0 35W	25 40	0	8.19	G ₅	2-2-2	Set 8 " " " "	<i>fine</i>
22 01	4	1 47W	25 52	0	8.51	G ₀	2-2-2	Set 2 " " " "	<i>fine</i>
23 30	4	3 14W	30 06	0	8.61	K ₂	2-2-2	Set 8 " " " "	<i>fine</i>
00 43	1	00 03E	25 58	0	8.83	K ₂	2-2-2	Set 2 " " " "	<i>fine</i>
00 27E		29 31		0	8.89	G ₅	2-2-2	" 8 " " 0102 Power off for about 20"	<i>good.</i>
00 21W		33 25		2	10.5	C B ₂	2-2-2	" 2 Matt.* 0347 Power off. 2"	<i>too strong</i>
							8/6.	" 8.	<i>all right.</i>
								2 P.H. + 4.	

Dome Temp... 63°F

Transparency Conditions... Good

202

Focus... 12.946

Dome Temp... 54°F

53

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^h 33 ^m	01 ^h 20 ^m W	+27° 05'	0	8.72	M3	2-2-2	Sit 2; AG; Starting delayed for repair of R.A. clamp.	good.
22 50	0 58E	+00 05	0	9.4	G0	1-1-1	Sit 2, High Velocity (N.R.)	fine
	0 38W	-08 24	0	9.7	F4	1-1-1	Sit 8, " " "	fine
	0 03W	-00 37	1	7.5	K0	1-1-1	2 Std. velocity	fine
	0 17W		1			2-2-2	8 - " -	fine
	1 07E	+26 23	1	8.93	G0	2-2-2	8 AG 25	fine
	3 05E	26 36	1	8.84	K0	2-2-2	2 " image mistead,	strong
	4 36E	26 38	1-2	8.19	K0	2-2-2	8 " "	strong
	2 13E	26 12	2	8.78	G5	2-2-2	2 " "	strong
	2 11E	24 57	2	8.25	K0	2-2-2	7 " light clouds scattered clouds	strong
						8/6	10	at night

1 PH loaded
 Oct 3 MC SC MW STW S SW ME
 ^S ^S ^S ^m ^m ³ ^S
 -9.3 +24.9 -29.5 -.3 -.5 +15.7 -14.2

Dome Temp. +63°F

Transparency Conditions Not good

: 204

Focus 12.946

Sat Oct 3. 200 visitors shown ring nebula - Mo

Dome Temp. +63°F

654

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 01 A	2 47W	+29 26	0-1	8.33	Ko	2-2-2 Set 2 AG 25	last 5 min. Star almost invisible during <i>to work</i>
					8-6	" 8	Completely overcast 23:10 <i>all night</i>
						A pH loaded, 8 plates in box in dome	

Dome Temp. 54°F

Transparency Conditions Good, receding clouds in SW

Focus 12.946

Dome Temp. 46

206

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 11 E	26 12	0	8.61	K5	2-2-2	set 2 AG 25	good
0 53 W	29 05	0	8.84	K0	2-2-2	8 " Flexure	fine
2 23 W	27 02	0!	8.91	G0	2-2-2	2 " "	fine
3 04 W	25 58	0	8.07	G5	2-2-2	8 " "	fine
04 25 W	56 55	0	10.0	B0m	2-2-2	2 Matt. star Time low ident bying the field	lucid
01 10 E	13 40	0	9.3	O9n	2-2-2	8 " "	fine
01 55 E	29 21	0!	7.50	G7	2-2-2	5 std Vrl. 0430 Southern SKY hazy & cloudy	good
					8/6	" 9 0520 Thru cloud.	all right

1 P.H. + 7

Hor. M-

	Mc	SC	MPW	STC	S	S	ME
Oct 5	-10.7	+28.0	+33.8	+4	-1.5	+17	-16.5
7	-12.0	+31.1	-22.2	-4	-2.9	+23.1	-17.2

Dome Temp. 50°F

Focus 12.946

Dome Temp. 45

Transparency Conditions Good until 23:00

208

Ending Time L.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 19	1	0 31 E	+29 26	2	8.33	K0	2-2-2	Set 2 AG 25	fine
19 54	1	0 01 E	+28 37	2 ⁺	8.65	G5	2-2-2	8 "	fine
20 16	2	0 15 W	+27 53	2 ⁺	8.30	G5	2-2-2	2 " Hr 4, S, field check. Shortened. Seems far too bright exposure	v. strong
20 40	2	0 24 W	+30 12	2 ⁻	8.05	G0	2-2-2	8 "	fine
20 59	3	2 08 E	+27 59	2 ⁺	7.47	G0	2-2-2	2 "	strong
01 04	4	1 00 E	+37 32	2-3	9.99	F	2-2-2	Set 2 Cluster programme (23 00 Thick haze in skyland West. Clearing off about 23 35)	fine
01 33	4	1 34 E	+30 05	2	7.64	G5	2-2-2	" 8 AG 25	fine
01 51	1	03 01 E	+26 55	(2) 1	8.51	A-G	2-2-2	" 2 "	fine
01 55	5	01 54 E	26 13	0-1	9.0	M0	2-2-2	" 8 "	weak
01 57	5	01 52 E	29 00	0!!	8.89	G0	2-4	" 2 "	nothing
							8/6	" 9	right

0020 Hue

0315 Transparency & Seeing Very poor

0330 MUCH WORSE !!

Extinct. 2 or 3 Mags

2 P.H. Plates Needed.

Hor M.

Oct 9	MC	SC	ARC	SPC	SW	S	ME
	-12.8	+33.5	-50.3	-51.7	+26.5	-40	-17.8

Cloudy till 2015

Dome Temp. 52 F

Transparency Conditions

210

Focus set 15.617

Dome Temp.

Oct 9 Changed to 25" camera

12 1/2 was Focus 12.946 25" is Focus 15.600
Silt 20.35 Silt 23.17

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 37	3	W 4 05	+10 53	1	7.9	A0	3-3-3	set 2 Ed Bin. set just 4 hrs w to avoid flexure Suspect optic temp went up. something wrong. Field in finder very confusing but mount's eyepiece clinches it. Convex dec. quick button rarely works.	good
00 30?	4	O 35 E	37 37	3-2	10.2		2-2-2	" 2 O's prog. 8/6 Clouds from 00.00 on all night star gone at 00.30 Closed up at 2.30 sky thick. 4 PHs loaded + 8 H on M.	good

211

Date *Mon. Tues. Oct 12-13/53* Observer *Ho - H* ✓ Julian Day *2434.663*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20726	V 451 Oph	18 24.5	+10 49	I 22	E103a0	<i>lit</i> 008	11.9	18 41	20 00	1	22 39 W
20727	NGC 752 #311	01 52.9	+37 20	"	"	<i>lit</i> 016	11.9	20 19	02 31	2	2 43 W
20728	M.W.C. 83	04 01.1 10.1	45 58	"	Hi-Spd.	008	10.0	02 46	05 26	1	02 21 W
	<i>Test</i>	<i>Test</i>			<i>O.9B</i>						

Dome Temp. 48 F

Transparency Conditions Good

Focus 15.592

(9 Pleiades is visible to Ho)

Dome Temp. 37

212

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 00 02 39 W	+10 49	00	7.9	A0	4-4-4	Set 5 Ecl. Bin.	low
20 03 01 43 W	+37 35	1-0-1	10.1		2-2-2	Set 5 Os Mag, seeing reached 0-1; 23 ³⁰	good flexure
00 26 02 21 W	46 07	0-1	8.6	B3)hc	6-6-6	11.5 20/15 " 9.	fine focus ok
P.H. #3 & 4 loaded E103-a-O. +8P ₁₀₀							
" " 2 loaded Hi Speed. Plates Needed							
Pat 13 ME _s SC _s MTW _s STW _m S _s SW _s ME _s -13.9 +38.0 +23.8 +.4 -7.2 +36 +12.8							

213

Date Tues. Oct 13-14/53 Observer L. Fox Julian Day 2434664

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20729	V451. Oph.	18 24.5	+10 49	I-25	E-103a-O	set .008	+11.7	18 34	20 38	5
20730	NGC 752, 213	01 51.6	+37 17	"	"	.016	+11.7	22 25	02 55	4
20731	γ Tauri H.D. 27371	04 14.1	+15 23	"	"	"	+13.5	03 10 05	03 10 41	1
								03 14 30	03 15 42	
								03 16 00	03 16 24	
20732	δ Tauri H.D. 47697	04 17.2	+17 18	"	"	"	12.3	03 28 40	03 29 22	3
								03 31 20	03 32 44	
								03 34 05	03 36 53	
20733	ϵ Tauri H.D. 48305	04 22.8	+18 58	"	"	"	12.8	03 47 50	02 48 26	4
								03 50 00	03 51 12	
								03 53 00	03 54 24	
20734	α Tauri H.D. 49120	04 30.2	+6 19	"	"	"	13.4	04 08 20	04 08 22	1
								04 10 00	04 10 04	
								04 11 40	04 11 48	

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

Transparency Conditions *Good*

214

Focus *15.598*

Dome Temp. 40°F

R.A.S.C. showed M15 with 74"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 23W	10 51	0	7.9	Ao	4-4-4	Set 5 Eclipsing Bin.	fine
2 12W	37 34	0-1	10	P	2-2-2	Set 5 Oke's programme Flexure	fine
			4.60	Ko III		set 2 Sand. giants	fine
					1-2-2		strong
0 13W	15 20	1					strong
			4.72	Ko III			fine
					2-2-2		strong
0 29W	17 25	1					strong
			4.58	Ko III			fine
					2-2-2		strong
0 40W	19 05	1					strong
			2.29	K5 III			weak
					3-3		fine
0 50W	16 24	1					strong

215

Date cont. Observer _____ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20735	β Geminorum	07 39.2	+28 16	I-25	F103-a-0	.016	+14.0	04 28 60	04 28 02	3
	HD. 62509							04 30 04		
								04 32 50		
20736	HD. 57386 Focus Test	07 15.9 O.T.B.	-08 15	"	"	^{all} .008	13.5	04 55	05 49	4

Dome Temp. _____

Focus _____

Dome Temp. _____

Error Angle
End

0.5E

0.7E

Dome Temp.....

Transparency Conditions.....

216

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1	2:15	KO III.	set 2	band. giants.	fine
					3-3	5	strong
01 58E	28 07				8	notice different dec ^{All right.} - reading! ^{penitency}	
0 17E	-08 22	1-0	8.1	BSuc	2-2-2	set 2 Be star	fine
					8/6	10 coup at set 8 by mistake	all right
						PH. no 1 + 3 Eastw. no 2 Hi-Speed	

217

Date WED OCT 14-15 1953 Observer MR - H v Julian Day 2434.665

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20737	MWC 320	19 41.3	+5 44	I-25	1030-0	.008	+14.0	19 03	20 03	1
20738	NGC 752-208	1 52.0	+37 12	"	"	.016	+14.1	20 23	01 23	3
20739	HD. 29587	04 34.5	41 57	"	"	.016	14.2	01 38	01 54	1
20740	"	"	"	"	"	.008	14.2	01 56	03 00	1
	MWC 93									
	Focus Test.				O.F.B.					

Dome Temp. 15.0°F

Transparency Conditions

218

Focus 15.627

Dome Temp. 4.8

Ending Time L.A.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 03	1 33 W	+5 51	1+	8.5	BSne	4-4-4	Some dds at 19:40	lwb
01 23	0 04 W	+37 24	1	10.0		2-2-2	Clouds in S & W but region clear west of time	good best flux
01 54	0 29 E	42 01	1-2	7.85	G-2	2-2-2	set: 2	fine
10	0 22 E	"	0	"	"	4-4-4	" 7 0200 Clear Patches NE, E, S, Remainder clouds + haze	fine
							0310 Hopeless.	from cx
						16/10	" 9	
							P.H. #2 loaded H ₁ -Speed.	
							P.H. # 1, 3, 4 " E103-a-O.	

219

Date Thurs Oct 15-16/53 Observer Hd - Hr Julian Day 2434.666

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20741	V451 Oph.	18 24.5	10 49	I-25	E103a0	012	16.9	18 30.	19 30	3	1222
20742	MWC 317 HD 183143	19 23.0	18 05	"	"	012	16.9	19 34	20 04	4	1157
20743	MWC 352 HD 192445	20 09.8	36 02	"	"	008	16.8	20 10	20 32	4	1139
20744	MWC 347 HD 195592	20 27.2	43 59	"	"	008	16.2	20 36	20 58	1	1148
20745	MWC 397 HD 218393	23 02.6	49 40	"	"	008	16.1	21 04	21 20	1	0 25E
20746	MWC 353 HD 198478	20 45.5	45 45	"	Hypered	008	16.1	21 26	21 32	2	
								21 32	21 36		
								21 36	21 38		11210
20747	MWC 360 HD 200310	20 57.6	45 47	"	Hypered	008	16.1	21 43	21 51	4	
								21 52	21 56		
								21 57	21 59		1220
20748	MWC 381 HD 208682	21 52.9	64 52	"	Hypered	008	16.8!	22 07	22 23	2	1148
20749	NGC 752 # 209	1 51.2	37 00	"	E103a0	016	17.0	22 47	03 41	3	1148
20750	MWC 86	04 01.5	-13 17	"	Hrs pd.	008		03 00	03 01	4	1148
	"	"	"	"	"	"	17.4	03 05	03 13		
	"	"	"	"	"	"		03 14	03 30		

Dome Temp. 6.1 F

Focus 15.662

Dome Temp.

Transparency Conditions *hazy*

220

0130 Aurora

Ending Time
L.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 30	W 2 22	10 52	1-0	7.9	A10	3-3-3	Set 2 End beam. <i>Went out to 3 hr to avoid pressure</i>	good
20 04	W 1 57	18 10	0-1	6.9	^{B3NE} B3NE	3-3-3	set 2. Be prog.	good
20 32	W 1 39	36 12	0	7.1	B2NE	4-8	" 8 " "	fine
20 58	W 1 48	44 08	0-1	7.2	B1SE	4-4-4	" 2 " " <i>Heat not coming on. Be prog needs help.</i>	good
21 22	E ? 25E	49 55	1	6.8	AUR	4-4-4	" 8 " " <i>Lead to reset temp control</i>	
21 32			1	4.9	B3NE	4-8-4	" 1 Be Prog.	
21 36			1			16	Set 5	fine
21 38	W 2 10		1			16	" 9	
21 54		45 59	1	5.2	B3NE	8-	Set 1 Be Prog.	fine
21 56						16	" 5	
21 59	W 2 20					16	" 9	
22 33	W 1 48	65 06	0	5.8	B3NE	8-8	Set 1 Be prog. <i>on + off orbit w/c wind.</i>	fine
22 40	300 12 W	37 16	0	9.75		2-2-2	" 2 <i>blaster prog. Pretty, some of field.</i>	fine
22 40	00 03E		0!	5.5	B3NE	6-6-6	" 5 Be Prog.	
22 43	00 06W	-13 10	0!	"	"	6-6-6	" 2	
22 43	023 W	"	"	"	"	6-6-6	" 8	

Dome Temp. 51°F

Transparency Conditions Good.

222

Focus.....

Dome Temp. 50

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
4:43	0218W	6213	0.	6.5	B ₂ e	6-6-6	set 5. Be Prag. * Galv. Rebalanced.	fine																
5:11	0156W	4310	1-2	8.3	Gop	4-4-4	" 5 Bidelman's *	fine																
5:22	0254W	1926	1-2	6.45	K ₁	4-4-4	" 7 Std. Vel.	fine																
						16/10	" 9.	focus OK																
P.H. #2+3 Hi-Speed + 18																								
" #1+4 E103-a-0 + 4																								
<p>Hom-M₋</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>SW</td> <td>S</td> <td>SW</td> <td>HE</td> </tr> <tr> <td>Oct 16</td> <td>-14.2</td> <td>+43.0</td> <td>+28.3</td> <td>+1.4^m</td> <td>-7.0^s</td> <td>+35^s</td> <td>-10.2</td> </tr> </table>										MC	SC	MTW	SW	S	SW	HE	Oct 16	-14.2	+43.0	+28.3	+1.4 ^m	-7.0 ^s	+35 ^s	-10.2
	MC	SC	MTW	SW	S	SW	HE																	
Oct 16	-14.2	+43.0	+28.3	+1.4 ^m	-7.0 ^s	+35 ^s	-10.2																	

223

In lat.

Date *Oct. 16/17-53* Observer *Ho - H v* Julian Day *2434667*

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 End
20754	HD 208220	21 ^m 49.7	+43° 01'	E 12 1/2	E10320	<i>let</i> 008	19.0 C	18 30	21 00	4	06 32N
20755	#108, NGC 752	01 50.8	+37 32	"	"	"	19.1	21 15	23 15	3	01 16E
20756	HD 44615	06 17.6	+29 01	"	"	"	19.7	23 26	00 38	4	04 19E
20757	" 51690	06 53.3	25 22	"	"	"	19.3	00 46	01 46	4	03 15E
20758	" 51689	"	25 23	"	"	"	19.0	01 49	03 19	1	02 13E
20759	A.G. 3682	06 55.3	26 22	"	"	"	18.7 12.7	03 25	04 05	1	01 37E
20760	H.D. 52765	06 57.4	25 14	"	"	"	18.4	04 12	04 56	4	00 20E
20761	" 52101	06 54.8	29 54	"	"	"	18.6	05 01	05 34	4	00 00E
20762	" 65583	07 54.3	29 31	"	H. Spd.	"	19.0	05 41	05 57	3	00 36E
	<i>Fraunhofer Test</i>				<i>O.T.B.</i>						

Dome Temp. 63°F

Transparency Conditions Hazy

224

Focus 12.946

Dome Temp. 51

Oct 16 changed to 12 1/2" camera 25" was Focus 15.662 12 1/2" is Focus 12.946
Tilt 23.17 Tilt 20.35

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 00	00 ^h 32W	+43° 15'	1	10.2	BoK	2-2-2	set 5 Matthew's Prog. - Some aurora.	red & blue (fine)
23 15	01 16E	+37 48	1	9.6		2-2-2	set 5 Oke's Prog. - Heat control working well.	(fine)
00 00	04 19E	28 59	1	8.9	G ₀	2-2-2	set 2, A.G. " " not " " ?	(fine)
00 46	03 47E	25 18	0-1	8.8	G ₀	2-2-2	" 7 " Southern of pair. Aurora	(fine)
01 00	02 13E	"	1-2	9.4	G ₀	2-2-2	" 2 "	(fine)
01 05	01 29E	26 19	2	8.82	G ₅	2-2-2	" 8 " Auroral Arch & Streamers poorly recorded (L. strong)	(fine)
01 36	00 40E	25 10	2	8.86	K ₀	2-2-2	" 2 "	strong
01 35	00 00 -	29 46	2-1	8.63	G ₅	2-2-2	" 8 "	(fine)
01 55	00 36E	29 20	2-1	7.50	G ₇	4-4-4	" 2 Std. Vel.	(fine)
						20/15	" 9 c. sl. to red	
							P.H. # 1 local E103-a-0 Plates No. 1	
							" # 2 " Hi Speed	
							Hon M.	

Try focus 12.936

Dome Temp. +65°F

Focus.....12.936.....

Dome Temp.....

Transparency Conditions Fairly good..... Heavy ground haze.

