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1

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

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

Focus. 12.910

Dome Temp. $35^{\circ}F$

Transparency Conditions

^{Fair}
Clearing about 00:30

Clouds in S.W. Haze, Bright moon

Some Ground Mist.

6

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																		
0120W	2549	0!	8.22	K ₀	1-1-1	A.G. 25.																			
0025E	11509	0	8.0	F ₂	1-1-1	Ecl. Bin.																			
					4/3																				
						So far I have found 2 Broken Plates in New Batch.																			
						0430 Considerable Mist & Haze																			
						0436 Some Cloud.																			
						2 P.H. + 8.																			
						H. on M.																			
						Found Dome lights turned on.																			
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTC</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>April 10</td> <td>+47.7^s</td> <td>-10.0^s</td> <td>-9.8^s</td> <td>-0.0^m</td> <td>-15^s</td> </tr> <tr> <td>11</td> <td>+52.2^s</td> <td>-7.4^s</td> <td>-9.8^s</td> <td>-0.0^m</td> <td>-31^s</td> </tr> </table>		MC	SC	MTC	STW	SW	April 10	+47.7 ^s	-10.0 ^s	-9.8 ^s	-0.0 ^m	-15 ^s	11	+52.2 ^s	-7.4 ^s	-9.8 ^s	-0.0 ^m	-31 ^s	
	MC	SC	MTC	STW	SW																				
April 10	+47.7 ^s	-10.0 ^s	-9.8 ^s	-0.0 ^m	-15 ^s																				
11	+52.2 ^s	-7.4 ^s	-9.8 ^s	-0.0 ^m	-31 ^s																				
						Apr. " Clouds after sunset, clearing but with heavy haze, still very hazy at 22:00 Ha.																			

Date 15/16 Apr 52 Observer B. 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.H.
18966 F	Focus check.									
18967	E Gem	06 37.8	+25 14	2-25"	E103a-D	.008	+8.4	19 33	19 35	3
								19 35	19 39	
								19 39	19 47	W225
18968	HD 42049	06 03.5	22 13	"	"	"	"	19 52	21 22	4
18969	K Gem	07 38.4	24 38	"	"	"	"	21 28	21 31	1
								21 31	21 36	
								21 36	21 46	W323
18970	X U Maj.	10 57.6	62 17	"	III	"	'	21 58.5	21 59.0	2
								22 00	22 01	
								22 02	22 04	02
18971	E Boo A	14 46.8	19 31					22 20	22 26	3
								22 27	22 37	
								22 38	22 56	315

Dome Temp. 44
Focus 1555
Dome Temp.Hour Angle
End

W225

4433

W323

02

315

Dome Temp. 46.....

Transparency Conditions Good.....

Focus 15.555.....

April 15 Changed to 25" camera { 12" was Focus 12.910, Silt 20.28 }
25" is Focus 15.540, Silt 23.18

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Settings 1:4.9, Focus 15.520 15.560	15.540
	25 12	1	4.2	G8Ib	0	std. Lum. Set #	fine
		0-1			8		5
W 2 25		0-1			0		9
W 4 33	22 13	1-1	7.11	K4	3-3-3	Supergiant	good
			4.5	G8III	0	std. Lum.	3
					8		5
W 3 23	24 31				0		7
	62 13		3.0	K0III	0	std. Lum	3
					8		5
W 0 21					0		7
	19 19		5.9	E8V	0	std. Lum	3
					8		5
E 3 15					0		7

Date ^{Thurs 15th} Apr 52 Observer Be. Wa - Ha 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.
18972	S Boo	15 11.5	33 41	E-25"	E103aD	.008	8.4	2301 - 2304 2308.5	23 03 23 04 23 12.5	2
18973	γ Cor Pav	16 05.3	36 45	"	"	"	8.4	2323 2335	2335 2359	2
18974	HD 151388	16 42.0	43 24	"	"	"	8.4	0005	0005	1
18975	Z Herc	17 53.6	15 08.9	"	"	"	8.4	01 12	02 02	2
18976	16 Cyg (Aur)	19 27.2	+50 18	"	"	"	8.4	03 04	03 44	2
18977	γ Cep	20 43.3	+61 27	"	"	"	8.4	03 56 03 59 04 04	03 58 04 00 04 02	4
18978	δ Cep	23 35.2	+77 04	"	"	"	8.4	04 35	04 38	1
	April 16	MC 5 34.8 ^s	50 5 -8.2 ^s	MC 50 -7.8 ^s	55 W 20 +0.1 ^m				-38 ^s	

Date Temp...
Foc...
Date Temp...

Hour Angle
End
E 10
E 13
E 13


Dome Temp.....

Transparency Conditions

Good

Focus.....

Dome Temp... 38

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	33 31	1-2	4.5	G8 III	0	std lum 3	fine
					8	5	
E 2 16					0	7	
		1-2	5.9	KO III	8	std lum 5	strong
E 2 48	36 38				0	7	
E 2 19	43 19	1-2	7.14	KR	3-3-3	Supergiant. plate not kept.	nothing (dark hole?)
E 1 54	15 08	0-1	8.0	F2	3-3-3	Eclipsing Binary	strong
E 2 36	50 25	1-2	6.9	G5 V	3-3-3	std lum. In case, have  Done with lens of strong	strong
		2	4.6	KO IV	0	std lum - set 3	but stopped, but then all the way } strong
					8	5	
E 3 13	61 40				0	7	
E 5 39	77 22	2	4.4	K1 V	8	set 3. time estimated by counting, Guided standing on top of "A. Abbott Parsons" sign on south pier.	too strong
					4		
						but light doesn't come on!	
						Heat turned on at ~09.15 hrs	

Date April 16-17 1952 Observer L-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.	Hour Angle End
189.79	H.D. 76010	08 48.4	27 18	I-25	E-103a.0	set .008	13.9	20 20	21 50	1	2 L W 2
189 80	" 94966	10 52.7	24 55	"	"	"	13.9	21 59	23 15	2	4 W 2
18981	Z Herc	17 53.6	15 08.9	"	"	"	13.9	23 30	00 50	3	0 E 4
18982	T Cor. Bor.	16 05.3	36 45	"	"	"		01 37	01 41	4	3
				"	"	"	13.9	01 43	01 51		
				"	"	"	13.9	01 53	02 09		
18983	H.D. 151388	16 42.0	43 24	"	"	"	13.9	02 23	03 03	1	2 E W
18984	" 185622	19 34.9	16 21	"	"	"	13.9	03 19	04 03	2	2 E W
18985	η Cep.	20 43.3	6 12.7	"	"	"		04 45	04 16	3	
								04 48	04 50		
								04 53	04 57		
18985F	Focus Test				G.T. B.					4	

Dome Temp. +54°F

Focus 15.620

Dome Temp.

Transparency Conditions Good, occasional light cirrus. 12

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 21 W	27 07	1	8.38	K ₅	3-3-3	A.G. 25	fine
1 42 W	24 37	1	8.15	K ₆	3-3-3	" "	fine
0342 E	15 09	0	8.0	F ₂	3-3-3	Ecl. Bin. Skyride!	sl. weak
	36 35.5	1	5.9	K ₀ III	0	Set 1.	fine
					8	5.	
00 34 E		0-2*			0	9. *Changing constantly	
00 17 E	43 17	0-1*	7.14	K ₂	3-3-3		fine
01 50 E	16 27	0	7.76	K ₅	3-3-3	Skyride. (d.G.) Brighter of pair	weak
		0-1*	4.6	K ₀ IV	0	set. 1. South Preceding.	fine
					8	5. H.P. H. + 8.	
					0	9. H. on M.	
					6/4		
<p>Difficulty in rotating dome due to cable slipping; Perhaps because of wind.</p>							

Date Apr. 17-18, 1952 Observer -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
18986	Z Herc. no Focus	1753.6	1509	I-25	E _{103 A-D}	1008	14.1	0331	0451	1
			O.T.B.							

Date Temp. 5
 Focus 15.
 Date Temp. 5

Dome Temp. 52°F
 Focus 15.632
 Dome Temp. 50.5°F

Transparency Conditions Good
 Clearing between 1 & 2 o'clock
 Still some cloud in S. & E.

Ending Time
 L.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0023W	1507.6	0	8.0	F2	3-3-3 6/4	0410 Getting light already, Seems like I just got here. Birds starting to sing	fine
						April 18 HC ^s -32.2 SC ^s -16.3 HTW ^s -6.7 STW ^s +0.1 SW ^s -48.5	

Friday
Date Apr. 18/19 1952

Observer Ha - 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.
18987	H.D. 118905	13 34.8	+27 12	F-25	E103-A-0	set .008	19.4 ²	20 23	21 03	2
18988	120421	13 44.2	+28 22	"	"	"	19.5	21 07	21 51	3
18989	γ Cep	23 35.2	+77 04	"	"	"	19.5	22 04	22 08	4
								09	11	
								11	21	
18990	γ Cep			"	"	"	19.5	22 22	22 25	1
								26	34	
								35	37	
18991	HD 105898	12 06.2	+25 19	"	"	"	19.4	22 56	00 14	2
18992	" 122693	13 58.3	25 03	"	"	"	19.4	00 20	01 40	3
18993	" 185622	19 34.9	16 21	"	"	"	19.3	03 02	04 04	7
	Focus Test				O.T.B.					
18993F	Focus				O.T.B.					

Dome Temp. 62
 Focus. 15.687
 Dome Temp.

Transparency Conditions Poor
 Light clouds and haze, improving about 20 hours,
 haze remaining near horizon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 3 04	26 55	1	7.30	K0	3-3-3	AG 25 (Temp in spectrograph rising steadily since dome opened)	Weak
E 2 24	28 05	1	7.63	G5	3-3-3	AG 25	Weak
		0	4.4	K1 IV	0	Std. Linn	Taken through varying amounts of cloud and haze. Exposures all very weak in dark.
					0		
					4	Comp weak on purpose	
		0	4.4	K1 IV	0		
					4		
E 11 30	+77 20				0		
1 36 W	+25 01	0-1	7.94	G5	3-3-3	AG 25 haze, light cloud.	good
1 10 W	24 47	1	7.92	G0	3-3-3	" " haze clouds.	good
2 02 E	18 27	0-1	7.76	K5	3-3-3	Super giant more haze star gone at +0.4	weak
					G/4		
					3		
						* R.H.s loaded (12 Pl. in D.) (plates needed)	
Apr. 19	changed to I-12					I-25 was focus 15.685 Tilt 23.15	
	set 1 focus		12.900			Tilt 20.28.	
	b		12.920				
	g.		12.910			← OK	

17 Sat. Apr. 19.
Wm, Hr.

≈ 260 Visitors. Too Cloudy to open.
Clearing Somewhat about 2200.

At Midnight Mostly Clear
Forecast Not too promising
Considerable Wind.

Date Sun Apr 20/21

Observer Ra - Hr

Julian Day 11

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18994	HD 55578	07 08.4	28 38	12"	E103aD	1.008	17.9	19 49	21 39	2
18995	78194	09 01.8	28 23	"	"	"	15.8	21 44	23 24	3
18996	90443	10 21.4	25 26	"	"	"	17.0	23 31	00 29	4
18997	Z Herc.	1753.6	1508.9	"	"	"	17.4	00 43	01 33	1
18998	HD 142898	1552.0	2720	"	"	"	17.2	01 44	03 27	2
18999	Z Herc.	1753.6	1508.9	"	"	"	17.3	03 33	04 23	3
	Hours	Part			O.T.B.					

Dome Temp. 58

Focus 12910

Dome Temp. +48°F

Transparency Conditions Good, Scattered High level 18

Thermistor control at hearing of evening lined
off not on. Caught during second plate
slight switch he marked OFF or ON
(it is! 8/28)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W406	28 34	0	8.96	K0	1-1-1	AG25	
W357	28 11	0	8.91	K0	1-1-1	" RTF Clump not worked.	
0343W	25 11	0	8.13	K0	1-1-1	" Some rays to S.	
0244E	15 08	0	8.0	F2	1-1-1	Ecl. Bin	
0109W	27 14	0	8.93	K0	1-1-1	A.G. 2.5	
0007W	15 08	0	8.0	F2	1-1-1	Ecl. Bin	

0400 Commencing to get light.
Moon just risen.
0414 A skunk is in the vicinity. Phew!!

1 P.H + 8.

H. on - M.

	HC	SC	MTW	STW	SET
April 21	-29.0 ^s	-5.8 ^s	-10.0 ^s	0 ^m	-42 ^s
" 23	-56.5 ^s	-5.7 ^s	-11.0 ^s	0 ^m	+10 ^s

Date *Wed Apr. 23/24 1952* Observer *Ha - 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.E.	Hour angle End	Do
19000	H.D. 94834	10 51.8	24 41	F-12	E103-a-0	<i>slit</i> 0.008	79.4°C	21 45	22 37	4	33	+
19001	111285	12 43.1	24 39	"	"	"	9.4	22 42	23 28	1	33	+
19002	117555	13 26.0	24 44	"	"	"	9.4	23 32	01 12	2	34	+
19003	134680	15 06.1	27 48	"	"	"	9.4	01 18	03 18	3	34	+
19004	152264	16 47.3	29 45	"	"	"	9.3	03 22	04 22	4	34	+
	<i>Focus Test</i>											

O T B

Dome Temp. +43
Focus 12.91
Dome Temp. 77

Dome Temp. +43°F
 Focus 12.910
 Dome Temp. +37°F

Transparency Conditions
 Cloudy at sunset, clearing about 21:00.
 residual clouds low in south.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 57	W 1 33	+24 25	0	8.16	K0	1-1-1	AG 25 22 ^h 21 ^m 1 st max melior just south of Saturn (Lyrid) Therm. not working during first exposure bulb not screwed in tightly.	fine
23 27	W 0 33	+24 22	0	7.92	G5	1-1-1	AG 25 In Cass	⊙ atrop
0 12	1 34W	+24 27	0	8.92	G5	1-1-1	AG 25 given m _p = 8.3 but note says say m _p = 8.9	(fuzzier than) fine
0 16	2 00 W	27 35	0	8.93	K0	1-1-1	" 25 power off from 02.19 - 02.33	fine
0 22	1 24W	29 39	0	8.07	G5	1-1-1	" 25 4 RH.s loaded plates needed.	strong

April 25

MC	SC	MTW	STW	2W
-54.3 ^s	-138 ^s	-10.8 ^s	+2 ^m	+15 ^s

Date Fr Apr 25/26 Observer Ba - 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.	Hour Angle End	D.
19005	HD 63138	07 42.3	29 01	12"	E-102a0	.008	16.1	20 11	20 59	1	3.1	20
19006	63410	07 43.2 ^{40.2}	26 31	"	"	"	16.1	20 52	21 32	2	1.4	2
19007	74699	08 38.4 ^{40.2}	27 57 28 50	"	"	"	16.1	21 36	22 28	2	2.6	2
19008	77313	08 56.7	26 16	"	"	"	16.1	22 24	23 19	2	4.1	2
19009	86131	09 51.5	29 02	"	"	"	16.1	23 23	00 23	1	0.0	2
19010	106398	12 09.3	27 03	"	"	"	16.0	00 36	01 26	2	03.4	2
19011	147980	16 19.9	28 37	"	"	"	16.0	01 35	02 30	3	00.7	2
19012	156093	17 10.5	26 11	"	"	"	16.0	02 38	03 13	4	0.0	2
19013	156966	17 15.4	27 23	"	"	"	16.0	03 21	04 21	1	0.0	3
	Fuses		Fuse		O.T.B.							

When attempting to close up, I found that some would not turn -
 Could hear relays clicking and checked fuses.

After a time I was able to move some into position, but
 when attempting to move it again, found that it
 would not move and no longer heard relay clicking.

ome Temp.....6.6.....
 ocus.....12.910.....
 ome Temp.....47°F.....

Transparency Conditions.....Good.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
301W	28 53	0	7.78	G5	1-1-1	AG	fine
342W	26 24	0	7.7	G5	1-1-1	"	fine
336W	27 46	0	7.79	R0	1-H	"	fine
411W	26 04	<0	8.00	K0	1-1-1	" Some long	good
0427W	28 48	<0	7.98	K0	1-1-1	" <u>0020</u> Almost impossible to keep star on slit because of wind.	fine
0313W	26 46	<0	7.88	G5	1-1-1	"	fine
0007W	28 27.5	0	8.28	K0	1-1-1	" guiding poor	fine
0000	26 07	0	7.70	K0	1-1-1	"	fine
0102W	27 18	0	8.48	M0	1-1-1	"	fine

4/3

3 P.H. + 4

H. on M.

Suggest checking electrical
 system of Polaris turning apparatus

23 About 250 visitors, showed Saturn with 74"

Date Sat. Apr. 26/27 1952 Observer Ha-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.	Hour Angle End
19014	HD 108466	12 22.6	+28 40	I-12	E-103-a-0	Ret 1008	+16.5	22 17	23 01	2	11 03 W
19015	114093	13 03.2	25 21	"	"	"	16.5	23 04	23 24	3	11 02 W
19016	113771	13 00.9	27 07	"	"	"	16.4	23 27	00 17	4	11 16 W
19017	129412	14 37.3	24 57	"	"	"	16.3	00 24	01 14	1	0 37 W
19018	142929	15 52.2	25 28	"	"	"	16.4	01 19	02 41	2	0 50 W
19019	AG. 7973	16 59.0	25 00	"	"	"	16.3	02 45	04 09	3	1 11 W
	Focus Test					O.T.B.					

Dome Temp. 53

Focus 12.9

Dome Temp. 57

Transparency Conditions *Good*

Dome Temp... *53°F*

Focus... *12.910*

Dome Temp... *75°F*

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 01	W 0 39 +28 24	0	7.93	K0	1-1-1	AG 25	<i>fine</i>
23 24	N 0 21 25 05	0	7.12	K0	1-1-1	AG 25	<i>strong</i>
20 17	1 16 W 26 50	0	7.93	K0	1-1-1	AG 25	<i>strong</i>
21 14	0 37 W 24 44	0	7.80	G5	1-1-1	" "	<i>strong</i>
22 14	0 50 W 25 18	0-1	8.79	G5	1-1-1	" "	<i>strong</i>
24 03	1 11 W 24 55	0-1	8.85	K5	1-1-1	" "	<i>fine</i>

4/3

I.P.H. loaded plates needed.

Date Sun Apr 27-28, 1952 Observer HD (Gu) - L Julian Day

Dome Temp.

Focus 2.90

Dome Temp.

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	D
19020	HD 63433	07 43.8	27 37	I-12	E10320	008	+20.1	20 37	21 13	4	1352	2
19021	HD 63410	07 43.7	26 31	"	"	"	+20.1	21 15	22 07	1	1426	2
19022	HD 83935	09 36.6	26 04	"	"	"	+20.1	22 12	23 06	2	1334	2
19023	HD 89557	10 15.0	29 27	"	"	"	+20.1	23 10	23 50	3	1338	2
19024	HD 111285	12 43.1	24 39	"	"	"	+20.0	23 54	00 18	4	138W	2
	Focus Test					O.T.B.						

Dome Temp.....
 Focus...12.905
 Dome Temp.....
 Transparency Conditions *Poor*

Wanted 1/2 hour for clouds to pass.

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W3 32	27 30	0	7.70	G ₀	1-1-1	AG	<i>fine</i>
W4 26	26 23	0	7.71	G ₅	1-1-1	AG clouds 21-24-2138	<i>fine</i>
W3 34	25 50	1	7.81	K ₀	1-1-1	AG	<i>fine</i>
W3 38	29 11	1	7.95	K ₀	1-1-1	AG	<i>fine</i>
138W	24 21	1	7.92	G ₅	1-2	AG increasing clouds, star gone at 00.18 sky remaining thick. 4 P.H.s loaded +4	<i>fine</i>

April 28

MC	SC	MTW	STW	SW
110.7 ^s	-34.8	-12.2 ^s	+2 ^m	-3 ^s

Transparency Conditions

Cloudy at first, improving later.

Dome Temp.....
 Focus... 12.905
 Dome Temp... 54°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 34	W 3 50	+28 47	0	7.98	K ₀	1-1-1	AG	fine
0030	0422W	+29 11	0	7.95	K ₀	1-1-1	"	fine
0036	0201W	2505.5	0	7.12	K ₀	1-1-1	"	fine
3 11	0344W	2503	0	9.2*	G ₅	1-1-1	" * Suggested on Programme 0210 Brilliant Aurora	fine
	0044W	2459	0	8.64	K ₀	1-1-1	" 0223 Some Haze Aurora quite Prominent Near Zenith	fine
						4/3		
							H. on M.	
							3 P. H. Loaded.	
							Plates Needed.	

29

Date Tues. Apr 29/30, 1952 Observer Ha - 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.E.
19030	HD 63712	7 45.2	29 26	I-12	E-103-a0	Set .008	21.2	19 54	20 44	2
19031	HD 63433	7 43.8	27 37	"	"	"	21.2	20 45	21 30	3
19032	91148	10 26.3	24 36	"	"	"	21.2	21 37	22 37	4
19033	112753	12 53.9	28 00	"	"	"	21.1	22 41	23 41	1
19034	122796	13 58.9	27 58	"	"	"	21.1	23 44	00 16	2
19035	145458	1606.0	25 45	"	"	"	21.1	00 21	00 57	3
19036	149241	1628.4	27 55	"	"	"	21.1	01 05*	02 31	4
	"	"	"	"	"	"	21.0	02 31	03 57	4
	<i>Focus</i>				<i>Test</i>					
					O.T.B.					

Dome Temp. 67

Focus 12.9

Dome Temp.

Hour Angle
and

Dome Temp. 67°F

Focus 12.910

Dome Temp.

Transparency Conditions *Clear, rather windy.*

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
W 3 09	29 16	0	8.05	G5	1-1-1	AG 25		strong										
W 3 57	27 29	0	7.70	G0	1-1-1	"	21:00 Intense halo about moon, 1/2° in diam. also strong aureole in N and NW	fine										
W 2 22	24 20	0	8.14	G5	1-1-1	"		fine										
W 0 59	27 42	0-1	8.26	G5	1-1-1	"		strong										
0020W	27 43	0	7.69	G5	1-1-1	"		strong										
0055E	25 36.5	0	7.88	K0	1-1-1	"		strong										
5075W	27.47	0	8.79	K5	1-1-	"	* Slide not drawn	fine										
0141W	"	0	"	"	1-													
					4/3	4 P+1 +4												
						Home M.												
						April 30	<table border="0"> <tr> <td>MC S</td> <td>SE</td> <td>M W</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>-107.5</td> <td>-15.8^S</td> <td>-19.3^S</td> <td>+1.7^m</td> <td>-5.3</td> </tr> </table>	MC S	SE	M W	STW	SW	-107.5	-15.8 ^S	-19.3 ^S	+1.7 ^m	-5.3	
MC S	SE	M W	STW	SW														
-107.5	-15.8 ^S	-19.3 ^S	+1.7 ^m	-5.3														

Date Wed, Apr 30/May 1, 1952 Observer C. 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.E.
19037	HD 63712	07 45.2	+29 26	I-12	E103a-0	^{5x} .008	+16.2	20 00	20 40	1
19038	HD 67402	08 02.7	+27 47	"	"	"	+16.0	20 43	21 15	2
19039	HD 83935	09 36.6	+26 04	"	"	"	+15.9	21 18	21 50	4
19040	HD 86778	09 55.6	+29 16	"	"	"	+15.9	21 54	22 26	3
19041	HD 100179	11 26.6	+24 52	"	"	"	+15.9	22 30	23 10	1
19042	HD 111285	12 43.1	+24 39	"	"	"	+15.9	23 15	23 47	2
19043 _a	HD 89055	10 11.3	+26 22	"	"	"	+15.8	23 53	00 13	3
19044	" 159948	17 32.3	25 41	"	"	"	+15.8	00 52	01 42	4
19045	" 170619	18 25.3	29 30	"	"	"	+15.8	01 48	02 30	1
19046	" 171232	18 28.5	25 25	"	"	"	+15.8	02 33	03 13	2
19047	" 182617	19 20.4	28 28	"	"	"	+15.9	03 19	04 13	3
	Focus Test					0.T.B.				

Dome Temp. +58°F
 Focus..... 12.910
 Dome Temp. +45°F

Transparency Conditions Good at first, some haze later

Ending Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 W03 09	+29 17	0+	8.05	G5	1-1-1	AG	fine
02 W03 26	+27 37	0	7.72	K0	1-1-1	" haze	fine
04 W02 28	+25 49	0	7.81	K0	1-1-1	* seeing poor *(through glass)	fine
05 W02 45	+29 00	0+	7.88	K2	1-1-1	"	good
W -	+29 34	0-1	8.15	K2	1-1-1	"	fine
W01 19	+29 21	0-1	7.92	G5	1-1-1	" plate numbered 19043	fine
4 47W	+26 06	0	8.02	G0	1-1-1	"	fine
1 35E	+25 38	0	8.18	K0	1-1-1	"	fine
1 39E	29 30	0	7.90	G5	1-1-1	"	fine
0 59E	25 27	0	7.87	G5	1-1-1	"	fine
0 51E	28 27	0	8.22	K0	1-1-1	"	fine
					4/3	4 P.H.s loaded +.4	focus OK

Date Thurs May 1/a, 1952. Observer Wm - Gu 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.
19 048	HD 83 935	09 36.6	+26 04	T-2's	E103a-D	^{SET} 008	+10.2	20 08	20 40	4
19 049	HD 88 532	10 07.5	+28 47	"	"	"	+10.1	20 45	23 15	1
19 050	HD 116 329	13 17.9	+26 22	"	"	"	+10.0	23 20	04 00	2
19 051	HD 12 1184	13 48.8	+24 40	"	"	"	+10.0	01 02	02 42	3
19 052	HD 150567	16 36.8	+29 06	"	"	"	+9.9	02 45	03 55	4
19 053	HD 165989	18 03.5	+26 29	"	"	"	+9.9	03 59	04 29	1
	} FOCUS TEST O.T.B. 6/4									

Dome Temp. ...
Focus ... 12.9
Dome Temp. ...

Hour Angle
End ...
D ...

Dome Temp. 47°F

Focus 12:910

Dome Temp. +38°F

Transparency Conditions *Thin cloud beginning*

34

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^w 22	+25° 49'	0	7.81	K0	1-1-1	AG 25	good
3 ^w 27	+28° 30'	0	8.92	K0	1-1-1	AG 25 <i>Fairly continuous thin Occasional cloud</i>	1 weak
W02 01	+26 06	0	8.91	G5	1-1-1	AG 25	1 weak
W03 13	+24 23	0	8.96	K0	1-1-1	" "	1 weak
W01 39	+28 58	0	8.75	K2	1-1-1	" "	fine
W00 46	+26 23	0	7.73	K0	1-1-1	" "	fine
<i>2 Ph's loaded, new box required.</i>							
<i>May 2</i>							
			<i>MC</i>	<i>SC</i>	<i>MTW</i>	<i>STW</i>	<i>SW</i>
			<i>-10.8^s</i>	<i>-6.8^s</i>	<i>-19.8^s</i>	<i>.0^m</i>	<i>-15^s</i>

Date Fri May 21 - 52 Observer Ro - 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.E.
19054	Mr 86778	9 55.6	29 16	E-12"	E 103ad	.008	+10.7	2005	2105	2
19055	87680	10 01.5	29 44	"	"	"	+10.7	2108	2210	2
19056	89055	10 11.3	26 22	"	Gran H-S.	"	+10.7	2222	2305	4
19057	89361	10 13.9	24 52	"	"	"	10.5	2302	2400	1
19058	149403	1627.3	2504	"	"	"	10.3	0103	0233	2
19059	152748	1650.1	2745	"	"	"	10.4	0242	0412	3
	<i>Focus</i>		<i>Test</i>		O.T.B.					

Dome Temp. 50
 Focus 12.910
 Dome Temp. 40

Transparency Conditions Good

36

Born Young Adults group, 16 visitors
 showed Simon with 5" Longworth.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0132W	29 02	0	7.89	K2	1-1-1	AG ship to my left ^{connection}	l strong
0239W	29 29	0	8.21	G5	1-1-1	"	fine
0310W	26 07	0	8.02	G0	1-1-1	" Some haze	fine
0500W	24 37	0-1	8.47	K2	1-1-1	"	unk
0028W	2 458	0	8.77	G0	1-1-1	" 0229 Guiding Poor.	unk
0146W	2 739	0	8.74	K0	1-1	" 0352 Guiding <u>Very</u> Poor.	good (guiding) focus to mi centre to mi
					4/3		

2 P.H. + 4 + 24 [All Cranes
 H. on M.

Date Sat May 3-4, 1952 Observer Hd. Sm - 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.
19060	HD 93215	10 40.7	26 18	I-12	Hispacod	.008	+12.1	22 21	23 51	4
19061	HD 110883	12 40.2	27 57	"	"	"	12.1	23 56	01 26	7
19062	150889	16 38.8	26 02	"	"	"	12.0	01 33	03 10	2
19063	160508	17 35.2	26 49	"	"	"	12.0	03 17	04 17	3
	Focus Test				O.T.B.					

Home Temp... +49
 Focus... 12.910
 Home Temp... 46

Transparency Conditions... *fair* 38

About 300 visitors. Showed Q, h with 74", Q, J with 5",
 h with 4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 51	4 W3 38	26 01	0-1	8.28	G5	1-1-1	AG 25 clouds at first, again at 23.20	fine
0 00	1 03 14 W	27 39	0	8.47	K0	1-1-1	AG 25	fine
0 10	2 01 00 W	25 57	0	8.57	K0	1-1-1	"	good
0 17	3 01 10 W	26 46	0	8.23	G0	1-1-1	" ²¹²⁰ Windy, Image unsteady	weak
						4/3	2 P.H. + 2 H Hon M.	