300-400 visitors shown M15 + Moon with 4"

Aurora at 21 + 22nd - dawn

226

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 32	1	0 11 E	+28 28	1	8.0	A0	2-2-2	Set 2. K.A. With focus 12.946.	strong
18 52	1	0 28 W	+31 31	1	7.60	A0	2-2-2	" 8 K.A. Focus set at 12.936 for this etc.	strong
19 10	2	0 55 W	+27 37	2	7.62	G0	4-4-4	" 5 K.A.	later
00 5 3		0 02 E	+37 31	3-4	10.30	F5	2-2-2	" 5 Cluster programme.	strong
		4 09 E	29 24	3	8.64	G0	2-2-2	set 2 AG. 25	later
		3 48 E	29 47	3	8.63	G5	2-2-2	8 "	later
		3 26 E	27 13	2	8.54	K0	2-2-2	2 "	
		3 12 E	28 49	2	8.98	G5	2-2-2	8 "	fine
		2 56 E	25 41	2-3	8.54	K2	2-2-2	2 " parking	fine
		2 44 E	27 12	2	8.68	K2	2-2-2	8 "	strong
		2 02 E	27 22	2-3	8.98	K2	2-2-2	2 "	fine
		1 30 E	27 22	2	8.93	K2	2-2-2	7 "	fine
							S/6	10	all set
								3 RA loaded, 4 in box	

Dome Temp. +60°F

Focus 12.936

Dome Temp. +55°F

Transparency Conditions Fairly good. Some ground fog.

23:00 a few clouds.

23:40 solid

228

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 55	0 48 W	+44 20	0	7.96	K0	2-2-2	Set 2 K.A.	fine
19 19	1 00 W	+31 35	0	7.75	A0	2-2-2	8 "	fine
9 46	1 22 W	+27 42	0	8.0	A0	2-2-2	Set 2 "	fine
20 2	1 46 W	+28 51	0-1	8.0	A0	2-2-2	8 " "	fine
22 34	1 48 E	+37 31	1-2	10.4	F5	2-2-	" 9 Cluster Programme. Set Arc compar 2 ^s 1 at setting 5.6	fine
0	0 41 E	+37 48	2	9.8	G8	2-2-2	" 2 " Clouded out 23:25	weak.

4 Ph. loaded with 1030-0
Plates needed.

	NE	SE	MPW	SW	SW	S	NE
Oct 20	-15.2	-1.7	+4.5	1.0 ^m	-17 ^s	-9.4	-9.5

229

Date Tue - Wed Oct 20/21 1953 Observer Bro - L Julian Day 2434671

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20781	BD + 34° 3872 HD 627704	20 02.4 20 02.4	+35 03 +34 28	I 10 1/2	F103-a-0	all .008	19.5	18 38	20 28	1	21.0
20782	195325	20 25.5 20 25.5	+10 34 +27 10	"	"	"	19.6	20 44	20 47	1	3.0
20783	NGC 752, No 238	01 52.5 ²	+37 21 ⁴	"	"	all .016	19.6	21 04	23 54	2	21.0
20784	NGC 752 No 41	01 50.0	+37 00	"	"	"	18.7	23 59	01 40	2	27W

Dome Temp. 60°F

Transparency Conditions good

Focus 12.936

230

Dome Temp. 154°F

Ending Time
P.M.T.

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

2.30

2	12W	+35 13	0	94	B ₀	2-2-2	set 2 } Time lost identifying the star notice the large dec. difference!!	low
---	-----	--------	---	----	----------------	-------	--	-----

2.40

1	58W	+10 44	0-1	60	B ₂ II	2-2-2	8 } Mather's stars	strong
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2.50

0	21E	37 41	1-2	1040	F5	2-2-2	2 } Cluster prog.	fine
---	-----	-------	-----	------	----	-------	-------------------	------

01.4

1	27W	37 14	1-2	1029	?	2-2-2	Set 8 } Haze and light clouds from 01.00 star gone at 1.40. By 02.00 very heavy fog.	fine
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2 P.H.s loaded with E103a-0
H on M plates needed.

231

Date Wed - Thurs Oct 21-22 '53 Observer MR - H v Julian Day 2434672

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20785	H.D. 194914	20 23.1	+14 08	I-12	Hi Speed	^{act} .008	17.5	18:24	18:57	1	-0:3
20786	H.D. 194935	20 23.2	+14 38	"	"	"	17.5	19:04	19:40	1	-0:55
20787	NGC 752-206	1 51.3	+37 19	"	103a-0	^{act} .016	17.2	00:00	00:04	3	-0:09
20788	" " - 75	01 50.3	37 28	"	"	"	17.3	00:14	00:44	3	35W
20789	H.D. 49500	06 43.6	25 36	"	"	008	17.1	02:57	03:01	4	16E
20790	" 51689	06 53.3	25 23	"	"	"	17.2	03:55	04:45	4	0:33
	<i>from Test</i>					<i>J. 8/B</i>					

Dome Temp... 61°F

Transparency Conditions Fair

234

Focus... 12.936

Dome Temp... 51°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 16	09 16	0	8.9	06	2-2-2	Matthews * Set 2, set telescope too far W first to preclude flex.	weak
W 2 11	35 10	0-1	8.8	06	2-2-2	" 8 Matthews *. * very red! - something wrong! check Ma's trick	weak
0010W	37 27	1	10.51	F5	1-1-1	" 2 O's cluster prog. Temperature bad!	fine
0215E	42 01	0-1	7.85	G2	1-2	" 8 Std. Vel.	fine
0132E	4	0-1	"	"	2-2-2	" 2 " " quivering!	fine
0357E	24 42	0-1-2	7.73	G5	2-2-2	" 8 A.G.	fine
0421W	37 23	2-3	10.40	?	1-1/2-1	" 2 Oke's Prog Flexure	fine
0007E	26 56	1-2	8.19	K0	2-2-2	" 2 A.G. Galv. Rebalanced	strong
0035W	29 15	1-2	8.54	G5	2-2-2	" 8 "	strong
					8/6	" 5	strong

3 P.H. +4

11.00 AM

	MC _S	SC	H _{0W}	SW	S	SW	ME
Oct. 23	-16.3	-1.7	+9.5	+1.0	-10.1	-11.5	-17.5

Dome Temp. 54°F

Transparency Conditions Hazy

236

Focus 12.936

Dome Temp. 44

New Bolt Needed in Spotting Room.

Ending Time L.S.T.	Hour P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 37	1	4 01W	+14 33	0	7.2	B0.5 ^{II}	2-2-2	Set 2 Matthew's Prog.	fine
18 54		01 01W	+47 41	0	6.7	B0.5 ^{II}	2-2-2	Set 8 " "	no stream
19 44	2	01 40W	+32 00	0	8.3	B0.5	2-2-2	Set 2 " "	weak
19 53		1 30W	+37 19	0	6.0	B2 ^{II}	2-2-2	Set 8 " " Temp Control?	strong
20 15		0 19W	+37 44	1	10.52	F5	2-2-2	Set 2 Ohio Prog. - 21 50 Clouds ^{exp cut} 21 ⁵³ -22 ⁰⁹	fine
20 27		3 10 E	28 54	1	8.6	K0	2-2-2	" 2 A.G.	good
20 42		4 5 E	29 24	1	8.64	G0	2-2-2	" 8 "	flexure
20 58		02 00 E	29 15	1-0	8.54	G5	2-2-2	" 2 "	fine
21 00		00 22 E	25 09	0	8.86	K0	2-2-2	" 8 "	fine
21 05		00 30 W	26 25	0	8.63	K0	2-2-2	" 2 " 0305 chuds 0320 clearing Flexure	strong
21 08		00 03 W	29 21	0	7.50	G7	2-2-2	" 5.5 Std. Vel	fine
							8/6	" 9 "	all right
								IP.H. Plates Needed	
								H M	
								MC SC MYW STW S SW ME	
								Open 29 -17.1 -1.4 +23.7 +.4 ^m -12.9 -4 ^s -20.5 ^s	

237

Date Thurs-Fri Oct 29/30 1953 Observer McC - Av Julian Day 24346.80

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20811	H.D. 188854	19 52.1	+46 24	I12 $\frac{1}{2}$	Hi-Speed	set .008	+9.8	18 16	18 40	2	1 15
20812	189214	19 53.8	+26 59	"	"	"	9.9	18 45	19 19		1 15
20813	189236	19 53.9	+26 57	"	"	"	9.8	19 11	19 43	3	2 15
20814	191766	20 06.5	+29 58	"	"	"	9.7	19 48	20 16		2 15
20815	198977	20 48.9	+28 46	"	"	"	9.4	20 24	20 50	4	2 15
20816	200468	20 58.5	+27 55	"	"	"	9.2	20 54	21 22		2 15
20817	NGC 752, 401	01 49.2	+37 20	"	E103-a-0	set .016	9.0 8.3	21 32	00 52	1	2 15
20818	B.D. 47° 782	03 06.1	47 52	"	Hi-Speed	.008	8.4	01 04	01 55	2	2 15
20819	" 49° 876	03 06.8	49 15	"	"	"	8.7	01 26	01 56	1	2 15
20820	" 49° 879	03 11.6	49 53	"	"	"		02 02 ³⁰	02 03 ³⁰	3	2 15
								02 06 ¹⁰	02 07 ¹⁰	"	2 15
							8.9	02 10 ⁰⁰	02 12 ⁰⁰	1	2 15
20821	" 49° 900	03 11.7	49 26	"	"	"	9.2	02 22	03 13	1	2 15
20822	" 48° 882	03 12.6	48 17	"	"	"	9.3	03 22	04 06	1	2 15
20823	50° 738	03 13.1	50 37	"	"	"	9.2	04 13	04 39	1	2 15
20824	51° 728	03 16.5	51 25	"	"	"	9.2	04 44	05 34	"	2 15

Dome Temp. 46°F

Transparency Conditions good

238

Focus 10.936

Dome Temp.

Reading Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 00 W	46 34	0	7.62	A2	4-4-4	set 2 K.A. prog.	fine
1 27 W	27 07	0	8.00	A0	4-4-4	preceding N follows one of the not listed	fine
2 00 W	"	0	8.4	A0	4-4-4	following S preceding all K.A. prog.	fine
2 21 W	30 07	0	7.65	A5	4-4-4	"	fine
2 13 W	28 56	0	7.7	A0	4-4-4	"	fine
2 35 W	28 07	0	7.8	A2	4-4-4	"	fine
01 14 W	37 36	0	10.4	K0	1-1-1	5 O's cluster prog. 0047 Galv. Rebal.	fine
00 25 W	47 59	0-1	6.7	G5	4-4-4	" 2 α Persei Cluster - 176	strong
01 00 W	49 22	0-1	7.2	B9	4-4-4	" 8 " " " - 212	strong
		0-1	4.2	B3	12	" 2 " " " - 383	weak
					12	5	level
01 12 W	50 01				12	8	fine
02 12 W	49 34.5	0	7.8	A0	4-4-4	" 2 " " " - 386	strong
03 05 W	48 40	0	7.6	A0	4-4-4	" 8 " " " - 423	strong
03 38 W	50 50	0	7.0	B9	4-4-4	" 2 " " " - 411	str
02 27 W	51 37	0	7.7	A0	4-4-4	" 8 " " " 575 Telescope Dr. 5" in K.A.	15

Dome Temp.....

Transparency Conditions.....

Good.

240

Focus.....

Dome Temp... *40°F*

Ending Time
Z.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

+02 26

0

5.53

K3

12

1

Std. Vel.

12 4

"

017W

0-1

4-4-4

7

"

16/10 10

P.H. # 3 & 4 loaded HiSpeed

20 HiSpeeds.

12 E103-a-0

H. on. M.

*fine
all night*

	MC	SC	MW	STW	S	SW	ME
<i>Oct. 30</i>	<i>-18.8</i>	<i>-3.4</i>	<i>-16.5</i>	<i>-0.7</i>	<i>-14.6</i>	<i>17.5</i>	<i>+18.7</i>

Home Temp. +52°

Transparency Conditions

242

ocus. 12.936

Home Temp. +41.1°

Ending Time P.M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:03	4:04	+56° 22'	0-1	6.6	A0	4-4-4	Set 2 Mar. Cl. Prog.	very strong
18:03	3:25	+66 45	1	7.1	A0	4-4-4	" 8 " " " Dbl.	very strong
19:24	2:31	+62 33	1	7.7	A0	4-4-4	" 2 " " " Also Dbl. (highly comp.)	strong
20:24	2:37	+59 34	2	6.7	A0	4-4-4	" 8 " " "	strong
21:24	2:07	+68 37	2	7.9	A2	4-4-4	" 2 " " " Also Dbl! Bottom comp in 74" field (speckly) Equal by chance; sup. diff. length	strong
21:02	1:31	"	2	7.9	"	4-4-4	" 8 " " " Left & Top comp.	strong
21:13	4:09	+37 24	2	10.55	F5	1-1-1	" 8 O's C.P. (10" on set 2 & diff. 0.08 by mistake)	fine
21:07	004E	+48 56	1-0	7.7	A0	4-4-4	" 2 α Pers. Cluster. Galv. Rebal.	fine
21:07	0025W	47 41	1	7.8	A0	4-4-4	" 8 " Galv. Rebal.	strong
21:07	0032E	24 57	1	8.29	K2	1/2-1/2	" 2 A.G.	good
21:07	0117E	26 35	1	8.84	K0	1-1-1	" 8 " 0250 Few Clouds	fine
21:07	0043E	26 37	1	8.19	K0	1-1-1	" 2 " "	fine
21:07	0035W	28 37	0	8.91	G0	1-1-1	" 8 " Galv. Rebal.	fine
21:07	0018W	29 20	0	7.50	G7	4-4-4	" 2 Std Vel.	fine
						16/10	" 8 1 P.H. + 7 E 103-0-0	slight
							17 Hi Speed from M.	

Sat Oct 31 - Nov 1 about 50 visitors. Showed M/15 with 74". Then cloudy

243

Date Tues-Wed Nov 3-4/53 Observer Ad- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
20840	V4518ph.	18 24.5	+10 49	I-25	E103aD	012	13.4	17 54 18 00	19 22.	2	3 28 +
	changed back to		I-12.	till	20.35	70um		12.937			
{ 20841	H D 193488	20 15.4	27 06	I-12	E103aD	008	13.3	19 48.	20 48	3	3 04 +
{ 20842	HD. 194510	20 20.9	25 24	"	"	"	+13.5	20 52	21 48.	3	3 59

Thin clouds

Dome Temp. 51 F.
Focus 15.615
Dome Temp.

Transparency Conditions good

244

Oct 3 changed "12 1/2" was {filt. 20.35
to 25" camera "12 1/2" was {focus 12.937 25" is {filt 23.17
{focus 15.624

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 22	W 3 28	+10 53	0	7.9	A0	3-3-3	set 5 Eelbin. set 3 1/2 w to avoid flexure. Windy	1 wk
20 48	W 3 04	+27 16	0	8.57	(G5)	2-2-2	set 2 AG. 7 inst ret to 4 h w. Had to re-set heat.	
20 53	W 3 59	25 34	0	8.33	G5	2-2-2	" 8 AG. Clouds 21 20-21 35 again 2448.	1 wk
Dash of rain at 22 20. Few drops on mirror								
Nov. 3 - 20.3 -5.6 -5.8 +.1 ^m -14.8 +18.2 ^s -20.8 ^s								

245

Date Shure 9.5-6/53 Observer L-Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End	
20843	HD. 227018	19 56.1	35 02	I-12 $\frac{1}{2}$	E-103A ₀	set 008	+2.3	18 05	19 25	4	208W	
20844	NGC. 752, 193	01. 51.5	36 55	"	"	.016	+2.4	19 40	23 10	1	003E	
20845	HD. 236954	02 05.5	58 43	"	"	.008	+2.3	23 20	00 20	4	053W	
20846	B.D. 48° 865	03 07.1	48 16	"	"	"	$\frac{2.5}{2.8}$	00 29	01 59	1	0130W	
20847	K Cet.	¹⁹⁵⁰ 03 16.7	¹⁹⁵⁰ +03 11	"	"	"		02 14 ⁰⁰	02 15 ⁰⁰	2		
								02 17 ⁰⁰	02 19 ⁰⁰			
									02 20 ³⁰	02 23 ³⁰		
								2.3	02 25 ⁰⁰	02 29 ³⁰		0155W
									02 48 ⁰⁰	02 49 ⁰⁰	3	
20848	56 Ori	¹⁹⁵⁰ 05 47.2	¹⁹⁵⁰ +01 50	"	"	"		02 51 ⁰⁰	02 53 ⁴⁰			
								02 55 ⁰⁰	02 59 ⁰⁰	2.5		
								03 00 ³⁰	03 06 ³⁰	2.3	020W	
20849	A.G. 4836	¹⁹⁰⁰ 09 02.5	¹⁹⁰⁰ 27 57	"	"	"	$\frac{2.0}{2.3}$	03 38	05 42	4	0245E	
20850	H.D. 90588	10 36.3	-01 13	"	"	"	2.0	05 50	06 06	"	049E	
	From Test.			O.P.B.								

Dome Temp. $+36^{\circ}F$

Transparency Conditions

Good

246

Focus 12.937

Dome Temp. $+24$

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 25	4	208W	35 11	0	8.8	O ₆	2-2-2 Set 2 Mathews' prog.	Weak
23 10	1	003E	37 11	0	10.5	F ₅	1-1-1 Set 2 Cluster prog.	fine
	4	0032W	58 53	0	8.9	cB ₂₅	2-2-2 Set 8 Mathews' prog.	weak
	1	0130W	48 21	0!	9.0	A ₇	2-2-2 " 8 & Pers. Cluster	fine
					5.74	G ₅ V	6 " 1 Cr Prog'	
			0!!				6 4	
							6 7	fine
		0155W	+0310.5				6 10	
			0!	6.0	K ₂ II		6 1 Cr. Prog'	
							6 4	?
							6 7	
		0001W					6 10	
		0040E	27 42	0!	(9.35)	G ₀	2-2-2 " 2 A.G. 25 North following	fine
		0149E	-01 32	0	7.40	K ₁	2-4 " 5 Std. Vel.	fine
							8/6 " 9	
							MC SC MFW STE S SW ME S S S S S S New 6 -20.7 -11.2 +1.5 +.2 ^m -18.2 +28 ^s -16.2	
							2 P.H. load 1000 Plates Needed Hon. M.	

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

Focus.....12.937

Dome Temp.....

Transparency Conditions

Haze

250

Haze and light cloud at sunset, delayed start

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 22	1	77 21	1	4.42	K _{IV}	-	Settings 2, 4, 6, 8, exposures 14 ^s , 28 ^s , 40 ^s , 60 ^s	
	3	62 34	1	7.47	A0	4-	Set 2 Moving cluster prog brighter comp. sky clouding over at 1903, remaining thick 2 P.H.s loaded with E-103a-0 1 PH loaded with hi-speed. H on M	

251

Mon-Tues

Date

1953 Jan 16-17

Observer

MR - H_v

Julian Day

2434698

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	
{ 20853	HD 2254	00 21.2	+56 05	J-10 1/2	H _v speed	^{set} .008	8.0	23:03	23:19	4	
{ 20854	HD 3519	00 33.1	+59 16	"	"	"	8.2	23:27	23:47	5	
{ 20855	B.D. 48° 903	03 16.6	48 16	"	"	"	9.0	00 36	00 50	3	
{ 20856	" 47° 821	03 19.1	48 03	"	"	"	9.2	00 58	01 24	"	
20857	K Cet.	¹⁹⁵⁰ 03 16.7	¹⁹⁵⁰ +03 11	"	E10320	"	9.4	01 39	01 49	1	
20858	56 Ori.	¹⁹⁰⁰ 05 47.2	+07 50	"	"	"	9.5	02 06	02 20	2	
20859	H.R. 1327	¹¹⁻³ 04 15.2	+64 54	"	"	"	9.7	02 43	02 56	3	
{ 20860	A.G. 4714	¹⁹⁰⁰ 08 40.1	¹⁹⁰⁰ 260 6	"	"	"	9.5	03 37	05 03	1	
{ 20860'	" 4835	09 02.5	275 6	"	"	"	9.5	05 11	06 21	1	
		Focus Test O.97B									

Dome Temp. 49°
 Focus 12.934
 Dome Temp. 45°F

Transparency Conditions FOG → CLOUDS → CLEAR at 22:30.
 except in S & SW.

252

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+2:19	+56 23	1	6.6	A0	4-4-4	set 2 Nov. cl. program.	fine
	+2:35	+59 35	1-2	6.7	A0	4-4-4	set 8 " " " Super high circum star	fine
0055W	48 26	1-2	6.8	B9	4-4-4	" 2 X Pers. Cluster.	good!	
0127W	48 12	1-2	7.4	A0	4-4-4	" 8 " " " "Thougn this looks	fine	
0158W	+03 11	1-2	5.74	G5V	—	Set 2, 4, 6, 8. 40 ^s , 80 ^s , 2 ^m , 3 ^m .	fine	
0002E	+06 58	1-2	6.0	M2Iab	—	" 2, 4, 6, 8, 3 1 ^m , 2 ^m , 3 ^m , 4 ^m 30 ^s ;	fine	
	6501	1	5.96	G5III	—	" 2, 4, 6, 8; 1 ^m , 2 ^m , 3 ^m , 4 ^m 30 ^s	fine	
0019E	25 54	1-2	9.45	G0	2-2-2	" 2. A.G. 25.	fine	
0042W	27 41	2	9.35	G0	2-2-2	" 7 " " South Prec.	fine	
					8/6	" 9		fine
							2 P.H. loaded HiSpeed + 12.	
							4E 103-20 ^s	
							ME SE NW S SW NE	
							Nov. 17 -19.0 -35.8 -12.2 -0.3 ^m -30.6 -1 ^s -22.2	

253

Date Tues Nov 17-18/53 Observer Hd - L Julian Day 243.4629

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
2086X2	HD189108	19 53.3	28 26	I-12	Harpad	008	13.9	18 04	18 36	3	12 09
2086X3	HD199763	20 54.1	30 00	"	"	"	13.9	18 39	19 03	3	11 35
2086X4	715C752-196	1 51.1	37 24	"	E103a0	016	13.9	19 31	22 31	1	11 05
2086X5	^{30 47 72} α Per. # 104	3 04.3	47 45	"	"	008	13.9	22 37	23 07	2	8 33
2086X6	^{30 47 78} " # 151	3 05.3	47 32	"	"	"	13.9	23 10	23 40	2	8 01
2086X7	HD 30353	4 41.8	43 06	"	Nisped	"	13.9	23 49	00 15	4	1 01 E
2086X8	H.D. 29587	04 34.5	41 57	"	"	"	13.9	00 18	00 58	4	0 31 E
2086X9	56 Ori	05 47.2	01 50	"	E-103a0	"	13.9	00 49	01 05	3	"
2086X70	H.D. 53472	07 00.1	25 01	"	"	"	13.9	01 17	01 47	1	1 47 E
2087X1	" 56224	07 11.1	26 33	"	"	"	13.9	01 50	02 34	1	1 10 E
2087X2	" 56417	07 11.8	27 19	"	"	"	13.9	02 37	03 17	2	0 28 E
2087X3	" 56761	07 13.3	27 00	"	"	"	13.9	03 20	04 04	2	0 18 W
2087X4	" 57470	07 16.3	30 01	"	"	"	13.9	04 07	04 51	3	1 01 W
2087X5	" 63495	07 44.1	28 59	"	"	"	13.8	04 57	05 53	3	1 36 W
2087X6	" 75216	08 43.6	29 49	"	"	"	13.8	05 58	06 22	4	1 05 W
	Focus Inst										

O T 13

Dome Temp. +56

Focus 12.932

Dome Temp. +46°F

Transparency Conditions

Hazy

254

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 36	2 09	28 35	0-1	7.70	K ₀	4-4-4	Set 2 KA and AG! <i>Set W to avoid flexure</i>	good
19 03	1 35	30 15	1	7.64	K ₀	4-4-4	" 8 KA . AG	good
22 31	W 0 05	37 42	1-2	10.67	F ₅	1-1-1	" 2 Obj Cluster prog	good
23 37	E 0 33	47 54	3	8.6	F ₀	2-2-2	" 2 α Per cluster	good
23 40	E 0 01	47 39	3	8.8	F ₁	2-2-2	" 8 α Per "	good
00 15	1 01 E	43 12	3	8.3	G _{0p}	4-4-4	" 2 Bidelman's *	fine
00 38	0 31 E	42 01	2-3	7.85	G ₂	4-4-4	" 8 Standard Velocity	fine
01 05		02 00	1	6.0	M ₂ Job		Settings 2, 4, 6, 8 exposures 1 ^m , 2 ^m , 4 ^m , 6 ^m	
01 47	1 47 E	24 57	1	8.29	K ₂	2-2-2	Set 2 A.G. 25	l wk
02 34	1 10 E	26 28	1	8.51	K ₀	2-2-2	Set 8 "	good
03 17	0 28 E	27 12	1-2	8.54	K ₀	2-2-2	Set 2 "	fine
04 04	0 18 W	26 54	2	8.86	K ₀	2-2-2	Set 8 "	fine
04 51	1 01 W	29 56	2	8.89	K ₂	2-2-2	Set 2 "	fine
05 53	1 35 W	28 50	2	8.98	G ₅	2-2-2	Set 8 "	fine
06 22	1 05 W	29 36	2	8.08	K ₀	2-2-2	Set 2 " 2 P.H. & loaded 103a0 +8	fine
						8/6	H on M	OK

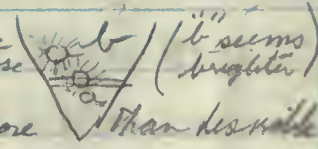
Dome Temp... 57° F.

Transparency Conditions... Hazy

256

Focus... 12.932

Dome Temp.....

Ending Time L.I.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 35	02 05E	+62 34	0-1	8.0	A0	4-4-4	Set 2 Mag. Cluster - Ran north first - Brighter x of all	fine
19 00	01 47E	+66 45	1	7.1	A0	4-4-4	Set 8 "	fine
20 01	01 05E	+68 36	1-2	7.9	A5	4-4-4	Set 2 " some wind made these  (it seems brighter)	fine
20 50	0 26E	"	1	7.9	A0?	4-4-4	Set 8 " images jumped little more than desirable	fine
21 3	0 07E	+48 48	1	7.9	A1	2-2-2	Set 2 - Pers. Cluster - Note S reading - Field OK.	strong
22 40	0 58E	+50 10	1	9.0	F5	2-2-2	Set 8 " " "	fine
23 4	0 07E	+00 15	1	5.2	F9	6	Set 2 Standard Velocity.	strong
23 5	0 27E	29 16	1	8.4	K0	2-4	Set 8 A.G. - Clouds, Exposure cut ²³¹⁴ 2352	fine
						8/6	" 5' Trouble with guiding eye piece	all right
							0130 Clouds	
							4 P.H. loaded 103-0-0.	

Dome Temp. 57°F

Focus 12.932

Dome Temp. 48°F

Transparency Conditions Hazy seeing not good

258

At 04^hE Telescope drifts North. [δ 27°32']

701

Ending Time R.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7:15	0 13E	08 56	3	7.0-7.5	A0	2-2-2	rel 2 EE Peg	strong
7:25	0 27W					2-2-2	8 -"-	"
7:30	1 07W	56 56	3	10.0	B0m	2-2-2	2 Malth. prog.	fine
7:40	1 47E	60 15	2	8.9	O7	2-2-2	8 -"-	weak
7:45	1 46E	47 50	3	8.1	A0	2-2-2	2 x Bet cluster, no 285	fine
7:55	0 40E	51 15	3	9.1	F2	2-2-2	8 " -"- no 314	fine
8:00	4 04E	28 35	2	8.60	K2	2-2-2	2 AG 25	weak
8:20	0 216E	27 32	0	8.49	K0	2-2-2	8 " FOGGY, HAZY,	weak
						8/6	" 5 1 mag. +? Extinction.	all night

Right star, magnitude of large diff in dec. Heavy mag 6

P.H. # 1 + 2 H. Speed.

" " 3 + 4 E103-a-0 + 2

Hon M.

	MC	SC	KW	SW	S	SU	ME
Nov. 20	-19.2	-10.7	-26.2	-.4 ^m	-5.6	+8 ^S	-24.3

Dome Temp... 50°F

Transparency Conditions... Very Hazy

260

Focus... 12.933

Dome Temp...

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 59	3 1 26 W	+17 27	0+	7.98	A2	2-2-2	Sct 2 KA	fine
9 45	3 1 32 W	+32 29	0+	7.62	A0	2-2-2	" 8 KA	fine
10 01 ³⁰	3 3 37 E	+49 02	1	4.5	B3	3-3	2 2 Per 557	good
20 39	3 3 04 E	+48 02	1	6.8	B9	2-2-2	" 8 " " 735	strong
21 44	2 2 00 E	+47 44	2	7.6	A:	2-2-2	" 2 " " 729 1/2 O T B	Thickening Star just visible on slit all night fine

PH 1, 2 hi speed.

PH 4 103a-0 + 2.

Hon Marvin

261

(MR)

Date Mon-Tues. Nov. 22/24 Observer - Hr Julian Day 2434.705

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20897	H.D. 36589	05 27.7	20 24	I-12 $\frac{1}{2}$	H; Spd.	.008	7.8	01 01	01 11	1
20898	" 37940	05 37.0	18 57	"	"	"	7.7	01 17	01 35	"
20899	A.G. 4044	07 28.2	28 57	"	E103-20	"	7.7	01 43	02 58	4
20900	H.D. 70778	08 15.5	29 07	"	"	"	7.4	03 04	04 20	"
20901	" 83224	09 31.8	24 51	"	"	"	7.5	04 27	05 10	3
	<i>Flame</i>	<i>Inst.</i>			O.9 B.					

Dome Temp. +42°

Focus 12.935

Dome Temp. 41.3

Transparency Conditions Clear, a little haze

Windy

262

Ending Time
L.I.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0026E	20 25	0	6.1	B8	4-4-4	Set. 2 Moving Cluster	guiding fine
0012E	18 56	0	6.7	B9	4-4-4	" 8	fine
0040E	28 48	0	8.86	G0	2-2-2	" 2 A.G. 25.	fine
0005E	28 56	0	8.65	G5	2-2-2	" 8 " " 0315 Clouds.	fine
0001E	24 36	0	8.77	G0	2-4	" 2 " " 0525 Cloud's.	fine
					8/6	" 8 0940 S.W. - fine all night	

P.H. #2 H. Speed.

" #4 E103-a-0

Plates Needed

Flan

	MC	SC	MTL	STW	S	SW	ME
Jan 24	-17.0	-31.3	-18.3	.2	-24.1	+11	-20.5

263

Date Wed. Thurs. Nov. 25/26 Observer Ho - Hv Julian Day 2434707

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20902	BD 48° 88.5	03 12.5	+48 35	I-12	F10320	slit .008	5.6	19 33	21 50	4
20903	HD 22484	03 31.8	+00 05	"	"	"	5.6	22 00	22 01	1
20904	HD 61645	07 35.2	+26 08	"	"	"	5.6	22 11	23 43	1
20905	HD 62567	07 39.5	+26 14	"	"	"	5.6	23 48	01 00	1
20906	" 62857	07 40.9	26 16	"	"	"	5.6	01 06	03 06	3
20907	A.G. 4836	09 02.5	27 57	"	"	"	5.4	03 19	05 29	"
20908	H.D. 84440	09 40.2	27 32	"	"	"	5.1	05 35	07 01	4
	<i>From Tent J.F.P.</i>									

Dome Temp... 37°F

Focus... 12.934

Dome Temp... 30

Transparency Conditions... some light cloud

264

Clouds cleared off shortly after 19⁰⁰

Ending Time E.S.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 50	01	46E	48° 44'	00	9.1	F4	2-2-2	Set 2 d. Pers 421 - interrupted by RCAF 2023 1950 ^{km}	weak
04 21	01	33E	00 14	18	5.2	F9	6	Set 8 slit Vel. stars - (Hand switch has chipped corner)	fine
02 42	03	53E	26 01	0	9.0	K2	2-2-2	Set 2 AG - AG (Drifting ↑ in S)	l weak
02 50	02	41E	26 05	0	8.9	K0	2-2-2	Set 8 AG - AG	good
03 00	00	36E	26 07	0	8.98	G5	2-2-2	Set 2 A.G. 0150 C clouds	fine
03 10	00	26W	27 42	0	(9.35)	G0	2-2-2	" 8 "	fine
03 20	00	40W	27 14	0	8.42	K0	2-2-2	" 2 "	l weak
							8/6	" 8.	
P.H. # 1 → E103-a-0									
" # 2 → H. Speed.									
H. on - M.									
								ML SC MTR STW S SW ME	
Nov. 27								-20 ^s .7 -35 ^s .4 -3 ^s .5 -.2 ^m -25 ^s .1 -7 ^s -20 ^s .5	
Dec 1								-19 ^s .3 -39 ^s .4 -19 ^s .5 -.1 ^m -25 ^s .9 +27 ^s -16 ^s .3	

265

(Bk)

Date Tue-Wed, Dec 1/2, 1953 Observer Hd - L Julian Day 2434713

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
20910 ⁰⁹	B.D. +21° 39 21	20 00.1	+31 52	112K ₂	E103-a=0	sel 008	+2.8	17 25	18 03	7	W 2 29 3
20910	NGC 752 #209	1 51.2	37 00	"	"	016	+2.8	18 16	20 16	3	E 1 20 3
[20911	BD 47° 808	3 14.3	48 09	"	"	008	+3.0	20 23	21 33	4	E 1 21 1
[20912	BD 48° 894	3 14.8	48.52	"	"	"	+3.0	21 38	22 48	4	E 6 ^m
20913.	HD 30353	4 41.8	43 06	"	Harpad	"	+2.8	23 01	00 00	2	O 20 E
	Focus Test							O T B			

Dome Temp. 36°F

Transparency Conditions.....

266

Focus..... 12:934

Dome Temp. +32°F

Seeing Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 03	W 2 24	32 01	0	8.3	B05	2-2-2	set 2 Matthew's prog. Set W to avoid flex.	fine.
20 16	E 1 20	37 15	0	9.75	A3	1-1-1	" 2 O's cluster	fine
21 33	E 1 21	48 18	1	9.1	A8	2-2-2	" 2 α Per Cl. # 481	fine
22 48	E 6 ^m	49 01	1	9.1	A9	2-2-2	" 8 " " " # 501	fine
23 02	O 20 E	43 11		8.3 (Gep)		4-4-4	" 2 Biddeman's * Clouds at 23 40	lwk.
						14/10	Sky thick at 00.00	
							2 P.H.s loaded 103A0 + 12	

Dome Temp... 42° F.

Focus... 12.934

Dome Temp... 40° F.

Transparency Conditions... a little haze

268

Ending Time R.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 50	4 03 E	+47 34	0	7.1	A0	4-4-4	Set 2. α Per # 775	good
19 18	3 39 E	+48 08	1	7.2	B9	4-4-4	" 8 α Per # 831	1 wash
20 11	2 47 E	+47 45	1	8.3	A0	2-2-2	" 2 α Per # 507	fine
21 13	1 34 E	+51 30	1	9.0	A3	2-2-2	" 8 α Per # 522	fine
22 04	0 43 E	+49 12	1+	8.6	A0	2-2-2	" 2 α Per # 554	fine
23 05	0 35 E	+49 03	—	8.2	A1	2- - -	" 8 α Per # 639	nothing
		Focus Test.				8/6	" 11 0 + B.	with about 22:10 all night

PH #3 - hi speed.

PH 1, 2, 4, E103a - 0 + 9

	MC	SC	MW	SW	S	SW	ME
Dec 4	-18.9 ^s	-42.9 ^s	+9.0 ^s	+5 ^m	+39 ^s	-26.9	-15.5 ^s

Dome Temp.....46.5

Transparency Conditions.....

270

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 34 30	17E	49 04	0	7.4	A0	4-4	Set 2 of Pcell # 868 Very windy Power interruptions no cloud up. El. clocks were stopped for about 2 min.	fine
							1, 2, 4 - 103 @ 0	
							Clouds after midnight. Still Windy.	

Dome Temp. 46°F

Focus 12.934

Dome Temp.

Transparency Conditions good

Delayed starting because of clouds

272

2718

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:16	2 30 E	49 02	0!	9.0	A0	2-2-2	set 2, & Per CE no. 606	fine
2:20	2 10 E		0	8.4	A4	2-4	8 651 clouds.	good.
							Cloudy after midnight.	
							SP4 E 103-a-d	

273

Date Mon-Tue. Dec 7/8, 1953 Observer (Bk) MR - f/x Julian Day 2434719

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20923	H.D. 217262	02 54.4	+45 49	I 12 1/2	Hi-Speed	set .008	+6.0	17 25	18 01	3
20924	217634	02 57.0	+46 17	"	"	"	6.2	18 07	18 45	
20925	BD. 47° 8465 S	03 21.6	+47 33	"	"	"	6.2	18 54	19 06	4
20926	48° 943	03 24.8	+48 25	"	"	"	6.0	19 12	19 24	
20927	49° 953	03 24.0	+49 23	"	E103-a-0	"	5.8	19 29	20 29	1
20928	49° 954	03 24.2	+49 34	"	"	"	6.0	20 35	22 21	
20929	HD 36589	05 27.7	+20 24	"	Hi-speed	"	6.0	22 30	22 40	4
20930	HD 37940	05 37.0	+18 57	"	"	"	"	22 47	23 07	
20931	HD 63816	07 45.7	+25 05	"	E103a-0	"	6.0	23 15	00 25	2
20932	A.G. 4714	08 46.1	26 06	"	"	"	"	00 35	02 35	"
20933	H.D. 75646	"	26 05	"	"	"	6.1	02 37	03 31	4
20934	" 76976	08 54.4	29 03	"	"	"	6.0	03 35	04 31	"
20935	" 78887	09 05.5	25 49	"	"	"	"	04 38	05 34	1
20936	" 86590	09 54.4	25 02	"	"	"	"	05 40	06 20	"
20937	" 103095	11 47.2	30 26	"	"	"	"	06 27	06 39	"

Howe. Inst. J.T.B.

Dome Temp. 42°F

Transparency Conditions Good, windy

274

Focus 12:934

Dome Temp. 38

Hour Angle - End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 07 E	46 04	0	8.0	A0	4-4-4	set 2 KA. program. Image ver. unsteady	fine
0 34 W	46 35	0	8.0	F0	4-4-4	8 ---	fine
3 34 E	47 43	0	6.6	B9	4-4-4	2 2 Par Cluster #955	good
2 17 E	48 34	0	6.5	B9	4-4-4	8 " 965	good
2 10 E	49 32	0	8.5	A5	2-2-2	2 " 921	fine
0 18 E	49 43	0	8.6	A4	2-2-2	8 " 931 off fr about 3/4" (clouds)	fine
2 02 E	20 26	0	6.1	B8	4-4-4	2 mov. clck.	good
1 44 E	18 57	0	6.7	B9	4-4-4	8 " "	fine
02 36 E	24 58	0	8.84	G5	2-2-2	2 AG-25	fine
01 24 E	25 54	0	(7.45)	G0	2-2-2	" 8 " " Northern pair	fine
00 29 E	25 53	0	(8.51)	K0	2-2-2	" 2 " " Southern pair	fine
00 23 W	28 50	0-1	8.81	K5	2-2-2	" 8 " " Only star in field	good
01 15 W	25 35	0-1	8.87	K0	2-2-2	" 3 " "	fine
01 12 W	24 47	0-1	8.4	G5	2-2-2	" 5 " "	fine
00 21 E	38 02	0-1	7.24	G5	2-2-2	" 8 Std. Vel.	fine
					8/6	10.5	

P.H. #2 E103a-0 +6

" #3 Hispid.

at 11:15

275

Date Tues-Wed, Dec 29, 1953 Observer O-L Julian Day 2434720

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20938]	NGC 752 # 108	1 50.8	+37 32	I-12	E103a-O	^{Set} .008	+7.3	17 48	20 04	2
20939]	BD ^{Card Done} # 48° 907	3 18.0	+48 55	"	"	"	+7.6	20 15	20 59	2
20940]	BD +49° 921	3 17.9	+49 27	"	"	"	+7.5	21 02	22 02	4
20941]	BD +47° 822	3 19.1	+47 53	"	"	"	+7.4	22 04	22 48	4
20942	HD 64833	7 50.7	+26 22	"	"	"	+7.7	22 58	00 20	1
	Focus Test						O.T.B.			