39

Date Sun. May 4-5, 1952 Observer Cu - 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 End	D
19064	HD 94966	10 52.7	+24 55	I-12	Niskhod	.008	+13.0	22 58	23 58	4	02 26 +2	
19064-F 19065	{ HD 104076 Focus Test	11 54.1	+25 12	"	"	"	+12.9	00 02		1		-2
					07.5							

Home Temp. +50°F

ocus. 12.910

Home Temp.

Transparency Conditions *Cloudy, clearing. Scattered*
cloud, some haze! -40

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
23 58 4	+24 38	0-1	8.15	Ko	1-1-1	A.G. cirro-cum from N.W. 23:30	fine																								
	+24 49		8.68	Go	1-	" Star gone at 0015	two were																								
					4/3	Quite solid <u>from c. red to violet</u>																									
						4 Ph's loaded, 14 on Me.																									
						22 plates in box.																									
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>HTW</th> <th>STW</th> <th>SW</th> </tr> </thead> <tbody> <tr> <td>May 5</td> <td>-102.5^s</td> <td>-3.8^s</td> <td>-26.0^s</td> <td>-.2^m</td> <td>-25^s</td> </tr> <tr> <td>7</td> <td>-100.5^s</td> <td>-7.4^s</td> <td>-29.5^s</td> <td>-.2^m</td> <td>-27^s</td> </tr> <tr> <td>8</td> <td>-1^s</td> <td>-</td> <td>+4^s</td> <td>-.1^m</td> <td>-</td> </tr> </tbody> </table>		MC	SC	HTW	STW	SW	May 5	-102.5 ^s	-3.8 ^s	-26.0 ^s	-.2 ^m	-25 ^s	7	-100.5 ^s	-7.4 ^s	-29.5 ^s	-.2 ^m	-27 ^s	8	-1 ^s	-	+4 ^s	-.1 ^m	-	
	MC	SC	HTW	STW	SW																										
May 5	-102.5 ^s	-3.8 ^s	-26.0 ^s	-.2 ^m	-25 ^s																										
7	-100.5 ^s	-7.4 ^s	-29.5 ^s	-.2 ^m	-27 ^s																										
8	-1 ^s	-	+4 ^s	-.1 ^m	-																										

Date Thurs, May 8/9, 1952 Observer Gu - 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.
19065	HD 87804	10 02.4	+27 16	I-12	Hershey	^{Set} .008	+14.5	20 10	21 28	1
19066	HD 92108	10 33.0	+26 26	"	"	"	+14.6	21 31	22 49	2
19067	HD 94336	10 48.2	+26 44	"	"	"	+14.6	22 51	23 41	3
19068	HD 104392	11 56.2	+24 47	"	"	"	+14.4	23 44	01 30	4
19069	" 150799	16 38.2	25 38	"	"	"	14.6	01 39	04 39	1
	<i>Focus Test</i>					O.T.B.				

Dome Temp... +56°F
 Focus... 12.930
 Dome Temp... 44°F

Transparency Conditions... *Good*


42

Try focus 12.930

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 29	N 2 12	+27 02	0-1	8.82	Ko	1-1-1	AG	weak
2 0	W 3 03	+26 10	0-1	8.89	Qs	1-1-1	"	weak
2 413	W 3 40	+26 27	0	8.12	Mo	1-1-1	"	weak
1 22	042 W	+24 28	0	8.92	Ko	1-1-1	"	weak
	022 SW	25 30.5	0	9.4	Go	1-1-1	"	fine weak

002° some cloud in SW.

0156 Hazy



4/3

focus sl to mi.

1 P.H. + 12. Hon M.

*Vous avez besoin d'un
plus grand objectif.*

	Mc	Sc	MTW	STW	SW
May 9	+1.3 ^s	-9.0 ^s	+4.8 ^s	-1 ^m	-32 ^s
12	+5.0 ^s	-19.1 ^s	-2.5 ^s	-1.5 ^m	-38 ^s
14	+6.0 ^s	-10.1 ^s	-7.5 ^s	-2 ^m	-42 ^s

Sat May 10 ~ 60 minutes Ha - Gu Cr

Transparency Conditions *good*

Dome Temp. *+53°F*
 Focus *12.940*
 Dome Temp. *39°F*

True focus 12.940

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W1 53	24 37	0-1	8.47	K ₂	1-1-1	AG Developed	<i>fine</i>
W2 58	29 37	0-1	8.98	G ₀	1-1-1	" <i>Setting 5</i>	<i>good</i>
W3 07	25 57	0-1	8.33	K ₀	1-1-1	" " <i>9</i>	<i>l.wk</i>
W3 33	26 01	0+	8.28	G ₅	1-1-1	" " <i>5</i>	<i>fine</i>
W4 01	27 09	0+	8.37	K ₅	1-1-1	" " <i>9</i>	<i>good</i>
0327W	26 23	0-1	8.79	G ₅	1-1-1	"	<i>good</i>
0325W	26 08	0	8.84	G ₅	1-1-1	"	<i>l.wk</i>
0016W	26 53	0	8.88	G ₅	1-1-1	"	<i>wk</i>
0134W	25 00	0	8.78	K ₂	1-1-1	"	<i>l.wk</i>
					<i>4/3</i>		
						MC SC H _W S _W SW <i>00 July 10 +8.0^s -12.5^s -10.5^s -4^m -45^s</i> 3 P.H. + 12 Cramers 1 Box 103a05 H. on M.	<i>Focus OK</i>

Date May 16/17 1952 Observer Ba - 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.
19077	HD 107725	12 17.6	27 09	12"	Hi Speed	008	16.8	0022 25	0005	3
19078	HD 123877	14 05.1	26 18	"	"	"	16.5	0009	0139	4
19079	" 156563	17 13.2	25 08	"	"	"	16.7	0146	0316	1
	<i>Focus</i>		<i>Test</i>		O.T.B				0215	

Same Temp. 50
 Focus 17 14.0
 Same Temp. 4
 Star Angle
 End
 308W
 2.53W
 2.52W
 2.5

Transparency Conditions *Clouds haze clearing about 2715*

Dome Temp. *50*
 Focus *12.940*
 Dome Temp. *46*

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																														
308W	26 52	0	8.93	K2	1-1-1	AB 25 Some haze.	Lowish																														
0253W	26 04	0	8.92	H5	1-1-1	"	Lowish																														
0022W	25 05	0	8.91	G5	1-2 4/3	" <u>0200</u> Clouds + Haze coming from N.W. + W. <u>0210</u> Star gone sky quite solid.	Too weak																														
2 P.H. + 10 Cramer's 1 Box 10320. (9 plates)																																					
Sat approx 150 under, chiefly 2 large groups from large cloud field Box on wall at 10320 out.																																					
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>May 19</td> <td>+12.5^s</td> <td>-13.8^s</td> <td>+17.8^s</td> <td>-.4^m</td> <td>+20^s</td> </tr> <tr> <td>21</td> <td>+13.8^s</td> <td>-11.6^s</td> <td>+11.8^s</td> <td>-.4^m</td> <td>+4^s</td> </tr> <tr> <td>23</td> <td>+15.8</td> <td>-13.1</td> <td>-12.0^s</td> <td>+.2^m</td> <td>-2^s</td> </tr> <tr> <td>26</td> <td>+19.0^s</td> <td>+11.5^s</td> <td>-28.0^s</td> <td>-.3^m</td> <td>+8^s</td> </tr> </table>								MC	SC	MTW	STW	SW	May 19	+12.5 ^s	-13.8 ^s	+17.8 ^s	-.4 ^m	+20 ^s	21	+13.8 ^s	-11.6 ^s	+11.8 ^s	-.4 ^m	+4 ^s	23	+15.8	-13.1	-12.0 ^s	+.2 ^m	-2 ^s	26	+19.0 ^s	+11.5 ^s	-28.0 ^s	-.3 ^m	+8 ^s	
	MC	SC	MTW	STW	SW																																
May 19	+12.5 ^s	-13.8 ^s	+17.8 ^s	-.4 ^m	+20 ^s																																
21	+13.8 ^s	-11.6 ^s	+11.8 ^s	-.4 ^m	+4 ^s																																
23	+15.8	-13.1	-12.0 ^s	+.2 ^m	-2 ^s																																
26	+19.0 ^s	+11.5 ^s	-28.0 ^s	-.3 ^m	+8 ^s																																

Dome Temp. +64°F

Focus 12 940

Dome Temp. +56°F

Transparency Conditions *fine, excellent*
very bright aurora, horiz & zenith, 21:30

50

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 1	W 2 28	+26 44	0-1	8.98	K ₀	1-1-1	AG 25 set 2	fine
2 1	W 2 46	+26 26	0-1	8.82	K ₀	1-1-1	" " " 8	fine
3 4	W 3 25	+25 28	0-1	8.75	G ₅	1-1-1	" " " 2	good
3 5 4	W 4 04	+24 58	0	8.68	G ₀	1-1-1	" " " 8	too weak n.g.
5 2 2	W 0 19	+39 16	1-2	7.62	G ₈	1-1-1	Std. Vel.	fine
5 16 3	W 0 31	+28 29	1-2	8.50	G ₅	1-1-1	AG 25	fine
5 1	W 1 04	+25 07	2	8.70	K ₂	1-1-1	" "	6.0
2	W 0 55	+27 36	2	8.00	M ₀	1-1-1	" "	good
1	W 0 33	+29 31	1-2	7.90	G ₅	1-1-1	" "	fine
03 16 3	W 0 54	+29 32	2+	7.69	K ₀	1-1-1	" " pt. guid.	good
03 51 2	W 1 03	+28 09	1-2	8.00	K ₀	1-1-1	" " thin layer of aurora with this ex.	good
							2/4	
							2 Ph's loaded (103 a-o)	
							both Crown & 103 a-o in cones.	

Date Tue/Wed, May 27/28, 1952 Observer Gu - 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.H.	Star Angle End	D
19091	HD 96234	11 00.7	+24 45	I-12	103a-0	.008	+22.0	20 52		4		
19091	HD 102404	11 42.1	+24 59	I-12	103a-0	.008	+21.8	21 30	22 20	4	12 39	+2
19092	HD 102494	11 42.7	+27 53	"	"	"	+21.0	22 23	23 01	1	13 20	+2
19093	HD 104589	11 57.6	+25 54	"	"	"	+20.3	23 04	23 50	1	12 53	+1
19094	HD 112001	12 48.2	+27 20	"	Hi-speed	"	+19.5	23 59	00 38	2	13 52	+27
19095	" 144579	16 01.5	39 24	"	"	"	18.5	* 01 52	0 22	3	13 34	29
19096	{ 169245	18 18.7	26 10	"	"	"	18.4	02 30	03 56	4	14 02	29
	{ Focus Test				O. T. B.							

Transparency Conditions *some haze, poor at first*

Dome Temp. *+63°F*
 Focus *12.240*
 Dome Temp. *55°F*

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality															
	<i>+24</i>	<i>0</i>	<i>8.91</i>	<i>Q5</i>	<i>1-</i>	<i>AG 25 wrong *, check on S lens, couldn't check field with watch setting.</i>	<i>low wk</i>															
<i>W2 39</i>	<i>+24 43</i>	<i>0</i>	<i>8.70</i>	<i>K0</i>	<i>1-1-1</i>	<i>AG 25</i>	<i>low wk</i>															
<i>W3 20</i>	<i>+27 37</i>	<i>0-1</i>	<i>8.60</i>	<i>Q5</i>	<i>1-1-1</i>	<i>" "</i>	<i>good</i>															
<i>W3 53</i>	<i>+25 36</i>	<i>0-1</i>	<i>8.84</i>	<i>K0</i>	<i>1-1-1</i>	<i>" "</i>	<i>good</i>															
<i>0352W</i>	<i>+27 03</i>	<i>0</i>	<i>7.91</i>	<i>Q0</i>	<i>1-1-1</i>	<i>" "</i>	<i>good</i>															
<i>0223W</i>	<i>39 16</i>	<i>0</i>	<i>7.62</i>	<i>G8</i>	<i>1-1-1</i>	<i>Std. Vel. * Delay of trouble with dec clamp.</i>	<i>fine</i>															
<i>0170W</i>	<i>26 12</i>	<i>0</i>	<i>8.91</i>	<i>G0</i>	<i>1-1-1</i>	<i>A.G.</i>	<i>good</i>															
					<i>4/3</i>	<i>0210 Haze in N, NW, W, S. some mist. lightning in N.W.</i>																
						<i>0330 sky seems to be covered with a very thin layer of cloud.</i>																
						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td><i>20</i></td> <td><i>34.8^s</i></td> <td><i>-9.5^s</i></td> <td><i>-34.0^s</i></td> <td><i>-3^s</i></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><i>+2^s</i></td> </tr> </table>	MC	SC	MTW	STW	SW	<i>20</i>	<i>34.8^s</i>	<i>-9.5^s</i>	<i>-34.0^s</i>	<i>-3^s</i>					<i>+2^s</i>	
MC	SC	MTW	STW	SW																		
<i>20</i>	<i>34.8^s</i>	<i>-9.5^s</i>	<i>-34.0^s</i>	<i>-3^s</i>																		
				<i>+2^s</i>																		
						<i>May 26 P.H. # 142 loaded with Cramers. Cramers needed</i>																
						<i>P.H. # 3 loaded E 10320 + 3 E 10320 in P.</i>																
						<i>H. on M.</i>																

Date Thurs/Fri May 29/30 Observer Ba - Ga - 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.E.	Star Angle End
19097 } 19098 } 19099 } 19100 }	WD 96234 98562 104076 120802	1100.7 1115.3 1154.1 1346.6	24 45 24 09 25 12 2737	2.12" " " "	E103a0 " " "	.008 " " "	+16.4 +16.6 +17.4 17.0	2042 2144 2254 0022	2142 2250 0015 0120	3 3 4 4	0250W 0344W 0431W 0345N
19101	160678	1736.2	2918	"	HiSpeed	"	17.0	*0138	0258	1	032W
19102 }	180502 Zorro Test	1911.7	2858	"	"	"	17.3	0305	0355	2	0355
					O. J. B.						

Dome Temp... 56.....

Focus..... 12.940.....

Dome Temp... 45.....

Transparency Conditions Good scattered cloud 54

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0250W	24 28	0	8.91	G5	1-1-15	AGZ5	dark
0344W	23 53	0-1	8.93	G5	1-1-19	"	good
0431W	23 55	0	8.68	G0	1-1-3	0010 some cloud.	very good
0345W	27 22	0!	8.82	G5	1-1-8	0106 Becoming very Hazy in W. More Cloud Approaching.	med
0132W	29 15	0!!	8.72	K0	1-1-1	* Delay 1/2 Dec. Motion Blown Fuse.	fine
0055W	29 02	0!	8.33	G0	1-1-1	"	fine
					4/3		

P.H. # 3+4 loaded E103a0

E103a0: Needed - There are no more - 774

HiSpeeds: Needed-

H. on M.

Dome Temp. +63 F

Transparency Conditions

Poor.

56

Focus.....

About 200 minutes showed with 74" C + G with 4" thin broken clouds.

Dome Temp.....

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 132	26 57	0	7.30	Ko	1-1-1	AG. Haze.	Weak
			8.00	Ko	1-1-1	AG. clouds at 2300. Looks to open.	
						#s 3 + 4 loaded 10300.	
						Proc of Hufield in dome.	

57

Date Sun June 12Observer Pa - HJulian Day 2434165

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	
19104	HD 99957	11 24.8	25 36	I-12"	E103a-U	.008	18.0	2043	2133	3	
19105	100993	11 32.3	25 58	"	"	"	18.1	2134	2224	3	
19106	101856	11 38.3	28 07	"	"	"	18.1	2226	2330	4	
19107	103614	11 50.8	26 03	"	"	"	-	2333	0033	4	
19108	155878	1709.2	2804	"	H.S. speed	"	17.9	0045	0221	1	
19109	176230	1854.2	2801	"	"	"	18.0	0236	0350	2	
		<i>Flare Point</i>					<i>O. J. B.</i>				

Dome Temp. 60

Transparency Conditions Good

58

Focus 12.940

Dome Temp. 5.1

Horizontal telescope
PC inconspicuous

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	set	REMARKS	Quality
2133	228 W	25 36	0	8.93	K2	1-1-1	3 AG 25	This star is not as faint as 8.93	good
224	312 W	25 41	<0	8.49	G0	1-1-1	8		good
2300	413 W	27 50	0	8.72	K0	1-1-1	3		fine
008	* —	25 46	0	8.75	G0	1-1-	8	* As far west as possible i.e. about 5° 18' W - Mo	l weak
22	0134 W	27 59	0!	8.82	G5	1-1-1	AG 25		fine
2300	0115 W	28 04.5	0!!	8.68	K0	1-1-1	" 4/3		good

H. on M.

4 P.H. loaded hi. speed.

1 Box + 18 Hi Speed in D.

	MC	S	SC	S	MTW	S	STW	SW
June 2	+24.3		-3.3		7-12.0		-.2 ^m	-8.5

Date 1952, June 2/3, Mon/Tues Observer C. Ho - H_r Julian Day 2,434,166

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	D
19110	HD 104590	11 57.6	+25 00	I-12"	Hizbeed	.008	20.4	20 ^h 57 ^m	21 55	1	2 23	+2
19111	" 104784	11 58.9	25 30	"	"	"	20.2	21 58	22 48	2	3 14	+2
19112	" 109482	12 29.9	29 38	"	"	"	20.0	22 50	23 50	3	3 45	+2
19113	" 116232	13 17.2	26 31	"	"	"	20.0	23 54	00 44	4	3 53	+2
19114	158332	17 23.6	26 53	"	"	"	20.0	00 51	01 51	1	5 14	+26
19115	167782	18 11.7	25 46	"	"	"	20.2	01 57	03 37	2	10 24	+25
	<i>From List</i>				<i>O.L.B.</i>							

Dome Temp. +63°F

Focus 12.940

Dome Temp.

Transparency Conditions *Quite good*
Bank of haze SW & W.

60

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 23	+24° 44	0-1	8.73	K0	1-1-1	AG. 25	l. weak
3 14	+25 14	0-1	8.18	G0	1-1-1	" "	good
3 45	+29 20	0-2	8.63	G5	1-1-1	" " <i>poor drive</i>	good
3 53 W	+26 16	0	8.00	K0	1-1-1	" " } <i>0015 Considerable cloud + haze coming from W.</i>	good
4 51 W	26 50	0	8.51	G5	1-1-1	" " } <i>Guiding poor.</i>	fine
5 01 52 W	25 47	0	8.91	K0	1-1-1	" " } <i>0215 Cloud & Haze mostly gone.</i>	l. weak guiding
					4/3	<i>0250 Guiding <u>Very</u> Poor.</i>	

3 P. H. + 1 Box + 13
 June # ^{MC} +25.8^S ^{SC} +9.1^S ^{MTW} -15.2^S ^{STW} 0^m ^{SW} -6^S

Strongren & Olsen stopped 1:37 p.m. EST.

Dome Temp. 57°F

Focus 12.940

Dome Temp.

Transparency Conditions Poor

62

Cloudy at sunset, — clear ^{at 22^h} except for scattered cloud

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
W02 00	24° 57'	2.0	8.05	K0	1-1-1	Seeing varied from 0.0 to 1. Scattered cloud											
W03 24	24 30	0-1	8.68	G5	1-1-1	Scattered cloud — Closing in - 24 20											
	25 00																
<p>June 6</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>HC</td> <td>SC</td> <td>HTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>+26.5^S</td> <td>+13.5^S</td> <td>+12.0^S</td> <td>+0.3^m</td> <td>-12^S</td> </tr> </table>								HC	SC	HTW	STW	SW	+26.5 ^S	+13.5 ^S	+12.0 ^S	+0.3 ^m	-12 ^S
HC	SC	HTW	STW	SW													
+26.5 ^S	+13.5 ^S	+12.0 ^S	+0.3 ^m	-12 ^S													

Date Fri June 6-7, 1952 Observer Hol San - Ksu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Star Angle End	D
19118	H.D. 105964	12 06.6	26 17	I-12	Highspeed	008	25.5	21 11	22 51	1	3 26 W	2
19119	HD 105898	12 06.2	25 19	"	"	"	+25.1	23 06	00 06	2	4 43	2
19120	HD 144579	16 01.5	39 24	"	"	"	+25.1	00 18	00 58	3	1 38	3
19121	HD 167275	18 09.4	26 12	"	"	"	+25.0	01 04	01 54	4	0 27	2
19122	(HD 170738	18 25.9	25 42	"	"	"	+25.0	01 57	03 17	1	1 34	2
	FOCUS TEST O.T. B.											

Dome Temp. 70
Focus 12.94
Dome Temp. +6

Dome Temp. 74 F
 Focus 13.940
 Dome Temp. +62°F

Transparency Conditions Poor - cirrus cloud. 64
 03.00 haze & cum. from N.E. out by 02.50

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 51	3 26 W	26 00	0	8.93	G0	1-1-1	A.G. Windy - thin clouds at times	l weak
00 06	4 43	25 00	0	7.94	G5	1-1-1	A.G.	l weak
02 29	1 38	+39 16	0	7.62	G8	1-1-1	Std. vel. marked 1920	fine
04 53	0 27	+26 14	0	7.93	K0	1-1-1	A.G.	fine
07 17	1 34	+25 44	0	8.79	G5	1-1-1	"	good

2/4

4 Ph's loaded, 2 boxes Cranes

June 9 Hc Sc MTW STW SW
 -28.5^s +12.6^s -22.0^s -.1^m -11^s

Dome Temp. 69°F
 Focus 12.940
 Dome Temp. +58°F

Transparency Conditions *good*

66

Sat, June 7 '52

Hr & N^m showed abt 200 visitors: SUMa with 79" & with horiz. tel.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 07	1	W 2 47	+28 59	0-1	8.84	G0	1-1-1	AG 25	good
3 3	2	W 3 53	25 43	0	8.54	K2	1-1-1	" 23:00 haze in west, light clouds in south + SE	good
6 3	3	W 1 08	39 16	0-1	7.62	G8	1-1-1	Std. Vel. light cirrus 00:12	fine
1 4	4	W 1 42	+26 35	0	8.63	G5	1-1-1	AG 25	weak
2 5	1	W 1 18	+29 00	0	8.37	K2	1-1-1	" " seeing very poor due to haze	L. weak
3 5	2	W 1 36	+30 10	0-1	8.15	G5	1-1-1	" "	fine
								2/4 weak prob. OK 2 PH's loaded, crammers in box.	
								June 11	
								MC 34.85 +77.2	
								SC 26.3	
								MYC -27.2	
								STW -3 m	
								SW -11 S	

Date Wednesday June 14/12 Observer Ha - 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.
19129	106947 HD 107132	12 ^h 14.0 ^m	25° 24'	I-12	K ₂ Speed	008	16.4	21 ^h 03 ^m	22 ^h 28 ^m	3
19130	HD 110788	12 39.4	25 32	"	"	"	16.3	22 33	23 55	4
19131	HD 153224	16 53.0	29 45	"	"	"	16.3	00 01	01 11	1
19132	106895	18 07.6	30 06	"	"	"	16.3	01 17	02 32	2
19133	174414	18.45.3	27 36	"	"	"	16.3	02 37	03 20*	3
		<i>Focus test</i>								

O. G. B.

Dome Temp. 6
Focus 12.940
Dome Temp.Hour Angle
End

103 15 12

104 21 17

17 1/2

112 44 3

134 2

Dome Temp. 63°

Focus 12.940

Dome Temp. 53°

Transparency Conditions Fair, - some light cloud. 68

Strömberg og Olsen Konked Out.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W0315	+25°19'	00-1	8.79	G5	1-1-1	AG "Windy"	good
W0420	+2814	0	8.95	K ₀	1-1-1	AG "light cloud gone"	good
0117W	2941	0	8.70	G ₀	1-1-1	AG "	fine
0124W	3005.5	0!	8.69	K ₂	1-1-1	" "	good
0134W	2739	0!	8.12	K ₀	1-1-1	" "	good
					4/3.	0245 small bits of light cloud	good
						0302 Considerable light cloud overcast	guiding for focus OK
						0317 Star Gone	
						Very little chance of clearing before dawn closing up.	
						* would have been extended if any chance of clearing.	
						1 P.H. + 1 Box	
						H on M.	

1952

Date Thursday June 12-13 Observer Ad - 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.	Hour Angle End
19134	HD107468	12 16.1	26 17	I-12	Huspeed	set 008	21.2	21 02	22 22	4	1310
19135	HD107611	12 17.0	27 51	I-12	"	"	21.2	22 28	23 48	1	1438
19136	HD118658	13 33.2	27 18	"	"	"	21.3	23 54 SID. TIME	18 22	2	2462
19137	" 144579	16 01.5	39 24	"	"	"	21.2	18 30 SID. TIME	18 58	3	2582
19138	AG 9449	18 55.5	29 28	"	"	"	"	19 04	20 04	4	3106
19139	H.D. 188258	19 49.2	27 50	"	"	"	21.4	20 13	20 43	1	3621
	Focus lost				O.T.B.						

Dome Temp. 65F.

Transparency Conditions *fair*

70

Focus 12.940

Dome Temp. 57

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
W3 10	26 00	0	8.72	K ₀	1-1-1	AG	good												
W4 36	27 35	0	8.64	G ₀	1-1-1	AG	good												
0446W	27 02.5	0	8.61	G ₅	1-1-1	AG 00 00 mean time = 1708 sid time	weak												
0255W	39 16	0	7.62	G ₈	1-1-1	Std. Vel.	fine												
0106W	29 31	0	8.50	G ₀	1-1-1	A.G.	fine												
0052W	27 58	0	7.79	K ₂	1-1-1	"	fine												
					4/3														
						1 P.H. + 18.													
						H on M.													
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>June 13</td> <td>+31.5</td> <td>+31.6</td> <td>-</td> <td>-</td> <td>-13.5</td> </tr> </table>		MC	SC	MTW	STW	SW	June 13	+31.5	+31.6	-	-	-13.5	
	MC	SC	MTW	STW	SW														
June 13	+31.5	+31.6	-	-	-13.5														

Date Sat. June 14/15, 1952 Observer Baker - Gu Julian Day 2,434,178

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
19140	HD 144579	16 01.5	+39 24	I-12"	Heshead	.008	+24.1	23 15	23 45	2	056 W 3
19141	145404	16 05.7	26 16	"	"	"	+24.0	23 48	01 20	3	27 2
19142	AG 8066	17 08.3	+29 39	"	"	"	+24.0	01 23	02 43	4	38 W 3
19143	HD 185269	19 33.2	+28 17	"	"	"	+24.0	02 46	03 26	7	06 2
	FOCUS TEST -- O.I.B.										

Dome Temp. +72°F

Focus 12.940

Dome Temp. +69°F

Transparency Conditions Hazy & Cloud

About 100 visitors. Showed Saturn & Mars with 5"; M13 with 79

ending Time E.S.T.

345

100

200

300

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
056 W	39 15	<0	7.62	G8	1-1-1	Std. vel.	
2 27 W	26 08	0-1	8.64	G5	1-1-1	AG 25	
2 48 W	29 36	0-1	8.70	K0	1-1-1	AE, 25	
1 06 W	28 24	0-1	7.93	G0	1-1-1	" "	
						3 Phi loaded, plates in Coamer box.	
						<div style="display: flex; justify-content: space-around;"> MC SC SW </div> <div style="display: flex; justify-content: space-around;"> June 16 +33.0^s +33.8^s -16.8^s </div>	

Set 5 min mark in dec

73

Date Mon June 16/17 1952 Observer S-G.U.-L 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.H.	Hour Angle End
19144.	N.G.C 6205	16 39.9	+36 33	Newt	E-103a.0			21 20	21 22	1	31 55E
19145	" 6229	16 45.6	+47 37	"	"			21 27	21 41	2	31 43E
19146	Beades	15 13.5	+00 04	"	"			21 46	21 58	1	00 06W
19147	NGC 5904	15 16.0	+02 16	"	"			22 06	22 08	2	0 15W
19148	" 6366	17 25.1	-05 62	"	"			22 57	23 13	1	0 56E
19149	" 6254	16 54.5	-04 02	"	"			23 16	23 18	2	0 12E
19150	6218	16 44.6	-01 52	"	"			23 23	23 25	1	0 37E
19151	6426	17 42.4	+03 12	"	"			23 29	23 49	2	0 37E
19152	6535	18 01.3	-00 18	"	"			23 57	00 13	1	0 35E
19153	6838	19 51.3	+18 38	"	"			00 21	00 25	2	2 05E
19154	6093	16 14.1	-22 52	"	"			00 33	00 39	1	0 51W
19155	6235	16 50.4	-22 06	"	"			00 45	01 09	2	0 43W
19156	6712	18 50.3	-08 47	"	"			01 13	01 29	1	2 05W
19157	6838	19 51.3	+18 38	"	"			01 35	01 39	2	0 52E
19158	6779	19 14.6	+30 05	"	"			01 43	01 49	1	0 07E
19159	6712	18 50.3	-08 47	"	"			01 59	02 19	2	0 5W

Dome Temp

Focus

Dome Temp

Dome Temp.....

Transparency Conditions.....

74

Focus.....

Dome Temp.....