Dome Temp... 43°F

Focus... 12.934

Dome Temp.....

Transparency Conditions... Clouds in W and NW 276

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 04	0 58 E	+37 46	1-2	9.60	F5	2-2-2	Set 2 Cluster (Field check with 20735)	fine
20 59	1 30 E	+49 03	3	8.2	A1	2-2-2	" 8 α Per # ^{Henry} 639	fine
22 02	0 28 E	+49 37	3	9.0	A8	2-2-2	" 2 α Per # 635	fine
22 08	0 18 W	+48 02	3	8.4	A3	2-2-2	" 8 α Per # ^{Field check} 694	fine
00 20	2 41 E	+26 12	2	8.62	K0	2-2-2	" 2 AG-25 more	2 work

8/6 clouds all night

Fuse all night

Closed at 02.00 sky hopeless.

1 PH loaded with hi-speed

2 PH's loaded with E 1030-0

+R 1030

head box of hi-speed in dome

	MC	sc	MW	SW	S	SW	NE
Dec. 8	-18.2	+9.1	-11.2	-1.1	+9.6	-6.3	+4.8

277

Date Thurs - Fri Dec 10/11, 1953 Observer Poc - HV Julian Day 2434.722

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
20943	H.D 70402	08 16.7	+27 51	I 12 1/2	E103-a-0	set 1008	+3.0	23 08	23 58	2
20944	" 71008	08 20.0	+28 58	"	"	"	+2.0	00 03	00 47	"
20945	" 72907	08 30.3	29 03	"	"	"	2.0	01 20	01 44	4
	Flou. Test.		0.73							

Dome Temp. 32°F

Transparency Conditions Good

278

ocus 10:934

Dome Temp. 30°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
3. 22E	27 41	1	8.65	G5	2-2-2	set 2 AG 25	fine	
02.35E	28 45	0-1	8.42	K0	2-2-2	8 "	0050 Clouds. weak	
01.48E	28 50	0	8.63	K0	2-4	" 2 "	0120 Clear.	we want all night
01.49E					8/6	" 9.	0144 Clouds.	
						0146 Power Off.		
						0225 Power On. Mostly Cloudy		
P.H. #3 → Hi Speed.								
P.H. # 1 & 2 → E103-a-0 + 10								
New Plates →								
Hon. M.								
Dome clocks need resetting								
	MC	SC	MTW	BTW	S	S W	MC	
Dec 11	-12.0	-30.5	+15.2	0 ^m	-30.5	+9 ^s	0.0	

Home Temp... 30°F

Transparency Conditions... good

280

ocus... 12-934

Home Temp... 30°F

124

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
2 11 E	28 38	0	8.21	G0	2-2-2	Ref 4 AB 25 Exposure at alt 2 is a mistake.	fine																												
1 14 E	28 32	0	8.64	G0	2-2-2	" 9 "	fine																												
0 57 E	28 17	0	6.95	G0	2-2-2	" 2 " clouds	fine																												
0 52 E	29 10	0	8.56	K2	2-4	" 8 " overcast at 02 54	weak																												
						PH #3 HI-Speed,																													
						1+4 E 103-a-0																													
						Dec. 15																													
						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>MC</td> </tr> <tr> <td>-17.0</td> <td>.3^m</td> <td>-18^s</td> <td>+ .3^m</td> <td>.59</td> <td>-8.8</td> <td>-4.2</td> </tr> <tr> <td></td> <td>-1.5</td> <td></td> <td></td> <td>+8.8</td> <td></td> <td></td> </tr> <tr> <td></td> <td>+2.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	MC	SC	MTW	STW	S	SW	MC	-17.0	.3 ^m	-18 ^s	+ .3 ^m	.59	-8.8	-4.2		-1.5			+8.8				+2.4						
MC	SC	MTW	STW	S	SW	MC																													
-17.0	.3 ^m	-18 ^s	+ .3 ^m	.59	-8.8	-4.2																													
	-1.5			+8.8																															
	+2.4																																		

ome Temp... +18° F

Transparency Conditions

282

ocus... 12.934

ome Temp.....

1720

Ending Time
E.S.T.

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

18 10

2.19 E	+37 35	0-	10.4	K0 1-	Sct 2	Cluster Clouded over 18 11	too weak
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Dome Temp. +16°F

Transparency Conditions *Poor some cloud*

286

Focus 12.933

Dome Temp.

Cloudy in the early evening

235

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 10	00 15W	^{west} +43°13'	0 [∞]	8.3	Gop	2-2-2	Diometer won't work - some cloud - Seeing!!	good
29 49	0 19E							
29 44	00 15E	-00 58	0000	5.3	K0	6	Focus switch working poorly - The clouds. #4 PH? Hi Sp #2 PH 103a0	fine
							Cloudy after midnight R.A. Clamp does not work properly	

287

Date...Thurs-Fri...Dec. 24-25, 1953 Observer...Mo... Julian Day 243473.6

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 End
20954	BD +47° 8' 30 α Persei # 756	03 20.5	+ 47 57	I-12½	F103-a:0	set 0.008	-5.6	17 41	18 11	2	3 19 E
20955	BD +47° 8' 19 α Persei # 658	03 18.4	+ 47 38	"	"	"	-5.4	18 20	19 30	"	1 57 E
20956	BD +46° 7' 48 α Persei 665	03 18.6	+ 46 42	"	"	"	-5.0	19 54	21 16	1	0 12 E
20957	BD +48° 9' 44 α Persei 970	03 24.9	+ 48 16	"	"	"	-4.3	21 20	21 56	"	0 23
	Focus Test	O.T.B.		"	"	"					
20958	HD 67542	08 03.4	+ 29 23	"	"	"	-3.9 -3.5	22 48	23 04	2	3 07 E
20959	HD 67628	08 03.8	+ 29 24	"	"	"	-3.1 -3.0	23 21	00 21	"	1 51 E
20960	HD 69866	08 13.9	+ 27 11	"	"	"		00 25	01 14	"	1 06 E

Dome Temp. +23°F.

Focus..... 12.933

Dome Temp. +28

Transparency Conditions good.....

Terrific wind storm all night.

Much worse around 1:00 A.M. I

288

4-36

Ending Time R.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 11 2	3 19 E	+ 48 05	0	7.9	A0	2-2-2	Set 2 Cluster Prog. Dome electric clocks need resetting. Stromgren og Olsen S.T. 2h slow.	strong
19 30 "	1 57 E	+ 47 47	0	9.2	A5	2-2-2	" 8 " " (set 7 at end)	fine
21 16 "	0 12 E	+ 46 51	0	8.9	A3	2-2-2	" 2 " "	strong
2 50 "	0 23 W	+ 48 24	0	8.1	-	2-2-2	" 8 " " Thin clouds becoming thicker	strong
						8-6	" 10 1/2	all right
23 04 2	3 07 E	+ 29 12 1/2	00	7.02	G0	2-2-2	" 2 } check fields clear again. focused on β Gem.	strong
05 21 "	1 51 E	+ 29 13 1/2	0	8.63	K5	2-2-2	" 8	fine
06 11 "	1 10 E	+ 26 59	0	8.65	K0	2-2-2	" 2 I had to shorten the exposure because the wind was so violent. P.H. #1 & #2 E103a 0 P.H. #3 & #4 Hi Speed Box of plates needed.	fine
<p>The wind was so bad, I had to leave dome in a south easterly position where it had been chained for the last exposure. The wind had tightened the chain and I was afraid the wind would turn the dome if I unchained it. However the telescope is resting on the platform</p>								

289

Date *Sat. Sun.* Dec. 26-27 1953 Observer *Mo - HV* Julian Day 2434738

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
20961	} HD 67613	08 03.7	+25 51	J-12 $\frac{1}{2}$	F103-a0	^{set} 0.00B	-0.8	21 37	22 57	✓
20962		08 46.2	+29 19	"	"	"	-0.8	23 10	00 46	
	} <i>Fours, Test</i>			<i>59B</i>						

Dome Temp. +24°F

Focus.....

Dome Temp.....

Transparency Conditions good once sky cleared.

290

At beginning of night sky was cloudy with occasional clear intervals. A very strong north wind was blowing

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 57	3 07E	+25 41	00	8.54	K ₂	2-2-2	Set 2 A.G.	1 work
00 46	0200E	+29 00	1	8.75	K ₂	2-2-2	" 8 " Thin clouds 23 40	1 work
						8/6	" 5.	all night
							P.H. # 2 E 103-20 + 12	
							P.H. # 3 + 4 H. Speed.	
							1 on M.	
Dome Clocks & Strömgran system								
Need Re Setting								
Flash lite needs batteries								
	MC	SC	HW	SW	SW	ME		
Dec 28	-9.4	+2.9	-2.5	-4	+2.9	+8.9		0.0
			-20°		-5 ^m			

291.

Date Dec 28-29 / 53 Observer Hv Julian Day 2434740

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20963	H.D. 75646	08 46.1	2605	I-12	E ₁₀₃₋₂₀	.002	+0.4	0225	0335	2
	<i>From</i>	<i>70</i>		<i>-9.5</i>						
Plate covers finished to 20963 Mo - 1959 Jan. 2										

Dome Temp. 30°F

Focus 12.934

Dome Temp. 27

Transparency Conditions Good.

292

Clearing just before 0100.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
0535	0058 W	2553	0	8.51	K ₀	2-2-2	Set 2 A.G. S. Prec. of pair.	good														
						8/6	" 9. 2240 A little haze	all night														
							0253 clouds & haze from NW. Some mist.															
							Hon. M.															
							P.H. # 142. E _{103-a-0} +10															
							" # 344 Hispeed.															
							Hook on 1 mirror sector broken															
							<table border="0"> <tr> <td>NO</td> <td>SC</td> <td>MW</td> <td>Srew</td> <td>S</td> <td>S</td> <td>M E</td> </tr> <tr> <td>30</td> <td>-9.7</td> <td>+16.8</td> <td>-14.8</td> <td>+5.7</td> <td>+21.3</td> <td>7.13</td> </tr> </table>	NO	SC	MW	Srew	S	S	M E	30	-9.7	+16.8	-14.8	+5.7	+21.3	7.13	
NO	SC	MW	Srew	S	S	M E																
30	-9.7	+16.8	-14.8	+5.7	+21.3	7.13																

Dome Temp. 17°F

Transparency Conditions *very good*

294

Focus 12934

Dome Temp.

Reading Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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19:07	2	-2:00	+49°46'	000	8.0	AD: 2-2-2	✓ Pers #780 sd 2 / Erratic trouble with a focus sw.	<i>fine</i>
20:33	0	-0:33	+49 11	00	8.5	AS: 2-2-2	" # 802 '8 ← haze & dds	<i>fine</i>
21:31	1	-0:16	+43 11	00	8.3	GDP 2-2-2	Bidelman's Star	<i>fine</i>
22:00		0-53W	+47 48	00	7.9	AD 2-4	clouds 22 ^h solid a Pers # 874	<i>fine</i>

Hon M

P.H. #2 E103m.0 +9

" #384 Hi Speed

296

Date Sunday Jan 3-4 / 1954 Observer Ho - H v Julian Day Monday

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Star Angle End
20968	BD 49° 928	03 ^h 18. ^m 8	+49° 27'	I 12	F 103a0	set .008	-3.0 C	19 ^h 19 ^m	21 ^h 15 ^m	2	20° 11'
20969	HD 29587	04 34.5	+41 57	"	"	"	-3.1	21 24	22 00	2	10° 09'E
20970	HD 69312	08 11.3	+27 21	"	"	"	-3.1	22 14	23 20	1	22° 20'E
20971	HD 69349	08 11.5	+27 43	"	"	"	-3.1	23 56	00 16	1	91° -
20972	HD 71008	08 20.0	+28 58	"	"	"	-3.1	00 22	01 12	2	55°
20973	" 75935	08 47.9	27 18	"	"	"	-3.1	01 17	02 37	2	-
20974	" 76332	08 50.4	29.07	"	"	"	-3.2	02 43	04 03	1	2.10.3
20975	" 90682	10 23.1	27 26	"	"	"	-3.2	04 09	05 29	1	13 2
20976	" 91950	10 31.9	25 36	"	"	"	-3.4	05 35	06 55	2	27.10.3
	<i>3 stars.</i>		<i>Lat.</i>		<i>O.P. B</i>						

Dome Temp. +20°F

Transparency Conditions *Some cloud*

296

Focus 12.934

Dome Temp. 13

Cloudy, pretty well cleared by 18^h 55^m.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 27W	+49° 37'	00	9.0	A5	2-2-2	2 Per Cl # 679 Set 2	fine
20 03E	+42 02	00	7.85	G2	2-2-2	Std Vel. Set 8	fine
22 20E	+27 09	0	8.68	K2	2-2-2	AG Set 2 - (Need more 15A fuses down target)	good
01 23E	+27 32	0	8.49	K0	2-2-2	AG Set 8	fine
00 36E	28 45	0	8.42	K0	2-2-2	" " 2	fine
00 44W	27 04	0	8.97	K0	2-2-2	" " 8	fine
01 45W	28 49	0	8.92	G5	2-2-2	" " 2	fine
01 39W	27 09	0	8.96	K0	2-2-2	" " 8	good
02 37W	25 18	0	8.84	G5	2-2-2	" " 2	fine
					8/6	" 8	all right

P.H. # 105103-20 + 4

" " 344 H speed

	MC	SC	MTU	STW	S	SW	NE
Jan. 4	-6.5 ^s	+11.3 ^s	+18 ^s	+5 ^m	+18.1 ^s	-20.4 ^s	-5.2 ^s
6	-5.2 ^s	+10.6 ^s	+18.8 ^s	-2 ^m	+29.0 ^s	-16 ^s	-2.3 ^s

297

Date Thurs - Fri Jan 7/8, 1954 Observer *Boe - Hr* Julian Day 2434.750

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
20977	BD-48° 934	03 23.2	+48 11	E12 1/2	E103-a-0	.008	-6.0	17 42	18 42	1
20978	BD. 48° 931	03 22.6	+48 41	"	"	"	-6.2	18 49	20 29	1
20979	HD. 30353	04 41.8	+43 06	"	"	"	-6.2	20 40	21 08	2
20980	HD. 29587	04 24.5	+41 57	"	"	"	-6.4	21 14	21 10	1
20981	HD. 71028	08 20.1	+28 45	"	"	"	-6.0	21 41	23 01	1
20982	HD 76866	08 53.8	+25 00	"	"	"	-6.0	23 07	00 13	1
20983	HD. 77586	08 58.4	+29 41	"	"	"	-6.3	00 21	01 41	2
20984	" 77444	08 57.4	27 37	"	"	"	-6.4	01 47	03 07	"
20985	AG. 4835	09 02.5	27 56	"	"	"	-6.8	03 15	05 45	1
	<i>Emulsion test</i>								05 15	

Dome Temp. 14°F

Transparency Conditions *Very good*

298

Focus 12.934

Dome Temp. +3!!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 55E	48 19	0	8.6	A3	2-2-2	2 2 Per - no 885	<i>fine</i>
0 08E	48 50	0	9.1	F7	2-2-2	8 863 Stormy wind	<i>fine</i>
0 48E	43 12	0	8.2	G0p	2-2-2	2 Bidelman star	<i>fine</i>
0 18E	42 00	0	7.85	B2	1-2-2	8 2nd vel.	<i>fine</i>
12 32E	23 34	0	8.90	K0	2-2-2	2 AG 25	<i>fine</i>
+ 53E	24 47	0	8.74	K0	2-2-2	8 "	<i>fine</i>
0030E	29 26	00	8.70	H2	2-2-2	" 2 "	<i>fine</i>
0 058W	26 22	0	8.73	K3	2-2-2	" 8 " Spotter won't go.	<i>good.</i>
(03 01W)	27 40	00	9.35	G0	2-2-2	" 2 " South Proc.	<i>fine</i>
					8/6	" 2 Attempted to register with at 1000.	<i>all right</i>

2 P.H. loaded HiSpeed.

Plates Developed

How. M. Nov. Bulb Very Footh.

Clouds + Haze at 0600

	nc	sc	mtu	str	s	sw	ME
Jan. 8	-4.6	+10.9	-7.8	1.1	+22.2	-5.5	-2.5

ome Temp..... 0° F

Transparency Conditions *Saturated clouds*

300

ocus..... 12.9.33

ome Temp.....

4753

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
20 43	0-34 W	+49 23	0-	7.2	B9	4-4-4	at 2 <i>at Point 212</i>	<i>Forcees unaligned</i>																
21 41	35 E	+24 58	0-	8.35	K0	2-2-2	" 2 <i>AG</i>	<i>wide field was very off</i>																
22 36	55 E	+28 49	0+	8.63	K0	2-2-2	" 8 <i>Spotter remaining too slow to use.</i>	<i>fine</i>																
							<i>clouded out at 22^h 30.</i>	<i>good.</i>																
							<i>PH 2, 3, 103-0 No Spots + 9</i>																	
							<i>PH 4 hipped.</i>																	
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td><i>Jen 11</i></td> <td>-2.5</td> <td>+11.9</td> <td>+17.0</td> <td>+5</td> <td>+22.4</td> <td>+2.5</td> <td>-2.2</td> </tr> </table>		MC	SC	MTW	STW	S	SW	ME	<i>Jen 11</i>	-2.5	+11.9	+17.0	+5	+22.4	+2.5	-2.2	
	MC	SC	MTW	STW	S	SW	ME																	
<i>Jen 11</i>	-2.5	+11.9	+17.0	+5	+22.4	+2.5	-2.2																	

301

Date Tues Jan 12-13/54 Observer Hd-L Julian Day 2424755

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
{ 20989	α Per cl # 906 BD 47° 342	3 23.6	47 19	1-12	E103.0	008	-14.0	18 57	20 11	2
{ 20990	α Per cl # 958 BD 49° 958	3 24.7	49 33	"	"	"	-14.0	20 20	21 50	2
{ 20991	HD 70030	8 14.7	25 39	"	"	"	-14.0	21 59	22 59	3
{ 20992	HD 70178	8 15.5	29 07	"	"	"	-14.0	23 05	00 15	3
{ 20993	" 70402	08 16.7	27 51	"	"	"	-14.1	00 20	01 30	1
{ 20994	" 79214	09 07.7	24 42	"	"	"	-14.1	01 35	02 55	1
{ 20995	" 95363	10 55.5	27 40	"	"	"	-14.1	03 00	03 44	2
{ 20996	" 101289	11 34.3	25 52	"	"	"	-14.1	03 49	04 29	2
{ 20997	" 108675	12 24.0	29 26	"	"	"	-14.1	04 33	05 43	3
{ 20998	" 115256	13 10.9	29 17	"	"	"	-14.1	05 48	06 47	3

Same Temp. -
Focus 12.93
Same Temp. -

Hour Angle
End

2 06

2 131

3 208

3 053E

1 021W

1 055W

2 003E

2 003W

3 027W

3 045W

ome Temp..... +3

ocus..... 12.933

ome Temp..... -5°F

Transparency Conditions.....

Good

302

clearing at 18 15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 11	06	47 29	0	8.7	A0	2-2-2	Set 2. no spots. 2 P.H. 120.	fine
21 50	W 131	49 42	0	9.1	F0	2-2-2	" " " "	fine
22 59	E 208	25 27	0	8.58	K2	2-2-2	" " AG prog.	good
00 15	O 53E	28 55	0	8.65	G5	2-2-2	" " AG "	fine
01 30	O 21W	27 38	0	8.65	G5	2-2-2	" " " "	fine
02 55	O 55W	24 27	0	8.75	K0	2-2-2	" " " "	fine
03 44	O 03E	27 22	0	7.93	G0	2-2-2	" " " "	fine
04 29	O 03W	25 32	0	7.87	G0	2-2-2	" " " "	fine
05 43	O 27W	29 06	0	8.68	G0	2-2-2	" " " "	fine
06 47	O 45W	28 58	0	8.77	R0	2-2-2	" " " "	fine

clouds near end, star gone at 06 47

2 P.H.s loaded with 103a.0 +4
1 P.H. " " Hi Speed

H on M

	HC	SC	HTU	STU	S	SW	HE
Jan. 13	+2.8	+14.0	-28.5	.3 ^m	+23.9	+9 ^S	-9.3

Date Wed. Jan 13-14/54 Observer Ha Julian Day 2434756

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
20999	HD 204658	21 25.0	+28 26	I 12	E103a0	^{lit} .008	-11.00	17 47	19 04	
21000	HD 22484	03 31.8	+00 05	"	"	"	-11.00	19 15	19 17	
21001	BD 48°949	03 27.3	+48 19	"	"	"	-11.0	19 29	19 40	
21002	BD 49°975	03 29.8	+49 24	"	"	"	-11.0	19 51	20 51	
21003	HD 71132	08 20.0	+28 23	"	"	"		21		

Home Temp. +14°F

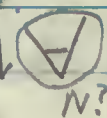
ocus. 12.934

Home Temp.

Transparency Conditions (Cloud in west) - Fair

304

27

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 04	4 50W	+28 38	0	8.77	G5	2-2-2	a few ice crystals on the secondary. [AG - Set 2 → drifting as ↓  Eyepiece	fair
19 07	1 04E	+00 13	1	5.13	F9	6	Set 8 Stel. V-el	fair
19 40	20 37E	+48 27	1	7.0	A0	3-3	Set 2 & Pers Cl + 1082	strong
20 51	20 30W	+49 31	2	9.0	A2	2-2-2	Set 8 & Pers Cl + 1183 - (5 minutes of) Cloud from Sat 20 ³⁰ again at 20 ⁵⁰	fair
				8.92	K0		Set 2 AG	

1 Ph. Hi Spd.
3 Ph. 10320 - not matter +1

need more plates

	MC	SC	MYU	STW	S	SW	ME
Jan 15	-7 ^s	+13.5 ^s	-32 ^s	-1 ^m	+23.7 ^s	+11.5 ^s	-7.8 ^s

Dome Temp. 0° F

Transparency Conditions *Very good*

306

Focus 12934

Dome Temp. -8° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 14 W	26 14	0.1	8.20	K0	2-2-2	set 2 A0 25	<i>Good</i>
3 20 W	28 46	0	8.90	K2	2-2-2	8 "	<i>Weak</i>
4 15 W	25 00	0	8.14	K0	2-2-2	2 "	<i>good</i>
					8/6	8	<i>all complete</i>
						1 PH. <i>high speed</i>	
						2 PH. <i>positive. Plates coded</i>	

Dome Temp. +10°F

Focus 12.934

Dome Temp.

Transparency Conditions

308

Clouds at sunset, delayed start.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 59	0 58W	50 07	0	9.2	A ₂	2-2-2	Set 2 L Pers. Prog. clouds from 20.40 clouding over completely then light snow. Closed at 21.30 I.P.H. loaded hi speed I.P.H. loaded Eastman +12 H on M MC SC HTW STW S SW MF Jan 18 H.4 ⁴ +18.5 -12.8 -1 ^m +26.0 +10 ^S -1.5 ^S 20 +2.5 +15.4 +0.8 +2 ^m +26.9 +26 -6.8	

309

Date Thurs - Fri, June 21/22, 1954 Observer PK - Hr Julian Day 2434.764

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
21007	B.D. +46° 780	03 30.6	+47 04	I 12 1/2	E103a-0	0.008	-8.2	18 27	20 07	3
21008	47° 262	03 30.8	+47 51	"	"	"	-8.5	20 12	21 42	1
21009	HD 76864	08 53.8	+29 24	"	"	"	-9.3	23 07	00 07	1
21010	" 76976	08 54.4	29 03	"	"	"	-9.9	00 14	01 46	1
<p><i>Focus Test 0 Feb</i></p>										

Dome Temp. +8°F

Focus 12-934

Dome Temp. +1°

Transparency Conditions 1/2 of day good, clouds

310

delayed starting because of clouds + RA slow motion trouble. called for L

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
019W	47 11	0!	9.0	F3	2-2-2	set 2 star prog, # 1218		good
153W	47 55	0	8.8	F7	2-2-2	8	1225 overcast, except in N	good
0103E	29 10	0	8.56	K2	2-2-2	2 AG 25	clouds gone at 23 ^h become again 23 ^h 45	good
0035W	28 49	00	8.81	K5	2-2-2	" 8 " "	0014 Haze + Thin Clouds	good
					8/6	" 5	0200 Cloudy	all night
3 P.H. E 103-α + 8								
1 " H Speed								
H.M.								
Generator Pilot Kapit.								
	MC	SC	MTW	STW	S	SW	ME	
Jan 22.	+3.8	+16.5	+15.8	+5 ^m	+28.5	+25 ^s	-3.9	

311

3.54?

Date *Fre. Sat Jan 22 23⁵³* Observer *O-Hv* Julian Day *2434765*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
21011	BD +47° 822	3 19.1	+47 53	I-12	EK30-0	cut 608	-11.3	18 27	19 27	1
21012	BD +47° 826	3 19.8	+47 35	"	"	"	-11.3	19 30	20 00	1
21013	HD 71008	8 20.0	+28 58	"	"	"	-11.3	20 11	21 03	2
21014	HD 76766	8 53.1	+26 19	"	"	"	-11.3	21 07	21 43	2
21015	HD 73160	8 31.8	+26 36	"	"	"	-11.3	21 48	22 44	3
21016	HD 73509	8 33.7	+28 51	"	"	"	-11.3	22 49	23 39	3
21017	HD 76657	8 52.5	+26 52	"	"	"	-11.3	23 44	00 26	1
21018	" 77694	08 59.0	25 01	"	"	"	-11.4	00 31	01 05	1
21019	" 77729	08 59.2	26 34	"	"	"	-11.6	01 10	01 50	2
21020	" 76332	08 50.4	29 03	"	"	"	-11.6	02 03	02 31	1
<i>From Trip O.H.V.</i>										

Dome Temp... +70°F

Transparency Conditions *V. very good*

312

Focus... 12.933

Dome Temp... +30°F

Ending Time
L.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

12	0 06 E	+48 03	1 0	84	A3	2-2-2	St 2	2 x Per # 694	Could not find 1244	fine
20 20	0 26 W	+47 44	0 0	76	A	2-2-2	" 8	2 x Per # 729		fine
21 03	3 31 E	+28 44	0	842	K0	2-2-2	" 2	AG		fine
21 03	3 23 E	+26 06	0	801	G0	2-2-2	" 8	AG		fine
22 21	2 01 E	+26 23	0-1	8.70	K0	2-2-2	" 2	AG		strong
23 31	1 08 E	+28 36	1	8.83	G0	2-2-2	" 8	AG		strong
00 06	0 04 0 E	+26 38	1	8.54	G5	2-2-2	" 2	AG		fine
00 07	0 07	24 46	1	8.40	K0	2-2-2	" 8	"		fine
00 04 6 W	2 6 19	26 19	1-0	8.58	K2	2-2-2	" 2	"		fine
0 12 8 W	2 8 49	28 49	0-1	8.92	G5	2-2-2	" 8	"	0200 cloud from SE.	good
						8/6	" 5			all night

2 P.H. E 103-a-0 +4

1 " H, Spl.

H on M.

Dome Temp. +16°F

Focus 12.933

Dome Temp.

Transparency Conditions

314

Clouds at sunset and early evening.

Ending Time L.S.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 00	1	2 38 E	28 34	0	8.53	G5	2-2-2	Set 2 AG.25	Strong
23 04	1	4 3 E	27 22	0-1	8.98	K2	2-2-2	Set 8 " " clouds from 22.50 on	fair
								Temp rising mirror icing over	
								closed for night 20.00 L-13h.	

Date Thurs. Jan. 28-29 1954 Observer L-H v Julian Day 2434771

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
21023	HD. 30353 ³⁰⁴¹⁰	04 41.8 ^{04 42.3}	43 06 ^{+43 21}	I-12 $\frac{1}{2}$	E-103a-0	set .008	-10.4	19 22	19 52	1	0 41 E 4
21024	HD. 48646	06 39.3	424 46	"	"	"	-10.4	20 22	21 06	1	1 23 E 2
21025	" 74348	08 38.4	28 50	"	"	"	-10.4	21 13	21 57	2	2 31 E 2
21026	" 74624	08 39.9	28 43	"	"	"	-10.4	22 00	23 06	2	1 29 E 2
21027	" 75935	08 47.9	27 18	"	"	"	-10.4	23 11	0 03/	3	0 06 E 2
21028	" 76866	08 53.8	25 00	"	"	"	-10.4	00 38	02 24	3	2 14 W 2
21029	" 78277	09 02.2	27 58	"	"	"	-10.4	02 29	0 34/	1	2 50 W 2
21030	" 85428	09 46.6	25 36	"	"	"	-10.5	03 46	0 44/	1	2 31 W 8
<i>From list 27/13.</i>											

Dome Temp. +12°F

Transparency Conditions

Focus 12.935

Dome Temp. +8°F

Lost considerable time trying to find 1344, 609 in + Pers. these positions should be checked.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 41 E	43 27	0	8.3 8.8	G5 G5	2-2-2	Set 2 near Bidelman's star { HD 30410 G5? (subwary star) } fine	
1 23 E	24 42	0	8.16	Ka	2-2-2	Set 8 A.C. Prog for Cr. fine	
2 31 E	28 35	0	8.21	Go	2-2-2	Set 2 " " good!	
1 29 E	28 31	0	8.64	Go	2-2-2	Set 8 " " fine	
0 06 E	27 04	0	8.75 8.97	K2 Ko	2-2-2	Set 2 " " fine	
0 14 W	24 46	0	8.77	Ko	2-2-2	" 8 " " 0140 Clouds S.W. fine	
0 25 W	27 42	0	8.29	G5	2-2-2	" 2 " " 0145 Clearing fine	
0 31 W	25 18	0	8.63	K2	2-2-2	" 8 " " 0410 Clouds & Haze. weak	
					8/6	" 5 all night	

P.H. # 2 E 103-a-0

" " 4 H15 speed

Plates Needed

Arr M

	HC	SC	MTC	STW	S	SW	ME
Jan. 29	16.5	+10.8	-29.3	5.5	+11.0	-11.6	-1.2
Feb. 1	10.5	+24.2	+38.9	+5.5	+34.7	-9	+1.4

Dome Temp. 26 F

Clearing about 20 on Transparency Conditions

318

Focus

Dome Temp.

Reading Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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21 57-2	Σ 232	29 37	0	8.08 Mo	2-2-2	AG Surt 2	Several
22 36-2	Σ 131	28 19	0	6.95 Go	2-2-2	" " 8 Clouds.	fine

	ME	SC	MTW	STW	J	SW	ME
Feb. 3	+11.5 ^S	+23.8 ^S	+21.5 ^S	+4 ^m	+34.9 ^S	-3 ^S	+2.5 ^S
5'	+12.5	+25.2	+17.5	+3 ^m	+36.1	0	+2.5

Home Temp. $\pm 24^{\circ}\text{F}$

Docus. 12933

Home Temp.

Transparency Conditions *considerable cloudy*

320

The electric clock needs to be reset!

1.9

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 36	1 30E	27 05	1	8.38	K5	2-2-2	set 2, AG 25 prog.	<i>1 weak</i>
23 12	1 14E	25 11	1	7.99	K0	2-2-2	8 " too much cloud	<i>weak</i>
							1 PH 103-a-0	

ome Temp... +15°F

Transparency Conditions... good

322

ocus... 12.9.33

ome Temp... +12°F

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 20	0 54W	26 26'	0	7.93	KO	2-2-2	sgt 2, AG 25 mag.	fine
01 57	1 30W	24 36	0	8.00	GO	2-2-2	8 "	fine
03 12	2 36W	26 24	0	8.71	KO	2-2-2	2 " stormy wind	good
03 30	3 05W	27 57	0	8.05	KO	2-2-2	8 "	fine

had to stop observing because of wind
3PH E103-a-b

	MC	SC	MTW	STW	S	S W	NE
Feb. 8	+13.3 ^s	+26.8 ^s	+18.0 ^s	+2.2 ^m	+36.8 ^s	+5.3 ^s	+4.2 ^s
10	+17.5 ^s	+32.9 ^s	+23.5 ^s	+3.0 ^m	+42.9 ^s	+13.7 ^s	+2.5 ^s

Monday Tues Feb 09/54
Clearing about 2:30
Rains covered ice & snow today
Top of Dome like a skating rink.

ome Temp. ²⁷.....
 ocus ^{12:34}.....
 ome Temp.....

Transparency Conditions Some Cloud.....

324

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 50 ^E	26 06	00	801	G0	2-2-2-2-2	AG (Written by left hand)	Nothing
			7.11	K0	1 8	Clouds	
						2 PH 103 a v	

325

Date Thurs. - Fri. Feb. 11-12/54 Observer -H.V. Julian Day 2434785

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Filter Angle End
21039	H.D. 76766	0853.1	28° 19'	I-12 $\frac{1}{2}$	E103 $\frac{1}{2}$ -B	008	-7.3	0054	0144	2	0157
21040	" 79373	0908.6	25 26	"	"	"	-7.8	0151	0239	"	0211
21041	" 85946	" 50.2	27 19	"	"	"	-8.0	0247	0417	3	0352
21042	" 114762	1307.5	18 02	"	"	"	-8.0	0428	0530	3	0530
21043	" 109552	1230.5	29.23	"	"	"	-8.2	0537	0637	1	0635
	<i>Flowers</i>		<i>Feet</i>		<i>05/B</i>						

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

0510 -8°F in Car.

Transparency Conditions

Good.

326.

Focus.....
Dome Temp. -5°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0157W	2605	000	8.01	G0	2-2-2	Set a. A.G. 25 for Cn.	good
0237W	2513	00	7.97	K0	2-2-2	" 8 " " " "	good
0334W	2702	000	8.51	K0	2-2-2	" 2 " " " "	good
0130W	2745	000	8.2	F7	2-2-2	" 8. Std. Vel.	fair
0315W	2905	00	8.39	G0	2-2-2	" 2 A.G.	good
					8/6	" 8	all right

3 P.H. E 1034-0

Plates Needed

	ME	se	MEW	STW	S	SW	ME
Feb. 12	$+15.3^s$	$+29.1^s$	$+27.3^s$	$+3^m$	$+39.1^s$	$+12^s$	-2.2^s
15	$+16.8^s$	$+31.2^s$	$+23.5^s$	$+5^m$	$+41.0^s$	$+21^s$	-2.8^s
17	$+18.7^s$	$+32.9^s$	$+21.5^s$	$+4^m$	$+42.7^s$	$+23^s$	0.0

327

Date Wed-Thurs Feb 17-18/53 Observer Ho - 175 Julian Day 2434791

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 End
21044	HD 30353	04 41.8	+43 06	L12	F10540	^{lit} .016	+2.8	18 35	19 01	2	0145+
21045	HD 71028	08 20.1	+28 45	"	"	"	+2.8	19 11	20 06	3	02 16+
21046	HD 77729	08 59.2	+26 34	"	"	^{lit} .016	+2.8	20 24	21 10	3	02 11-
21047	HD 83617	09 34.7	+25 29	"	"	"	+2.9	21 38	22 23	4	01 45
21048	HD 72907	08 30.5	+29 03	"	"	"	+2.8	22 30	23 10	3	01 10
21049	HD 73160	08 31.8	+26 36	"	"	"	+2.8	23 14	00 10	1	00 10
21050	HD 73509	08 33.7	+28 51	"	"	"	+2.8	00 09	00 55	3	0155
21051	A.G. 4714	08 46.1	26 06	"	"	"	2.8	01 07	02 37	2	0320
21052	H.P. 75646	" "	26 05	"	"	"	2.8	02 40	03 20	"	0507
21053	A.G. 4836	09 02.5	27 57	"	"	"	2.8	03 28	04 12	3	04 12
Focus Test, 0.91						<u>.016</u>					

Dome Temp. +3.6

Focus. 12.933

Dome Temp. 3.3

Transparency Conditions Good

328

(Windy)

Ending Time L.S.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
14 01	20	14E	+43 13	00	8.3	Go	1-1-1	Bidelincennia * Field as in 20752	fine	
20 02	30	46E	+28 34	00	8.9	Ko	1-1-1	Set 2 AG - No basis control - phoned L.	wh. comp	
20 02	22	21E	+26 28	00	8.6	K2	1-1-1	Set 8 AG Focus getting worse. - k up	fine	
20 22	40	44E	+25 14	00	8.9	Go	1-1-1	Set 2 AG - Repaired focus switch.	wh. comp	
20 10	0	10W	+28 52	0-	8.6	Ko	1-1-1	Set 8 AG - Clock lights kept going off 1 on.	fine	
20 10	00	58W	+26 22	0-	8.7	Ko	1-1-1	Set 2 AG -	good	
20 10	01	55W	28 40	00	8.8	Go	1-1-1	Set 8 AG -	wh. comp	
20 10	03	21W	25 55	0	9.45	Go	1-1-1	" 2 "	Very Windy	
20 10	04	04W	11	0	8.51	Ko	1-1-1	" 8 "	fine	
20 10	04	48W	27 43	0	9.35	Go	1-1-1	" 2 "	Wind Turning Down	
							4/3	" 8 "	0423 from moving stars of ... due to wind.	central to red
								1 P.H. +8 E103a-O.		
								Mon-M.		