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 22	1	01 55E						Seeing fair	
21 4	2	01 43E							
21 53	1	00 06W						Focus on a Serpenti's no change	
22 08	2	0 15W						delay for light ch	
22 13	1	0 56E							
22 18	2	0 12E							
23 20	1	0 57E							
23 27	2	0 37E						Focus of Serpenti's no change	
23 3	3	0 35E							
23 25	2	02 05E							
00 35	1	01 51W							
01 02	2	01 43W							
01 2	1	00 05W						Seeing poor	
01 39	2	00 52E						focus on δ Sagittae slight change	
01 47	1	00 07E							
02 12	2	01 54W							

75

Date Mon/Tues, June 16/17, 1952 Observer S-Gu-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.
19160	N.G.C. 6838	19 51.3	+18 38	NEWT.	E-103a.0			02 22	02 26	1
19161	" 6626	18 21.5	-24 54	"	"			02 32	02 40	2
19162	" 6838	19 51.3	+18 38	"	"			02 44	02 50	1

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp.....

[Faint handwritten notes]

Ending Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 06 00 02W							
2 00 01 45W							
2 50 00 23W						<p>Squaring all plates</p> <p>Practically every plate taken thru haze or clouds</p> <p>a wretched night. Lightning flashes at end</p>	
						<p>June 17</p> <p>HL SS HYW STW</p> <p> -10.5^s +.3^m</p>	

77

Date Thurs June 17-18 1952 Observer S. L. Az 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.H.	Hour Angle End
19163	NG.C. 6205	16 39.9	36 33	Newt.	E-103A0			2120	2123	1	549E
19164	" 5904	15 16.0	+02 16	"	"			2127	2129	2	549E
19165	" 5634	14 27.0	-5 45					2133	2147	1	549W
19166	Beards'	15 13.5	+06 04	"	"			2153	2217	2	531W
19167	" 5897	15 14.6	-20 49					2222	2232	1	547W
19168	" 6366	17 25.1	-5 02					2236	2246	2	50E
19169	" 6426	17 42.4	+3 12					2249	2303	1	50E
19170	" 6535	18 01.3	-00 18					2309	2323	2	509E
19171	I.C. 1276	18 07.5	-07 15					2335	2359		50E
19172	NG.C. 6838	19 51.3	+18 38					0009	0042	2	50E
19173	" 6712	18 50.3	-8 47					0017	0031	1	53E
19174	" 6093	16 14.1	-22 52					0036	0042		51W
19175	" 6235	16 50.4	-22 06					0045	0107		
19176	I.C. 1276	18 07.5	-07 15					0112	0136	2	50W
19177	NG.C. 6838	19 51.3	+18 38					0142	0145		50W
19178	" 6712	18 50.3	-8 47					0149 ^m 59 ^s	0201 ^m 59 ^s		51W

Dome Temp. 70°F

Transparency Conditions.....

78

Focus.....

Dome Temp.....

Guiding Time R.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2123	1	0149E						Focused on γ here.	
2129	2	0019E							
2147	1	0049W						Seeing only fair.	
2217	2	0034W							
2232	1	0047W						Focused on β librae	
2250	3	0110E							
2308	1	0110E							
2323	2	0109E							
2337	1	0040E						ran out of guiding motion, reset.	
0017	2	0210E						Focused on γ Aquilae	
0031	1	0050E							
0044	2	0257W							
0100	1	0146W							
0130	2	0058W							
0145	1	0037W						Focused on γ Sagittae	
0200	2	041W						This is reference plate, see next entry	

Date June 17-18/52 Observer S. - L. 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.E.	Error Angle End
19178	K.A. 110	1839.5	+003					0204 ^m 54 ^s	0216 ^m 54 ^s	2	157W
19179	N.G.C. 6544	1804.3	-2501					0220	0234	1	59W
19180	" 6626	1821.5	-2454					0237	0243	2	51W
19181	" 6656	1833.3	-2358					0245 ³⁰	0248 ³⁰	1	45W
19182	" 6712	1850.3	-0847					0251	0301	2	40W
19183	" 6838	1951.3	+1838					0305	0308	1	46W
19184	" 7089	2130.9	-0103					0312 ³⁰	0313 ⁰⁵	2	1W

Dome Temp. 64

Focus

Dome Temp.

Error Angle
End

Dome Temp. 64°F

Transparency Conditions

80

Focus

Dome Temp.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 55	2	0107W						Sequence on plate with 6712	
02 37	1	0159W							
02 43	2	0151W							
02 47	1	0145W							
03 01	2	0140W							
03 02	2	0146W							
03 13	2	0111W							
<p>not a cloud all night, but seeing poor Squidring all plates</p>									
<p>June 18 μ δ σ τ π ρ</p> <p> +33.3 +42.2^s +27.8^s +.3^m -16^s</p>									

Dome Temp. 71°F

Transparency Conditions.....

Focus.....

Dome Temp.....

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2132	0149E						Forecasted in 3. Haze.	
2130	0014E						Hazy, few slight clouds	
2149	0053W						mainly in N.W.	
2218	0036W						2210 Clouds in N.W. to zenith.	
2257	0114W						Clouded out Forecast of Op. here on all these	
							Forecast - Clear with a few cloudy intervals. The cloudy interval lasted all night pretty well, and turned in to rain.	

Date Thurs June 19-20/51² Observer S. Gu - 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.	Hour Angle End	D
19190	N.G.C. 6205	1639.9	+3633	NEWT.	E _{103a0} ^{19"}			2122	2124	1	144E	
19191	" 5907	1516.0	+0216	"	"			2129	2131	2	0011E	
19192	" 5634	1427.0	-0545	"	"			2134	2148	1	0056W	
19193	Baade	1513.5	+0004	"	Newt. E _{103a0}			2152	2232	2	0051W	
19194	N.G.C. 5897	1514.6	-2049	"	"			2236	2246	1	007W	
19195	" 6366	1725.1	-0502	"	"			2257	2307	2	0042E	
19196	" 6535	1801.3	+0018	"	"			2311	2325	1	000E	
19197	IC. 1276	1807.5	-0715	"	"			2334	0004	2	0049E	
19198	N.G.C. 6712	1850.3	-0847	"	"			0008	0020	1	005SE	
19199	" 6838	1951.3	+1838	"	E _{11"}			0032	0035	2	00E	
19200	" 6093	1614.1	-2252	"	E _{103a0} ^{19"}			0047	0053	1	004W	
19201	" 6235	1650.4	-2206	"	Newt. E _{103a0}			0057	0119	2	0056W	
19202	IC. 1276	1807.5	-0715	"	"			0125 ^m 12 ^s	0149 ^m 12 ^s	1	007W	
"	K.A. 110	1839.5	+0003	"	"			0152 ^m 38 ^s	0216 ^m 38 ^s	1	002W	
19203	N.G.C. 6838	1951.3	+1838	"	"			0220 ^m 40 ^s	0223 ^m 40 ^s	2	002W	
19204	IC. 1276	1807.5	-0715	"	"			0229	0257	1	0025W	

Dome Temp... 62°F

Transparency Conditions

Focus.....

Dome Temp.....

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2124	10144E						Focused on <i>J. Heric</i>	
2131	20011E							
2138	10056W							
2212	20054W							
2216	10107W						Focused on <i>P. C. line</i>	
2307	20042E							
2325	10100E							
0004	20029E							
0020	10055E							
0025	20240E						Focused on <i>J. Aquilae</i>	
0033	10214W							
0114	20205W							
0115	10117W							
0210	10112W							
0213	20008W							
0217	0225W							

Date June 19-20/52 Observer S-Gu.-Hv 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.H.
19205	N.G.C. 6712	1850.3	-0847	Newt.	E ^{Newt.} _{103a0}			0302	0310	2
19206	" 6838	1951.3	+1838	"	"			0313 ^m 30 ^s	0315 ^m 30 ^s	1
19207	" 7039	2130.9	-0103	"	E ^{19"} _{103a0}			0318 ^m 50 ^s	0319 ^m 35 ^s	2

Dome Temp. 5"
Focus
Dome Temp.

Hour Angle
End

56W

00W

33E

Dome Temp. 54°F

Transparency Conditions

Focus

Dome Temp.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 10	2	0156W							
3 15 ³⁰		0100W						New Observing Pencil Needed.	
3 19 ³⁵	2	0033E							
<p>not a cloud all night - Ran long exposures on difficult objects. Seeing only fair. Squaring all plates</p>									
<p>HC SC HTR STW SW S June 20 +34.2^S +45.7^S +20.2^S +.3^m -16.8^S</p>									
<p>SagO watch reset June 21.</p>									

Date Sun. June 22/23 1952 Observer L - Cui Julian Day 2,434,186

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19208	H.D. 108675	12 24.0	29 26	I-12 $\frac{1}{2}$	E-103a-0	ser 008	+20.8	21 05	21 55	1
19209	" 112299	12 50.6	26 16	"	"	"	+20.8	21 59	22 55	2
19210	" 119665	13 39.5	25 48	"	"	"	+20.9	22 59	23 55	3
19211	" 122052	13 54.3	25 12	"	"	"	+20.8	23 59	00 31	4
19212	" 158823	17 26.3	29 36	"	"	"	+20.8	00 40	01 40	1
19213	" 144579	16 01.5	39 24	"	"	"	+20.8	01 44	02 20	2
	" 175578	18 50.9	29 54	"	"	"				
	FOCUS TEST		O.T.B.							

Dome Temp. 64°F
 Focus 12.940
 Dome Temp.....

Transparency Conditions

Fair

Sat June 21-22 50 visitors - cloudy.
 Hd. Mr. showed telescope.

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 15W	29 11	0	8.62	Go	1-1-1	A.G. 25	fair
3 48W	26 02	0	8.78	Go	1-1-1	" "	fair
4 00W	25 33	0	8.71	Go	1-1-1	" "	good
4 21W	24 57	0	7.95	G5	1-1-1	" "	low
1 58W	29 34	0	8.82	Ko	1-1-1	" "	good
3 59W	39 16	0	7.62	G8	1-1-1	std cel. becoming very hazy AG 25 8.35 G5 clouded out at 02 14 from E. 2 Ph's loaded, 4 in box. H on M. June 23 HC SC MFW SNW SW +35.5 ^s +36.6 ^s +37.5 ^s 0 ^m -17 ^s	fine

Date Tues June 24-25, 1952 Observer Hd - 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.B.
19214	HD108805	12 25.0	26 41	I-12	E103aD	008	+27.9	21 48	22 48	3
19215	HD112753	12 53.9	28 00	"	"	"	27.5	22 53	23 43	4
19216	HD127386	14 26.0	25 33	"	"	4	27.4	23 47	00 57	1
19217	" 154183	16 58.8	25 48	"	"	"	27.4	01 05	02 05	2
	Focus lost						0.T.B.			

Dome Temp. +
Focus 12.9
Dome Temp. +6

Hour Angle
End
4 21
4 42
4 25W
3 00W

Dome Temp. +72 F.

Focus 12.940

Dome Temp. +68°F

Transparency Conditions Fair

90

Clouds earlier.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 48	3	W 4 21	26 26	0	8.79	G5	1-1-1	AG	
23 43	4	W 4 42	27 46	0	8.26	G5	1-1-1	AG Sky deteriorating in W.	
00 57	1	4 25 W	25 19	0-1	8.27	G5	1-1-1	A.C. 25 more haze, clouds.	
02 05	2	3 00 W	25 44	0	8.79	G0	1-1-1	" " sky filling in	
							4/3		
								2 P.H.o loaded fresh box needed.	
								MC SC MTC STE SW June 25 +36.5 ^s +57.1 ^s -14.5 ^s 7.5 ^m -16 ^s	

Date Wed. June 25/26 Observer Ha-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.E.
19218	HD 109012	12 26.5	27 38	T-12 $\frac{1}{2}$	E ¹⁰³⁻²⁰	<i>Set</i> .008	29.40	21 07	21 59	3
19219	" 109823	12 32.7	29 11	"	"	"	29.5	22 06	23 12	4
19220	AG 7973	16 59.0	25 00	"	"	"	29.4	23 24	00 40	1
19221	HD 144579	16 01.5	39 24	"	"	"	29.2	00 48	01 12	2
(19222)	" 174104	18 43.8	28 37	"	"	"	29.2	01 35	02 55 02 21	3
	<i>Booms</i>	<i>Leat.</i>			<i>O.L.B.</i>					

Dome Temp. 78
Focus 12.94
Dome Temp. 77

Star Angle
End
3 29
4 36
32W
308W
34W

Dome Temp. 83°F
 Focus 12-940
 Dome Temp. 77°F

Transparency Conditions Fair, some clouds and haze 9.2

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 59	3	✓ 3 29	27 21	1-2	8.63	K0	1-1-1	* Got electric shock from light switch in N pier after unloading first plate being good, haze bad, star magnit. questionable, somewhat exposure?	
3 12	4	✓ 4 36	28 53	1	8.93	G5	1-1-1	" lost about 10 min. with trouble with dec guiding motion	Haze bad in west
0 40	1	0137W	24 56	1	8.85	K5	1-1-1	" (Via. bin. barely resolved in 74")	
1 12	2	0138W	39 17	0	7.62	G-8	1-1-1	Std. Vel.	
02 21	3	0134W	28 35	0!	8.72	G5	1-2 4/3	A.G-25 0130 Very Hazy. Cloud in S. 0200 Patches of Cloud coming over continually. 0217 star gone. Sky filling in - Lightning. Closing Up.	
I.P.H. + 8 Pl. in frig.									

Date Thurs, June 26/27-52 Observer 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.E.	Hour Angle End
19223	HD.144579	1601.5	3924	I-12 $\frac{1}{2}$	E10320	.008	26.8	0021	0051	4	250W-3
19224	" 175036	1848.4	2624	"	"	"	26.4	0100	0210	1	23W 2
19225	" 189796	1956.7	2933	"	"	"	26.3	0222	0316	2	230W 2
	<i>From</i>		<i>Just</i>		<i>B. J. B.</i>						

Dome Temp. 28

Focus 12

Dome Temp.

Hour Angle
End

Start

with

Dome Temp. 70°F

Focus 12.940

Dome Temp.

Transparency Conditions Good.

94

Clouds & haze in early evening (Sun)

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
051	H	0250W	+3917	0!!	7.62	G-8	1-1	Std. Vel.	fine
210		0123W	2629	0!!	8.77	G-0	1-1	A.G. 25.	good
0316	H	0120W	2942	0!!	8.40	G-5	1-1-1 4/3	" "	break
								0201 Considerable Cloud Coming from N.	
								0215 Patches of Cloud; N, NW, NE, SW, W, S, Zenith	
								0240 Star Gone.	
								0250 " Come back. Red glow due east. Looks like a fire.	

2 PH +4 is frig.

	MC	SC	HTW	STW	SW
June 27	+36.2 ^S	+61.9 ^S	+9.2 ^S	+2 ^m	-11 ^S
June 30	+38 ^S	+72 ^S	+22.5 ^S	+3 ^m	+14 ^S

Saturday June 28 - About 200 visitors, showed M13
 with 74" through intermittent cloud, also moon with 10"
 (see over)

Date Monday June 30/July 1/52 Observer H. O. BK - Gu 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.
19226	HD 109627	12 ^h 31.0 ^m	+25° 58'	I-12"	E103a0	0.008	24.5	21 ^h 12 ^m	22 ^h 20 ^m	3
19227	HD 156774	17 ^h 14.4 ^m	+27° 03'	I-12"	E103a0	0.008	24.0	22 34	23 20	4
19228	HD 169819	18 ^h 21.4 ^m	+25° 56'	"	"	"	23.8	23 27	00 27	1
19229	HD 144579	16 01.5	+39 24	"	"	"	23.6	00 33	01 03	2
19230	{ AG 923 ⁷	18 43.3	+28 18 +28 19	"	"	"	23.3	01 08	02 36	3
	{ FOCUS TEST		O.T.B.							

Dome Temp. 7
Focus 12.94
Dome Temp. 6

Hour Angle
End
10^m W 2
22^m W
23 W 2
19 W 3
11 W

Dome Temp. 70°
 Focus. 12.940
 Dome Temp. $62^{\circ}F$

Transparency Conditions *fair*

96

Sat. June 28, about 280 visitors, showed M13.
 with 74", ☉ with 10".

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 20 ^m	3	4 ^h 00 ^m W	25° 43'	0	8.54	K ₂	1-1-1	AG 25	
3 20	4	0 ^h 22 ^m W	27° 00'	0-1	8.72	K ₀	1-1-1		
0 27	1	0 ^h 23 ^m W	26° 00'	0	8.72	K ₀	1-1-1	Wrong star (fainter one) on slit for 10 seconds at most.	
1 3	2	3 19 W	39 18	0-1	7.62	G ₈	1-1-1	Std. vel.	
2 36	3	2 11 W	28 21	0	8.61	G₀ ^K	1-1-1	AG 25 light cloud from mount	
								02 04	
								4 Phi's loaded, 9 plates in box.	

Date Just July 1-2 1952 Observer L. Sawyer, Sa. Pt. Pt. 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
19231	HD 105964	12 06.6	+26 17	I-12 $\frac{1}{2}$	E 103a0	.008	24.9	21. 24	22 24	1	4 38W 20
19232	AG 6249	12. 43.4	+25 41	"	E 103a0	.008	25.0	22 28	23. 30	2	5 07W 22
19233	HD 122767	13 58.7	+25 05	"	"	"	24.9	23. 40	00 30	3	4 53W 24
19234	HD 144579	16 01.5	+39 24	"	"	"	24.8	00. 40	01 04	4	3 24W 39
19235	HD 176695	18 56.4	+28 33	"	"	"	24.7	01. 10	02 00	1	1 25W 30
19236	HD 171830	18 31.8	+27 08	"	"	"	24.7	02. 04	02 54	2	3 39W 27
19237	HD 195273	20 25.2	+26 36	"	"	"	24.7	03 00	03 30	3	27W 26
	FOCUS TEST O.T.B.										

Dome Temp. 71

Focus 12.940

Dome Temp. 64

Hour Angle
End

Dome Temp. 70°

Transparency Conditions *good*

Focus 12.940

Dome Temp. 64°

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 24	1	4 38W	26 01	0	8.93	G0	1-1-1	AG 25	good
3 30	2	5 07W	25 25	0	8.99	K2	1-1-1	"	too weak
0 35	3	4 53W	24 51	0	8.78	K0	1-1-1	"	weak
01 04	4	3 24W	39 17	0-1	7.62	G8	1-1-1	Std. Vel.	l. strong
02 05	1	1 25W	28 36	0-1	8.69	K0	1-1-1	AG 25	l. strong
02 54	2	2 39W	27 10	0-1	8.62	K0	1-1-1	AG 25	good
03 30	3	1 27W	26 47	1-2	8.09	K0	1-1-1	AG 25 4/6	fine
								2 plate holders loaded 4 plates in Eastman box	

Trouble with dome opening re-set.
 Had to hold it in. Transparency Conditions Poor 1010
 Dome Temp. 70 F
 Focus 12.940
 Dome Temp.
 Tried two other stars - image too weak - Haze at first.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 39	4 W 3 05	24 49	0	7.92	G ₀	1-1-1	AG - Very hazy	good
3 18	W 1 43	39 17	0	7.62	G ₈	1-1-1	Std Vel.	fine
24 00	2 W 1 14	26 07	1	7.70	K ₀	1-1-1	AG Clouds - danger of rain.	good
							3 Phis loaded	
							Red bulb for temp control indicator has disappeared.	
							M.C. S.C. <u>NTW</u> <u>STM</u> S.W. July 4, +47.8° +89.0° -38.4° -.5m +12.5s	

Date FRI JULY 4-5, 1952 Observer Hd., Mo. Gu. Bl Julian Day 2,434, 198

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
19241	HD 108976	12 26.2	+28 17.5	I-12 $\frac{1}{2}$	E103a0	.008	27.0	21 02	21 52	1
19242	HD 112001	12 48.2	+27 20	"	"	"	27.0	22 59	22 29	2
19243	HD 117062	13 22.7	+24 50	"	"	"	27.0	22 36	23 28	3
19244	HD 144579	16 01.5	+39 24	"	"	"	26.8	23 38	23 56	4
19245	HD 170470	18 24.5	+10 49	"	"	"	26.2	00 02	00 35	1
19246	HD 175578	18 50.9	+29 54	"	"	"	26.0	00 49	01 29	2
19247	HD 184538	19 29.9	+25 36	"	"	"	26.3	01 32	02 15	3
19248	HD 185289	19 33.3	+26 08	"	"	"	26.3	02 21	02 47	4
19249	HD 197207	20 37.2	+29 49	"	"	"	26.2	02 54	03 24	1
19250	HD 199598	20 53.2	+26 01	"	"	"	26.2	03 36	03 50	2
	FOCUS TEST		O.F.B.							

Dome Temp.....73.....

Focus.....12.940.....

Dome Temp.....

Transparency Conditions.....Good.....

N. aurora with well-defined homogeneous band
later drabness.

Ending Time
E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 52	3 58 W	28 00	1	8.7	G5	1-1-1	AG 25, 7.15.1932	fair
22 28	2 4 13 W	27 03	0	7.91	G0	1-1-1	"	fine
23 28	3 4 32 W	29 33	0	8.57	G5	1-1-1	"	fine
23 56	2 27 W	39 15	0	7.62	G8	1-1-1	STD VEL	fine
	0 45 W	10 50	0	7.95 8.5	A0	1-1-1	Ecl. Bin	fine
	1 10 W	29 57	0	8.35	G5	1-1-1	AG 25	fine
	1 20 W	25 44	0-2	8.50	K0	1-1-1	"	fine
	1 50 W	26 16	1-2	8.00	G5	1-1-1	"	fine
	1 29 W	30 02	1-2	8.12	G5	1-1-1	"	fine
	1 29 W	26 14	1-2	7.23	G0	1-1-1	1 Pl's loaded, 4 in box	fine

4/6
July

Date Sat July 5-6 1952 Observer H₀ L - Sa 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	D
19251	HD 144579	16 01.5	39 24	I-K ₂	E-103a0	set 008	27.3	23 01	23 21	4		3
19252	HD 166822	18 07.3	+25 17	"	"	"	27.2	23 26	00 00	1	0-78	2
19253	AG 9675	19 07.3	+26 14	"	"	"	27.1	00 08	00 38	2	0-7W	2
19254	HD 170470	18 24.5	+10 49	"	"	"	27.0	00 47	01 12	3	1-24W	16
19255	HD 194071	20 18.5	+27 55	"	"	"	26.9	01 23	01 58	4	0-76W	27
19257	HD 202573	21 11.6	+25 01	"	"	"	26.9	02 06	02 31	1	0-13E	25
19256	HD 203733	21 19.0	+29 22	"	"	"	27.1	02 35	03 03	2	0-20W	29
19258	HD 207379	21 43.4	+29 16	"	"	"	27.0	03 09	03 42	3	0-37W	29
	Focus Test O.T.B.											

Dome Temp. 75
Focus 12.94
Dome Temp.

Dome Temp. 75°F

Transparency Conditions Good

104

Focus 12.940

Showered 200 visitors M13 with 74" D with 5" and saturn with 4"

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 21	39 17	1	7.62	G8	1-1-1	Std. Velocity	Strong
00 10	0-28W 25 18	0-1	8.56	G0	1-1-1	AG	Fine
00 18	0-7W 26 19	1	8.42	G	1-1-1	"	Strong
01 23	1-24W 10 153	1	7.96 8.5	A0	1-1-1	Ecl. Bin. number 19524	Strong
01 58	0-76W 27 03	0	8.53	K0	1-1-1	AG (wrong star) ? Wrong * 10 too far south. 8/26	Weak
02 11	0-13E 25 16	0-1	7.54	G5	1-1-1	"	Strong
03 05	0-20W 29 08	1	8.3	G-5	1-1-1	"	Strong
03 22	0-37W 29 30	1	8.57	K0	1-1-1	"	Strong
						4/6 Focus OK.	
						4 ph's loaded 4 in box.	
						watch wound 0900	

Dome Temp. 76°F

Focus 12.940

Dome Temp. 69°F

Transparency Conditions Good

106

Sidereal part of Strongen watch found stopped at 22:52 hours.

Sun. 6th; showed 20 visitors @ with 10"

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality			
2 6	1	N 4 10	24 45	0!	8.7	MO	1-1-1	AG 25	Good			
2 12	2	W 4 07	26 16	0	8.0	K0	1-1-1	"	Good			
3 10	3	N 1 48	39 17	0	7.62	G8	1-1-1	Std. Vel	A. Strong			
4 17	4	W 0 32	10 51	0	^{7.94} 8.5	A0	1-1-1	Rel. Bin	A. Strong			
1 25	1	W 2 41	26 48	0	8.7	G0	1-1-1	I hope I got the right star	A. Strong			
2 32	2	W 3 46	29 34	0	8.82	K0	1-1-1		Good			
3 30	3	W 2 53	30 16	0	8.43	G5	1-1-		Fine			
								4/6	Focus Ch. little violet			
									Ph loaded, new box needed.			
								July 7				
								MC	SC	MTW	STW	SW
								+8.5s	+33.2s	+10.7s	-.1m	+13.0 ^s

107

Date July 7/8, Mon/Tues, 1952 Observer Cu - Sa ^(Sa) Julian Day 2,434,201

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 Incl
19266	HD 109463	12 29.8	24 47	I-12"	103a-0	set .008	29.0	21 14	21 58	4	112W
19267	HD 113242	12 51.3	29 32	"	"	"	+28.8	22 01	22 51	1	137W
19268	HD 121131	13 48.5	28 20	"	"	"	+28.8	22 53	23 33	2	272W
19269	HD 144579	16 01.5	39 24	"	"	"	+28.8	23 37	23 48	3	231W
19270	HD 170470	18 24.5	10 49	"	"	"	+28.8	23 52	00 00	4	50W
19271	HD 166683	18 06.9	27 57	"	"	"	+28.8	00 36	01 09	1	48W
19272	HD 169573	18 20.2	26 17	"	"	"	+28.8	01 17	01 50	2	10W
19273	HD 183753	19 25.9	28 31	"	"	"	28.8	01 56	02 18	3	39W
19274	HD 185151	19 32.6	27 39	"	"	"	28.8	02 21	02 45	4	52W
19275	HD 190630	20 00.8	30 14	"	"	"	28.8	02 53	03 23	1	88W
19276	HD 199375	20 51.7	27 12	"	"	"	28.8	03 29	03 38	2	21W

Dome Temp. +77°F
 Focus 12.990
 Dome Temp.

Transparency Conditions Good
considerable haze W.

Ending Time
 I.S.T. P.E.
 01 58 4
 02 01 1
 02 37 2
 02 47 3
 02 50 4
 02 59 5
 01 50 2
 02 53 3
 02 55 4
 02 58 5
 03 00 6
 03 03 7
 03 06 8

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 12W	24 31	1-2	8.86	K ₂	1-1-1	AQ 25	Weak
4 37W	29 16	1-2	8.86	G ₀	1-1-1	" "	Too Weak
4 29W	28 04	1-2	8.63	K ₀	1-1-1	" "	Weak
2 31W	39 18	1-2	7.62	G ₈	1-1-1	old sel.	Fine
0 50W	10 52	2	^{8.5} 7.96	A ₀	1-1-1	Ecl. Bin.	Fine
1 47W	27 58	2	8.84	K ₀	1-1-1	AG 25	Good
2 10W	26 19	2	8.84	K ₀	1-1-1	"	A Weak
1 37W	28 37	2	8.49	K ₂	1-1-1	"	A Weak
1 57W	27 46	2	8.54	K ₀	1-1-1	"	Weak
2 08W	30 22	2	8.72	K ₀	1-1-1	"	Guiding St. Weak
1 31W	27 23	2	7.40	K ₀	1-1-	"	1 ph. loaded. Guiding St. Weak
						new box plates needed	Focus OK.

02 10 - cirrus clouds
 coming in from west
 02:40 heavy clouds moving
 in from - N.W.

Guiding St. Weak

1 ph. loaded. Guiding St. Weak
 new box plates needed Focus OK.

Dome Temp. +74°F

Transparency Conditions *Fair*

Focus 12.940

Dome Temp. +63°F

204

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 33	4 45W	+25 25	0-1	8.99	K2	1-1-1	AG 25	too weak
3 02	4 30W	+24 57	1-2	^{8.05} 8.56	K0	1-1-1	" " (120895 not marked on chart)	good
3 11	2 35W	39 17	0-2	7.62	Q0	1-1-1	Std. vel.	strong
2 47	0 58W	10 52.5	1	^{8.5} 7.96	A0	1-1-1	Ed. bin. <u>This plate spoiled in dev.</u>	strong
1 35	1 30W	29 15	0-1	8.7	K0	1-1-1		strong
2 49	2 06W	27 20	0-1	8.37	K0	1-1-1		strong
3 5	1 21W	27 24	0-1	7.4	K0	1-1-1		strong
3 41	1 41W	26 18	1	8.6	K5	1-1-1	Beginning to cloud over Probably weak - I miscalculated exposure time <u>also this plate</u>	good centre sl. to w

Beginning to cloud over
Probably weak - I miscalculated exposure time also this plate
4/6

Plate Holder #3 is loaded.

MC SC MTW STW SW

July 11 +7.3s +6.4s -5.6s +1.2m +26.0⁵

Date *Sat.* July 12/13 1952 Observer *Ha - Cen* Julian Day 2,434,206

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19285	HD 144579	16 01.5	39 24	I-12.5	F103-a-0	<i>Set 1008</i>	28.3	22 25	22 35	3
19286	HD 170470	18 24.5	10 49	"	"	"	28.2	22 42	23 12	4
19287	HD 168895	18 07.6	30 06	"	"	"	28.0	23 19	00 09	1
19288	HD 177251	18 58.8	29 09	"	"	"	28.0	00 14	00 54	2
19289	HD 184590	19 30.1	25 08	"	"	"	28.0	01 02	01 42	3
	FOCUS TEST		O.T.B.							

Dome Temp. 7
 Hum. 12.9
 Dome Temp.