329

Date Thurs-Fri Feb 18-19, 1954 Observer O. - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
21054	HD 75663	8 46.2	+29 14	7-12	F103a-0	set .016	+7.4	19 32	19 53	29
21055	HD 77444	8 57.4	+27 37	"	"	"	+7.5	20 02	20 30	4
21056	HD 78887	9 05.5	+25 49	"	"	set .008	+7.5	20 35	21 05	0
21057	HD 85140	9 46.7	+28 15	"	"	"	+7.4	21 28	22 01	1
21058	HD 85615	9 47.9	+26 07	"	"	"	+7.4	22 10	22 31	2
21059	HD 85976	9 50.4	+26 28	"	"	"	+7.3	22 36	23 01	2
21060	HD 86168	9 51.7	+25 16	"	"	set .016	+7.4	23 10	23 31	5
21061	HD 86801	9 55.8	+29 02	"	"	"	7.3	23 54	00 11	3
21062	" 86800	09 55.8	28 39	"	"	.002	7.3	01 00	01 11	4
21063	" <u>88008</u>	10 03.7	25 02	"	"	.016	7.3	01 32	02 00	4
21064	" 88416	10 06.6	27 36	"	"	"	7.3	02 08	02 36	1
21065	" 89629	10 15.5	28 15	"	"	"	7.2	02 54	03 22	1
21066	" 89631	10 15.5	27 13	"	"	"	7.0	03 25	04 00	2
21067	" 89630	10 15.5	27 25	"	"	"	7.0	04 10	04 52	2
21068	" 90183	10 19.5	25 27	"	"	"	7.0	04 58	05 48	3
21069	" 115339	10 21.5	20 11	"	"	"	7.0	05 59	06 05	3

Dome Temp. +40

Transparency Conditions

good

330

Focus 12.933

Dome Temp. 32

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3	15E	+29 01	1+	8.75	K2	1-1-1	Set 2 AG-25 Focus drive slipping, L fixed	fine
2	54E	+27 21	1-2	8.93	K2	1-1-1	" 8 "	fine
2	07E	+25 36	1-2	8.89	K0	2-2-2	" 2 "	fine
2	07E	+27 58	1	8.49	K0	2-2-2	" 8 "	fine
1	41E	+25 54	1	8.07	K2	2-2-2	" 2 "	fine
1	11E	+26 13	1	8.20	K0	2-2-2	" 8 "	fine
0	24E	+25 00	0	8.96	K0	1-2-1	" 2 "	fine
0	00N	29 44	0	8.93	G0	1-1-1	" 8 "	fine
0	00W	29 22	0	8.26	G0	2-2-2	" 2 "	fine
0	132W	24 47	0	8.72	G5	2-1-1	" 8 "	fine
0	218W	22 20	0	8.96	K0	1-1-1	" 2 "	fine
0	238W	27 57	0	8.49	K0	1-1-1	" 8 "	fine
0	319W	26 50	0	8.65	G0	1-1-1	" 2 "	fine
0	411W	27 06	0	8.75	G0	1-1-2	" 8 "	fine
0	503W	24 50	0	8.79	G0	1/2-1-1	" 2 "	fine
0	250W	27 58	0	8.49	"	1-1-1	" 8 "	fine

no base of microscope on plate

3 P.H. +10 E103a-0

H on M.

2.5. Focus Test. O.F.B. 1/3 (cont. work.)

Dome Temp... 42 F

Transparency Conditions... O.K.

332

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	20 ^m	43 12	0	8.43	Gop	2-2-2	Set 2. <i>Budelman</i> 0 *	fine
21	3 22	25 36	0-1	7.79	G5	2-2-2	Set 2 AG	l weak
22	2 38	29 12	1	8.56	K2	2-2-2	" 8 AG	l weak
23	2 02	27 42	1	(9.35)	G0	1-1-1	" 2 AG S. foll. of pair.	strong
24	1 21	27 42	1	(9.35)	G0	1-1-1	" 8 AG N. prec. " "	strong
25	0 38	27 44	1-0	8.89	G5	1-1-1	" 2 AG	strong
26	0 02	25 37	0	8.89	K0	1-1-1	" 8 AG	fine
27	0 48 W	29 02	0	8.96	K0	1-1-1	" 2 AG 0315 Haze	fine
28	1 3 W	24 29	0	8.75	K0	1-1-1	" 8 " + Clouds.	fine
29	2 16 W	25 29	0	8.82	K0	1-1-1	" 2 "	fine
30	2 46 W	26 25	0	7.93	K2	2-2-2	" 8 "	l weak
31	3 31 W	24 36	0	8.00	G0	2-2-2	" 2 "	fine
46	0 156	24 41	00	8.70	M0	2-2-2	Feb. 19 $\begin{matrix} MC & SC & MTW & STW & S & SW & ME \\ +5.11 & 5 & 5 & m & 5 & S & S \\ 19.3 & +34.5 & +14.3 & +.2 & +44.0 & +28 & -1.5 \end{matrix}$ $\begin{matrix} + & & & m & & & \\ 22 & 2.2 & +36.2 & +13.2 & +.2 & +46.2 & +33.2 \\ & & & & & & & +4.2 \end{matrix}$ 2 P.H. +4 H = 11.17	good

Dome Temp... 28.0 F

Transparency Conditions... very good
clear & bright

334

Focus.....

Dome Temp... 21

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-1:49	+17 03	0	9.0	G0	1-1-1	set 2 Hi-mel	fine
-2:36	+24 47	0-1	8.74	K0	1-1-1	" 8 AG	fine
-1:51	+28 50	0-1	8.81	K5	1-1-1	set 2 AG	good
-1:15	+29 25	1	8.72	M2	1-1-1	" 8 AG see 20983 for Funder field etc.	good
-0:12	+26 40	0-1	8.54	G5	2-2-2	set 2 AG	fine
+0:25	+26 04	0-1	8.01	G0	2-2-2	" 8 AG	fine
0121W	+29 11	0	8.56	K2	2-2-2	set 2 AG	fine
0211W	24 46	0	8.40	K0	2-2-2	" 8 "	fine
0353W	26 19	0	8.63	K2	2-2-2	" 2 " 0215 Haze.	fine
0240W	25 42	0	8.75	G0	2-2-2	" 8 "	fine
0225W	27 20	00	8.82	G5	2-2-2	" 2 " c50 A few clouds	fine
					8/6	" 8	all object

3 P.H. + 9 E 1039-0

	uc	sc	n+w	s+w	s	s	s	ME
Feb. 24	25.2	+37.6	+14.7	+1.1	+47.8	+34	+5.0	
26	23.0	+39.2	+17.8	+2	+49.4	+38.9	+5.3	

375

Date Fri-Sat, Feb 26-27/54 Observer Ho- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
21094	HD 30353	04 41.8	+43 06	I-12	F103aD	<i>slit</i> 0.008	+2.0	18 41	19 33	2	20 55N +
21095	HD 77694	08 59.0	+25 01	"	"	<i>slit</i> 0.016	+2.0	19 44	20 10	1	22 45E -
21096	HD 79214	09 07.7	+24 42	"	"	<i>slit</i> 0.008	+1.9	20 16	21 16		1 48E +
21097	HD 80819	09 16.9	+26 12	"	"	<i>slit</i> 0.016	+2.0	21 23	21 59	3	15-15E -
21098	HD 83224	09 31.8	+24 51	"	"	"	+1.9	22 08	22 54		0 25E -
21099	HD 83632	09 34.8	+26 26	"	"	"	+2.0	22 59	23 29	4	2 05E -
21100	HD 83820	09 35.9	+29 20	"	"	"	+2.0	23 33	00 13		0 41N -

Dome Temp. +32

Transparency Conditions Fair, some cloud (improved later on)

Focus.....

336

Dome Temp. +27

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11:35	00 55W	+43 10	0	8.3	G _{0p}	2-2-2	Bichlman's star. Field as in 20752	extremely
12:00	02 45E	+24 46	0	8.4	K ₀	1-1-1	{ set 2 AG (some aurora)	break
12:16	01 48E	+24 28	0	8.75	K ₀	2-2-2	{ 8 AG (already on "W")	fine
12:50	01 13E	+25 56	0-1	8.85	G ₅	1-1-1	{ set 2 AG	fine
13:00	00 31E	+24 35	0-1	8.77	G ₀	1-1-1	{ set 8 AG	fine
13:20	00 02E	+26 11	0-1	8.72	K ₀	1-1-1	{ set 2 AG (27.45)	good
13:30	00 41W	+29 04	0-1	8.95	G ₅	1-1-1	{ set 8 AG (light cloud from S) and strong	fine

March 2

MC	SC	HMC	SMC	S	SW	HE
+23.8 ^s	+41.0 ^s	-33.2 ^s	-.6 ^m	+51.9 ^s	-19 ^s	-8.0 ^s

4 P.H. + 21 E 10 3 a 0

339

Date Fri. Sat. Mar 5-6, 1954 Observer O - H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
21102	40 81855	9 23.1	+26 29	I-12	E103a 0	sd ,016	-4.3	0 23	0:49	2
21103	HD 82331	9 26.2	+27 16	"	"	"	-4.3	0 53	0219	2
21104	" 91842	10 31.2	28 18	"	"	"	-4.3	02 27	0310	2
	<i>Frame Test</i>					0.913			effective	

Dome Temp. +18

Focus 12.933

Dome Temp. 18

Transparency Conditions *Saturated clouds until 23h. clearing*
340

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
158 W	+26 25	0-1	8.71	K0	1-1-1	5/2 AG.. Focus slipping going "up"	Lowest
0326 W	+27 00	1	8.96	G5	1-1-1	" 8 AG 0122 clouds	fine
	28 00	0	8.98	K0	1-2	" 2 " for Cor. 0155 Clearing	Lowest
					4/3	" 8 0310 clouds 0340 solid.	all normal
						1 P.H. +4	

Home Temp... +28°F

ocus... 12.933

Home Temp... ..

Transparency Conditions *fairly good*

342

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 09W	+26 08	0+	8.02	K0	2-2-2	Et 2- AG	<i>fine</i>
0 29W	+27 57	1	8.05	K0	2-2-2	" 8 AG	<i>fine</i>
1 44W	+26 19	0-1	8.63	K0	1-1-1	" 2 AG	<i>fine</i>
02 27W	+28 11	0	8.91	K0	1-1-1	" 8 "	<i>fine</i>
02 38W	28 13	0	7.5	K0	2-2-2	" 2 " Re-insused:	<i>fine</i>
03 34W	28 10	0	7.5	K0	2-2-2	" 2 " see that they are dry or are dried and perhaps rewrap in plate box in sp. room.	<i>fine</i>
					8/6	" 5	<i>all right</i>
						0237 H12 + 0.1	
						2 P.H. + 8	

343

Date Mon-Tue Mar 8-9 1954 Observer MR - H v Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
21111	HD 30353	04 41.8	+43.06	I-12	E103a-0	Set .008	0.0	18:54	19:20	3	+1:21 +
21112	HD 60778	07 31.0	+ 0.04	"	"	"	0.0	19:32	21:12	4	40:25 -
21113	HD 85440	09 46.7	+28.15	"	"	"	0.0	21:21	22:05	1	-0:57 +
21114	HD 86168	09 51.7	+25.16	"	"	"	0.0	22:10	23:12	1	40:04 +
21115	HD 85428	09 46.6	+25.36	"	"	"	0.0	23:20	23:52	2	40:49 +
21116	HD 84577	09 41.1	+27.38	"	"	"	0.0	24:00	02:14	2	03:16 +
	BD +27° 15' 11"		09 42.1	+27.35							
	Focus Test.				D.9/B.						

Dome Temp. +29°F

Transparency Conditions fair; haze in W

Focus... 12.934

Dome Temp.....

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:20	+1:21	+43 13	1	8.3	GOp	2-2-2	Set 2 Bidelman's star	strong
21:12	+0:25	- 0 02	1+	9.2	AIV	2-2-2	" 2 High Vel. haze	fair
22:05	-0:57	+27 58	1	8.49	K0	2-2-2	" 2 A.G.	fair
23:21	+0:04	+25 00	1	8.96	K0	2-2-2	" 8 A.G. haze	fair
23:52	+0:49	+25 20	2	8.63	K2	2-2-2	" 2 A.G.	wak
01:03	16W	+27 18	2	8.98	K0	2-2-2	" 8 A.G. $\alpha = 09^h$ 42.1 ^m off 24:00-00:30 haze	wak
					8/6	" 5	0.256 Terrible	all night

Hon. M.

3 P.H. E103a0 +4+2

P. Crane

	MC	SC	MTC	STC	S	SW	ME
Mar. 9	-2.5	-2.3	+18.3	+2 ^m	-4.3	0	-4.8

Dome Temp. +30

Focus.....

Dome Temp.....

Transparency Conditions *clouds at sunset, clearing slowly.* 346

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	0 32 W	+0 03	1	9.2	AIV	2- $\frac{1}{2}$ - $\frac{1}{2}$	Roman 14161 Trouble with focus- perishes; called for h.	Completely fogged
22 5	W 0 09	27 21	0	8.98	G0	2-2-2	el 2 AG Some clouds.	} Completely fogged
23 35	W 0 39	25 53	1	8.07	K2	2-2-2	" 8 AG	
00 19	0 1 21 W	26 13	0	8.20	K0	2-2-2	" 2 AG	good
01 17	2 54 W	28 45	0	8.93	G0	2-2-2	" 8 "	good
	—	26 43	0	8.95	K2	2-4	" 2 "	} cloud from S. at 01.20. completely fogged. closed at 01.5
						8/6	" 8 "	

1 P. H. 7 4.

H on M.

*Exposed plates are
to be exposed by O.
Mar 7/8 found
sawing to be
wet.*

HW

*Can't understand how these 3 plates
became fogged. They are not the 3 which
were loaded at the beginning of the night.
So we developed the plate which was
loaded at the end of the night.
It was also fogged so we saved back the
4 unbraded plates + took a new box to develop.
Hd + L.*

347

Date Thurs - Fri Mar 11/2, '54 Observer Ho - Hr - BK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End	
21119	HD 84577	09 41.1	+27 38	T.12	E 103a0	^{set} 0'008	+3.3	19 42	21 38	1	01 08	
21120		09 47.9	+26 07	"	"	"	+3.3	21 44	22 24		20 20	
21121	HD 86460	09 53.4	+27 49	"	"	"	+3.2	22 32	23 20	2	20 11	
21122		09 54.4	+25 02	"	"	"	+3.1	23 24	00 12		21 11	
21123	HD 89629	10 15.5	+28 15	"	"	"	+2.9	00 17	01 21	3	20 22	
21124		" 89631	10 15.5	27 13	"	"	"	01 30	02 30		3 15	
21125	90442	10 21.4	+27 10	"	"	"	+2.5	02 36	03 46	4	4 21	
21126		91855	10 31.3	+26 41	"	"	016	+2.4	03 54	04 28		4 01
21127	BD +13°2698	13 35.0	+13 06	"	"	"		04 40		#	1 55	
21127		HD. 122052	13 54.3	+25 12	"	"	008	+2.8	04 57	05 31	1	1 55
21128		HD. 123782	14 04.6	+49 56	"	"	"	+2.8	05 37	05 42		2 51

Dome Temp. +29

Transparency Conditions *Cleared at sunset*

Focus.....

348

Dome Temp. +17°

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 08E	+27 22	00	8.98	{G0	2-2-2	AG set 2} - No spots.	fin
00 30E	+25 54	0	8.07	{K2	2-2-2	AG set 8}	fin
00 22W	+27 44	0	8.15	{G0	2-2-2	AG set 2} Spots	fin
01 10W	+24 47	0	8.40	{G5	2-2-2	AG set 8}	fin
00 2W	27 59	0	8.49	{K0	2-2-2	AG set 2	fin
3 11W	26 55	0	8.65	{G0	2-1-2	" " 8	fin
4 21W	26 52	0	8.86	{G5	2-2-2	" 2	fin
4 54W	26 24	0	8.92	{K0	2-2-2	" 8	too weak
2 55W		0	10.0	F2	1-	Hi-Vel. set 10 min exposure	
2 55W	24 55	0	7.92	{G0	2-2-2	AG set 5	fin
2 58W	49 40	0	6.72	{M2	2-2-	Ad. vel. set 8	good

He did not feel well.
PK took over at 2 a.m.

RA slow motion motor makes a
strange noise

1 PH loaded with E103-a-0

cannot find the cap of spectrophotometer

	MC	SC	MTU	STU	HE	S	SW
March 12	-2.2	+4 ^s	-	-	-7.8	-1.8	+4.4 ^s

are bands to be heavy.

Dome Temp.....+23°F

Focus.....12.933

Dome Temp.....20

Transparency Conditions *Thin clouds around.*

Clouding in and clearing at 23h.

1350

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				8.29	K2	2	Sat AG Clouded in until 23 ^h .	
00 03	1 34 W	+27 22	0	8.98	G0	1-1-1	" 2 "	fine
00 06	0 144 W	27 34	0	8.95	K0	1-1-1	" 8 " 4 ph loaded +12.	fine
00 04	0 247 W	29 21	0	9.0	G0	1-1-1	" 2 " for Cr. Windy, Image unsteady	strong
03 10	0 359 W	26 09	0	8.89	G5	1-1-1	" 8 " "	fine
			00			2	" 2 " Trouble, focussing. Belt came off.	
00 17	8 337 W	27 03	0	8.61	G5	2-2-2	" 6 " "	too weak
						F/6	" 9 " "	all night center weak.
							1 PH +12.	
							How M ⁻	
							March 13	
							HC ^s -1.4	
							SC ^s +2.4	
							NEW	
							SW	
							S	
							SE	
							+10 ^s	
							-1 -1.2	

351

Date Tue - Wed, 1954 Mar 16/17 Observer Hd (BR) - L Julian Day 2434818

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 End
21131 ³	HL 60778	07 31.0	+0 04	I 12 1/2	E 103-20	rect .016	0.0	19 59	20 19	2	0 04 W
21131 ⁴	HD 53472	07 00.1	+25 01	"	"	.008	-0.2	20 31	21 01	3	1 37 W
21131 ⁵	HD 85946	09 50.2	+27 19	"	"	"	-0.2	21 09	21 43		2 53 E
21131 ⁶	HD 90567	10 22.3	+27 44	"	"	"	-0.2	21 50	22 40	4	3 21 E
21131 ⁷	HD 90682	10 23.1	+27 26	"	"	"	-0.2	22 45	00 15		1 08 W
21131 ⁸	" 90841	10 24.2	29 02	"	"	"	-0.2	00 20	01 30	1	2 22 W
21131 ³⁹	" 90932	10 24.8	27 51	"	"	"	-0.2	02 00	03 10	1	4 02 W
21141 ⁴⁰	" 106398	12 09.3	27 03	"	"	"	-0.2	03 14	03 38	2	2 46 W
21141 ⁴¹	AG 6249	12 43.4	25 41	"	"	"	-0.2	03 41	05 21	2	3 50 W

Dome Temp. +32°F

Transparency Conditions *good*

352

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 19	0 04W	-0 03	2	9.2	A1, V	1-1-1	Set 5 Hi-wel.	<i>strong</i>
2 30	1 18W	24 5.8	2	8.29	K2	2-2-2	set 5. AG 25 } Short exposure at set 2 by mistake	<i>fine</i>
2 43	0 50E	27 04	2	8.51	K0	2-2-2	" 9 " } No spots on plates. The plates needs repairing	<i>fine</i>
2 40	0 26E	27 25	2	8.65	G0	2-2-2	set 2 " Happy	<i>strong</i>
00 15	1 08W	27 09	2-1	8.76	K0	2-2-2	" 8 " Increasing cloudiness	<i>fine</i>
01 30	2 22W	28 47	1	8.90	K2	2-2-2	" 2 " sky improving	<i>fine</i>
03 00	4 02W	27 33	1	8.95	K0	2-2-2	" 8 " "	<i>fine</i>
03 38	2 46W	26 45	1	7.88	G5	2-2-2	" 2 " Strong N.W. wind rising.	<i>fine</i>
05 20	3 50W	25 23	1	8.99	K2	2-2-2	" 8 " telescope jumping	<i>1 weak</i>

4 P.H.s loaded 1030.0 + 4

March 17

	HL	SC	UTR	H on M	S	SW	NE
	^S	^S	^S	^m	^S	^S	^S
	-2	+4.3	+23.5	+7	+1.5	+16.3	+53.5

353

(Wednesday) (17)
 Date Thursday March 18, 1954 Observer Ho. Hr Julian Day 2437819

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21142 ←	HD 60778	07 31.0	+00 04	I12 1/2	E103a0	set 0.015	+2.0	19 07	20 07	1	00 04E
21143	HD 30353	04 41.8	+43 06	"	"	set 0.008	+2.0	20 18	20 50	2	33 27W
21144 ←	BD+19°1749	07 24.6	+19 10	"	"	set 0.016	+2.0	20 59	21 45	7	01 40W
21145 }	BD+27°1811	09 42.1 (45.0)	+27 35 (21)	"	"	"	+2.0	21 51	22 51	3	00 30W
21146 }	HD 84577	09 41.1	+27 38	"	"	set 0.008	+2.0	22 56	23 56	3	01 36W
21147 }	HD 90183	10 19.5	+25 07	"	"	"	1.9	23 59	00 49	4	01 51
21148 }	" 90442	10 21.4	27 10	"	"	"	1.9	00 53	02 03	0	02 03
21149 }	" 90567	10 22.3	27 44	"	"	"	1.9	02 09	03 29	7	04 20
21150 }	" 133922	15 02.0	26 49	"	"	"	1.9	03 36	04 46	1	04 07
21151 }	143313	15 54.6	25 52	"	"	0.016	1.9	04 52	05 42	2	01 10
	Focus Point 1.13										

Dome Temp. +34

Transparency Conditions *Good*

354

Focus 12.933

Dome Temp. 26

Ending Time E.S.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 7	100	04E	-00 02	0+	9.2	A ₁ I	1-1-1	High Velocity Set 2	fine
20 51	03	27W	+43 12	0+	8.3	G _{0p}	2-2-2	Bidelman's Star Set 9	strong
21 45	01	40W	+19 03	0-1	9.0	G ₀ I	1-1-1	High Velocity Set 8	strong
22 17	00	30W	+27 20	0-1	9.4P	(K ₀)	1-1-1	AG Set 2	strong
23 56	01	36W	+27 23	1	9.0	G ₀	2-2-2	AG Set 8	fine
01 19	01	51W	24 51	1	8.8	G ₅	2-2-2	AG Set 2	fine
02 3	03	03W	26 53	0	8.86	G ₅	2-2-2	" " 8	fine
03 19	04	28W	27 27	0	8.65	G ₀	2-2-2	" " 2	good
04 46	01	07W	26 36	1-0	8.92	K ₂	2-2-2	" " 8	fine
05 42	01	10W	25 42	1-0	8.91	K ₅	1-1-1	" " 5	strong
							4/3	" " 9	all present
								2 RTH 103a-0 plates needed.	
								Hon. M.	