Bar. Angle
 Incl
 41 38
 50 08
 105
 659 2
 16 2

Dome Temp. 74°F

Focus. 12.940


Dome Temp.

Transparency Conditions Good

112

About 100 visitors, showed M 13 with 74", Saturn with 4"

Ending Time
LST. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 3.8	39 16	1	7.62	G8	1-1-1	Stab. Vel Crosswires in finder, even shifted: when star in 74", in finder	
E 0 08	10 51	0-1	7.9	A0	1-1-1	Ed. Bin like 20; 	
W 1 05	30 08	0-1	8.69	M2	1-1-1	AG 25 Clouds from NW.	
W 0 59	29 14	0-1	8.42	K0	1-1-1	" "	
W 1 16	25 16	0-2	8.42	M0	1-1-1	" " Sky filling in at 01:30. 4/6	
						4. phi loaded, Bin Elson.	

Date Sun July 13-14, 1952 Observer L. C. Cur 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.
19290	H.D. 144579	16 01.5	39 24	T-12E	103 a-0	set 008	29.6	22 36	22 48	1
19291	" 170470	18 24.5	10 49	"	"	"	29.6	22 54	23 30	2
19292	" 170951	18 27.0	25 06	"	"	"	29.6	23 35	00 45	3
19293	" 185982	19 36.7	27 29	"	"	"	29.4	00 48	01 30	4
19294	" 189884	19 57.2	26 54	"	"	"	29.3	01 33	02 01	1
19295	AG 11420	20 26.5	27 37	"	"	"	29.3	02 05	02 55	2
19296	HD 200425	20 58.3	25 46	"	"	"	29.3	02 58	03 38	3
	FOCUS TEST		O.T.B.							

Date Temp. 7
 Hum. 12.9
 Date Temp. 7

Bar. Angle
 Ind
 54 W 3
 13 W 1
 25 W 2
 02 W 2
 12 W 2
 37 W 2
 47 W 2

Dome Temp. 75°F

Focus 12.940

Dome Temp. 74°F

Transparency Conditions

114.

Stage + light clouds, delayed starting

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
22 48 1	1 54 W 39 18	0	7.62	G ₈	1-1-1	Sta. Vel.	fine														
23 30 2	0 13 W 10 52	0	7.9 8.5	A ₀	1-1-1	Ecl. Bin. Plate marked 19241	fine														
00 45 3	0 25 W 125 10	0	8.95	M ₀	1-1-1	A.G. 25	l weak														
01 30 4	1 02 W 27 37	0	8.56	G ₅	1-1-1	" "	fine														
02 01 1	1 12 W 27 04	1	8.23	K ₂	1-1-1	" "	fine														
02 55 2	1 37 W 27 48	0-1	8.76	K ₀	1-1-1	" "	fine														
03 38 3	1 47 W 26 00	0	8.07	G ₅	1-1-1	" "	strong centre red to violet														
9/6																					
1 Ph loaded, 4 in eachman box.																					
<table border="0"> <tr> <td></td> <td>MCS</td> <td>Sc</td> <td>M+U</td> <td>STW</td> <td>S-U</td> <td></td> </tr> <tr> <td>July 14</td> <td>+07.2</td> <td>+15.8^s</td> <td>-15.0^s</td> <td>+0.2^m</td> <td>131^s</td> <td></td> </tr> </table>								MCS	Sc	M+U	STW	S-U		July 14	+07.2	+15.8 ^s	-15.0 ^s	+0.2 ^m	131 ^s		
	MCS	Sc	M+U	STW	S-U																
July 14	+07.2	+15.8 ^s	-15.0 ^s	+0.2 ^m	131 ^s																

Date Tues July 15-16/52 Observer Hd (Bk) - Sa 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.
19297	HD 144579	16 01.5	39 24	I-12	E10320	008	26.0	22 34	22 58	4
19298	^{v4510ph.} HD 170470	18 24.5	+10 49	"	"	"	26.0	23 05	00 05	1
19299	HD 171164	18 28.1	+28 48	"	"	"	25.8	00 10	01 10	2
19300	HD 188015	19 48.0	+27 51	"	"	"	25.8	01 14	02 14	3
19301	HD 204658	21 25.0	+28 26	"	"	"	25.8	02 20	03 11	4
19302	HD 199375	20 51.7	+27 12	"	"	"	25.8	03 20	03 35	1
	Focus Test		O.T.B.							

Dome Temp. +74°F
 Focus 12.950
 Dome Temp. +69°F

Transparency Conditions *Impoverish* 118

210

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 52W	27 21	0-1	8.82	K ₀	1-1-1	AG 25	good
3 3 4 7 43W	24 26	0-1	8.96	K ₀	1-1-1	" "	Weak
3 1 1 2 45W	39 18	2	7.62	G ₈	1-1-1	std. del.	fine
0 2 2 0 57W	10 53	0-1	7.95 ⁸⁵	A ₀	1-1-1	Ecl. Bin. marked A206	fine
0 1 1 1 15W	28 35	1-2	8.56	K ₂	1-1-1	AG 25	good
1 03W	27 52	1	8.49	G ₀	1-1-1	" "	fine
1 22W	30 05	1	8.42	K ₀	1-1-1	" "	fine
2 18W	29 45	1-2	8.97	G ₀	1-1-1	" "	fine
2 20W	27 19	1-2	8.54	K ₀	1-1-1	" "	fine
1 46W	30 05	2	8.05	K ₂	1-1-1	" "	good

4/6

no pl loaded

July 18
 HC +6.75
 SC +26.9^S
 HTW -33.8^S
 STW -0.2^m
 SW +31^S

NO SUN?

Date Sat Sun 19/20 July 1952 Observer N Gu Mo - 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.
19313	HD 144529	16 ^{01.5}	+39 ²⁹ ⁴	1-12	1030-0	00.8	28	1110	1130	1
19314	AG 9950	19 21.3	+26 09	"	"	"	28	1 05	1 17	2
19315	AG 10844	20 02.0	+28 42	"	"	"	28	12 5 ^{40 min}	2 13	3
19316	HD 192732	20 11.3	+29 42	"	"	"	28	2 16 ^{40 min}	3 00	4
19317	HD 199717	20 53.9	+28 53	"	"	"	28	3 05 ^{47 min}	3 47	1
	Focus Test	O.T.B.								

Dome Temp.
Focus
Dome Temp.

Exposure Angle
End

30W-39
28W-2
43W-2
21W-2
20W-2

Dome Temp. 75
 Focus 12950
 Dome Temp. 71

Transparency Conditions very good

120

About 200 visitors (and one dog); M13 with 7A"; Saturn with 4"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1130	3.00W	38 17	0	7.67	G8	1-1-1	Std Velocity plate probably weak got magnitude switched with one below it	OK
1.7	1 28W	+26 17	1	8.84	Ko	1-1-1	11:30 to 1:00 - clouded over plate fogs some lightning	to weak
2.8	1 43W	+28 52	1	8.97	G5	1-1-1	plate fogs	OK
3.0	2 21W	+29 53	1	8.83	Ko	1-1-1	(Whoopie! 3 minutes to change) still have star	fine
3.9	2 26W	+29 04	1	8.89	Ko	1-1-1	3:20 - beginning to cloud over again 3:40 - fog - very thick - can't see 50 yd. still have star	weak fog
						4/6	first 3 plates on old emulsion	
							#2 & #3 holders are loaded plate in #3 is chipped	Actual size of chip
							circle light flickers a bit	
							Sun afternoon - 30 visitors - Mo m c 32 July 21 +6.4 ^s -9.7 ^s +11.2 ^m -1 ^m -11.6 ^s	

Dome Temp. 79°F

Transparency Conditions not too good

122

Focus 12.950

Dome Temp.

Ending Time
E.S.T.

P.H.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0 53	2	NO 37	39 16	0-1	7.62	G8	1-1-1	Std. Vel. Light c. too cloudy in W to take 12-134	strong
11 54		NO 38	27 25 ⁰⁻² <i>changing</i>	8.58	M3	1-1-1	AG 25 21:15 lightning flashes - ray 3 sec. in zone		
22 46		NO 12	28 57	0	8.09	M0	1-1-1	" 21:40, aura in N, lightning in S.E. S.E. 2 sec clouds in S and W, clear overhead	
						4/3	Hazed out		
							2 PM loaded 4 in. box		
							One of 3 rubber loops on secondary cap came apart.		
							MC SC MTW STW SW		
							July 23 +5.5 ^s +1.3 ^s +1.0 ^s -.2 ^m -5.7 ^s		

Dome Temp. 72

Focus 12950

Dome Temp. 62

Transparency Conditions good

124

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:31	4 22 W	+24 35	0	8.58	K0	1-1-1	Image more lively than a Jack Rabbit The dome was not in the way!	Weak
10:12	4 40 W	+24 29	0	8.30	G5	1-1-1	I tried HD115613 but no stars appeared in finder.	Too Weak
10:59	3 33 W	+25 59	0	8.30	G0	1-1-1		Too Weak
12:05	3 38 W	+29 06	0	8.98	G0	1-1-1		Too Weak
12:37	2 32 W	+5 00	0	7.8 8.1	F5	1-1-1	Ecl Bin	Too Weak
11:00	4 18 W	+29 48	0-1	8.90	M0	1-1-1	AG 25 Trouble with relais turning the dome	Too Weak
11:30	3 58 W	+27 26	0	8.63	K0	1-1-1	AG 25	Good
11:40	3 43 W	+58 29	0	7.70	K5	1-1-1	Ad vel.	Ext. Strong
11:50	2 04 W	+8 56	0	7.0 7.5	A0	1-1-1	EE Pag, Sel. Bin	Fine
11:55	3 15 W	+25 59	0	8.07	G5	1-1-1	AG 25 the star looks much fainter 4/6 4 Ph loaded not a focus test.	Fine

Dome Temp. 67°F

Transparency Conditions *Good*

126

Focus 12.950

Dome Temp. 62°F

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4	38 W	+29 16	0	8.86	G0	1-1-1	AG	Fine
4	48 W	+29 30	1	8.68	G5	1-1-1	AG	Dr. Weak
0	54 W	+5 00	0-1	7.8/8.1	F5	1-1-1	Ecl Bin	Good
2	41 W	+26 15	0-1	8.95	G5	1-1-1	AG	Fine
0	43 W	+58 29	2	7.7	K5	1-1-1	Std. vel.	Dr. Strong
2	57 W	+27 29	0-1	8.9	K0	1-1-1	AG	Fine
2	29 W	+28 37	0-1	8.4	K2	1-1-1	" * wrong RA and Dec settings Seeing constantly changing in	Fine
1	34 W	+27 40	0	8.8	K5	1-1-1	" a range of from 0.2 and back	Fine
1	51 W	+29 30	1	8.5	K0	1-1-1	"	Fine

4/6

Hours OK.

MC SC MTW STW SW

July 25 +4.0^s +12.7^s -2.9^s -2^m -5.0^s

3ph loaded

8 in Eastman box.

* RA & Dec. set at 18:50 seeing time

127

Date Fri July 25-26/1953 Observer L.W. - Pk 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.
19340	H.D. 115103	13 09.9	29 55	I-12 $\frac{1}{2}$	E-10300	Set 008	24.2	20 48	21 48	2
19341	" 121183	13 488	27 35	"	"	"	24.2	21 53	22 53	3
19342	" 174764	18 47.1	29 36	"	"	"	24.1	22 59	23 59	4
19343	" 184467	19 29.5	58 24	"	"	"	24.0	00 09	01 25	1
19344	V 5660ph	17 51.9	+5 00	"	"	"	24.0	00 38	01 00	1
19345	H.D. 168956	18 173	+26 39	"	"	"	24.1	01 08	01 54	3
19346	H.D. 184719	19 20.7	+28 56	"	"	"	23.9	02 00	02 40	4
19347	{ H.D. 191445 } Focus to L	20 04.8	+28 27	"	"	"	23.9	02 57	04 07	1
		O.T.B.								

Dome Temp. 71'
Focus 12.2
Dome Temp.Star Angle
Incl

Dome Temp... 71°F

Focus... 12.950

Dome Temp... 64°F

Transparency Conditions Good

128

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 43	2	4 32 W	29 40	0	8.79	G0	1-1-1	AG 25	Good
22 53	3	5 00 W	27 20	0	8.82	K0	1-1-1	"	Good
23 01	4	1 12 W	29 40	0	8.98	K0	1-1-1	" marked 19341**	Fine
23 51		0 52 W	58 29	1	7.70	K5	1-1-	Std vel. did I strike the last one?	Strong
23 51		3 03 W	5 00	0	7.8/8.1	F5	1-1-1	Rel. Bin	Good
23 51		3 32 W	26 42	0	8.60	B0	1-1-1	AG 25	Fine
23 51		3 05 W	29 02	0-1	8.51	K2	1-1-1	"	Good
23 51		3 54 W	28 33	0-1	8.88	K5	1-1-1	" cloudy, 10 m extra	Std vel
								4/6 hours slightly to wider	
								3 ph loaded	

129

Date Sat July 26/27/52 Observer Ho - Sa Julian Day
Hr Sa

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
19348	HD 163611 V 566 Oph	17 51.9	+5 00	I-12	F10320	.008	25.9	22 16	22 40	2
19349	HD 184467	19 24.5	+58 24	"	"	"	25.9	22 52	23 04	3
19350	HD 184538	19 29.9	+25 36	"	"	"	25.9	23 13	23 50	4
19351	HD 186260	19 38.2	+26 50	"	"	"	25.8	23 53	00 43	1
19352	HD 190749	20 01.4	+24 34	"	"	"	25.8	00 48	01 38	2
19353	HD 195790	20 28.3	+27 10	"	"	"	25.7	01 45	02 16	3
19354	HD 205626	21 31.5	+25 55	"	"	"	25.8	02 24	03 14	4
19355	HD 199375	20 51.7	+27 12	"	"	"	25.8	03 20	03 32	1
	Focus Test		O.T.B.							

Dome Temp. 73°
 Focus 12.950
 Dome Temp. 65°

Transparency Conditions *Good*

130

Moon and Saturn with 4in.

showed 200 visitors & Hers., & some RASC's (ATMs) M13 ↑ very fine

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	2	00 47W	$05^{\circ} 00'$	0	$7.8/8.1$	F5	1-1-1	Ecl. binary	fine
23	04	30 24E	$58^{\circ} 28'$	0.2	7.7	K5	1-1-1	Std. Velocity	strong
23	50	00 18W	$25^{\circ} 44'$	0-1	8.5	K0	1-1-1	AG	fine
20	43	100 02W	$26^{\circ} 58'$	0-1	8.84	G5	1-1-1	"	fine
01	2	01 34W	25 41	0-1	8.86	K0	1-1-1	"	good
22	16	301 48W	27 21	0-1	8.33	K0	1-1-1	"	l weak
23	14	401 42W	26 09	0	8.56	G0	1-1-1	" preceding of two # 26 very faint	l weak
03	32	122 40W	27 24	1	7.4	K0	1-1-1	"	weak
								4/6	

3 ph loaded.

4 in Eastman Box.

Date Sun/Mon. July 27/28/59 Observer Bk - 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.
19356	HD. 114636	13 06.7	+26 54	T-12	E103-a-0	0.008	28.8	20 56	22 10	2
19357	14 75 27	16 17.4	+29 13	"	"	"	28.8	22 12	23 19	3
19358	V 566 Dpl	17 51.9	+5 00	"	"	"	28.4	23 27	23 47	4
19359	HD. 184467	19 29.5	+58 24	"	"	"	28.2	23 55	0 09	1
19360	H.O. 186223	19 38.0	+26 57	"	"	"	28.3	00 14	01 19	2
19361	A.G. 12426	21 18.3	30 15	"	"	"	28.3	01 29	02 34	3
19362	HD 206979						28.1	02 40*		1
	"	21 40.7	2 846	"	"	"	28.1	02 56	03 46	1
	<i>Focus Test</i>				<i>O.T.B.</i>				25	

Dome Temp. 78

Focus 12.950

Dome Temp. 70

Transparency Conditions good

132

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 05 W	26 38	0	8.96	K0	1-1-1	A.G. 25	
3 05 W	29 06	0-1	8.98	G0	1-1-1	" " in	
1 57 W	5 00	1	7.8/8.1	F5	1-1-1	Rel. Bias -	
00 44 W	58 29	1-2	7.70	K5	1-1-1	Std. vel.	
01 45 W	27 05	0-1	8.93	K0	1-1-1	A.G. 25	
01 19 W	30 30	0-1	8.91	K0	1-1-1	" "	
	28 57				1-	Set. 5	
	29 02	0	8.58	K0	1-2	Set 9	
					4/3	Set. 2	

Handwritten notes in red:
 Mull and void
 the clau... of P.H. broken
 plates
 Wrong Star
 Hazy
 the slit
 position
 0304 Haze
 Considerable Cloud S.W
 0328 Clouded out. Star Gone
 3 P.H. + 19
 P.H. #4 has Broken Handle.

Handwritten notes in black:
 July 28 MC SC MTW STW SW
 +40^s +27.5^s -15.8^s +.1^m -3.7^s
 Sunday afternoon about 30 visitors, ☉ showed

Date ~~March 1952~~ ³¹ ~~July 30~~ ^{Aug 1}, 1952 Observer ^{HD} ~~Br~~ ^{Cur} - H ✓ Julian Day 2,434,224

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	
19356	HD 163611	17 51.9	+05 00	I-12"	103a-0	set .008	+21.9	22 32	22 52	1	
19357	Brand Nova	18 53.1	+ 5 32	"	"	.020	+21.9	23 06	23 26	2	
19358	HD 169797	18 21.3	+26 01	"	"	set .008	+21.8	23 34	00 02	3	
19359	AQ 9459	18 55.9	+26 13	"	"	"	21.6	00 05	01 15	4	
19360	H.D. 190885	20 02.0	+27 51	"	"	"	21.4	01 21	02 26	1	
19361	" 204539	21 24.2	25 59	"	"	"	21.1	02 35	03 25	2	
19362	" 206332	21 36.3	28 18	"	"	"	20.8	03 31	03 53	3	
Floures test					O.F.B.						

Dome Temp. +63°F

Focus..... 12.950

Dome Temp.....

Transparency Conditions

Quite good

134

200 visitors, normal school. Showed M13 with 74",
& with 5", 1/2 with 4"

Dome opening motor failed - opened by hand

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 52	1	19W	+5 00	0+	7.8/8.1	F5	1-1-1	Ecl Bic	Faulty Emulsion ^{plate checked}
23 21	2	47W	-5 30	0-1	8.57	G5	1/2-1/2-1/2	HCO announcement card July 24/52	probably wrong star for Week
00 03	3	55W	+26 06	0-1	8.28	K0	1-1-1	AQ 25	Fine
01 05	4	235W	26 18	0!!	8.96	G5	1-1-1	" "	guiding! Fine
02 21	1	240W	27 59.5	0	8.96	K5	1-1-1	" "	Good
03 05	2	216W	26 13	0!	8.61	K2	1-1-1	" " ⁵²⁵⁰ Anura near North	guiding! Fine
03 53	-	232W	28 32	0!	7.54	G5	1-1-1	" " quite bright	Fine
							4/3		Focus OK
								I.P.H. + 4	
								Dome closed without any trouble whatsoever	

Dome Temp. 64°F

Focus 12.950

Dome Temp. 58°F

Transparency Conditions *good*

136

Hour	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4	52	26 39	0	8.96	K0	1-1-1	AG 25	Lt Wk
0	43	5 00	0	7.7/8.1	F5	1-1-1	Ed. Bin	Fine
0	33	58 30	1	7.70	K5	1-1-1	Std Vel. number not clear (m.p. 9.3 marked l wk!)	much too strong
2	16	26 29	1	8.96	K2	1-1-1	AG 25	Good
1	41	+28 36	2	8.49	K2	1-1-1	AG 25 I changed focus slightly, during the	Good
1	50	+29 52	2.5	8.98	K2	1-1-1	R.A. for 1950 is incorrect in book. I set on	Fine
2	22	26 22	2	8.90	G0	1-1-1	AG 25 Small fault in emulsion	Fine
2	52	29 54	2	8.83	K0	1-1-1	" Guiding.	Fine
3	12	+27 42	2	8.68	K5	1-1-1	" Faulty emulsion. plate checked	Fine
2	49	+25 24	2	8.85	K0	1-1-1	"	Fine
							6 sec - plunger all out 4 sec - plunger half out.	Focus ok to red
							3 plate holders loaded 4 plates in box.	
							The flashlight needs new batteries	

137

1952
Date Fri-Sat. Aug 1/2

Observer ^{We} MK - Mo Julian Day 2434.226

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19373	HD 117062	13 22.7	+24° 50	I-12	E103-a-0	008	23.2	20 42	21 42	4
19374	HD 147527	16 17.4	+29 13	"	"	"	23.0	21 48	22 48	
19375	V 566 Oph HD 163611	17 51.9	+ 5 00	"	Hi speed	"	23.0	22 56	23 24	1
19376	HD 163970	17 53.8	+27 51	"	E103-a-0	"	22.5	23 31	0 07	
19377	HD 173435	18 40.2	+26 08	"	"	"	23.0	0 10 ⁴⁰	0 30	
19378	HD 184467	19 29.5	+58 25	"	Hi speed	"	23.0	0 57 ¹²	1 09	4
19379	AG 9369	18 51.3	+26 52	"	E103-a-0	"	23.0	1 15 ⁴⁶	2 01	3
19380	HD 185241	19 38.1	+27 58	"	"	"	23.1	2 05 ³⁶	2 41	
19381	AG 11036	20 10.6	+26 29	"	"	"	23.1	2 46 ⁴⁸	3 37	4
	Focus Test	O.T.B.								

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

Star Angle End
132 W +2
133 W +2
131 W +4
137 W

Dome Temp... 6

Focus... 12.950

Dome Temp... 60°F.

Transparency Conditions... good

very hazy around horizon

138

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 42W	+25° 36	1	8.57	G5	1-1-1	AG-25 setting 2	fine spots tripping only
1 54W	29 06	0.1	8.98	K0	1-1-1	" 8	fine spots avoiding peg
1 54W	5 00	1	7.8/81	F5	3-3-3	Gal. Bone Cramer Plate	fine
2 35W	27 51	1	8.58	G5	1-1-1	AG setting 2	fine
2 32W	+26 12	1	8.72	G5	1-1-1	" setting 8	fine
2 03W	+58 29	1	7.0	K ₅	3-3-3	Std. Velocity Cramer Plate	fine
3 33W	+26 58	1/2	8.96	K ₀	1-1-1	AG setting 2 (I changed focus slightly)	fine
3 31W	+28 05	2	8.82	K ₀	1-1-1	AG setting 8	h. area
3 47W	+26.40	1/2	8.93	G5	1-1-1	AG setting 2	good
						6sec plunger all out 9sec plunger half out. setting 9	some OK.
Clouded over before I set on last star.							

3 plate holders loaded with 103 a-0 plates

1 spotted Cramer plate in Cramer box.

1952

Date Sun-Mon Aug. 3-4 Observer L-We 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.F.
{ 19382 }	{ HD 117555 Focus test }	13 ^h 26.0	+24° 44'	I-12 ^{1/2}	E1032-0	.008	26.0	20 ^h 31 ^m	21 55	1
		O.T.B.								

Dome Temp. 72
Focus 12950
Dome Temp. 66

Star Angle
End 4 49W+2

Dome Temp... 72°
 Focus... 12950
 Dome Temp... 68°

Transparency Conditions... *Hazy*

140

Reading Time
 I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
4 40W	+24° 30'	0.5	8.30	G5	1-1-1 6-4	AG 25 th setting 2 Haze thickening setting 8 star gone at 21.40 holding on. Heat control on spectrograph left off. 2 plate holders loaded 103a-0	inade										
<p>Man - Zues Aug 3-4. Haze causing at least 1 mag extinction. Some cloud, some rain.</p> <p><i>F. G. H.</i></p>																	
Aug 5						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>5W</td> </tr> <tr> <td>+20^s</td> <td>-19d 5</td> <td>-3d 1.5^s</td> <td>-2^m</td> <td>+35^s</td> </tr> </table>	MC	SC	MTW	STW	5W	+20 ^s	-19d 5	-3d 1.5 ^s	-2 ^m	+35 ^s	
MC	SC	MTW	STW	5W													
+20 ^s	-19d 5	-3d 1.5 ^s	-2 ^m	+35 ^s													

1952
Date Tues. - Wed. Aug. 5-6 Observer L-Gu-We - M 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.F.
19383	HD 115613	13 ^h 13 ^m .2	+27° 58'	I-12 $\frac{1}{2}$	E103a-0	.008	22.0	20 ^h 37 ^m	21 ^h 37 ^m	2
19384	HD 150567	16 ^h 36 ^m .8	+29° 06'	I-12 $\frac{1}{2}$	E103a-0	.008	22.0	21 ^h 45 ^m	22 ^h 55 ^m	2
19385	HD 163611	17 51.9	+5 00	"	Hi-speed	"	22.0	23 ^h 07 ^m	23 51	1
19386	HD 196928	20 35.3	+27 44	"	E103a-0	"	22.0	23 54 ⁴⁶	24 38	3
19387	HD 198198	20 43.6	+29 ¹⁶ (27)	"	"	"	21.8	24 42 ³²	1 14	3
19388	HD 200991	20 58.7	+28 35	"	"	"	21.8	1 18 ³²	1 50	4
19389	HD 204711	21 25.4	+25 22	"	"	"	21.8	1 54 ⁴⁰	2 34	4
19390	HD 212567	22 20.2	+28 11	"	"	"	21.8	2 38 ¹⁴	3 22	4
19391	HD 216632	22 49.4	+27 29	"	"	"	21.8	3 36 ²⁶	4 02	4

Dome Temp. 68°

Focus 12.950

Dome Temp.

Transparency Conditions *Some haze - hazy!* 142

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 01 ^m W	+27° 43'	0-1	8.5	G5	1-1-1	AG 25° setting 2	slightly poor with good
2 ^h 56 ^m W	+29° 02'	0-1	8.75	K2	1-1-1	AG 25° setting 8	fine
2 36 W	+5° 02'	0-1	7.8/8.1	F5	3-3-3	Ecl. bin light clouds	slightly poor with (fine)
0 41 W	+27 57	1	8.58	K5	1-1-1	AG setting 2	good
1 09 W	+29 28	1	8.33	K0	1-1-1	AG setting 8	very thin clouds fine
1 30 W	+28 49	1 1/2	8.37	K0	1-1-1	AG setting 2	cloudy " } this plate subtlet twice maybe fine
1 47 W	+25 39	1 1/2	8.77	K2	1-1-1	AG setting 8	cloudy " ? look
1 41 W	+28 26	1	8.70	K0	1-1-1	AG setting 2	I think I have mis- the symbol in the plate name. W. this fine
1 51 W	+27 47	1	7.77	G0	1-1-1	AG setting 8	cloudy becoming worse strong

2 plate holders loaded with E103a.0
8 plates in Kodak box

143

1952

Date Wed. Thurs Aug 6-7 Observer Sa - Gu 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.
19392	v 566 Opt HD 16311	17 51.9	+ 5 00	1-12 $\frac{1}{2}$	Hypered	.008	23.8°	20 ^m 49 ^m	21 40	1
19393	HD 184467	19 29.5	+ 58 24	"	"	"	23.4	21 58	22 04	4
19394	HD 171830	18 31.8	+ 27 08	"	10390	"	23.2	22 16	23 02	2
19395	HD 187921	18 ⁹ 47.4	+ 27 12	"	"	"	24.8	23 16	23 46	2
19396	HD 195273	20 25.2	+ 26 36	"	"	"	26.0	23 58	00 21	3
19397	HD 199221	20 50.7	+ 27 42	"	"	"	27.0	00 30	00 54	3
19398	AG 11 970	20 54.2	+ 30 14	"	"	"	27.0	00 57	01 44	7
19399	HD 205627	21 31.5	+ 25 ²⁵ 55	"	"	"	27.0	01 50	02 30	4
19400	" 208658	21 52.7	+ 28 21	"	"	"	27.0	02 33	03 13	1
19401	" 211884	22 15.2	+ 25 13	"	"	"	27.0	03 17	03 53	1

Dome Temp. 72

Focus 12.9

Dome Temp. 63

Hour Angle
End

D

Dome Temp. 72°F

Focus 12.950

Dome Temp. +63°F

Transparency Conditions

Poor - some haze
except directly overhead

144

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 01	0 34W	4 56	0	7.5/8.1	F5	1-1-1	Ecl. Bin haze spots spoiled	wrong star (to) weak
22 01	-	58 28	0	7.0	K5	1-1-1	Std. Vel. plate destroyed or scanline that slightly better	too weak wrong star
23 02	1 17W	27 07	0	8.6	L50	1-1-1	AG setting 2 very hazy except right overhead not much	1 weak wrong star fine
23 03	0 50W	27 04	1	-	K0	1-1-1	AG setting 8 clocks out, probably wrong #0	wrong star?
01 01	0 42W	26 45	0-1	8.0	K0	1-1-1	AG setting 2	1 weak wrong star
01 03	0 45W	27 53	2	8.3	G5	1-1-	AG setting 8	seemingly excellent too strong
01 04	01 32W	30 28	1	8.9	G0	1-1-1	" " 2	looks fainter than 8.3 in fine
01 05	01 41W	26 11	1-2	8.56	G0	1-1-1	" " 8	haze quite bad ^{harder to see} good
01 06	02 03W	28 36	0-2	8.49	K0	1-1-1	" " 2	fine
01 07	02 20W	25 29	0-1	8.68	K2	1-1-1	" " 8	good

Cirrus clouds to SE some slight haze
loaded: Ph #3 with his head

Rh #2.4 with 103 a - 0 STW SW

ME	SC	MTW	STW	SW
Aug 8	+1.5 ^s	-28.7 ^s	-36.5	-0.2 ^m
				+15.5

145

Date Thurs/Fri, Aug 7/8, 1952 Observer Gene - Sa Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Star Angle End
19402	HD 163611	17 51.9	+05 00	I-12"	Hi-speed	Set .008	+25.0	21 55	22 23	3	26.5
19403	AG 8656	18 01.7	+25 40	"	103a-0	"	+25.0	22 36	23 06	4	50W-2
19404	HD 169797	18 21.3	+26 01	"	"	"	+25.0	23 09	23 35	4	59W+2
19405	" 184467	19 29.5	+58 24	"	Hi-speed	"	+24.9	23 39	23 49	1	07W+5
19406	AG 10133	19 31.0	+28 52	"	103a-0	"	+24.9	23 52	00 32	2	5W+2
19407	HD 187548	19 45.4	+28 21	"	"	"	+24.5	00 35	01 00	2	01W+2
19408	HD 196133	20 30.3	+44 50	"	Hi-speed	"	+24.5	01 05	01 12	1	28W+5
19409	HD 189753	19 56.5	+26 52	"	103a-0	"	+24.5	01 17	02 05	3	55W+2
19410	HD 191898	20 07.1	+25 51	"	"	"	+24.5	02 08	02 58	3	37W+2
19411	HD 204921	21 26.7	+29 50	"	"	"	+24.5	03 05	03 43	4	03W+2
19412	AG 12707	21 32.3	+24 13	"	"	"	+24.5	03 48	04 30	4	44W+2
	Aug 8	Mc +2.0 ^s	Sc +23.2 ^s	MTW -37.5 ^s	STW -.3 ^m	SW +14 ^s					
1952 Aug. 9	N, Mo	Cloudy; showed slides and demonstrated telescope. About 80 visitors.									

Dome Temp. +70°F

Focus 12.950

Dome Temp. +66°F

Transparency Conditions

Poor sky, clouds SE, S.W
+ haze

146

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	26W	+05° 01'	0	7.8/ 8.	F5	1-1-1	Ed. bin	fine
01	50W	+25° 43'	1	8.49	G	1-1-1	AG 25 set 2	fine strong
01	59W	+26° 05'	1	8.28	K0	1-1-1	" " " 8	good
01	07W	+58° 30'	2	7.0	K5	1-1-1	std. vel.	fine
01	48W	+29° 00'	1-2	8.79	G5	1-1-1	AG 25 set 2	strong
02	01W	+28° 29'	1	8.2	G5	1-1-1	AG " setting 8.	strong
01	28W	+45° 00'	2	6.6	A0	1-1-1	Sp. Bin.	too strong
02	55W	+27° 01'	1	8.9	K5	1-1-1	AG 25 setting 2	good poor guiding
03	38W	+26° 00'	0-1	8.8	G5	1-1-1	" setting 8.	good
03	03W	+25° 53'	0	8.4	K0	1-1-1	" setting 2 (wrong dec but field)	good too weak
03	44W	+29° 28'	0	8.5	G5	1-1-1	" setting 8.	fine

no focus test

P.H #142 loaded with 1030.

new box of plates needed.

Variable seeing throughout night

5a

147

Date See from Aug 29 1952 ¹⁰⁻¹¹ Observer Cu - Cu 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.
(19413)	HD 117555 ^{stat}	13 26.0	29 44	I-12	103a-0	^{SFT} 008	+23.0	20 38	21 28	1
19414	" 147527	16 17.4	29 13	"	"	"	+22.8	21 34	22 34	2
19415	" 161112	17 38.6	26 36	"	"	"	+22.0	22 37	23 07	2
19416	" 163611	17 51.9	+05 00	"	Hi-speed	"	+22.0	23 14	23 54	3
19417	" 173367	18 39.8	+28 00	"	103b-0	"	+22.0	23 58	00 44	4
19418	" 182256	19 18.7	25 08	"	"	"	+21.9	00 49	01 23	4
19419	" 184467	19 29.5	58 24	"	Hi-speed	"	+21.8	01 28	01 40	1
19420	" 196133	20 30.3	44 50	"	"	"	+21.8	01 47	01 55	3
19421	Ag. 12158	21 03.4	29 58	"	103a-0	"	+21.8	02 00	02 50	2
19422	HD 219654	23 12.4	29 20	"	"	"	+21.8	02 56	03 26	2

Dome Temp. $+70^{\circ}\text{F}$
 Focus 12.950
 Dome Temp. $+63^{\circ}\text{F}$

Transparency Conditions *good*

148

Hour	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04	92W	24 29	0-1	8.30	G ₅	1-1-1	AG 25 Set 8	Set 2 wrong * discarded & corrected wasp
03	14W	29 06	0	8.98	G ₀	1-1-1	" " Set 2	poor guiding good
02	25W	26 35	0-1	8.43	K ₀	1-1-1	" " Set 8	22 55 light cam from NW. fine-stony
02	59W	05 00	0	7.8/8.1	F ₅	1-1-1	tel. bin	light cloud good
03	02W	28 04	0	8.69	K ₀	1-1-1	AG 25 Set 2	fine
03	02W	25 15	1	8.54	G ₀	1-1-1	" " Set 8	fine
03	09W	58 30	1	7.0	K ₅	1-1-1	std vel.	good
02	23W	45 01	1	6.62	A ₀	1-1-1	tel. bin	to (steering)
02	44W	30 12	1	8.83	G ₀	1-1-1	AG 25 Set 2	fine
01	12W	29 37	1	8.70	K ₅	1-1-1	" " " 8	fine good
							clouds at 03:00, heavy cum.	
							2 Pkys loaded (103a-o) 8 plates (300	
							box) + Cromar new box	
Aug 11	MC	SC	MTW	STW	SW			
	+1.3 ^s	-8.1 ^s	-46.2 ^s	-0.4 ^m	+20 ^s			
							Will SOMEONE GIVE MORTON A FREE COPY OF THE	
							SCHEDULE, A GUIDE TO FREE-LANCE OBSERVING,	
							AND A NEW ALARM CLOCK!	

Was the observ. angle to
 read a plate, looked fine

Dome Temp.....

Transparency Conditions

Focus..... Aug 12, 1952

Dome Temp..... Changed to 25" camera

12 1/2" was Focus 12.951
Silt 20.30

25" is Silt 23.15
Focus 15.740

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Temp	Quality
							+22.0	
						Focus Check set 1	Focus 16.240	
						" 4	" 16.260	
						" 10	16.220	
						Focus check set 1	Focus 15.720	
						" 4	15.760	
						" 10	15.740	focus alright

Date Two-Mid Aug 12-13, 1952 Observer We - Hr Julian Day 237

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19423 ✓	ε Draconis	15 ^h 22.7	+59° 19' 25"	"	E-103a-0	0.008	23.8	20 ^h 22 ^m	20 ^h 23 ^m	1
	"							20 24	20 26 ^m	
	"							20 27	20 31	
19424 ✓	η Draconis	16 ^h 22.6	+61° 44'	"	"	"	23.8	20 43	20 43.5	4
	"							20 45	20 46	
	"							20 48	20 50	
19425 ✓	β Draconis	17 ^h 28.2	+52° 23'	"	"	"	23.8	20 59½	21 00	2
	"							21 01	21 02	
	"							21 04	21 06	
19426 ✓	V451 Ophiuchi	18 24.5	+10° 49'	"	Hi-Speed	"	23.6	21 22	23 22	4
19427 ✓	κ Cygni	19 14.8	+53° 11'	"	E-103a-0	"	23.0	23 27	23 29	1
	"							23 30	23 34	
	"							23 35	23 41	
19428 ✓	ε Cygni	20 42.2	+33° 36'	"	"	"	23.1	00 52.0	00 52.5	2
	"							00 58.0	00 59.0	
	"							01 03.0	01 05.25	

Dome Temp. 67°F

Focus 15.770

Dome Temp.

Transparency Conditions *good*

1524

Reading Time R.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 23			+59° 07'	0	4.47	K ₂ III		Std. Lum. Set 2	Plate developed
20 26				0			6	5	right away
20 31		2 ^h 14 ^m W		0				8	
20 43	4	1	+61° 39'	0	3.67	G ₂ III		Std. Lum. 30 sec - Set 2	fine
20 46							6	5	strong
20 50		N 1 33						8	too long
21 00			+52° 21'	0!	3.55	G ₂ II		Std. Lum. Set 2	fine
21 02							6	5	strong
21 06		W 0 ^h 44 ^m						8	too long
21 22		N 1 58	+10° 54'	0	7.9	A0	6-6-6	Ecl. Bin	strong
21 29			+53° 16'	1	4.98	K ₀ III		Std. Lum. Set 2	2350 Considerable cloud from S.W.
21 34				1			6	5	too long
21 34		N 1 33		1				8	too long
21 52			+33 50	0	3.64	K ₀ III		Std. Lum. Set 2	poor guiding fine
21 50		0123 W					6	5	poor guiding strong
21 05.25								2 Cloud during 3 rd Expos.	strong

Date Aug 12-13/52 ^{Cont'd.} Observer - 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.E.
19429	H.D. 205060	21 27.5	+42 16	I-25	Hi-Speed	1008	23.2	01 25	02 11	4
19430	H.R. 8726 H.D. 216946	22 54.3*	+49 28*	"	E103-a0	"	23.0	02 19	02 30	3
19431	H.R. 8832 H.D. 219134	23 10.7	+56 53	"	"	"	23.1	02 58	03 18	"
19432	δ Erid.	03 38.5	-10 06	"	"	"		03 45.0	03 46.75	1
								03 49.25	03 52.75	1
							23.2	03 57	04 04	1
19433	H.R. 1327 H.D. 27022 <i>Focus</i>	04 11.2	+64 54	"	"	"	23.1	04 23	04 32	
				<i>Test</i>	<i>O.P.B.</i>					
	Wed Aug 13	Showed 16 visitors 74" Sun with 10" - Morton.								

Dome Temp. 59°F

Transparency Conditions *Good*

154

Focus

Dome Temp. 57°F

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0211	0150W	+4231	0	7.1	B _s (h)e	6-6-6	Be Prog. ⁰¹⁵⁰ Cloud Gone	fine
0230	0049W	+4928	0	6.1	K _s Ib	3-3-3	set 2. * 1950 positions.	wk. (good)
0318	0116W	+5655	0	6.72	K ₃ V	3-3-3	" 8. Trouble setting dec.	strong
0346.5		-0954	0!!!	4.22	K ₀ IV	—	set. 2 (1.75)	weak
						6	" 5 (3.5)	good
	0228E			5.96		—	" 8. (7.0)	strong
0404	0236E	+6503	0	5.96	G ₅ III	3-6	<u>very poor guiding</u>	good
						12/8	2 P.H. Loaded E103-a-0. E103-a-0's Needed.	
							Approx. 15 plates in Cramer box.	
							If I have to take those last two again I think I'll buy a parachute!	
							Light in south pier contact again	
Aug 13				MC	SC	MTW	STW	SW
				+0.7 ^s	+2.5 ^s	+15.2 ^s	+1.5 ^m	+39 ^s

Date Wed - Thurs Aug 13-14/52 Observer W.C. - SA. 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.
19434	γ Cor. Bor.	16 ^h 07.0	+38° 45'	I-25	E 103	0.008	23.9	20 ^h 29 ^m	20 ^h 32 ^m	2
20 ^h 35 ^m								20 ^h 40 ^m		
20 ^h 41 ^m								20 ^h 51 ^m		
19435	θ Herculis	17 ^h 52.8	+37° 16'	"	"	"		21 ^h 00 ^m	21 ^h 01 ^m	3
21 ^h 02 ^m								21 ^h 04 ^m		
21 ^h 06 ^m								21 ^h 10 ^m		
19436	HD 16311 V 566 Oph	17 ^h 51.9	+5° 00'	"	Hi-Speed	"	24.0	21 ^h 28 ^m	22 ^h 12 ^m	1
19437	MWC 278 HD 164284	17 ^h 55.3	+4° 22'	"	"	"		22 ^h 23 ^m	21 ^h 24 ^m	2
								22 ^h 26 ^m	22 ^h 28 ^m	
								22 ^h 34 ^m	22 ^h 38 ^m	
19438	V 451 Oph	18 ^h 24.5	+10° 49'	"	"	"	23.9	22 ^h 51 ^m	23 ^h 43 ^m	3
19439	HD 196133	20 ^h 30.3	+44° 50'	"	"	"		23 ^h 52 ^m	24 ^h 12 ^m	1
19440	HD 192044	20 07.8	+26 19	"	Hi-Speed	"	23.9	24 20	24 22	2
								24 25	24 29	
								24 31	24 39	

Dome Temp. 74°

Transparency Conditions

Good

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Focus 15.768

Dome Temp.

Ending Time P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 32 ^m		+ 36° 38'	2	5.94	K ₀ III		Att. Lun. Set 2	good
20 ^h 44 ^m						6		fine
20 ^h 57 ^m	1 ^h 56 ^m W							strong
21 ^h 13 ^m		+ 37° 18'	2	4.99	K ₁ II		Att. Lun. Set 2	weak
21 ^h 24 ^m						6		good
21 ^h 33 ^m	0 ^h 28 ^m W							fine
22 ^h 12 ^m	1 ^h 30 ^m W	+ 5° 03'	2	7.8/2.1	F5	6-6-6	Ecl. Bin.	Too weak
21 ^h 21 ^m		+ 4° 24'	2	4.8	B ₅ ne	18	Be star Set 1	too weak
21 ^h 22 ^m						18		poor guiding
21 ^h 22 ^m	1 ^h 52 ^m W					18		weak
23 ^h 33 ^m	29 ^m W	+ 10° 55'	2	7.9	A ₀	6-6-6	Ecl. Bin.	fine
23 ^h 42 ^m	0 ^h 52 ^m W	+ 45° 01'	2	6.62	A ₀	6-6-6	Sp. Bin.	poor guiding
24 ^h 22 ^m		+ 26 17	2	5.9	B ₅ ne	18-	Be Star Set 1.	very poor guiding
24 ^h 29 ^m						18	Set 5	poor guiding
24 ^h 34 ^m	1 42 W						Set 8	good
								poor guiding
								fine

next page

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Confid

Date *Wed. Thrus Aug 13-14/52* Observer *Sa* 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.
19441	^{HD} 192445	20 09.8	36 02	1-25	Higspeed	1008	23.9	24 48	00 02	3
19442	HD 193009	20 12.9	32 04	"	"	"	"	01 06	04 22	4
19443	possibly HD 194317	20 19.9	+31 52	"	"	"		01 31	01 34	1
	HD 194335	20 20.0	37 10					01 36	01 42	
19444 19444	HD 198183	20 43.5	36 07	"	"	"	23.9	01 45 ¹²	01 53	2
								02 02 ⁵²	02 02.5	
								02 04 ⁶⁰	02 05.2	
19445	HD 205060	21 27.5	42 16	"	"	"	23.9	02 16	02 40	3
19446	S Cyg	21 08.7	29 49	"	"	"	23.9	02 46	02 46	4
								02 48	02 49	
								02 52 ¹²	02 54	
194487	γ Pupp	21 39.8	16 54	"	"	"	23.9	03 01	03 02	1
								03 04	03 07	
								03 08	03 14	

Dome Temp.....

Transparency Conditions

Good

160

Focus.....

Dome Temp. 65° F

Ending Time L.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 30	2	1 45W	38 27	1-2	6.4	B ₃ me	6-6-6	Be + H	fine
3 34	3	1 02W	46 09	2	6.5	B ₃ me	6-6-6	" 03:40 heavy cirrus N-W.	very poor guiding !!
4 3	4	1 44W	55 18	0-1	7.6	B ₃ ^{Ko} me	6-6-6	" clouds ^{wrong star} bothering this one	too weak
								12/8 Heavy clouds moving in from N and W.	not so good
<p>Holder # 197 loaded with Cramer 1 chiprads - New box needed.</p> <p>We were busy.</p>									

Date Thurs. - Fri. Aug. 14-15/52 Observer We - Hr Julian Day 239

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	D
19451	Z Herculis	17 ^h 53. ^m 6	+15° 09'	F-25"	Hi-Speed	0.008	24.8	20 ^h 38 ^m	22 ^h 08 ^m	1	2 ^h 30 ^m W +	
19452	V 451 Oph.	18 ^h 24. ^m 5	+10° 49'	"	"	"	24.8	22 ^h 15 ^m	23 ^h 25 ^m		2 ^h 15 ^m W +	
19453	{ MVC HD 200725	21 ^h 00. ^m 4	+67° 47'	"	"	"	24.8	23 ^h 39 ^m	SID. TIME 21 36	3	3 ^h W +	
	{ "	"	"	"	"	"	25.0	Sid. Time 21 37	22 57	3	5 ^h W +	
19454	H.D. 223501	23 45.0	61 39	"	"	"	24.9	23 11	23 45	4	03E -	
19455	{ H.D. 12302	01 55.6	59.12	"	"	"	25.0	23 59	01 23	1	07E -	
	{ Flower of sea				O. G. B.							

Dome Temp. 73°F

Focus 15,783

Dome Temp.

Transparency Conditions *Very haze*

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-2359 ^{standard Time} = 21.16 ^{std. Time}

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							<i>watch</i> sidereal clock stopped. (stem pushed)	
22:15	1 ^h 29 ^m W	+15° 10'	1	8.0	F2	6-6-6	Low Baylana (ecl. bin.)	ok
23:25	2 ^h 15 ^m W	+10° 53'	1	7.9	A	6-6-6	Ecl. bin.	ok
21:36	0035 W	+68° 00'	0	(7.2)	B5V	6-6-6	Be star (and central star in NGC 2023)	ok
22:57	0156 W	+68 00	0	"	"	6-6-6	set 8 considerable ground mist	good
23:05	0003 E	+61 59	1-2*	8.2	B3e	6-6-6	* Variable Be Prog. Exposure time miscalculated. Much too short. poor guiding	fine
01:23	0037 E	+59 27	1-2	8.2	B3e	6-6-6	" " poor guiding	fine
						12/8		
							<i>c. sl. to red.</i>	
							2 ph. loaded with Cramers	
							18 Cramers in box.	
							think we need a new pencil or a microscope to find this	
							one.	
							HC SC HTW STW SW	
							Aug 15 0.0 ^s +12.5 ^s +13.0 ^s +1.2 ^m +17 ^s	

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showed 50 visions (and Saxton's better half)
 e Lyrae and ring nebula with 79"
 M. 31 with 4"

Date Sat Sun ^{Aug.} ~~July~~ 16-17/52 Observer ^{Ha} ~~Mo~~ ^{BL} - Mo M² 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.
19456	K Cygni	19 14.8	53.11	1-25	103a-0	.008	22.2	22 13 09 ^{30^h}	22 13.39	1
								22 18 ^{1^h}	22 19	
								22 21 ³	22 24	
19457	B Aquil	19 50.4	06 09	"	"	"	22.2	22 34 ²	22 36	4
								22 37 ⁴	22 44	

Dome Temp..... 68°
Focus..... 15.747
Dome Temp..... 66

Transparency Conditions *Few occasions when sky not cloudy*

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 13-39	53:20	2.11	4.98	Ko III		setting 2	too weak
22 19					6	" 5 ← comp too weak	good
22 24	0 32 W					" 8 (intentionally)	too weak
22 36	06 20	2	4.90	G8IV		setting 2	fine
22 44	0 15 W				6	setting 5 too cloudy to take 3rd	good
						"	
						101:15 E.D.T. - sky completely clouded over only 1st mag stars can be seen	
						02:30 E.D.T. even worse - NUTS! Good Night!	
						The two nuts that hold in place the most northerly bearing of the manual right ascension gear train are very loose. that is the bearing for the shaft that has two bevel gears on it.	
						P.H #1 & #4 are laded with 103a-0 plates	
						" #2 & #3 " " " hi speed plates	

Date ~~Sun July~~ ^{Aug.} 17-18 1952 Observer L. 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.H.
19458	B Herc	16 25.9	21 42	I-25	E-103a-D	set .008		20 54	20 54	4
								20 55	20 56	
								20 58	21 00	
19459	K Ophi	16 52.9	9 32	I-25	E-103a-D	"		21 20	21 21	1
								21 22	21 23	
								21 24	21 27	
19460	V 451 Ophi Focus test	18 24.5	10 49	"	Cromer Hi-speed	"	22.7	21 42	23 22	2
						OTB				

Dist. Temp. 766
Focus 15.75
Dist. Temp.

Star Angle
Dist.

59 W 2

59 W 9

59 W 1

Dome Temp. +66.0°F
 'ocus... 15.754
 Dome Temp.....

Transparency Conditions... Good at first then haze 166
 then clouds.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 52	4			1	3.81	G8 III		Set 1 numbered 18458	good
01 56							9	Set 5	fine
01 50	1	59 W	21 36					Set 9	too at 9
01 01	1			1	4.42	K ₂ II		Set 1 numbered 18459	slut
01 23							9	Set 5 n. poor guiding	fine
01 27		159 W	9 28					Set 9	strong
01 22	2	24 W	10 53	0-1	7.9	A0	6-6-6 18/12	Eclipsing binary haze last half <u>cr. sl. to red</u> P.H. 3 loaded with cranes.	good

Date Mon.-Tues. Aug. 18-19, 1952 Observer We - 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.	Err Angle Ind	D
19461	HD 168957	18 ^h 17. ^m 3	+25° 01'	I-25"	High-Speed	0.008	21.9	20 ^h 17 ^m	20 ^h 45 ^m	3	03E-2	
19462	ζ Herculis	17 ^h 53. ^m 6	+15° 09'	"	"	"	21.9	20 ^h 52 ^m	22 ^h 22 ^m	4	58V+15	
19463	{ M.W.C. 312 HD 180398	19 ^h 11. ^m 3	+12° 56'	"	"	"	21.9	22 ^h 29 ^m	23 ^h 29 ^m	1	48 +15	
19464	{ M.W.C. HD 200725	21 ^h 00. ^m 4	+67° 47'	"	"	"	21.9	23 ^h 40 ^m	00 40	2	11W +6	
19465	{ M.W.C. 346 H.D. 195407	20 26.0	+36 39	"	"	"	22.0	00 49	01 53	3	58W +6	
	{ M.W.C. 409 H.D. 225095	Cannot Pick Up Star.			Suggest	checking	Recorded Positions & Field.					
19466	{ M.W.C. 13 H.D. 9105	01 24.6	62 51	"	"	"	21.9	02 52	03 42	4	03E +6	
19467	{ M.W.C. 10 H.D. 6343	00 59.4	65 26	"	"	"	22.0	03 49	04 24	1	03W +6	
	Flare Test.				O.T.P.							

Dome Temp. 67°

Focus 15.729

Dome Temp.

Dome Temp. 67°F
 Focus 15.729
 Dome Temp.

Transparency Conditions Hazy with few scattered clouds
above 21^h30^m E.S.T.
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0.01 LESS than tabulated.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
20 ^h 43 ^m	0 ^h 03 ^m E	+25°04'	1	Bse 6.9	6-6-6	Be stars.	Only bright stars in field. <i>good</i>	good										
22 ^h 22 ^m	1 ^h 58 ^m W	+15°11'	1-	F2 8.0	6-6-6	2 cl. bis. (Caydon)		good										
23 ^h 39 ^m	1 48.	+13°03'	1	B(3)ne 7.7	6-6-6	Be stars.	Finder field checks spactly with det.	good										
0040	0111W	+67°59'	1	B5mc (7.2)	6-6-6	Be stars	and central stars of NGC 7023	fine										
0153	0258W	+46 51	0	B3e 7.7	6-6-6	Be prog.		good										
0342	0013E	+63 06	0-1*	cB(5)e 7.5	6-6-6	Be prog.	Some haze & ground mist. * NOT constant. <i>poor seeing</i>	poor										
0424	0054W.	+65 43	0-1*	Bsep 7.1	6-6-6	" "	<i>focus good.</i>	fine										
							12/8											
							2 P.H. loaded Cramers'											
							10 Cramers' in Box.											
							<table border="0"> <tr> <td>nc</td> <td>sc</td> <td>M+D</td> <td>STW</td> <td>SCW</td> </tr> <tr> <td>Aug 19</td> <td>-0.5^s</td> <td>+31.9^s</td> <td>+3.0^s</td> <td>+1.4^m</td> </tr> </table>	nc	sc	M+D	STW	SCW	Aug 19	-0.5 ^s	+31.9 ^s	+3.0 ^s	+1.4 ^m	
nc	sc	M+D	STW	SCW														
Aug 19	-0.5 ^s	+31.9 ^s	+3.0 ^s	+1.4 ^m														

Date *Wed Aug 19-20 1953* Observer *G* No. *—* 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.
19468	HD 196133	20 30.3	+44 50	I-25	Hi Speed	0.008	24.0	21 10	21 42	2
19469	δ Aquil	19 41.5	+10 22	"	103a0	"	"	21 49.5	21 50.0	4
								21 50.3	21 57.3	1
								21 51.7	21 53.7	
19470	ϵ Drae	19 48.5	+70 01	"	"	"	"	22 20	22 23	2
								22 22	22 23	
								22 25	22 31	
19471	δ Cyg	21 08.7	+29 49	"	"	"	"	22 49 ^{20s}	22 49	4
								22 50 ^{40s}	22 50	
								22 51 ^{80s}	22 52	
19472	η Pegs	21 39.8	16° 54'	"	"	"	24.0	23 13 ^{40s}	23 14	1
								23 15 ^{80s}	23 16	
								23 16 ^{160s}	23 19	
19473	HR 8726 HR 8832 HD 216946	22 52.1	49° 12'	"	"	"	"	23 34 ^{80s}	23 35	2
								23 35 ^{160s}	23 36	
								23 38 ^{320s}	23 45	

Dome Temp. 72

Focus 15760

Dome Temp.

Transparency Conditions *poor light cloud*

170

Cloudy, clearing at sunset

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		45 01	0	6.62	A0	6-6-6	Shooting out because west cloudy. Sp. binary	fine
00	14E	+10 29	0-1	3.87	K3II?	1	set 1 (Theor)	weak
			0-1			10	set 5	ok
			0-1				set 9	poor guiding fine
20	18W	+70 08	0-1	4.99	K8II?		set 1	ok
			0-1			10	set 5	good
			0-1				set 9	trace
400	42E	+30 03	2	4.40	G8II?		set 1	good, <u>tdy</u>
						10	set 5	ok
							set 9	ok
1.00	47E	+17 10	2	5.30	G5III?		set 1	ok
						10	set 5	ok
							set 9	ok
201	E	+49 29	2	6.10	K5III?		set 1	ok
						10	set 5	ok
							set 9	ok

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Date Jan - Wed Aug 19/20 Observer Or Ho - Mc 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.
19474	R.W. Cep	22 ^h 19.4 ^m	55° 28'	I-8	103a0	008	23.8	00 02	00 54	24
19475	54 Pisc	0 34.2	20 43	"	"	"	24.0	1 12	1 18	1
19476	HR 483 HD 10307	1 35.7	42 07	"	"	"	24.0	2 00	2 01	1
								2 04	2 06	
								2 09	2 19	
19477	HD 15472	2 24.4	70 30	"	"	"	23.9	2 59	3 35	2
19478	α Arie	2 01.5	22 59	"	"	"	23.8	3 59	3 59	4
								3 59	4 00	
								4 02	4 03	
19479	HD 20017	3 07.9	48 19	"	"	"	24.0	4 23	4 47	2
19480	Focus Test	O.T.B.			Hi Speed					
79 F?										

Dome Temp. 66
Focus 15
Dome Temp. 62

Dir. Angle
End
2 1/2 W + 5
1 42 E
48 E
17 E +
23 E
49 E - 4
Lyo

Dome Temp... 66°F

Focus... 15.760

Dome Temp... 63°F

Transparency Conditions... Good

172

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 54	24	09 1/2 W	+55 46	2	8.91	G8I(k)	3-3-3	star is very orange should have a field! miscalculated time setting 2	wk
1 14	1	1 42 E	+21 01	2	7.08	KoIV	3-3	star is white - probably weak setting 8	wk no guiding
2 01	1		+42 29	3	5.60	G2V	6	setting 2	wk
2 06							6	" 5	st
2 14		1 48 E						" 8	st
3 35	2	1 17 E	+70 44	2	8.0	B4ne	3-3-3	setting 2 Tried to set on MWC 29 but field does not check.	st supersaturated 19479
3 59	1	0 5	+23 14	3	3.30	K2[B]		" 2	st
							6	" 5	st
4 03		0 23 E						" 8	st
4 17	2	0 49 E	+48 32	2 1/2	7.9	Bne	3-3-3	" 8 No good	all right

Aug 21
 NC_s SE_c HTW_s STW_s
 -1.0 +10.8 +102.0^s +.3^m

3 ph loaded with 103 a - 0
 Sometime around 3:30 E.S.T one of the mirror fell
 shut. This I did not find out until I went to close them
 Thus the last two exposures may be slightly weak.
 sectors

173

Date Thurs Aug 21/12 1962 Observer Ha - 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.
19480	70 Oph A	18 00.4	+ 2 31	I-25	E103-A-0	Set .008		20 04	20 05:30	4
T								20 07	20 10	
							26.0°C	20 12	20 18	
19481	γ Drac	17 54.3	51 30	"	"	"		20 30	20 30:30	1
								20 32	20 33	
							26.0	20 34	20 36	25
19482	MWC MWC 320	19 41.3	5 44	"	"	"	24.8	20 52	22 22	2
19483	MWC HD 195592	20 27.2	43 59	"	Hi-Speed	"	24.2	22 29	22 57	1
19484	S Cygni	21 08.7	29 49	"	E103-A-0	"		23 07	23 07	-
								23 07	23 08	
								23 09	23 10	
								23 11	23 13	
							24.1	23 15	23 19	
19485	MWC HD 200310	20 57.6	45 47	"	Hi-Speed	"		23 45	23 48	
							24.1	23 50	23 56	

Dome Temp. 72° F

Focus. 15.781

Dome Temp.