355

Date Thurs Mar 18-19/54 Observer L-Hr Julian Day 2434820

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 End
21152	HD. 90346	10 20.7	25 14	I-12 $\frac{1}{2}$	E-103A0	set 008	+4.0	20 40	21 50	3	27E
21153	" 91164	10 26.4	25 14	"	"	"	+4.0	21 34	22 34	3	27E
21154	" 91348	10 27.7	28 18	"	"	"	+4.0	23 08	01 08	4	29E
21155	" 92456	10 35.4	26 13	"	"	"	3.9	01 12	02 42	"	23E
21156	" 1151031	13 09.9	29 55	"	"	"	3.9	02 48	04 08	"	23E
21157	" 130500	14 43.5	25 53	"	"	"	3.9	04 15	05 37	"	23E
	<i>Faint text</i>			<i>07/13</i>							

Dome Temp. +34°F

Focus 12.933

Dome Temp.

Transparency Conditions Clouds at sunset 356

Waited, sky thinning somewhat, demonstrated telescope to Tutorial class.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 50	31 27 E	24 53	1	8.14	Ko	2-2-2	A.G. 25 size haze	good
22 34	30 27 E	24 57	1	8.43	Ko	2-2-2	" set 8 haze clouds at 22.05	good
01 08	40 205 W	28 01	1	8.77	G5	2-2-2	" size haze	fine
02 42	0 332 W	25 57	0	8.33	Ko	2-2-2	" " 8 "	good
03 21	0 223 W	29 40	0	8.79	G0	2-2-2	" " 2 ^{02.50} sky improved a little	fine
05 37	0 220 W	25 39	0	8.96	Ko	2-2-2	" " 8 ^{02.500} clouds & haze	weak
						8/6	" 5	all right

3 P.H. + 8

Hon M.

	MC	SC	MTU	STW	S	SU	ME
March 19	+5 ^s	+6.0 ^s	-2.0 ^s	+0.4 ^m	+3.8	+20 ^s	+3.4

ome Temp. 12405

Transparency Conditions good, windy

358

ocus 12933

Finder field book missing

ome Temp. 20° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 05E	25 00	0	9.6	F0	1-1-1	set 2 Romar Hi-vel. program Power off at 2036 for a moment	fine
0 32W	23 26	0	8.7	B9	1-1-1	8 "	fine
0 00	28 46	0	7.98	K0	2-2-2	2 AG 25	fine
0 41W	28 23	0	8.26	G0	2-2-2	8 "	fine
0 133W	29 20	1	8.42	G0	2-2-2	2 " "	fine
0 312W	26 23	0	8.92	K0	2-2-2	" 8 " "	weak
0 457W	26 0 8	0	8.89	G5	2-2-2	" 2 " "	good
0 335W	27 0 2	0	9.0	G5	2-2-2	" 8 " "	fine

P/6 " 5

center to violet

3 PH + PE 10300

Horn M.

	HC	SC	L1W	Sru	S	S W	ME
Mar. 22	+1.7	+06.8	+4.5	+4.7 ^m	-4.7	+18	+2.2

359

Date Tues - Mon 23-24/54 Observer Hd - L Julian Day 2434.825

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 End
✓ 21166	AG 3682	06 55.3	26 22	I-12	E103aD	016	+3.2	19 26	20 02	2	W 49m
✓ 21167	HD 55080	07 064	26 46	"	"	008	+3.2	20 06	20 42	2	W 1.17
✓ 21168	HD 55578	07 084	28 38	"	"	016	+3.1	20 47	21 23	3	W 1.57
✓ 21169	HD 57470	07 163	30 01	"	"	"	+3.0	21 27	22 07	3	W 2.33
✓ 21170	HD 69349	08 11.5	27 43	"	"	"	+3.1	22 10	22 30	3	W 2.01
✓ 21171	HD 71132	08 20.6	28 23	"	"	"	+3.0	22 32	23 08	4	W 2.30
✓ 21172	HD 84577	09 41.1	27 38	"	"	"	+3.0	23 14	23 54	1	W 1.56
✓ 21173	HD 87804	10 02.4	27 16	"	"	"	+3.0	23 57	00 37		2.18W

Dome Temp. 32. F

Transparency Conditions

360

Focus

Dome Temp.

825

Ending Time R.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 02	W 49m	26 18	0	8.82	G5	1-1-1	set 2 AG	fine
20 42	W 1 ^h 17	26 39	0	8.19	K0	2-2-2	" 8 "	fine
21 23	W 1 57	28 33	1	8.96	K0	1-1-1	" 2 "	fine
22 07	W 2 33	29 55	1	8.89	K2	1-1-1	" 8 "	fine
22 30	W 2 01	27 34	1	8.49	K0	1-1-1	" 2 "	fine
23 08	W 2 30	28 13	1	8.92	K0	1-1-1	" 8 "	fine
23 54	W 1 56	27 22	1	8.98	G0	1-1-1	" 2 " Some thin clouds.	fine
00 37	2 18W	27 00	1	8.82	K0	1-1-1	" 8 " Light clouds	fine

Sky thickening, closed at 02.00

3 PAs loaded + 4 103a-0

	MC	SC	MTU	HMM	S	SW	HE
Max. 24	+2.8 ^s	+08.0 ^s	+6.0 ^s	+4 ^m	+06.0 ^s	+29 ^s	+1.2 ^s
26	+8.8 ^s	+10.3 ^s	+6.3 ^s	+4 ^m	+08.3 ^s	+26.0 ^s	+0.5 ^s

361.

Date Fri - Sat 1954 Mar 26/27

Observer Pnc - H v

Julian Day 2434828

0 5 43 40.1 8561.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
21174	HD 88008	10 03.7	+25 02	T-10 1/2	E103-a-0	slit .008	-1.0	20 57	22 09	2
21175	88533	10 07.5	+27 55	"	"	"	-1.2	22 15	23 25	1
21176	89630	10 15.5	+27 25	"	"	"	+4.0	23 31	00 41	3
21177	95363	10 55.5	27 40	"	"	"	+3.9	00 48	01 32	3
21178	95364	"	24 37	"	"	"	+3.9	01 37	02 57	4
21179	" 104784	11 58.9	25 30	"	"	"	+3.9	03 02	05 12	12
<i>From feet</i>				<i>09/13</i>						

ome Temp. +32°F

Transparency Conditions good

362

ocus.....

Cloudy earlier.

ome Temp. 25°F

Telescope drifting south all night.

228

35616

Ending Time
L.S.T.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2209	0 00	24 46	0	8.72	G5	2-2-2	set 2. AG 25	fine
2255	1 12W	27 37	0	8.70	G5	2-2-2	" 8	fine
0041	2 22W	27 05	0	8.75	G0	2-2-2	" 2 " Wha' happen to Temp???	fine
0132	0 232W	27 21	0	7.93	G0	2-2-2	" 8 "	fine
0157	0 358W	24 16	0	8.82	G5	2-2-2	" 2 " Windy	too weak
0512	0 510W	25 10	0	9.00	G0	2-2-2	" 8 " Bottom section of guiding eyepiece fell off.	1 weak
						P/6	" 5 " Threads stripped?	all right

2 P.H. + 2.
Horn M.

	ML	SC	MTW	STM	S	S W	ME
Max. 29	+5.3 ^S	+11.2 ^S	-12 ^S	+3 ^M	+19.4 ^S	-19.3 ^S	+4.1 ^S

363

Date Tues - Wed Mar 30-31/54 Observer Hd - Prc Julian Day 2434832

09 40 56.3 3554.6

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 End
21180	HD 83617	09 34.7	25 29	I:13	E103aD	008	+1.0	21 56	23 16	1	11 52
21181	BD +22° 1811	09 42.1	27 38.3	"	"	016	+1.0	23 23	00 13	1	12 02
21182	HD 91842	10 31.2	+28 18	"	"	008	+1.0	00 22	01 52	2	13 30
21183	HD 94966	10 57.2 ^{52.7/30.}	+24 55	"	"	"	+1.0	01 57	02 35	2	13 50
21184	BD +13° 698	13 35.0	+13 06	"	"	016	+0.6	02 42	05 02	3	13 50
	Focus Test	O.T.B.				008					

Transparency Conditions *Clouds earlier.*

Dome Temp.....

Focus.....

Dome Temp. +22°F

v 30 students of artown la. Ho + O showed 4 till 74.

light aurora after midnight.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 152	25 14	0	8.86	G0	2-2-2	<i>dit 2 AG mag. Some haze!</i>	<i>weak</i>
02 42W	27 19	0	9.0?	?	1-1-1	<i>" 8</i>	<i>weak</i>
03 36W	28 00	0	8.98	K0	2-2-2	<i>"</i>	<i>good</i>
03 54W	24 36	0	8.15	K0	2-2-2	<i>"</i>	<i>good</i>
03 40W	12 48	0	10.0	F2	1-1-1	<i>5 Hi-vel. 0410 clouds Very poor seeing</i>	<i>fine</i>
					8/6	<i>" 2</i>	<i>OK</i>

3PH +10

	MC	SC	MTW	STW	S	SW	ME
<i>Max. 31</i>	<i>+6.5^s</i>	<i>+12.2^s</i>	<i>-7.0^s</i>	<i>+2^m</i>	<i>+10.4^s</i>	<i>-15^s</i>	<i>+3.0^s</i>

365

Date *Wed. Thurs Mar 31/Apr 1* Observer *H₀ (Bk) - Hr* Julian Day *2424833*

0 10 40 10.9 3552.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	
21185	HD 63016	07 41.7	+28 53	<i>F12</i>	E 10320	<i>slit</i> .008	+0.8	20 42	21 23	4	
21186	HD 63712	07 45.2	+29 26	"	"	"	+0.7	21 25	22 05		
21187	HD 79318	09 08.3	+25 43	"	"	"	+0.4	22 09	23 15	1	
21188	HD 8008	10 03.7	+25 02	"	"	"	+0.4	23 18	00 24		
21189	HD 95363	10 55.5	+27 40	"	"	"	+0.4	00 29	00 59	2	
21190	" 95364	"	24 37	"	"	.016	+0.4	01 15	02 45	4	
21191	+51° 1664	11 20.6	50 55	"	"	"	+0.3	03 00	04 40	3	
21192	H.D. 144579	16 01.5	39 24	"	"	.008	+0.5	04 52	05 12	2	
				<i>Focus Test</i>							

Dome Temp.

Focus

Dome Temp.

Hour Angle End

21 10

22 10

23 10

24 35

22 19

24 25

25 32

21 20

Dome Temp. +27

Transparency Conditions *Good*

366

Focus

Cleared off after sunset

Dome Temp.

833
3529

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	46W	+28 45	0	8.12	G5	2-2-2	Set 2 AG	2 wk.
02	24W	+29 16	0	8.25	G5	2-2-2	Set 8 AG - ^{look} wider field, needs more pages!	fine
02	22W	+25 28	0	8.82	K0	2-2-2	Set 2 AG (Didn't add many for lock of a pan) [↑]	fine
02	35W	+24 45	0	8.72	G5	2-2-2	Set 8 " → checked temp control - O.K.	fine
02	19W	+27 22	0	7.93	G0	2-2-2	" 2 " 0100 Clouds	fine
04	05W	24 20	0	8.82	G5	1-1-1	" 9 "	fine
05	37W	50 36	00	9.6	G0	1-1-1	" 2 Hi. Vel.	too wide
01	28W	39 15	0	7.62	G8	2-2-2	" 8 Std. Vel. Haze	strong
						8/6	" 5 "	center sl to

*1 P.H. + 8.
Apr. 11.*

367

Date Thurs-Fri Apr 1-2 1954 Observer MR-Hr Julian Day 2434.834

0 11 39 23.7 3550.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
21193	HD 60235	07 28.4	+28 44	I-12 1/2	E103a-D	set .016	+1.2	19:37	20:05	4
21194	HD 84440	09 40.2	+27 32	"	"	"	+1.1	20:26	21:12	"
21195	HD 79373	09 08.6	+25 26	"	"	set .008	+1.1	21:20	21:42	1
21196	HD 81058	09 18.3	+26 20	"	"	"	+1.1	21:48	22:12	2
21197	HD 87680	10 01.5	+29 44	"	"	"	+1.0	22:32	00:02	3
21198	" 95391	10 41.9	27 26	"	"	"	+1.0	00 14	01 14	3
	99591									

Focus Test O.F.B.

Dome Temp

Focus 12.9

Dome Temp

Hour Angle
End

40 54

-0 09

40 53

41 11

42 20

02 55

Dome Temp... 30°F

Transparency Conditions

368

Focus... 12.933

Dome Temp... 29°F

3450.4

Ending Time
L.L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 54	+28 36	0-1	8.60	K2	1-1-1	AG set 2	fine
21 12	+27 14	0-1	8.40	K0	1-1-1	AG Hey Bill! Still confused abt. those stars!	8 good
21 42	+25 12	1	7.99	K0	2-2-2	AG	2 fine
22 12	+26 06	1	8.02	K0	2-2-2	AG	8 fine
23 12	+29 28	1-0	8.21	G5	2-2-	AG Clouds 23:00-00:00	2 good
02 52W	27 08	0	8.37	K5	2-2-2	"	8 good

8/6

0200 cloud + haze.

2 P.H. + 4.

H on M.

	HC	SC	MTW	STW	SW	S	ME
Apr. 2	-14.2 ^S +7.8	+14.0 ^S	-14.2 ^S	+2 ^m	-10 ^S	+13.0 ^S	-2.8 ^S

" 5 70 busok

Dome Temp. +38°F

Transparency Conditions *Good some haze*

372

Focus.....

Dome Temp.....

4838

5424

Ending Time
L.S.T.

20 17

21 18

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 14 W	.43 14	0	8.3	GO p	2-2-2	pet 5 Bidelman star	good fine all night.
00 15 E	.27 39	0	8.92	KO	1-1-1	2 AG 25 clouds at 910	
					8/6	8 " "	
<p>3PH loaded. plates needed</p> <p>A spot missing in the spotter. Plates have not been spotted.</p>							
<p> $\begin{matrix} \text{HC} & \text{SC} & \text{MTC} & \text{STW} & \text{S W} & \text{S H E} \\ \text{Apr. 6} & +10.2^S & +18.1^S & +9.2^S & +1^m & -11^S & +17.1^S & -4.8^S \end{matrix}$ </p>							

Dome Temp. +33° F

Transparency Conditions Clear

374

Focus 12.933

Excellent!

Dome Temp.

9.41

35365

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 19 W	+24 36	0	8.77	G0	2-2-2	S12 AG	low
0 06 E	+25 51	0	8.78	G5	1-1-1	8 "	good
0 58 W	+26 52	0	8.86	G5	1-1-1	" 2 "	fine
1 40 W	+27 08	0	8.96	K0	1-1-1	" 8 "	low
2 20 W	+28 00	0	8.77	G5	1-1-1	" 2 "	fine
03 40 W	26 24	0	9.2	K0	1-1-1	" 8 "	good
03 56 W	26 41	0	8.95	K2	1-1-1	" 2 " Fire down town.	good
02 38 W	17 44	0	8.2	F7	1-1-1	" 8 Std. Vel. Skunk!!!	strong
01 48 W	10 48	0-1	9.5	K0	1-1-1	" 2 Ho Star, 0450 Thin Cloud + Haze during last few minutes.	strong (as usual) strong cont. to violet
					4/3	" 8	

2 P.H. + 8

Hon. M.

April 9

HL	SC	KYC	STC	S	SL	HE
+12.5	+19.9	-19.5	-1.7	+19.4	-13.8	+13.2

Sat Apr 10 - 130 visitors, lecture on Venus, Jupiter & Saturn, cloudy - Ho, BK.

375

Date Sunday April 11-12/54 Observer L-H Julian Day 2434844

021 29 348 3528.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21211	HO. 90443	10 21.4	25 26	I ^s -12½	E-103A-0	5 et 008	+11.8	20 27	21 12	2	011E
21212	" 92824	10 38.0	26 17	"	"	"	11.8	21 15	22 35	2	05.7E
21213	" 95188	10 54.4	25 50	"	"	"	11.7	22 38	23 44	3	14.6E
21214	" 95978	10 59.2	29 44	"	"	"	11.6	23 47	01 07	3	22.0E
21215	+51°1664	11 20.6	50 55	"	"	.016	11.3	01 17	03 15	4	04.5E
	Focus Test 09B.					"					

Dome Temp. 14
Focus 29
Dome Temp.

Hour Angle
End

Dome Temp... +45°F

Transparency Conditions.....

376

Focus..... 12.933

Dome Temp.....

Start delayed, relays on shutter opening gave trouble.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
21 12	0 11 E	25 11	0	8.13	Ko	2-2-2	Set 2 A.G. 25	good																
22 55	0 55 W	26 00	0-1	8.96	G0	2-2-2	" 8 " "	good																
23 44	1 48 W	25 31	0-1	8.75	G5	2-2-2	Set 2 " "	fine																
01 17	0 3 07 W	29 24	0-1	8.84	Ko	2-2-2	" 8 " " 0035 Auroral Arch + few streamers	fine																
01 15	0 4 54 W	50 38	0	10.0	(G0)	1-1-1	" 2 NR H.Vel. 0230 windy.	weak.																
						4/3	" 8 0313 Very Windy Heavy Cloud from N to W. Star Gone.																	
							3 P.H. + 4.																	
							Hom. M.																	
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTU</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>Ap. 12</td> <td>+1.6^S</td> <td>+13.1^S</td> <td>+7.8^S</td> <td>+0.3^m</td> <td>+11.1^S</td> <td>-18.9^S</td> <td>+4.2^S</td> </tr> </table>		MC	SC	MTU	STW	S	SW	ME	Ap. 12	+1.6 ^S	+13.1 ^S	+7.8 ^S	+0.3 ^m	+11.1 ^S	-18.9 ^S	+4.2 ^S	
	MC	SC	MTU	STW	S	SW	ME																	
Ap. 12	+1.6 ^S	+13.1 ^S	+7.8 ^S	+0.3 ^m	+11.1 ^S	-18.9 ^S	+4.2 ^S																	

Dome Temp... 41°F

Transparency Conditions.....