Transparency Conditions *fair, clouds low in S. E.*

174

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
20 07		2 31	0-1	5.07	K0 V	0	Set 2	Brighter of visual double	wk
20 10			0-1			6	5		fine
20 15	0 01		0-1			0	8	Temp rising in spectrograph since thermostat set.	strong
20 16		51 31		3.60	K5 III	0	Set 2		fine
20 33						6	5		l str
20 36	0 25		0-1			0	8		strong
22 22	0 22	5 54	0-1	8.5	B5 ne	3-3-3	Be		fine
22 27	0 15	44 10	1	7.2	B1 se	6-6-6	Be		good
23 11				4.40	G8 V	0	Set 0	20 secs.	wk
23 18						0	2	40 secs	wk
23 30						0	4	80 secs.	good
23 33						0	6	150 secs	l str.
23 37	0 08	30 05	1			8	9	Frank phoned - not feeling well. Set on a northern B star and part of wind blew telescope about 20° S. while on	strong
23 46			1	5.2	B3 ne	9-9	Set 1		adeq wk
23 51	0 40	45 59	1-2			9-9	5	- Focusing very very difficult due to light wind. Wind rising & very gusty	fine

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp..... 64°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
0 16 3			5.3	GST6	0	Set 2	l wk										
00 21		0-1			9	5	fine										
00 30	17 05				0	8	lstr.										
						00:45 clouds and haze closing in quickly.											
						2 103-a-0 holders loaded nos. 4, and 1											
						<table border="0"> <tr> <td></td> <td>HC</td> <td>SC</td> <td>HWD</td> <td>STW</td> </tr> <tr> <td>Aug 22</td> <td>-1.0^s</td> <td>+4.3^s</td> <td>+0.5^s</td> <td>+2^m</td> </tr> </table>		HC	SC	HWD	STW	Aug 22	-1.0 ^s	+4.3 ^s	+0.5 ^s	+2 ^m	
	HC	SC	HWD	STW													
Aug 22	-1.0 ^s	+4.3 ^s	+0.5 ^s	+2 ^m													

Dome Temp. +63°F
 Focus 15.685
 Dome Temp. +54°F

Transparency Conditions O.K.

178

2225 Fireworks at Ex. very nice.

Ending Time
L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
151W	15 08	0!!	8.0	F ₂	3-3-3	Baglow. Ecl. Bin. Set. 2.	fine
33W	+0459	0!	^{7.8} 8.1	F ₅	3-3-3	Ecl. Bin. " 8.	good
2 37W	+1813	0-1	6.9	B ₉ sex	6-6-6	Be. Prog. <i>Very poor guiding.</i>	weak
0 17W	+55 17	1½	7.6	B ₁ e	6-6-6	" <i>Declination setting motion stopped working. O.K. after.</i>	poor guiding fine
0 06E	+48 01	2	4.7	BaneB	6-6-6	Setting 2- Be prog.	fine str.
0 04W					6-6-6	" 5 <i>The very-slow-motion button that moves the telescope north in declination does not move the telescope. The south button is O.K.</i>	too str.
0 14W					6-6-6	" 8	too str.
0 25E	+70 49	2-3	8.0	BaneB	6-6-6		fine
0 46E	+62 12	3	6.5	B ₂ e	6-6-6		fine
					20-14		all right

Plate Holder #4 loaded with 103u-0

Dome Temp... 59°F.
 Focus... 15.684
 Dome Temp... 56°F

Transparency Conditions... Good except for clouds close to horizon, especially in south.

Ending Time
L.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							-19 ^h 30 ^m LST = 22 ^h 45 ^m EST EST, 2 nd slow than my watch Both sidereal watches stopped. I suspect they were simply run down. Col. Bin. Sidereal watch 5 th slow.	
0 54		+10° 53'	0 → 0.1	7.9	A0	6-6-6		good
01 19	0 17 W	+48 25	1	5.2	B3 (ne)	6-6-6	(Focus set) Be was out.	fine
03 50	3 44 W	+56 30	0	8.1	B1 (se)	6-6-6	Loaded plates - spotted over - not focus.	fine
04 51	0 55 E	+41 35	0	7.2	B3 (ne)	6-6-6 10/7	04 30 light cirrus haze blowing W → E slightly poor guiding center slightly toward but all right	
							P.H. # 2 loaded He Speed.	
							# 4 " 107a 0	
							He sc MTW STW SW Aug 25 -1.0 ^s +57.2 ^s +10.0 ^s +1.1 ^m -3 ^s	

Dome Temp... 69°F
 Focus... 15.745
 Dome Temp... 62°F

Transparency Conditions

Good with only haze and faint clouds low on W and S.
 Sunday Afternoon - showed 75 visitors 79" sun with iceostat.
 sold one observer's handbook !!!

182

Ending Time
 E.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 50 ^m W	-10° 15'	0	8.1	B3e	3-3-3	Be star. ^{Set 2} Guided while we went off to fix 19th, and took home again.	fine
2 ^h 20 ^m W	+10° 54'	0	7.9	A0	3-3-3	Ecl. bin. ^{Set 8.}	fine
1 09 W	+68° 00'	2	(7.2)	B5Ve	6-6-6	Be star (Central, at VSC 7023). 15" out at mid app. while opening.	fine
1 56 W	+45 02	2+	6.62	A0	6-6-6	Sp Bin.	fine
1 14 W	+57 31	2	7.0	B0ne	6-6-6	Be ^{Poor guiding.} Looks like right star. may be wrong star.	fine
1 07 E	+54 19	2	8.6	B3ne	6-6-6	" ^{wasted 20 min trying to refocus} Looks like right star. may be wrong star.	str
1 20 E	+48 31	2 1/2	7.9	Bne	6-6-6	" ^{Poor guiding.}	good
1 3 E	+63 20	3	8.1	B3e	6-6-6	" ^{Poor guiding.}	good
					20-14		all right

3 ph. loaded - hi speed plates.

Aug 1952
 Date (Apr) 25/26 Mon/Tues Observer Mo - Ha Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +26.0	Starting Time E.S.T.	Ending Time E.S.T.	P
19506	MWC 308 HD 175863	18 52.3	+59 53	1-25	Hi Speed	.008	+26.0	19 56 ²⁸	20 24	1
19507	Z Herc	17 53.6	+15 09	"	"	"	+26.0	20 32 ¹⁵	21 46	2
19508	MWC 310 HD 177648	19 00.5	+23 11	"	"	"	+26.0	21 55 ²⁶	22 21	4
19509	MWC 343 HD 194335	20 20.0	+37 10	"	"	"	+26.0	22 36 ^{3'15"}	22 40	4
								22 49 ^{6'30"}	22 51	2
								22 55 ^{13'00"}	23 08	4
19510	MWC 353 HD 198478	20 45.5	+45 45	"	"	"	+26.0	23 26 ^{1'15"}	23 28	2
								23 33 ^{2'30"}	23 36	0
								23 40 ^{5'00"}	23 45	0
19511	MWC 381 HD 208682	21 52.9	+64 52	"	"	"	+26.0	00 9 ^{3'}	00 12 ^{1/2}	1
								00 13 ⁶	00 19	0
								00 20 ^{12'}	00 32 ^{1/2}	0
19512	E Cygni	20 42.2	33 36	"	E 103-a-0	"		00 39	00 39	2
								00 40	00 41	
								00 42	00 43	
							25.9	00 45	00 47	

Plate Temp 76
 Focus 5.792
 Plate Temp

Star Angle
 Ind
 Dec
 30E +5
 50W +1
 8W +2
 18W +3
 29W
 46W
 41W +4
 49W
 55W
 18W +5
 25W
 38W
 03 33

ome Temp. 76

ocus. 15.79.2

ome Temp.

Transparency Conditions Few clouds, Hazy in west

184

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
20 24	0 30 E	+59 58	1	6.9	B ₄ e	6-6-6	Be	fine	
21 46	1 50 W	+15 10	1-2	8.0	F ₂	6-6-6	Baglow	l. wh	
22 21	1 18 W	+23 15	1	6.9	B ₃ e	6-6-6	Be	Poor guiding wh	
22 40	0 18 W	+37 20	2	5.7	B ₃ ne	6-6-6	Be Set 2	l. wh	
22 51	0 29 W					6-6-6	" " 5	fine	
23 00	0 46 W					6-6-6	" " 8	str	
23 22	0 41 W	+45 57	2 1/2	4.9	B ₂ sec	6-6-6	Be Set 2	wh	
23 36	0 49 W					6-6-6	" " 5	l. wh	
23 45	0 58 W					6-6-6	" " 8	fine	
00 12	0 18 W	+65 08	2	5.8	B ₃ ne	6-6-6	Bo set 2	l. wh	
00 19	0 25 W					6-6-6	" " 5	Poor guiding fine	
00 32	0 38 W					6-6-6	" " 8	Poor guiding str	
00 59			1-2	3.64	KO III	0	Std. Lum. set 1	Poor guiding good	
						0	3	40 sec.	str
						0	5	60 sec.	str
1 03	33 50					9	8	120 "	Poor str

Date Aug 25/26, 1952 (cont'd) Observer -Ha (cont'd) 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	Sec Angle End	D
19513	RW Cep	22 19.4	55 28	I-25	E103-A-Q	set .008	25.9°C	00 56	2 06	3	1 45	51
19514	NR 8726 HD 216946	22 52.1	49 12	"	"	"	25.8	2 10	2 16	4		41
								2 16	2 28		1 34	
19515	NR 483 HD 10307	1 35.7	42 07	"	"	"		2 36	2 37	1		42
								2 38	2 39.40			
								2 40.30	2 43 10			
							25.8	2 45	2 50		0 49	
19516	54 Pisc	0 34.2	20 43	"	"	"		2 55	3 03	2		21
							25.8	3 03	3 19		0 43	
19517	T Ceti	1 39.4	-16 28	"	"	"		3 30:00	3 30:40	3		
								3 32:30	3 33:50			
								3 35	3 37			
							25.8	3 40	3 44		0 03	
19518	α Arie	2 01.5	22 59	"	"	"		4 02	4 02	4		
								4 04	4 04			
								4 05	4 05			
							25.8	4 06	4 06			
								4 10 07	4 12 08		0 08	2

Transparency Conditions *very good*

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Dome Temp.....

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 36	W 1 45	55 46	2	8.41	G8 Ia	3-3-3	Std Lim. - field as for 19474, * very orange	wh
2 40		49 29	2	6.10	K5 Ib	0	" " Set 3	wh
2 58	W 1 34		2			8	Set 7	good
2 57		42 24	2	5.60	G2 V	0	" " Set 1	l wh
2 59						0	3	good
2 50	E 0 49		2			8	8	fine
3 03		21 00	3	7.08	K0 V	0	" " Set 3	str
3 9	V 0 43		2-3			9	7	good
3 30-40			0	4.65	G8 V	0	" " Set 1	fine
3 31			0			0	3	Image is a spectrum
3 31			0			0	5	good
3 44	V 0 03	-16 10	0			9	8	fine
4 02			1-2	3.30	K2 III	0	" " Set 1	str
4 05						0	5 sec	good
4 08						0	2 1/2	10 sec
4 08	V 0 08	2 315	1-2			0	4	20 "
4 08						0	5 1/2	30 "
4 08						0	7 1/2	150 "

Home Temp.....

Transparency Conditions.....

188

ocus.....

Home Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 27				4.93	K3Ib	0	Star Lum. Set 1	wh
4 30						0		good
4 33						0		fine
4 40	5 0 07	55 42	2			9		fine-str
							PH#2 loaded with Hi-Speed plate	

Dome Temp. $+79^{\circ}$

Focus 15.832

Dome Temp.

Transparency Conditions Fair some haze,
heavy haze S and W.

1.90

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2131 147W	1509	0-1*	8.0	F ₂	3-3-3	*Variable / Ecl. Bin. Baglow. Set. 2	good
2258 235W	+1053	0	7.9	A ₀	3-3-3	Ecl. Bin. " P	ok wke
0103W	6800	0-1	(7.2)	B _{3ne}	6-6-6	Be. poor guiding	fine
0156W	4503	1	6.62	A ₀	6-6-6	Sp. Bin.	fine
0138W	6142	1	6.6	B _{3ne}	6-6-6	Be.	fine
0038E	4610	1	6.5	B _{3ne}	6-6-6	Be.	fine
000508W	2822	0-1	8.89	K ₂	6-6 ^{msb}	AG 0400 clouds west. 0419 - power skipped for about 1 sec.	weak of c. to rec

Plates #1 and 2 loaded with Cromer Hi Speed
#3 contains 103a 0
2 plates in Cromer box

Aug. 27	MC	SC	MTW	STW	SW
	-0.5	+66.8	+14.0	-0.1	+13 ^s

Date Wed-Thurs. Aug. 27-28, 1952 Observer We- Sa 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.
19527	Σ Herculis	17 ^h 53 ^m .6	+15° 09'	I-25	E 10320	0.008	29.4	19 ^h 59 ^m	21 ^h 19 ^m	3
19528	V 451 Oph	18 ^h 24 ^m .5	+10° 49'	"	"	"	29.3	21 ^h 23 ^m	23 ^h 15 ^m	5
19529	HD 210334	22 ^h 04 ^m .6	+45° 15'	"	Hi-speed	"	29.3	23 ^m 28 ^m	24 ^h 10 ^m	1
19530	HD 199908	20 55.0	+55 06	"	"	"	29.3	00 16	00 40	2
	"	"	"	"	"	"	"	00 41	01 05	"
19531	"	"	"	"	"	"	"	01 06	01 35	3
	"	"	"	"	"	"	"	01 36	02 02	"
	"	"	"	"	"	"	"	02 03	02 27	"
19532	"	"	"	"	"	"	"	02 28	02 52	4
	"	"	"	"	"	"	"	02 53	03 17	"
19533	HD 210324	22 04.6	+45 15	"	"	"	"	03 30	04 30	1
19534	π Peg	22 05.5	+32 71	"	"	"	"	04 40 ^{90m}	04 41.5	2
	"	"	"	"	"	"	"	04 42 ^{3m}	04 45	"
	"	"	"	"	"	"	"	04 46 ^{1m}	04 52	"

Date Temp. 79°
From 15.751
Date Temp. 62°Dir. Angle
End

30° W +1

25° W +1

11° E +4

15

217 W

138 W

24 W

32 W +45

+32

453 W

Dome Temp. 79°F

Focus 15.851

Dome Temp. 69°F

Transparency Conditions *Very hazy, but otherwise clear*
Heavy ground mist.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 43	1 ^h 30 ^m W	+15° 70'	0	8.0	F ₂	5-3-3	Ecl. bin. set 2	good
23 15	2 ^h 56 ^m W	+10° 51'	0.4	7.9	A ₀	3-3-3	Ecl. bin. set 8	good
24 00	0 ^h 11 ^m E	+45° 30'	1	7.3	G ₅	6-6-6	Sp. bin. set 2	<i>slightly poor guiding</i> intentionally strong sp. fine
00 40.2		+55 18	1	^{n vis.} 7.3	F ₂	6-6-6	Hossack Ha Set 5	wh
01 05	02 17 W	"	1	"	"	6-6-6	" Set 8	Exposure short about wh
01 53	"	"	1	"	"	6-6-6	" Set 1	6-10 min each and wh <i>poor guiding</i>
02 21	"	"	1	"	"	6-6-6	" Set 5	per instructions of set wh <i>poor guiding</i>
02 27	03 38 W	"	1	"	"	6-6-6	" Set 8	Because necessary to keep off. shot - point wh <i>poor guiding</i>
02 52.4	"	"	1	"	"	6-6-6	" Set 1	<i>poor guiding</i> wh
03 17	04 29 W	"	1-2	"	"	6-6-6	" Set 5	too wh
04 20	04 32 W	+45 30°	1	7.3	G ₅	6-6-6	Sp. Bin recommended intentionally strong sp. ^{2x chart time} fine	<i>poor guiding</i>
04 41.52		+32 56	1-2	4.6	F ₅	18		wh <i>poor guiding</i>
04 45						6-6-6		wh <i>poor guiding</i>
04 52	04 53 W					6-6-6	this one probably very weak - one H. of a time trying to keep it still.	wh

Dome Temp. 78°
 Focus 15.851
 Dome Temp.

Transparency Conditions cloudy

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 36 ^m 1 ^h 27 ^m E	+47° 35'	0	4.16 via	K5+A	6-6-6	Ed. bin. lot 2 clouds throughout exp.	too weak
21 ^h 05 ^m 0 ^h 55 ^m E		0			6-6-6	lot 5. Still cloudy	weak
21 ^h 58 ^m 0 ^h 05 ^m E		0			6-6-6	lot 8 still cloudy Little indication of clearing, so closed up	at perigee - sat. sat.

Holder 2 contains Crater Hi - fixed

Ho, Mo, Gu
 Sat Aug 30th / 52 - Showed visitors & Lyrae until collection
 jumped and by 11 - Perry up - showed Lyrae used exposure meter

	HC	Sc	HRW	SW	SW
Aug 29	-1.0 ^s	+74.8	+12 ^s	0 ^m	-10 ^s
Sept 2	-1.5 ^s	+32.6 ^s	+12 ^s	-1 ^m	-25 ^s

195 Sun Aug 31 showed 25 visitans and two pigeons
 74" telescope - Mo

Date Jan. Sept 2 / 1952 Observer HO-GU 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.	Ex. Angle and	D.
_____	<i>E Cygnus</i>	<i>20^h 44.2^m</i>	<i>33° 36'</i>			<i>.008</i>	<i>20.3</i>	<i>21^h 45^m</i>				
<i>Exposure meter tests</i>	<i>S Cygnus</i>	<i>21 10.8</i>	<i>30 01</i>			<i>"</i>	<i>"</i>	<i>22 15</i>				
_____	<i>9 Peg</i>	<i>21 42.2</i>	<i>17 08</i>			<i>"</i>	<i>20.1</i>	<i>22 35</i>				
_____	<i>HR 8926 HD 316946</i>	<i>22 54.3</i>	<i>44 28</i>			<i>"</i>	<i>20.0</i>	<i>23 00</i>				
_____	<i>HO 213025</i>	<i>22 25.8</i>	<i>26 46</i>			<i>"</i>	<i>"</i>	<i>23 15</i>				
_____	<i>HO 213178</i>	<i>22 26.8</i>	<i>28 47</i>			<i>"</i>	<i>"</i>	<i>23 30</i>				

196

Dome Temp.....

Transparency Conditions *Poor*.....

Focus.....

Clouds, - pretty well cleared by 21h15^m

Dome Temp.....

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						<i>Counts/min over dark current</i>	
	33 42	0	3.64	K ₀		135 (2.13) ^{log}	
	30 13	00	4.40	G ₈		85 (1.92)	
	17 19	00	5.30	G ₅		45 (1.65)	
	49 40	00	6.10	K ₅		26 (1.41)	
	26 59	00	7.27	K ₀		12 (1.08)	
	29 00	00	8.28	K ₀		1 1/2 (1.15) ^{log} <i>(probably affected by light cloud)</i>	
						<i>Closed in.</i>	
						<i>Wed. Sept. 3. Re-collimated the telescope in daylight with the aid of Wom and Mr. L.</i>	

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Date Wed Sept 3-4 1952 Observer L - MK 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.
19536	Z Herc.	17 53.6	15 09	I-25	E-103a0	set 008	18.5	20 39	21 59	1
19537	M.W.C. 310	19 00.5	23 11	"	Hi-Speed	"	18.4	22 04	23 04	2
19538	H.D. 196133	20 30.3	44 50	"	E-103a0	"	18.3	23 07	23 31	3
19539	R.W. Cephei	22 19.4	55 28	"	"	"	18.2	23 37	01 07	4
19540	32 Cyg	20 12.4	47 24	"	Hi-Speed	"	18.2	01 22	01 23	1
01 26								01 58		
01 29								01 33		
19541	MWC 79 HD 24650	03 49.2	44 38	"	Hi-Speed	"	18.2	01 57	03 15	2
19542	MWC 82	04 05.7	41 53	"	"	"	18.2	03 29	04 25	3
	MWC 88	04 37.3	40 36	"	"	"				

Dome Temp. + 62° F
 Focus..... 15.688
 Dome Temp. + 53° F

Transparency Conditions Good

Clouds earlier in the evening.

Reset the finder after 10 days collimating
 Everything is now in line L.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 59	2 37 W	15 08	0-1	8.0	F ₂	3-3-3	Binary	fine
23 04	2 35 W	23 14	0	6.9	B _{3e}	6-6-6	Be prog.	good
23 31	1 33 W	45 01	0	6.62	A ₀	3-3-3	Binary	fine-etc
01 7	1 22 W	55 45	0-1	8.41	G ₈	3-3-3	Std. Lum.	L work
		47 35	1	4.16	K _{5+A}	6-6-6	Binary	work
						6-6-6		5
	3 ^h 54 W	44 47				6-6-6		8
	2 03 E	44 47	0	7.8	B _{3ne}	6-6-6	Be prog.	good
	1 10 E	41 58	0-1	7.6	B _{3ned}	6-6-6		L work
				6.1	H _{nce}		impossible to bring the star at focus.	
							no focus to L. Ph 4, 1, 2 loaded with Hi-Speed C.	

Thursd. / Fri.

Date Sept. 4/5, 1952 Observer BK - Ma 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.F.	Star Angle East	Dist.
19543	MWC 350	20 34.0	-2 46	I-25	Hi Speed	008	22.2	20 19	20 33	4	15E-2	
19544	Z Her	17 53.6	15 09	"	E-103aD	"	22.0	20 53	21 13	3	17E-3	
19545	RW Cep 1	22 19.4	55 28	"	"	"	22.0	22 36	1 10	4	27W	
19546	E Cygni	20 42.2	+33.36	"	"	"	+22.0	1 23	1 23	3		
1 25								1 26				
1 27								1 28			23W	
1 51								2 51	4	16E+9		
19547	HD 30353 MWC 83	04 41.8	+43 06	"	"	"	+22.0	1 51	2 51	4	16E+9	
19548*	HD 26906 MWC 93	04 10.1	+45 58	"	"	"	+22.0	3 06	4 16	3	18E+9	
19549	HD 31293	04 49.4	+30 24	"	"	"	+22.0	4 25	4 51	4	22E+3	
	Focus TEST	O.T.B.										
* Wrong star. This is south component; we need north one.												

Dome Temp. $+65^{\circ}$
 Focus 15.732
 Dome Temp. $+60^{\circ}$

Transparency Conditions *good*

200

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10:00	1 15E	-2 36	1-2	6.3	B9-e	6-6-6		fine
10:00	3 09W	+15 08	1-0	8.0	F2	3-3-3		str
11:00	1 27W	+55 45	1-2	8.41	G8	3-3-3	lost 20 min focusing - Mo	good
12:30		+33 48	2	3.64	Ko III		set 1	slightly poor guiding str
26						9	2	str
21	3 23W						3	too str
251	3 16E	+43 13	1-2	8.3	Gop	3-3-3	Bidelman's Star	fine
416	31 18E	+46 07	1	8.6	B9me	3-3-3	Be	too str
451	1 22E	+30 28	1 1/2	7.5	Aoep	3-3-3	Be	fine
						10-7		all rips
<p>plate holders #1 & #2 - Hi Speed</p> <p>plate holder #3 - 1039-D</p> <p>MC SC MTR SW SW</p> <p>exps -1.5^s +46.6^s +13.5^s +1.5^m +20^s</p>								

Transparency Conditions worse than poor!

Dome Temp. 56°F
 Focus 12.920
 Dome Temp. 46°F

Sept. 5. Changed to
 12 1/2" Camera

25" was Focus 15.732
 12 1/2" is Focus 12.920
 Silt 23.15 Silt. 20.30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 22 3	14 W +28.00	0	8.71	G5	1-1-1	AG 25 <i>looks like earlier type remaining south of star.</i> clouds 21 45	wh
23 36 4	51 W +25 15	1/2	8.42	Mo	1-1-1	"	wh
23 5 3	05 W +45 02	1/2	6.6	A0	1-1-1	Sp. bin. I realized too late that I was to use a Hi-Speed plate here.	fine
20 43	2 49 W 25 26	0	8.23	K5	1-1-1	AG	good
20 5	3 20 W 27 24	0	8.89	K5	1-1-1	"	good
1 12	0 03 W -00 40	0	7.5	K0	1-1-1	Std. veloo. Close to the moon	fine
1 12	1 12 W 61 00	0	7.96	A0	1-1-1	Kapt. Area W. of star? its fine <i>Late B - sp. field check alright</i>	fine
1 28	1 28 W 25 48	0	8.33	G5	1-1-1	AG 25	fine
0 46	0 46 W 16 37	0	7.9	A0	1-1-1	Kapt. Area	fine
						4/6 ref. 10; at ref 8 mistake	no text
						Pl 1, 2 loaded with Hi-speed plate	

Sept 8 Mc Sc Myr STW Sw
 -1.7^s +57.5^s +10.3^s +.4^m -11^s

Date Sun/Mon. Sept. 7/8 Observer Mc - 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.	Hour Angle End	Dev
19559	HD 156563	17 13.2	+ 25 08	I-12	E103-a-0	net .008	17.8	19 56	21 10	3	2 15	25
19560	HD 172311	18 34.4	+ 28 13	"	"	"	18.0	21 18	22 46		2 15	25
19561	HD 185151	19 32.6	+ 27 39	"	"	"	17.9	22 23	23 13	3	2 15	25
19562	HD 193488	20 15.4	+ 27 06	"	"	"	17.9	23 19	0 05		2 15	25
19563	HD 205626	21 31.5	+ 25 55	"	"	"	17.5	00 12	0 107	3	2 15	26
19564	H.D. 205627	21 31.5	25 55	"	"	"	17.5	0 1 11	0 2 01	4	3 15 W	26
19565	H.D. 3765	00 35.3	39 40	"	"	"	17.4	0 2 08	0 2 50	3	0 4 W	39
19566	A.G. 710	01 08.5	25 45	"	"	"	17.4	0 3 03	0 4 59	4	3 40 W	26
	} Focus		} Test		O.T.B.							

Dome Temp. 55°F

Transparency Conditions *variable - good*

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ocus. 12:920

Dome Temp. 50°F

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:14	2 45W	25 04	0	8.91	G5	1-1-1	AG 25	fine
01:24	2 30W	28 15	0-1	8.91	K0	1-1-1	"	fine
01:34	2 29W	27 46	0	8.54	K0	1-1-1	" <i>Comp. overexp., suspect flare</i>	fine
01:44	2 38W	27 15	0	8.57	G5	1-1-1	" <i>C2H emission</i>	too str
01:54	2 224W	26 09	0-1	8.56	G0	1-1-1	A.G. Preceding <i>Faint Auror. in N.W.</i>	fine
02:04	2 315W	26 09	0	8.56	G0	1-1-1	" Following <i>0058 Seeing getting looser.</i>	h.v. str.
02:14	2 104W	39 56	0	8.52	K5	1-1-1	Std. Vel. <i>0220 A little high cirrus</i>	str.
02:24	2 40W	26 00	0	8.99	K0	1-1-1	A.G. <i>0315 Occasional light cloud</i>	h.v. str.
						4/3		all right
							P.H. # 1 & 2 Loaded Hi-Speed.	
							" # 3 & 4 " E103a-0	
							8 E103a-0 in Box	
							P Hi-Speed	

Dome Temp. 63°F.

Focus 12,920

Dome Temp. 56°F.

Transparency Conditions *Very haze with scattered ci at start*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 17 ^m W	+25° 56'	0	non	M8	1 ^s -1 ^s -0	AB 25°-30° Bottom of slit in dome cut by in front of filter paper 20 ^h 30 ^m too wh	
2 ^h 38 ^m W	+4° 59'	0-1	7.8/8.1	F5	1 ^s -1 ^s -1 ^s	Ecl. bin Comp should have been 3-3-3. Very slight flexure. Slightly poor guiding	whk
4 ^h 48 ^m W	+24° 55'	10	8.85	K5	1-1-1	AG 25°-30° Clouded over at 22 ^h 50 ^m	whk
0 0 9 E	+30° 24'	1	8.2	K0	1-1-1	Kapteyn drea No 67. Considerable cloudiness. spectrum must be wrong star. Uncertain of filter	
0 27 W	+14 48	1	7.61	A2	1-1-1	Kapteyn # 91	str
0 59 W	+62 10	1	7.6	A0	1-1-1	" # 19 slightly cloudy	str
1 17 W	+44 14	1+	8.0	A0	1-1-1	" # 43 clouds 01 30. spectrum A5 or F slightly poor guiding	str
0 15 W	-00 40	1 1/2	7.5	K0	1-1-1	std. vel. slightly cloudy spots spoiled	whk
0 35 E	+46 52	2	7.9	F0	1-1-1	Kapteyn # 22	str
0 12 E	+59 39	2	8.0	A.3	1-1-1	" slightly poor guiding	str
0 10 W	+61 34	2	8.0	A0	1-1-1	" slightly cloudy	str
0 23 E	+74 31	1 1/2	8.0	A0	1-1-1	" ph. # 2 - H. Speed	str
					6-4	ph. # 1, # 3, # 4 - E 103a-0	str

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Date June Sept 9-10 1952 Observer L. 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.	Star Angle Ecl.	D.
(19579)	HD 156002	17 10.0	26 56	I-12 $\frac{1}{2}$	E-103-0	set .008	22.6	19 40	20 24	1	110 W	2
19580	" 163969	17 53.8	28 15	"	"	"	22.7	20 28	21 06	3	88 W	2
19581	" 164079	17 54.4	27 59	"	"	"	22.7	21 10	21 42	4	44 W	2
19582	" 187460	19 45.0	29 38	"	"	"	22.7	21 46	22 22	1	34 W	2
19583	" 190787	20 01.6	27 51	"	E-103-0 E-103-0	"	22.7	22 26	23 04	2	59 W	2
19584	AG. 11990	20 55.7	28 53	"	"	"	22.7	23 08	23 36	3	37 W	2
19585	" 12385	21 16.5	29 42	"	"	"	22.7	23 42	00 08	4	48 W	2
19586	" 13194	22 03.6	+26 33	"	"	"	22.7	00 11	00 39	1	32 W	+26
19587	HD 216465	22 48.0	+28 54	"	"	"	22.6	00 43	01 03	2	2 W	+28
19588	HD 221037	23 23.6	+61 22	"	"	"	22.6	01 12	01 22	3	55 W	+61
										4		

 Date Temp. 72
 Time 12.92
 Date Temp. 65

Transparency Conditions *Light Hazy*

Dome Temp. *72°F*

Focus *12.920*

Dome Temp. *65°F*

Very hazy in West.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 24	2 10 W	26 55	1	8.88	G5	1-1-1	A.G. 25 <i>Right star. 2nd spectrum (much) earlier.</i>	<i>wp. one fine</i>
21 26	2 08 W	28 15	1-2	8.81	G5	1-1-1	"	<i>fine</i>
21 42	2 44 W	28 00	1-2	8.60	G0	1-1-1	"	<i>fine</i>
22 22	1 34 W	29 46	2	8.98	K0	1-1-1	"	<i>str</i>
23 04	1 59 W	27 59	2	8.95	M0	1-1-1	"	<i>good</i>
23 16	1 37 W	29 05	2-3	8.95	G0	1-1-1	"	<i>fine</i>
23 28	1 48 W	29 56	2-3	8.86	K0	1-1-1	"	<i>good</i>
00 39	1 32 W	+ 26 49	2-3	8.96	G5	1-1-1	"	<i>wh</i>
01 32	1 12 W	+ 29 10	2-3	8.49	G0	1-1-1	"	<i>fine</i>
01 22	0 55 W	+ 61 39	2-3	7.9	A0	1-1-1	Kapteyn. Tried HD 225034 - appears <u>double</u> in periscope Cassegrainian guiding and setting buttons do not start any motors. - Newtonian O.K.	<i>str</i>
							4. ph. loaded - E-103a-O, 9 plates in Kodak box	
							MT SC MTW STW SW	
							-2.0 ^s + 66.3 ^s + 9.0 ^s + 5 ^m + 5 ^s	

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Date Wed Sept 10-11, 1952 Observer Ha - PK 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	Exp Angle Incl	Dev
19589	HD 142929	15 52.2	25 28	I-12	E103A-0	Set ,008	28.7	19 16	19 56	1	304	25
19590	HD 156454	17 12.6	26 41	"	"	"	28.6	20 04	21 40	2	248	26
19591	HD 188015	19 48.0	27 51	"	"	"	28.5	21 08	22 18	3	130	27
19592 (a)	HD 199908	20 55.0	55 06	"	"	"	28.3	22 36	22 50	4		55
(b)								22 50	23 04			
(c)								23 05	23 17			
(d)								23 17	23 31			
19593	HD 224085	23 49.9	28 06	"	"	"	28.2	23 38	00 04		045	28
19594	AG 13568	22 31.2	+29 35	"	"	"	28.2	00 12	01 12		150	29
19595	HD 8779	01 21.4	-00 55	"	"	"	28.2	01 32	01 46		035	30
19596	HD 7284	01 08.0	58 17	"	"	"	28.2	02 50	02 16		007	31
19597	HD 8013	01 14.5	60 25	"	"	"	28.1	02 28	02 44		020	32
19598	HD 14202	02 12.7	13 00	"	"	"	28.1	02 54	02 24		011	33
19599	HD 17456	02 42.9	46 44	"	"	"	28.1	03 35	03 55		011	34
19600	HD 18337	02 51.7	59 11	"	"	"	28.0	04 04	04 26		014	35

Dome Temp. 82°F
 Focus 12.920
 Dome Temp. 68°F

Transparency Conditions Very hazy near horizon,
 light clouds low in N and W

210

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
19 56	3 04	25 18	1-2	8.79	G5	1-1-1	AG 25	fine	
21 49	2 48	26 37	1-2	8.78	G5	1-1-1	" In Bass.  Right star?	good	
22 51	1 30	27 58	0	8.96	G5	1-1-1	"	late	
22 50		55 18	1	7.59	F2 II	1-1-1	} Set 1 (field like 19530) Light + possibly sp. variable } Set 3 1/2 } Set 6+ } Set 9 accidentally blew old guiding frame to str + replaced it. Remaining 2 spares to str seem to have broken bits stuck in them		
23 4			1			1-1-1			
23 7			1-2			1-1-1			
23 31	1 37		1			1-1-1			
23 04	0 45	28 18	1	8.12	K0	1-1-1	AG and known sp. bin	fine	
23 45	1 50	29 52	1-0	8.95	G0	1-1-1	AG 25	str	
23 48	0 35	-00 39	0-1	7.5	K0	1-1-1	Std. vel.	fine	
23 51	0 07	58 34	0	7.62	F5	1-1-1	Kept Area	fine	
23 52	0 29	60 44	0	7.66	A0	1-1-1	"	fine	
23 53	0 11	13 14	0	7.90	A5	1-1-1	" out of focus?	fine	
23 54	0 11	46 58	1	7.9	A2	1-1-1	"	str	
23 55	0 34	59 25	1-0	7.85	A0	1-1-1	"	late	

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Date Thurs. - Fri. Sept. 11-12, 1952 Observer We - Bo - 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.
19602	HD 136274	15 ^h 14. ^m 7	+26° 04'	I-12 ^{1/2}	E-1032-0	0.008	29.4	19 ^h 33 ^m	20 ^h 11 ^m	1
19603	AG 7774	16 ^h 38. ^m 0	+25° 37'	"	"	"	29.4	20 ^h 19 ^m	21 ^h 29 ^m	2
19604	V ^{566 Oph} HD 163611	17 ^h 51. ^m 9	+5° 00'	"	"	"	29.4	21 ^h 38 ^m	22 ^h 28 ^m	3
19605	HD 163331	17 ^h 50. ^m 5	+27° 37'	"	"	"	29.2	22 ^h 37 ^m	23 ^h 33 ^m	4
19606	HD 197550	20 ^h 39. ^m 3	+29° 51'	"	"	"	29.1	23 ^h 41 ^m	00 55	1
19607	H.D. 3765 <i>Home best</i>	00 35.3	39 40 <i>0.8 B.</i>	"	"	"	29.0	01 02	01 58	2

Dome Temp. 80 °F.
 Focus 12,930
 Dome Temp.....

Very focused at 12,930

Transparency Conditions *Very hazy with scattered clouds (but clearing later)* 214

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 11 ^m	4 ^h 00 ^m W	+25° 54'	1	8.3	G ₀	1 ⁵ -1 ⁵ -1 ⁵	AG 25°	fine
21 ^h 29 ^m	3 ^h 55 ^m W	+25° 30'	1-0	8.9	G ₀	1-1-1	" field of 74" (with at 2. price) l. sub	
22 ^h 2 ^m	3 ^h 40 ^m W	+4° 58'	0-1	7.8/8.1	F ₅	1-1-1	Ecl. bin. ACi started forming line 20 ^h 50 ^m -21 ^h 15 ^m	good
23 ^h 33 ^m	4 ^h 47 ^m W	+27° 35'	0-1	8.6	K ₀	1-1-1	AG 25° some scattered C.I.S.	l. sub
00 55	3 20 W	+30° 02'	0	8.8	K ₀	1-1-1	" 2005 Considerable light cloud	good
01 58	00 27 W	39 55	0	8.5	K ₅	1-1-1	Std. Vel. 0110 Considerable Cloud approaching from N.	str
						4/3	0120 Star constantly being blotted out by cloud for short periods.	all right
							0213 Much cloud & Haze A very Poor Night. Closed Up.	
							P.H. # 3 & 4 Loaded E 103-a-0 4? Pl. in E 103-a-0 Box ? Crammers in Cramer Box.	
							<div style="display: flex; justify-content: space-around; font-family: monospace;"> HC SC MPU STW SW </div> <div style="display: flex; justify-content: space-around; font-family: monospace;"> Sept 12 -2.0^s +12.9^s 15.0^s 1.4 -6^s </div>	

Dome Temp... 69°F

ocus... 12.930

Dome Temp... 64°F

Transparency Conditions cloud at starting
very good at 24ⁿ00^m

218

Reading Time
P.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality															
	29 47	1-0	8.9	M0	1-1-1	AG 25 Broken clouds. Too guiding 6 landed ant phant 21:30- 3 ph. loaded 103a-0	ok															
53W	+26 48	1/2	8.96	G5	1-1-1 6-4	AG 25 clouds in south and east at 23:30 clear by 24:00 lightning in north afraid of rain - closed up.	ok all right															
						2 ph. loaded 103a-0																
						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>HYW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Sept 17</td> <td>-32^s</td> <td>+30^s</td> <td>-0.1-2^s</td> <td>+3^m</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-26^s</td> </tr> </table>	MC	SC	HYW	STW	SW	Sept 17	-32 ^s	+30 ^s	-0.1-2 ^s	+3 ^m					-26 ^s	
MC	SC	HYW	STW	SW																		
Sept 17	-32 ^s	+30 ^s	-0.1-2 ^s	+3 ^m																		
				-26 ^s																		

Dome Temp. 64° F

Focus 12.930

Dome Temp. 59° F

Transparency Conditions *Good*

220

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
20 19	N 2 06	29 47	1	8.90	MO	1-1-1	AG 25 (colour index too small for MO) mp likely too bright. poor guiding	fine												
21 20	N 2 01	29 39	0-1	8.98	K2	1-1-1	"	str												
22 44	N 2 10	29 36	1	8.84	G0	1-1-1	" (m _v 9.0) mp brighter than m _v for a G *?? 22" lightning in S and W (very bright)	too str												
23 37	N 1 35	25 40	0-1	8.68	K0	1-1-1	"	fine												
00 19	N 2 04	+29 29	1	8.51	K0	1-1-1	" Plenty of lightning in south and west light clouds overhead 00:10 completely clouded out by 00:25 1 ph. loaded	str. all right												
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTC</td> <td>SW</td> <td>SW</td> </tr> <tr> <td>Sept 19</td> <td>-4.3</td> <td>+36.2</td> <td>-1.8^s</td> <td>1.3^m</td> <td>30^s</td> </tr> </table>		MC	SC	MTC	SW	SW	Sept 19	-4.3	+36.2	-1.8 ^s	1.3 ^m	30 ^s	
	MC	SC	MTC	SW	SW															
Sept 19	-4.3	+36.2	-1.8 ^s	1.3 ^m	30 ^s															

Dome Temp. 60°F

ocus 12.930

Dome Temp. 53°F

Transparency Conditions cloudy at sunset, clearing slowly about 15:30

222

Ending Time
R.S.T.

21 05
22 20
23 53
23 14
00 00?
00 26
00 20

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 14	25 09	1	8.95	M0	1-1-1	AG 25 m_v 8.0	fine
2 08	27 20	0-1	var. 9.0?	K0LM	1-1-1	" m_v 7.2 to 9.6 seems brighter on slit than NO 170951 " fainter in finder than NO 172851	fine
1 30	26 19	1-2	8.57	K5	1-1-1	" m_v 7.8	good
1 51	25 58	2	8.07	G5	1-1-1	"	two stars
W 2 36	26 10	1-2	8.82	K2	1-1-1	"	fine
+28	59	2	8.58	K0	1-	" " clouds 00:15 SOLID!	two wh
					6-4	Phoned weather office at 00:50 enter little to put - "not likely to clear for very long at a time." closed up!	
						Began to rain just as I left dome.	
						3 ph. loaded.	

Dome Temp... 55°F
 Focus... 12930
 Dome Temp... 48°F

Transparency Conditions excellent some clouds earlier

Ending Time E.S.T.	Hour Angle En ³	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 59	0 48E	+ 45 00	0-1	6.6	A0	2-2-2	Ague ben array	str
12 06	0 37W	+ 25 32	0-1	8.6	K0	2-1-1	AG 25	str
12 13	0 152W	+ 28 20	0-1	8.7	K0	1-1-1	AG 25	str
12 19	1 19W	+ 27 39	0-1	8.8	K0	1-1-1	AG 25	fine
12 24	1 24W	+ 29 51	0-1	9.0	G0	1-1-1	AG 25	2 str
12 30	0 03E	44 25	1	7.9	A0	1-1-1	Kapt. Area Plate loaded reversed side	str
12 36	0 10E	15 56	0-1	7.70	A2	1-1-1	- " - Comp. very overexposed!	str
12 40	0 00	- 00 40	1	7.5	K0	1-1-1	Std. vel. Comp. overexp.	fine
12 46	0 40W	60 42	0-1	7.66	A0	1-1-1	Kapt. Area	two str
12 52	1 28W	61 40	1	7.78	F5	1-1-1	"	str
12 58	0 29W	47 21	1	7.7	A0	1-1-1	"	str
1 04	0 50W	46 46	2	7.9	A0	1-1-1	"	str
1 10	0 37W	29 22	2	7.8	A0	1-1-1	"	fine
				7.9	A2	1-	Comp. Poor guiding	fine
							At the beginning of exposure completely dark no trace of it	
							4/6 Sept 23	
							Ph no 2, 4 loaded, 3 plates in (Polaris not in field)	
							40 50 50 NW SW SE -80 +48 1 0.0 +.2 1255	

consistently very strong.

all in (Polaris not in field)

Dome Temp. 55°
 Focus 12.930
 Dome Temp.

Transparency Conditions good - variable

226

Clouds clearing by 21^h

Ending Time L.S.T.	Hour Angle En ^d	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 40	1h 30 ^m W	29 02	1-2	8.68	K ₂	1-1-1	A.G.	<i>l strong</i>
22 36	1 54 W	26 56	0-1	8.96	K ₀	1-1-1	A.G.	<i>v good</i>
23 36	02 102 W	30 28	0-1	8.91	K ₀	1-1-1	A.G. <i>Intermittent Clouds → Clouds.</i>	<i>too weak</i>
				3.1	G₁		<i>Exposure meter test.</i>	
							<i>Where is the box with exposed plates?</i>	
5 00	0 46 W	29 37	2	8.5	A ₂	1-1-1	Vapt. Area left of the pair	<i>poorly guided</i>
5 00	1 39 W	" "	2-1	8.5		1-1-1	" right of the pair	<i>clouds poor, faint</i>
							<i>4/6 Pl loaded</i>	

Thurs. - Fri.
 Date Sept. 25-26, 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. Exp.	Hour Angle End
19651	HD 141126	15 ^h 42 ^m .6	+25° 23'	L-25"	E1032-0	0.008	15.03	19 ^h 36 ^m	20 ^h 46 ^m	1	5 ^h 03 ^m W. +
19652	HD 161197	17 ^h 39 ^m .1	+24° 58'	"	"	"	15.02	20 ^h 52 ^m	22 ^h 16 ^m	2	4 ^h 36 ^m W. +
19653	HD 184590	19 ^h 30 ^m .1	+25° 08'	"	"	"	15.01	22 ^h 21 ^m	23 ^h 21 ^m	3	3 ^h 57 ^m W. +
19654	HD 188566	19 ^h 50 ^m .7	+25° 04'	"	"	"	15.02	23 ^h 24 ^m	00 14.	4	0 ^h 22 ^m W. +
19655	" 196133	2030.3	4450	"	Hi-Speed	"	15.5	00 24	00 35	1	2 ^h 42 ^m W. +
19656	AG 814	0121.3	2659	"	E1032-0	"	15.4	00 47	02 17	2	0 ^h 25 ^m W. +
19657	H. D. 3765	0035.3	3940	"	"	"	15.5	02 56	03 46	3	3 ^h 10 ^m W. +
19657F	<i>From List</i>			<i>O. J. B.</i>							

Dome Temp. 59.0
 Focus 12.930
 Dome Temp.

Extremely intense and large
 auroral clouds
 scattered over sky north
 of equator 19.45^h - 19.55^m
 of equator bright auroral stream
 lasting longer in north. Several
 meteor also in north. Mostly white, but some pink.
 Transparency Conditions scattered clouds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 46 ^m	5 ^h 03 ^m W.	+25° 13'	0	8.8	G5	1-1-1 AG 25°	Cloud conditions - bad. Probably a fogged off	30 ^m off. wks
22 ^h 16 ^m	4 ^h 36 ^m W	+24° 48'	0	8.7	G5	1-1-1 AG 25°	Only stars visible in front. Stopped because telescope nearly sky much improved. fogged	on balcony, stars
23 ^h 24 ^m	3 ^h 51 ^m W	+25° 15'	0	8.4	M0	1-1-1 AG 25°		fogged l.wks
00 ^h 4	4 ^h 22 ^m W	+25° 12'	0!	8.2	K2	1-1-1 AG 25°		wk
01 ^h 25	4 ^h 06 ^m W	4500	0!	6.6	A0	2-2-2 Sp. Bin.	Plate box found improperly closed. Plate may be fogged but all right.	stars weak
02 ^h 17	3 ^h 25 ^m W	2714	0 1	8.89	K2	1-1-1 AG	0.104 Considerable Wind & Haze. Slightly poor guiding	Good
03 ^h 10	3 ^h 10 ^m W	3956	0	8.5	K5	1-1-1 Std-Vel	0.130 Image very unsteady & some light cloud. fogged	fine
04 ^h 1						4/3 Set. 5.	0230 Cloud & Haze gone	all right
04 ^h 1							0415 South & West clouded out. Much Haze elsewhere Closing a p.	
							I.P.H. +4 E _{103.0} in D.	
							P. Cramers in D.	
							Sept 26	
							MC ^s +5.3	
							SC ^s +55.9	
							Hrc +2.3 ^s	
							SW +2 ^m	
							SW +6 ^s	

Fri. - Sat.
 Date Sept. 26-27, 1952 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.I.
19658	HD 141176	15 ^h 42. ^m 6	+25° 23'	I-12 ¹ / ₂ "	E-1032-0	0.008	14.6	18 ^h 59 ^m	20 ^h 29 ^m	E
19659	HD 156774	17 ^h 14. ^m 4	+27° 03'	"	"	"	14.4	20 ^h 33 ^m	21 ^h 57 ^m	1
19660	HD 185151	19 ^h 32. ^m 6	+27° 39'	"	"	"	14.1	22 ^h 01 ^m	22 ^h 57 ^m	E
19661	HD 196133	20 ^h 30. ^m 3	+44° 50'	"	Hi-Speed	"	14.0	22 ^h 57 ^m	23 ^h 53 ^m	3
19662	HD 198482	20^h 45.^m3	+30° 16'	"	E-1032-0	"	14.0	23^h 59^m	0045	4
19662	HD 217351 AG 1382+	22 ^h 54. ^m 8 55.0	29 ^h 33' 32	"	E 1032-0	"	14.1	0051	0143	1
19663	H.D. 26298	0404.5	-1640	"	"	"	14.4	0207	0249	2
19664	H.D. 19551	0303.6	12 29	"	"	"	14.2	0301	0317	3
19665	" 19647	0304.7	162.6	"	"	"	14.2	0322	0342	4
19666	" 21229	0320.4	3129	"	"	"	14.1	0348	0408	1
19667	" 26399	0405.4	15 21	"	"	"	14.1	0416	0434	2
19668	27525	0415.6	1802	"	"	"	14.1	0454	0514	3
	<i>Force</i>	<i>Just</i>		<i>09/B</i>						

Dome Temp. 52
 Focus 12.73
 Dome Temp. 14

Hour Angle
 End

Dome Temp. 52.0 F.

Focus 12.930

Dome Temp. 45.0 F.

Very bright ^{white} auroral ~~transparency~~ conditions
widespread in north and
some white streamers
(fades in north) at 25^h-26^h

Jew scattered clouds early, ²³⁰
but soon cleared except near
horizon where remains quite
cloudy.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 ^h 29 ^m 4 ^h 49 ^m W	+25° 15'	0	8.8	G5	1-1-1	AG 25°. Only stars visible in finder.	fine
21 ^h 57 ^m 4 ^h 46 ^m W	+26° 59'	0-0	8.7	K0	1-1-1	AG 25° fogged	fine
2 ^h 22 ^m W	+27° 45'	0	8.5	K0	1-1-1	AG 25°	good
23 ^h 33 ^m 3 ^h 27 ^m W	+45° 01'	0-1	6.6	A0	1-4-3	sp. bin. clouds 23 ^h 10 ^m - 23 ^h 15 ^m	str
04 04 W	+30° 27'	0	8.6	K2	1-1-1	AG 25° Plate found broken in	
05 25 W	+29 4.8	0	^{8.4} 8.72	^{A2} G5	1-1-1	AG 25° Holder earlier spectral type.	str.
00 11 E	-16 32	0	8.4	F0	1-1-1	Nancy Roman Poor guiding	good
00 17 W	+12 40	0	7.84	G5	1-1-1	K. A. 71	fine
00 41 W	+16 37	0	7.9	A0	1-1-1	" "	str
00 51 W	3 140	0	7.92	A3	1-1-1	" 47 slightly later spec. type	fine
00 32 W	15 29	0	7.8	A0	1-1-1	<input checked="" type="checkbox"/> " 72	fine
01 02 W	18 09	0	7.9	A2	1-1-1	" " Northern portion of field not very poor guiding given on chart. it does not check too well	all right
					4/3	4 P.H. Loaded E10300. Pl. Needed.	
						? Crammers. in P.	

Wm & Vic showed visitors
231

{
P Cygni with 24"
Moon with horizontal telescope } through scattered thin clouds

Date ^{Sat. - Sun} ~~Sept 27-28~~ 1952 Observer ^{W-EK} W-E-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.I.
19669	HD 176871	18 ^h 57 ^m .2	+26° 09'	IR ^{1/2} "E	-103a-0	0.008	15.0	21 ^h 26 ^m	21 ^h 38 ^m	1
19670	AG 9486	18 ^h 57 ^m .3	+26° 15'	"	"	"	"	21 ^h 40 ^m	22 ^h 40 ^m	2
19671	HD 191615	20 ^h 05 ^m .7	+25° 15'	"	"	"	15.0	22 ^h 44 ^m	23 ^h 10 ^m	3
19672	HD 198313	20 ^h 44 ^m .4	+28° 26'	"	"	"	14.9	23 ^h 13 ^m	23 43	4
19673	HD 198482	20 45.5	+30 16	"	"	"	14.9	23 48	00 18	2
19674	H.D. 196133	20 30.3	44 50	"	Cramer Ghispa	"	14.9	00 29	00 39	1
19675	" 3565	00 33.5	44 07	"	E-103a-0	"	14.9	00 58	01 16	3
19676	" 14278	02 13.4	12 33	"	"	"	14.9	02 17	02 33	4
19677	" 16816	02 36.7	32 29	"	"	"	14.9	02 38	02 54	1
19678	" 21142	03 19.7	12 09	"	"	"	14.9	02 59	03 15	2
19679	" 27532	04 15.7	29 25	"	"	"	14.9	03 24	03 50	3
19680	" 29882	04 37.4	44 34	"	"	"	14.9	03 54	04 14	4
19681	" 30221	04 46.6	45 18	"	"	"	14.9	04 18	04 36	1
19682	" 34937	05 15.9	15 45	"	"	"	14.9	04 41	04 59	2
19683	" 35611	05 29.9	16 09	"	"	"	14.9	05 03	05 21	1
	Focus lost									
								O.T. B.		

Dome Temp. 54.5
 Focus 12.930
 Dome Temp. +52.0°F

(with moonlight)
 suspect a very weak
 auroral arc in north
 at 22^h 30^m Moderately strong
 auroral arc and ~~that~~
 in north 23^h 00^m - 24^h 00^m.

Transparency Conditions Hazy after clearing.

232

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 38	2 ^h 47 ^m W		1-2	5.3	B3	1 ^s -1 ^s 1 ^s	AG 35° Wrong star (for AG 486)	too str
22 45	3 ^h 50 ^m W	+26° 19'	2	9.0	K0	1-1-1	AG 25°	str
23 00	3 ^h 12 ^m W	+25° 22'	2	8.4	K0	1-1-1	AG 25°	str
23 46	3 05 W	+28° 35'	2	8.6	G5	1-1-1	AG 25°	fine
00 18	3 40 W	30 27	2	8.61	K2	1-1-1	" "	fine
00 33	4 17 W	45 00	2	6.6	A0	4 ¹ / ₂ -4 ¹ / ₂	Sp. Bin.	fine
01 16	0 50 W	44 23	2	7.9	A0	1-1-1	K.A. 20	str
02 32	0 27 W	12 46	1	7.9	G5	1-1-1	" " 70	fine
02 54	0 25 W	32 42	1	7.88	F0	1-1-1	" " 46	str
03 15	0 03 W	12 18	1	7.6	A0	1-1-1	" " 71	str
03 50	0 19 E	29 31	0	7.72	Ae	1-1-1	" " 48	fine
04 14	0 17 E	44 39	0	7.91	A5	1-1-1	" " 24	fine
04 36	0 02 W	45 24	0	7.72	A0	1-1-1	" " 24	str
04 59	0 10 E	15 47	0	7.7	F2	1-1-1	" " 73	fine
05 21	0 08 W	16 10	0	7.66	F2	1-1-1	" " 73	str
						4/3	2 P.H.s loaded 103, plates needed	str

Interruption by the arrival of 12 visitors from Hamilton who arrived late, but had made previous arrangements.

poor guiding

center slightly red

233

Date Monday ~~Sunday~~ ²⁸⁻²⁹ ~~29-30~~ ⁵² Observer L-Cr-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.
19684	AG. 7973	16 59.0	25 ⁰⁰ 56	I-12 $\frac{1}{2}$	E-103a0	set 008	20.7	19 10	20 06	4
19685	HD 160952	17 37.7	29 39	1-12 $\frac{1}{2}$	"	"	20.6	20 12	21 08	1
19686	HD 169919	18 21.4	25 56	1-12 $\frac{1}{2}$	"	"	20.6	21 22	22 08	2
19687	HD 176695	18 56.4	28 33	1-12 $\frac{1}{2}$	"	"	20.3	22 14	22 58	2
19688	HD 193221	20 14.0	25 12	1-12 $\frac{1}{2}$	"	"	20.2	23 06	23 44	3
19689	HD 205626	21 32.7 ^{34.5}	25 58 ⁵⁵	1-12 $\frac{1}{2}$	"	"	20.1	23 54	01 24	4
19690	" 3765	00 35.3 ^{35.3}	39 40	"	"	"	20.0	01 55	02 37	1
19691	" 20873	03 16.8	29 27	"	"	"	20.0	02 47	03 29	2
19692	" -	" -	" -	"	"	"	20.0	03 30	04 12	3
19693	H.D. 27350	04 13.9	14 27	"	"	"	19.9	04 19	04 50	4
19694	" 34937	05 15.9	15 45	"	"	"	19.8	04 58	05 12	1
<i>Focus Test - a J.B.</i>										

Dome Temp. 67°F

Focus 12.930

Dome Temp. 57°F

noticed moderate amount
in north mid-night
to 2^h 2^{PM}

Transparency Conditions

Good

234

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 06 4	3 18W	24 54	0-1	8.85	K5	1-1-1	A.G. 25	good
02 06 1	3 16W	29 43	0-1	8.9	K ₀	1-1-1	A.G. 25	best in
02 02 8	3 58W	25 06	0-1	8.7	K ₀	1-1-1	A.G. 25	too weak
02 02 3	4 13W	28 34	0-1	8.9	K ₀	1-1-1	A.G. 25	fine
02 04 2	3 42W	25 21	0	8.4	K ₅	1-1-1	A.G. 25	fine
01 04 4	0404W	26 09	0	8.6	G ₀	1-1-1	A.G. 25. Pres.	fine
02 01 3W	39 55	0	8.5	K ₅	1-1-1	Std Vel.	light, p-judy	str
03 02 3W	29 38	0	8.5	A ₂	1-1-1	Pres. pair	K.A. 47	best
04 02 3	0106W	-11-	0	-11-	-11-	Full	" "	good
00 04 8W	+1434.5	0	7.9*	A ₂	1-1-1	K.A. 72	* Exposure as if star is 8.2 mag	weak
00 08 W	15 48	0	7.7	F ₂	1-1-1	K.A. 73		weak
					4/3		1 P.H. - loaded E103 Plates needed.	all right

235

~~Wed.~~ ~~29~~ ~~30~~

Date Monday Tuesday Sept 30 ~~29~~ ~~30~~ Observer Ha-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. loop	Hour Angle End	D	
(19695)	RC 7774	16 ^h 38 ^m 0	+25° 37'	1-12 1-12 ¹ / ₂	E 10320	lit .008	20.96	19 ^h 30 ^m	21 ^h 02 ^m	2	40W	2	
19696	HD 196133	20 30.3	+44 50	"	Cramer High speed	"	20.9	21 10	21 28	3	14W	14	
19697	HD 169573	18 20.2	+26 17	"	E 10320	"	20.8	21 34	22 50	4	44W	2	
19698	AG 9479	18 55.5	+29 28	"	"	"	20.8	22 56	23 53	1	14W	2	
19699	AG 13194	22 03.6	+26 33	"	"	"	20.8	23 57	0057	2	0310W	2	
<i>Flows first</i>					<i>o. J. B.</i>								

Dome Temp. 61
Focus 12.931
Dome Temp. 55

Dome Temp... 61°F

Transparency Conditions... Fair

Focus... 12.936

Dome Temp... 55°F

Windy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 02	40W	+25° 32'	00	8.93	G ₀	1-1-1	Sp. of earlier type A.G. Last time starting in checking field (one of two close)	two sub
21 28	14W	+45 00	00-0	6.6	A ₀	3-3-3	Spec. bin	fine
22 07	44W	+26 17	0	8.84	K ₀	1-1-1	A.G. Windy	1 sub
23 53	15W	+29 32	0	8.50	G ₀	1-1-1	A.G. Sp. looks of slightly earlier type.	good
0057	0310W	2648	0	8.96	G ₅	1-2	A.G. 0033 Cloud from N.W. & N.	two sub
						4/3	0040 Cloud from N. quite heavy.	all right
							0050 Weather office thinks it will be mostly cloudy rest of the night.	
							0055 whole sky quite solid. Closing up.	
							4 P. H. Loaded E 103 20	
							5 pl in D.	
							Sept 30 HC 50 S M4W 5 SW 5W SW	
							+120 ^S +1672 +7.5 ^S +.4 ^m -9.5	

Dome Temp..... 61°F

Transparency Conditions..... Some Cloud in N.W

238

Focus..... 12.9.30.....