Focus... 12.933

378

Dome Temp... 40°F

Ending Time
R.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 24	+25° 33'	2	8.51	K2	1-1-1	HO-AG-√V ... Set 2	Bad
20 24	+17 36	0	6.8	A0	2-2-2	Cluster Prog. Set 2	good
21 26	+14 39	1	6.9	K0	1-1-1	HO. Set 8	good
22 26	+25-00	1	9.6	F0	1-1-1	ROH.V Set 2	fair
02 26W	+ 2 21	1-0	9.6	F5	1-1-1	" Set 8	fair
02 42W	31 47	0	5.7	G0	1-1-1	HO Star " 2	Both * H.Kenn. good
03 24W	46 55	0	7.5	K0	1-1-1	" " " 8	again
01 00E	20 35	0	6.1	G5	2-2-2	" " " 2	again
00 49E	82 06	0	5.2	G5	2-2-2	" " " 5	again
04 09E	82 38	0	8.2	G5	2-2-2	" " " 2 North Pol. Both * Same mag. visual.	both * Same mag. visual.

8/6

118

0405 Very Windy.
0435 A few clouds.

P.H. # 1 & 3 E103a-0 + 12

" # 4 Hispeed + Almost full box
H.M.

Dome Temp. +48

Focus.....

Dome Temp. +45

Transparency Conditions *Poor - Some Cloud*

380

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
20 25 03	38W +15 28	100	7.6	A2	4-4-4	Set 2. Mag Cl. ⁵ Note - Barbara! ^{lost} 30 scans from King on Apr 24 th Practically Nothing.																									
						Clouded in at 20 00. - Partly clear 20 10																									
						PH # 143 F10320 +12																									
						#4 HI Speed + Almost Full Box																									
						Ht. on M.																									
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>HW</th> <th>STW</th> <th>S</th> <th>SW</th> <th>ME^S</th> </tr> </thead> <tbody> <tr> <td>Apr. 19</td> <td>+18.0^S</td> <td>+21.0^S</td> <td>-28.8^S</td> <td>-.5^m</td> <td>+29.0^S</td> <td>+4.5^S</td> <td>+8.2</td> </tr> <tr> <td>21</td> <td>+17.8</td> <td>+19.0</td> <td>+17^S</td> <td>0^m</td> <td>+17.2^S</td> <td>-9.0^S</td> <td>+4.3^S</td> </tr> </tbody> </table>		MC	SC	HW	STW	S	SW	ME ^S	Apr. 19	+18.0 ^S	+21.0 ^S	-28.8 ^S	-.5 ^m	+29.0 ^S	+4.5 ^S	+8.2	21	+17.8	+19.0	+17 ^S	0 ^m	+17.2 ^S	-9.0 ^S	+4.3 ^S	
	MC	SC	HW	STW	S	SW	ME ^S																								
Apr. 19	+18.0 ^S	+21.0 ^S	-28.8 ^S	-.5 ^m	+29.0 ^S	+4.5 ^S	+8.2																								
21	+17.8	+19.0	+17 ^S	0 ^m	+17.2 ^S	-9.0 ^S	+4.3 ^S																								

Dome Temp.....+53°F

Transparency Conditions.....Hazy, mostly low.

ocus.....12.93.3.....

382

Dome Temp.....

2854
2589

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
21 27 3	08 W	+14 48	0	8.1	A1	1-1-1	Set 2. - <i>Sci. Vel.</i>	<i>good</i>																
23 12 3	30 +W	+50 38	1	10	G0	1-1-1	" 8 " + 23 ⁰⁰ <i>Very foggy, some low clouds.</i>	<i>too weak</i>																
							1 ph. loaded 1039-0. +12																	
							1 ph. #4, hi speed.																	
							HT on Mirrors																	
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>ME</td> </tr> <tr> <td>Apr. 23</td> <td>+18.3</td> <td>+21.6</td> <td>-12.9</td> <td>+5.2</td> <td>+18.6</td> <td>-8.9</td> <td>0</td> </tr> </table>		MC	SC	HTW	STW	S	SW	ME	Apr. 23	+18.3	+21.6	-12.9	+5.2	+18.6	-8.9	0	
	MC	SC	HTW	STW	S	SW	ME																	
Apr. 23	+18.3	+21.6	-12.9	+5.2	+18.6	-8.9	0																	

383

Date *Fri-Sat Apr 23-4, 1954* Observer *Ho - H.V.* Julian Day *2434856*

① 33 13 04.3 25057

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 End
21228	HD 30353	04 41.8	+43 06	I 12	E103a0	<i>slit</i> 0.008	+11.9	19 57	21 09	1	06 31W
21229	HD 74721	08 40.4	+13 38	"	"	<i>slit</i> 0.016	+11.8	21 20	22 36	2	03 46W
21230	HD 99967	11 25.0	+47 12	"	"	"	+11.7	22 40	00 10	2	02 W
21231	HD 148897	16 26.2	+20 42	"	"	"	11.8	00 19	01 05	3	03 35-
21232	HD 166208	18 04.5	+43 27	"	"	"	11.8	01 16	01 56	1	02 15-
21233	o Drac.	18 49.7	59 19	"	"	"	12.0	02 09	02 49	1	02 15-
21234	HD 170474	18 24.5	-02 03	"	"	"	12.0	03 04	04 24	1	00 14E
	<i>Home Test</i>					<i>OTB.</i>					

Dome Temp. 75.0°F

Transparency Conditions Good

Focus 12.933

384

Dome Temp. 39°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
06 06 W	+43 13	00	8.3	Gop	2-2-2	Bidelman's Star - (late start due to *s being rather W)	good	
03 46 W	+13 26	00	8.7?	B9	1-1-1	High Velocity Star (Raimon) - Wanted Strong	fair	
02 31 W	+46 55	0	7.5	K0	1-1-1	Set 8 Ho Binary	Wanted very Strong	very
0 135 E	20 35	00	6.1	G5	1-1-1	Set 2 " "	" "	very
0 221 E	43 28	00	5.9	G5	1-1-1	Set 8 " "	" "	very
0 212 E	59 19	0	5.8	K0	1-1-1	" 2 " "	" (H & K lines)	very
00 14 E	-02 01	00	6.5	G8	1-1-1	" 8 " "	0400 Haze + " "	very
					4/3	" 5	few clouds,	"
						P.H. # 2 E103u-0 + 8?		
						" # 4 Hispeed +?		
						Hon M.		

385

→ Over-develop this plate!
→ And this one.

Date Sun - Mon Apr 25-6, 1954 Observer Ha - H v Julian Day 2434858

0 35 09 54.0 3502.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
21235	HD 41344	05 59.5	+15 28	I 12	High Spd	lit .008	+14.1	20 01	20 55	4
21236	{ Z 1561 B	11 33.5	+45 40	"	E10320	lit .016	+14.0	21 08	23 48	2
21237	{ +16° 3752	19 03.5	+16 43	"	"	1A	+14.1	23 58	01 45	"
	Louis Test				O.P.B.					

Dome Temp. +5
Focus
Dome Temp.

Hour Angle
End
04 50W
02 07W
03 24E

Dome Temp... +5.1 °F

Aurora

Focus.....

Dome Temp.....

Transparency Conditions *poor at the beginning - some cloud*

trouble opening shutters, - rotating dome didn't help, -

finally whacked away at the contacts which need clearing off, think. 386

9.58
9.26
Ending Time
R.S.T. P.S.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 55 7	04 50W	+15 29	00	7.6	A2	4-4-4	Mrg. Cluster - This cluster is getting very far W. - being 00 <i>too weak</i>
02 48 2	02 07W	+45 23	0 to 1	9.7	K5	1-1-1	Set 2 - Ho binary - some cloud at all times <i>fine</i>
01 45	03 24E	+16 48	0-1	6.8	G5	1-1-1	Set 8 - " " - Wanted very strong <i>very strong</i>
					4/3	" 5	0100 Haze + Clouds, 0150 More Cloud.

P.H. # 143 E103a-0 + 6

" # 4 Hi Speed.

	HL	SC	HN	SW	S	SW	HE
Ep. 28	+20.0	+45.2	-5.8	+1.2	+43.0	+18.0	-4.2

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

Transparency Conditions *Clear clouds low in west*

Focus *12.933*

388

Dome Temp. $+72^{\circ}\text{F}$

3418.0
Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 25 W	$-11\ 47$	1	10.0	A2	1-1-1	Set 2. hi Vel. <i>Beaks brighter than 10</i>	<i>fine</i>
0 41 W	$+50\ 38$	2*	10.	G0	1-1-1	" 8 " " <i>*Seeing variable 0-1-2</i>	<i>fine</i>
0 310 E	$-12\ 39$	1+	5.6	G5	1-1-1	" 2 Ho Prag.	<i>strong</i>
0 415 E	$+16\ 37$	0-1	6.7	K1	1-1-1	" 8 " " <i>0400 Very Wet Outside</i> <i>Foggy /K&K</i>	<i>strong</i>
					4/3	" 5	

P.H. # 2 & 3 E 103a-0 +4

" # 4 Hi Speed +?

389

Date Thu-Fri Apr 29-30, 1954 Observer MR - HV Julian Day 2434.862

39 03 15-1 34964

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21242	BD +51° 1664	11 20.6	+50 55	I-12	103a-0	set .016	+13.4	21:52	02 22	2	05 11w
21243	B 6129	23 47.5	+74 59	"	"	"	13.4	02 47.	04 21	"	05 16E
	<i>Focus</i>	<i>Focus</i>		<i>0.1/3</i>							

Dome Temp. +

Focus 12.93

Dome Temp.

Dome Temp. +51°F

Focus 12.933

Dome Temp. 47.0°F

Transparency Conditions good after 10:30 EDST
clouds earlier

390

Faint Aurora after Midnight.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
05 11W	+50 39	0+	10:	G0	1-1-1	RotVel Set 2	good																
05 16E	+75 17	0	7.9	K5	1-1-1 4/3	Ho Prog " 8 " 5 K & K	apt violet																
						P.H. #3 E 103a-O+4																	
						" #4 H. Speed.																	
						Hor. M.																	
						<table border="0"> <tr> <td></td> <td>HC</td> <td>SC</td> <td>MTW</td> <td>Spec</td> <td>S</td> <td>S W</td> <td>HE</td> </tr> <tr> <td>Ap 30</td> <td>+20.8</td> <td>+6.9</td> <td>10.0</td> <td>+1^m</td> <td>+4.4</td> <td>+5 20.2</td> <td>+1^S</td> </tr> </table>		HC	SC	MTW	Spec	S	S W	HE	Ap 30	+20.8	+6.9	10.0	+1 ^m	+4.4	+5 20.2	+1 ^S	
	HC	SC	MTW	Spec	S	S W	HE																
Ap 30	+20.8	+6.9	10.0	+1 ^m	+4.4	+5 20.2	+1 ^S																

391

Date *Sat May 1-2, 1954* Observer *HL - HV* Julian Day *24348.64*

040 59 46.3 3493.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21244	HD 99967	11 25.0	47 12	1-12	E103a0	016	20.2	21 46	23 46	3	W 23°
21245	HD 128296	14 31.0	11 30	1-12	Ansul	008	20.2	23 54	00 18	4	W 05°
21246	HD 127740	14 28.0	14 31	1-12	"	"	20.1	00 24	00 54	4	W 43°
21247	HD 135485	15 10.2	-14 19	1-12	"	"	20.1	01 02	01 32	1	00 00W
21248	" 149881	16 32.4	+14 40	"	"	"	20.1	01 39	02 05	1	00 09E
21249	" 175514	18 50.4	+09 13	"	E103a-0	"	20.1	02 13	03 08	2	01 25E
Focus Test 09B											

Dome Temp.....
 Focus..... 12.9345
 Dome Temp..... 62°F

Transparency Conditions

60 visitors, have lecture on Milky way, cleared later; showed 8 Leo with 74" 4" dewed up.

1.64
 3 3413.1
 Reading Time
 R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
W 2 38	46 57	2	8.0	K0	1,1,1	set 2. Ho Binary wanted v.v. strong.	v. str.																					
W 05 ^m	11 16	1	7.52	A3	4-4-4	Set 2. Supp hist zone 82.	wh																					
W 43 ^m	14 15	1	7.46	F5	4-4-4	" 8 " " " "	l wh																					
00 40 W	-14 30	1	7.9	cB5	4-4-4	" 2 Matthews Hill	too wh																					
00 09 E	+14 34	1	7.2	B0.5 II	4-4-4	" 8 " "	good																					
01 25 E	+09 16	1	8.9	O6	2-4	" 2 " "	too wh																					
					8/6	0230 Foggy, Very Wet both inside & out.	center to me.																					
						0238 Cloud & Haze from N. Very Quickly!																						
						0300 Wind Rising. Sky Solid																						
						<table border="0"> <tr> <td></td> <td>sc</td> <td>MTW</td> <td>STW</td> <td>S</td> <td>SW</td> <td>HE</td> </tr> <tr> <td>May 3</td> <td>+21.3</td> <td>38.9</td> <td>46.2</td> <td>- .4^m</td> <td>56.5</td> <td>9.9</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5.8</td> </tr> </table>		sc	MTW	STW	S	SW	HE	May 3	+21.3	38.9	46.2	- .4 ^m	56.5	9.9							5.8	
	sc	MTW	STW	S	SW	HE																						
May 3	+21.3	38.9	46.2	- .4 ^m	56.5	9.9																						
						5.8																						
						P.H. #1 E 1030 -0 + 2																						
						" " 4 H ₁ Speed.																						
						Horn M.																						
						<table border="0"> <tr> <td></td> <td>S</td> <td>+S</td> <td>-S</td> <td></td> <td>+S</td> <td>-S</td> <td>S</td> </tr> <tr> <td>Mays</td> <td>+21.3</td> <td>50.0</td> <td>8.3</td> <td>0^m</td> <td>47.6</td> <td>28.8</td> <td>-1</td> </tr> </table>		S	+S	-S		+S	-S	S	Mays	+21.3	50.0	8.3	0 ^m	47.6	28.8	-1						
	S	+S	-S		+S	-S	S																					
Mays	+21.3	50.0	8.3	0 ^m	47.6	28.8	-1																					

Dome Temp. +40°F

Transparency Conditions cleared after 20^h.

394

Focus.....

Dome Temp. 37

Ending Time
R.I.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 43W	58 06	0	(9.7)	G0	1-1-1	set 2 Hi-vel. prog. Trouble with heat control time lost identif. field	weak
00 38W	-14 31	0	7.9	c85	2-2-2	8 Matthew's prog. 1	weak
00 49E	+09 16	0	8.9	O6	2-2-2	" 2 " " 0210 Some Cloud. 0238 Move Cloud & Haze 0320 More Cloud.	too weak to credit
					f/6.	" 8	

P.H. # 3 E103a-O Plates Normal
4 H. Speed.

Hon. M.

Sat. 1954 May 8

Broken cirrus cloud. Showed ^{telescope} slides to two "settings"
about 200 microns N, L

Showed a with 4-in. at end of evening.

At midnight: could not get the shutters open - OK

Dome Temp. 44°

Transparency Conditions *rain clds → clearing 22^h*

396

Focus. 12.933

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
+1:45	+32° 20'	0	7.55	A2	4-4-4	Set 2 KAsup/57	good																								
02 04 E	+11 17	0	7.52	A3	4-4-4	Set 8 KAsup/52 <u>0158</u> Clouds,	good																								
<p>1 P.H. E 103a-0 plates Needed.</p> <p>How M.</p> <p>Focus Check 12.933, 12.913, 12.923</p> <p>Focus Best at 12.923</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>NE</th> <th>SC</th> <th>MTU</th> <th>SW</th> <th>S</th> <th>SW</th> <th>NE</th> </tr> </thead> <tbody> <tr> <td>May 10</td> <td>+21.1^s</td> <td>+51.1^s</td> <td>+12.3^s</td> <td>+0.5^m</td> <td>+49.0^s</td> <td>+29^s</td> <td>-2.8^s</td> </tr> <tr> <td>12</td> <td>+21.5^s</td> <td>+51.2^s</td> <td>-17.0^s</td> <td>.0^m</td> <td>+51.2^s</td> <td>+31^s</td> <td>-3.4^s</td> </tr> </tbody> </table>									NE	SC	MTU	SW	S	SW	NE	May 10	+21.1 ^s	+51.1 ^s	+12.3 ^s	+0.5 ^m	+49.0 ^s	+29 ^s	-2.8 ^s	12	+21.5 ^s	+51.2 ^s	-17.0 ^s	.0 ^m	+51.2 ^s	+31 ^s	-3.4 ^s
	NE	SC	MTU	SW	S	SW	NE																								
May 10	+21.1 ^s	+51.1 ^s	+12.3 ^s	+0.5 ^m	+49.0 ^s	+29 ^s	-2.8 ^s																								
12	+21.5 ^s	+51.2 ^s	-17.0 ^s	.0 ^m	+51.2 ^s	+31 ^s	-3.4 ^s																								

399

Date Thurs Fri, May 13-14, 1954 Observer Ho - Hr Julian Day 24348.76

0 52 36 22.5 3471.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21259	+43°21'35"	11 ^h 33 ^m .7	+42°52'	I 12	E103aD	Set .016	+16.9	20 17	23 47	2	23 18W
21260	HD 175514 AG. 12426 Focus Inst.	18 50.6	+09 13	"	"	"	17.0	23 55'	01 55	3	21 49E
21261		21 18.3	+30 15	"	"	.008	17.0	02 07	03 51	1)	02 21E
						0.7.13.					

Dome Temp. 75.9°F

Transparency Conditions Fair

400

Focus

Dome Temp. 50°F

8.76

22.5 347

Ending Time P.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 18W	+42 35	0	9.6	K5	1-1-1	Ho Bin (Temp. working WELL)	fine
01 49E	+09 16	0-1	8.9	06	1-1-1	Matt. Prog. Set. 2	fine
02 21E	+30 30	1-2	8.91	Ko	2-2-2	A.G. 25 11 8 0235 Seeing 0! 8/6 11 5 <i>quadrant!</i>	good.
IPH E 103.0 + 8							
Hour M.							
MC sc MTW STW S SW ME May 14 +21.6 +52.1 ^s -53.4 ^s -0.8 ^m +52.9 +19 ^s +0.2 ^s							

401

Date Fri-Sat, May 14/15, 1954 Observer RR - HV Julian Day 2434.877
 @ 53 34 13.8 3469.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
21262	BD +22° 2442	12 03.9	+22 21	I 12 1/2	E103-a-0	net .016	19.0	20 30	23 50	4
21263	HD 133109	14 57.6	+56 01	"	H1 Speed	net .008	19.8	23 59	00 35	3
21264	HD 134646	15 05.9	+63 30	"	"	"	20.0	00 42	01 08	"
21265	BD +34° 3872 " 227704	20 02.4 20 02.4	+35 03 34 38	"	E103a-0	"	20.0	01 37	03 57	1
	7 over Test			2.7	B.					

Dome Temp... 60°

Transparency Conditions *Fair*

402

Docus.....

Dome Temp... 53°

877
8 3469.7

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 35	2 55W	22 03	0	10.2	(G0)	1-1-1	ret 2 20 Hi-veloc prog. Seeing variable 0-2	<i>fine</i>
01 08	00 48W	55 49	1	7.40	F0	2-4-4	2 KA Sup. 15	<i>strong</i>
03 57	01 12W	63 16	0-2	7.09	F2	4-4-4	" 8 " " "	<i>strong</i>
	00 55E	35 12	2-3	7.4	B0	2-2-2	" 2 Mat. * <u>0300</u> Haze & Cloud.	<i>good</i>
						8/6	" 8	<i>under 6 credit</i>
							1 PH + 6 E _{103a0}	
							H on M.	

404

Ending Time
P.M.T.

405

406