Dome Temp.....

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+25° 30'	0+	8.93	G0	1-1-	AG 25 19:30 - Considerable obscuration of * 21:00 - Solid.	Too much
						3 Pit Loaded + 5	
						N C SC NFW STEU SW — +75.2 ^s +9.0 ^s +.14 ^m -22 ^s	

Dome Temp. 45° F.

Focus 12.930

Dome Temp.

Extremely intense
 around fountain and
 stream in night and
 some around clouds
 over whole sky 7:30 - 8:00
 Only faint stream left at 9:00
 observation of stream, some
 very faint, light.

Transparency Conditions 4.5/6

240

around stream with or greenish, but
 sometimes reddish on clouds. Deep
 bottom of certain red, top blue like sun.

Ending Time R.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^h 54 ^m	4 ^h 47 ^m W	+25° 30'	0!!	8.9	G ₀	1 ^s -1 ^s -1 ^s	AG 25° I hope the plate will be strong enough to see this!	fine
22 ^h 0 ^m	3 ^h 37 ^m W	+28° 05'	0	8.7	K ₀	1-1-1	AG 25°	str.
23 ^h 06 ^m	3 ^h 58 ^m W	+29° 33'	0-1	8.8 8.8	G₀ A ₂	1-1-1	See below. This is star circled on BD chart, better guide is single instead of double. This is the star to be double to S of this star. See plate 19646 sketch of field. C. cloud. Emulsion damaged by processing. Sp. late B- or early A-type. λ 4480, no good. λ 4450	fine
23 ^h 5 ^m	3 ^h 51 ^m W	+45° 00'	1-0!!	6.6	A ₀	3-3-3	sp. bin. See plate 19646 sketch of field. C. cloud. Emulsion damaged by processing. λ 4480, no good. λ 4450	fine
24 ^h	5 10 W	+27° 40'	0-1	8.7	K ₅	1-1-1	AG 25°	fine
0 18 W	-10 00		1	8.7	A ₂	1-1-1	Nancy Roman	fine
0 16 W	+5 54		1	6.2	K ₄	1-1-1	Std. blue. poor guiding	2 str
0 19 W	-6 42		0	8.7	G ₀	1-1-1	Nancy Roman	fine
0 48 W	+26 38		0	8.0	H ₀	1-1-1	KA 23 clouds	fine
0 50 W	+18 07		0	7.9	A ₂	1-1-1	KA 72 " Leaning cloud. crossed	fine

Pl 1, 2, 4 worked with 7.0 mm.

AG 10837 now properly identified on chart (chart corrected). RN. also checked over earlier plates to make certain of their correct identification. C.M.W.

241

showed visitors ring nebula in Lyrae with 74", moon with 5",
and Jupiter with 4".

Date Sat Sun, Oct. 4-5, 1952 Observer ^{We} BK - 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.
19711	AG 11420	20 26.5	+27 37	T-12	E-103-a0	ret 100%	13.2	21 58	22 01	4
19712	HD 198801	20 47.9	+28 30	"	"	"	13.6	23 10	00 20	1
19713	HD 196133	20 30.2	+44 50	"	Hi Speed	"	13.2	00 30	00 42	3
19714	HD 3765				E _{103a0}					2
19713F	<i>Lyrae</i>				<i>Test " of 13.</i>					

Dome Temp... 53°F

ocus... 12.930

Dome Temp... 40°F

occasional aurora
streamer again
clearly visible even with
bright moonlight.

Transparency Conditions... Very unsteady, say 1

242

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
	5 10 15	+27 47	0	8.76	K0	1-1-1	AG 25°	fine												
0020	0408W	28 38	0.7	8.81	K2	1-1-1	AG 25° Clouds 00 ^h 00 ^m	fine												
0042	0447W	44 59	0	6.6	A0	3-3-3	Sp. Bin. 0048 Cannot pick star up in finder + cloud.	(too) dark												
						4/3	0100 still quite o'cast. Becoming thicker Weather office says 5 ⁰⁰ - cloudy most of night. Closing up.	central to red												
							1.P.H. +7 E 103 ⁰⁰													
							6 Craters													
							<table border="0"> <tr> <td></td> <td>HCs</td> <td>SCs</td> <td>MW</td> <td>SPW</td> <td>SW</td> </tr> <tr> <td>Oct 7</td> <td>+4.8</td> <td>+23.5</td> <td>+15.8</td> <td>+1.5^m</td> <td>+15.5</td> </tr> </table>		HCs	SCs	MW	SPW	SW	Oct 7	+4.8	+23.5	+15.8	+1.5 ^m	+15.5	
	HCs	SCs	MW	SPW	SW															
Oct 7	+4.8	+23.5	+15.8	+1.5 ^m	+15.5															

Dome Temp. +42°F
 Focus 12.920
 Dome Temp. +39°F

of my focus set at
 12.920

Transparency Conditions Good

244

Ending Time E.S.T.	Hour Angle < End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0117	0535W	+4501	0	6.6	A ₀	3-3-3	Spect. Bin.	fine
0225	054E	-1632	0	8.4	F ₀	1-1-1	Nancy Roman	fine
0333	*0106E	-1002	0	(8.5)	A ₀	1-1-1 4/3	" "	l wks all night
							0300 Cloud in N, NW	
							0314 Cloud as far south as Orion	
							0320 Star Gone	
							0330 Met. office says not much chance of clearing closing up.	
							2 PH + 4 E _{103a0}	
							5 Cramers.	

Date Wed Oct 8-9 1952 Observer L. Boshart - 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	Dist
19717	H.D. 163970	17 53.8	27 51	I-12 $\frac{1}{2}$	E-10300	set 008	+10.9 $^{\circ}$	19 36	20 24	3	3 21W	+27
19718	H.D. 170738	18 25.9	25 42	1 "	"	"	10.8 $^{\circ}$	20 36	21 30	4	3 55W	+23
19719	H.D. 190749	20 01.4	29 34	"	"	"	10.7	21 44	22 50	1	3 40W	+27
19720	AG 12426 BD+30 $^{\circ}$ 4417	21 18.3 18.5	30 15 16	"	"	"	10.6	23 02	00 14	2	0347W	30
19721	H.D. 196133	20 30.3	44 50	"	H ₁ Speed	"	10.8	00 27	00 43		0505	47
19722	" 13721	02 08.6	-10 13	"	E-10300	"	10.7	00 57	01 57	3	00	-30
19723	" 27821	04 18.4	+06 08	"	"	"	10.7	02 07	03 11	4	0016E	+27
19724	+15 $^{\circ}$ 838	05 25.8 ⁵	+15 47 ³	"	"	"	10.8	03 22	05 08	1	003	-
19725	H.D. 35635	05 21.1	13 31	"	"	"	10.8	05 13	05 29	2	0009	1-
		<i>Boshart</i>				<i>L. Boshart</i>						

ome Temp. 47°F

Transparency Conditions *Good*

246

bcus. 12.920

ome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 24	3 21W	+27° 49	1	8.58	G5	1-1-1	A.G. 25	good
21 30	3 55W	+25° 42	1	8.79	G5	1-1-1	" <i>Slightly poor guiding</i>	fine
22 50	3 40W	+29° 42	1	8.86	K ₀	1-1-1	"	fine
23 14	3 47W	30° 29	1	8.91	K ₀	1-1-1	"	too weak
23 30	3 505W	44 59	0	6.6	A ₀	3-3-3	Spect. Bin	fine
23 50	3 0040W	-09 58	0	8.7	A ₂	1-1-1	Nancy Roman	good
24 10	3 0016E	+06 15	0	8.8	A ₅	1-1-1	" "	fine-1st
24 30	3 0034W	+15 44	0	9.3	F ₈	1-1-1	" "	str
24 50	3 0059W	+13 31	0	7.7	A ₀	1-1-1	K.A. 73 <i>poor guiding</i>	str
						4/3		
							2 P.H. + 8 E 103 a0	all right
							4 Cramers.	

247

Date *Thurs. Oct 9-10 1952* Observer *L-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	Hour Angle End	D
19726	H.D. 162901	17 48.3	25 00	<i>I-12$\frac{1}{2}$</i>	<i>F-103a0</i>	<i>set 008</i>	10.8	18 50	19 48	2	2 54W	24
19727	" 163077	17 49.2	25 01	"	"	"	10.8	19 50	20 48	3	3 54W	24
19728	" 175036	18 48.4	26 27	"	"	"	10.7	20 51	22 03	4	4 10W	26
19729	" 198526	20 45.8	28 37	"	"	"	10.6	22 06	23 10	1	3 19W	28
19730	" 205627	21 31.5	25 55	"	"	"	10.5	23 14	00 50	2	0 4W	26
19731	" 21543	03 23.4	-0652	"	"	"	10.5	01 00	02 00	3	0029E	0
19732	" 26298	04 04.5	-1640	"	"	"	10.7	02 08	03 56	1	0013E	-1
19733	" 27821	04 18.4	+0608	"	"	"	10.4	03 03	04 07	1	0047W	1
19734	" 36542	05 27.3	-1005	"	"	"	10.4	04 14	05 04	2	0033	-
19735	" 36484	05 26.9	+3244	"	<i>Hi Speed.</i>	"	10.4	05 14	05 32	1	000W	-
		<i>Lower Part</i>		<i>O.F.B.</i>								

ome Temp. 46°F

Transparency Conditions Good

248

ocus 12.920

ome Temp.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
19 48	22 54W	24 59	0	8.54	K ₀	1-1-1	A.G. 25	l str										
20 48	33 54W	24 59	0	8.54	K ₀	1-1-1	"	l str										
22 03	44 10W	26 27	0	8.77	G ₀	1-1-1	"	l str.										
23 10	13 19W	28 47	0	8.88	K ₆	1-1-1	"	fine										
01 50	0414W	26 08	0	8.9	G ₀	1-1-1	" Following star of pair.	fine										
02 00	0029E	-0642	0	8.7	G ₀	1-1-1	Nancy Roman	fine										
02 56	0013E	-1633	0	8.4	F ₀	1-1-1	" "	fine										
04 37	0044W	+0616	0	8.8	A ₅	1-1-1	" "	fine										
05 04	0033W	-1004	0	(8.5)	A ₀	1-1-1	" "	fine										
05 32	0100W	+3244	0	6.5	A ₂	3-3-3 12/8	Spect. Bin.	str. all right (perhaps not dupl. stars)										
							1 P.H. + 12 E 103°0											
							3 Cranes											
							Difficulty in closing shutters											
							Clutch Jumping											
							Dec 10	<table border="0"> <tr> <td>Mr 5</td> <td>50.2</td> <td>5.5</td> <td>5.5</td> <td>5.5</td> </tr> <tr> <td>+35.5</td> <td>+22.9</td> <td>-37.5</td> <td>-1.4</td> <td>-1.4</td> </tr> </table>	Mr 5	50.2	5.5	5.5	5.5	+35.5	+22.9	-37.5	-1.4	-1.4
Mr 5	50.2	5.5	5.5	5.5														
+35.5	+22.9	-37.5	-1.4	-1.4														

Dome Temp. $+44^{\circ}\text{F}$
 Focus..... 12920
 Dome Temp. $+39^{\circ}\text{F}$

Transparency Conditions *good*

250

2045 week normal and all night

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 36.5	29 36	0	8.91	K0	1-1-1	AG 25	Strong
	4 11 W	28 50	0	8.91	K2	1-1-1	"	fine
	4 12 W	26 00	0	8.78	G5	1-1-1	"	Strong
	4 07 W	26 07	1	8.72	K0	1-1-1	"	fine
	4 30 W	45 00	1	6.6	A0	3-3-3	Sp. bin	fine
	0 00	-00 39	1	7.5	K0	1-1-1	Std. veloc. very poor guiding poor guiding clouds for 1 hour	good
	1 14 W	46 43	1	7.7	A0	1-1-1	S.A. 21	fine
	0 30 W	45 59	1	7.8	A0	1-1-1	S.A. 22. poor guiding	fine
	0 40 W	32 37	1	7.90	A0	1-1-1	S.A. 46	fine
	1 04 W	59 37	1-0	8.0	A3	1-1-1	S.A. 9 slightly poor guiding	fine
	1 15 W	61 36	0	8.0	A0	1-1-1	S.A. 9 poor guiding	fine
	0 17 W	-10 03	0	(8.5)	A0	1-1-1	hazy, low air	fine
	0 12 E	29 16	0-1	8.54	G5	1-1-1	AG 25 ⁰	Strong
	1 29 W	32 44	1	6.5	A2	3-3-3	Sp. Bin 6/8	fine to m
							Per Mr. T. loaded with Hi-Speed	

Date Oct. 11-12 - 52 Observer Hd PK - 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.
19750	HD 200491	20 ^h 58.7	+28° 35'	I-12 ^{1/2}	E-1030-0	0.008	10.8	22 ^h 11 ^m	23 11	1
19751	HD 200546	20 59.0	+26 56	"	"	"	10.8	23 16	00 14	"
19752	" 196133	2030.3	+4450	"	H-Speed	"	10.8	0025	0039	4
19753	21543	0323.4	-0652	"	E10320	"	10.8	0056	0156	2
19754	26298	0404.5	-1640	"	"	"	10.8	0203	0249	2
19755	27821	0418.4	+0608	"	"	"	10.7	0259	0350	3
19756	+15° 838	0525. ⁵	+154 ³	"	"	"	10.7	0400	0500	4
<p>→ Focus Test of B.</p> <p><u>Focus Test on Pl. # 19752</u></p>										

253

Date Oct. 12-13/52 Observer Hr Julian Day 12.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
19757	+15° 838 <i>Focus</i>	⁵ 5 <i>5</i>	+154 ³ <i>3</i>	I-12 ¹ / ₂ <i>0.5/B</i>	E _{103.00}	.008	12.7	0159	0309	1
<p><u>Mon. 13/14</u> <u>0230</u> Mostly Clear Arrived after 0300 <u>0330</u> some cloud from S. <u>0400</u> More Cloud</p>										

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

Focus 12.920

Dome Temp. $+51$

Transparency Conditions Fair, Some haze

Clearing about 210

254

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
0309 0110E	+1545	1-2	9.3	F8	1-1-1 4/3	Nancy Roman Seti 2 $\frac{0245}{with}$ SKY covered light cloud. $\frac{0320}{Closing up.}$ Still quite hopeless.	fine center display miserable														
4 P.H. + 4. (E10300.) 1 Box Cramers																					
<table border="0"> <tr> <td></td> <td>HC</td> <td>SC</td> <td>HDW</td> <td>STW</td> <td>SW</td> <td></td> </tr> <tr> <td>Oct 14</td> <td>-78.5°</td> <td>$+37.3^{\circ}$</td> <td>-28°</td> <td>0°</td> <td>11°</td> <td></td> </tr> </table>								HC	SC	HDW	STW	SW		Oct 14	-78.5°	$+37.3^{\circ}$	-28°	0°	11°		
	HC	SC	HDW	STW	SW																
Oct 14	-78.5°	$+37.3^{\circ}$	-28°	0°	11°																

Date Wed-Thursd 15/16 Oct 52 Observer HR - 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.	Filter Angle End
19758	4D 166683	18 06.7	+29 04	I-12	E-153-a-0	set '008	9.8	19 48	20 30	1	
19759	HD 174104	18 43.8	+28 37	"	"	"	9.7	20 42	21 43	1	
19760	HD 186860	19 41.8	+30 00	"	"	"	9.5	21 55	23 05	2	
19761	AG 12015	20 57.5	+26 51	"	"	"	9.2	23 09	00 29	2	
19762	H.D. 196133	20 30.3	+44 50	"	H.S. Speed	"	9.3	00 36	00 56	1	
19763	" 24000	03 44.3	+29 26	"	E-103a-0	"	9.2	01 06	02 01	1	
19764	+24° 659	04 21.8	+24 13	"	"	"	9.2	02 24	05 04	1	
19765	H.D. 36484	05 26.9	+32 44	"	H.S. Speed	"	9.0	05 11	05 25	1	
	<i>Focus Test C.F.B.</i>										

Dome Temp. -45°F
 Focus 12.930
 Dome Temp. +40°F

*Try setting focus
 at 12.930*

Transparency Conditions *hazy*

256

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:40W		29° 02'	0-1	8.57	B5	1-1-1	Set. 2. AG-25	str
4:17W		28 40	0-1	8.72	B5	1-1-1	Set 8 "	str
4:41 ^h W		30 07	0	8.95	M0	1-1-1	set 2 "	mb
0449W		27 01	0	8.91	G0	1-1-1	set 8 "	good
0545W		44 59	0	6.6	A0	3-3-3	Set. 2, Spect. Bin.	good
0026E		+29 35	0	(8.5)	A2	1-1-1	Set 2 Nan. Roman.	l str
0201W		+24 16	0	(8.9)*	F0	1-1-1	Set 8 Nan. Roman. *Difficulty in picking up star is so faint.	tr mb
0116W		+32 44	0-1	6.5	A2	3-3-3 12/8	Set 6. Spect. Bin. Looks <u>much</u> fainter than 8.9 Trying 9.8 Very difficult to see star at all on slit.	l str str
							1 P. H. + 4. E _{103a0}	
							2 3? Cramers.	

257

~ 40 visitors from Central Public School of Australia,
showed 74" and 7" with 4"

Date Oct. 16th 17th 52. Observer L and Boelke ^{-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.
19766}	^{HD} 166 822	18 ^h 07.3	+25° 17	1-12½	E 103	.008	+7.6	19 ^h 19 ^m	20 ^h 39 ^m	4
19767}	^{HD} 175 578	18 ^h 50.9	+29° 58	1-12½	E 103	.008	+7.8	20 ^h 49 ^m	21 ^h 39 ^m	4
19768 }	^{HD} 191 580	20 ^h 05.6	+29° 26	1-12½	E 103	.008	+7.6	21 ^h 50 ^m	23 ^h 00	1
19769 }	^{BD + 30° 44' 17"} AG 12426	21 18.3	30 15	"	"	"	+7.8	23 ^h 26 ^m	0 12 ^m	1
	HD 24000									
Won't waste a plate on a Focus test.										

Dome Temp. 40°

Focus 12.930

Dome Temp.

*Faint auroral arch
and streamers noticed
about mid-night.*

Transparency Conditions Good (0.100) ES-1.

258

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 53 W	+26° 17'	0	8.56	G ₀	1-1-1	set 2 AG 25 <i>Light clouds 19.40-19.55</i>	<i>fine</i>
4 ^h 10 W	+29° 57'	0	8.35	G ₅	1-1-1	set 8 AG 25 <i>Also stage in line of sight</i>	
4 ^h 16 W	+29° 34'	0	8.84	K ₂	1-1-1	set 2 AG 25 <i>Bad fogging over spectrum</i>	<i>good</i>
0122 0526 W	30 28	0	8.91	K ₀	1-1-1	set 8 AG 25 <i>0108 A little cloud in W & S.W. Last 5 min through cloud.</i>	<i>too weak</i>
						<i>0127 sky now quite solid.</i>	
						<i>0210 A few clear patches from time to time.</i>	
						<i>Met. said only a local patch I think he's off the beam.</i>	
						<i>0235 still mostly cloudy closing up.</i>	
						<i>3 P.H. + 12.</i>	
						<i>23 Cramer's.</i>	
						<i>MC SC MWC SW SW</i>	
						<i>Oct 17 -72.3 +41.9 -16.8 +.1^m -1.5</i>	

Pk (22:25-23:00)

Date Fri.-Sat., Oct. 17-18, 1952 Observer We - 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.
19770	HD 196133	20 ^h 30.3	+ 44° 50'	F-12 $\frac{1}{2}$ "	Hi-Speed	0.008	+5.8	18 ^h 34 ^m	19 ^h 00 ^m	4
19771	HD 166181	18 04.4	+ 29 39	"	E-1032-0	"	5.8	19 ^h 05 ^m	19 ^h 55 ^m	1
19772	HD 166914	18 07.7	+ 25 21	"	"	"	5.8	20 ^h 01 ^m	21 ^h 21 ^m	1
19773	HD 192287	20 09.0	+ 24 56	"	"	"	5.8	21 ^h 25 ^m	22 50	1
19774	HD 209858	22 01.3	+ 27 29	"	"	"	5.5	22 58	23 26	2
19775	HD 8779	01 21.4	+ 00 55	"	"	"	5.8	23 33	23 53	2
19776	HD 196133	20 30.3	+ 44 50	"	Hi-Speed	"	5.7	24 05	00 31	1
19777	+ 24° 659	04 21.8	+ 24 13	"	E10320	0.016	5.9	00 59	03 59	3
19778	H.D. 61606	07 35.0	- 03 22	"	"	0.008	5.95	04 27	04 44	5
19779	" 36484	05 26.9	32 44	"	Hi-Speed	"	5.9	04 56	05 10	1
19780	" 44768	06 18.5	15 55	"	E10320	"	5.6	05 19	05 39	4
<i>Focus Test.</i>				<i>O.F.B.</i>						
1952 Oct. 18		N, L.		Cloudy.						
About		125 + visitors in two "sittings", ~6:30 and ~8:00. Showed								

Date Mon, Oct 20/21, 1952 Observer Wm - 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.	Angle End	D.
19 782	HD 173909 BD +30° 44' 7"	18 42.8 18.5	+27 23 16	I-12½	E 103a-0	SET 008	+2.3	19 58	20 50	1	34° 45'	+2
19 783	AG 12476	21 18.3	+30 15	"	"	"	+2.4	20 56	22 00	3A	4° 18'	+2
19 784	HD 209680	22 00.1	+29 28	"	"	"	+2.3	22 04	00 44	3A	42° 20'	+2
19785	" θ 4000 +29° 734 Focus	03 44.3	+29 26	"	"	"	+2.4	00 56	01 28	2	038° E	+2
<p><i>Just off</i></p>												

ome Temp.....+33°F

ocus.....12:530

ome Temp.....

0200

Fire ball moving
south toward α Can. Maj.

Transparency Conditions.....Good

Starting delayed by

- a) Car trouble
- b) Dirty Wheatstone Bridge Contacts
- c) Trouble with switch to focussing motor

264

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 50	3 ^W 45	+27° 25'	1	8.63	K2	1-1-1	Set 7 AG 25 On same plate as 19781 Considerable wind poor guiding	str
22 00	2 ^W 18	+30 24	1	8.91	K2	1-1-1	Set 2 " "	l wd
00 44	0422W	+29 42	1-	9.98	K5	1-1-1	Set 7 " " Bobber guiding abt 1 hr	fine
01 28	0038E	+29.35	2	8.5	A ₂	1-1-1	Set 2 N. Roman 0011 Some cloud N, & W. 0034 very light cloud or haze covering most of sky 0150 <u>Very</u> Hazy!! Some cloud Cannot pick up star in finder. Met. says much cloud to the north Getting Thicker Closing up.	fine Central to red
						4/3		
							Heat on Mirror	
							Oct 21	
							He ₅ -53.0	
							SC +47.4	
							HTW -5.5 ^S	
							SW +1.3 ^m	
							SW -1.0	

Dome Temp... +4.3°F
 Focus... 12.920
 Dome Temp... +3.5°F

95% focus at 12.920

Transparency Conditions... Good

266

3rd 40th Zodiac light Strong wind image unsteady
 in E.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 33	3 05W	25 37	0	8.54	K0	1-1-1	Set 2 AG. 25	good
20 21	3 17W	27 37	0	8.12	K0	1-1-1	Set 8	good
21 05	2 51W	29 12	0	8.82	K0	1-1-1	Set 2	fine
		30 27	0	8.91	K0	1-1	Set 8 Wind increasing	Too weak
	1 40W	29 13	1-0	9.50	B9	1-1-1	set 2 have, ^{down} turning the dome	good
	2 16W	55 21	1	8.9	B0	1-1-1	set 8 -u- closed up. ^{poor guiding} 11.20	good
	2 08W	32 44	1	6.5	A2	3-3-3	Spectr. Bin. set 5 4/6	fine all right
							Pl # 2 Hi-Speed # 4 Eastman	
							Heat on mirror	

Date *Thurs Oct 23/24 1952* Observer *Ld - 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	D
19793	H.D. 172132	18 33.4	28 58	I-12 $\frac{1}{2}$	E-103a-D	set .008	12.7	18 25	19 15	4	2 31 W	2
19794	" 174126	18 43.9	28 32	"	"	"	12.7	19 17	20 47	4	2 33 W	2
19795	HD 196133	20 30.3	44 50	"	Hi-speed	"	12.8	20 52	21 18	2	2 38 W	4
19796	HD 215791	22 42.6	44 15	"	"	"	12.7	21 22	22 08	2	1 15 W	4
19797	HD 11397	01 46.9	-16 48	"	E103a-D	"	13.0	22 41	00 41	3	1 04 W	-1
19798	" 2907.34	04 40.3	29 07	"	"	"	12.7	00 51	02 56	2	0 05 W	-5
19799	+ 55° 960	05 00.2	55 18	"	"	"	12.9	03 08	04 20	1	0 09 W	+5
19800	+ 50° 1359	06 44.6	50 46	"	"	"	12.8	04 35	05 45	1	0 50 W	5
	<i>Focus</i>				<i>f + 0.75 B.</i>							

Dome Temp. $+52^{\circ}\text{F}$
 Focus..... 12.920
 Dome Temp. $+46^{\circ}\text{F}$

Transparency Conditions *ly. cond (0025)*

268

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 15	2 31 W	29 00	0	8.37	K ₂	1-1-1	Set 2. VAG. 25	fine
20 47	3 53 W	28 33	0-1	8.56	K ₂	1-1-1	Set 8 " " Clouds (light) ^{throughout} full time	fine
21 18	2 38 W	45 00	0	6.6	A ₀	1-1-1	Set 2 Binary. Clouds ^{poor guiding} thro' out.	fine
22 08	1 15 W	44 30	0	8.0	A ₀	1-1-1	" 8 K ₁ A. Some clouds	l. wh
00 11	0 04 SW	-16 33	0	9.5	F ₈	1-1-1	" 2 ^{N. Roman} <u>Hilvel</u> Couldn't find $+53^{\circ}10'$ on Hi vel. _{prog.} - Bk check field please.	good - l. wh.
00 56	0 00 SW	+29 13	0	9.50	B ₉	1-1-1	" 8 N. Roman <u>0x25</u> Wind Increasing.	l. wh
01 49	0 10 SW	+55 20	0	8.9	G ₀	1-1-1	" 2 " "	l. wh
05 45	0 05 W	50 43.5	0	8.9	A ₀	1-1-1	" 5 " " <u>4/3</u> " 9 poor guiding	good - l. wh. all right

2 P.H. + 12 E₁₀₃₂₀

19 Cramers

H. on M.

Oct 24 ^{4C} $+59.0^{\circ}$ ^{5C} $+52.5^{\circ}$ ^{4K₂} $+2.8^{\circ}$ ^{5K₂} $+1.1^{\circ}$ ^{5W} -3.5°

269

Date Fri. Oct 24/25 1952 Observer L-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	Hour Angle End	D
19801	H.D. 169573	18 20.2	26 17	I-12 $\frac{1}{2}$	E-103 $\frac{1}{2}$ D	set 008	13.8	18 17	19 37	2	3 10W	2
19802	" 187280	19 44.1	28 04	"	"	"	13.6	19 40	21 10	2	3 20W	2
19803	" 3567	00 33.5	-08 51	"	"	"	13.7	21 20	23 26	3	0 46W	-01
19804	+24° 659	04 21.8	24 13	"	"	"	13.6	23 33	02 05	3	0 02E	24
19805	40 Fri B	04 10.8	-07 49	"	"	016	13.3	02 17	03 14	4	01 19W	-07
	Focus test 6TB - slit at 016											
	Reset slit to 008											

Dome Temp. 75

Focus 12.9

Dome Temp. 74

Dome Temp. +53°F

Focus 12.920

Dome Temp. +47°F

Transparency Conditions Good

270

Strong wind image unstable

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 37	3 10W	26 17	0	8.84	K0	1-1-1	Set 2 A.G. 25	fine
2 10	3 20W	28 11	0	8.99	K0	1-1-1	" 8 " "	fine
23 26	3 0 46W	-08 34	0	9.6	F5	1-1-1	" 2 Nancy Roman	good work
02 05	3 0 02E	24 20	0-0	8.9	F0	1-1-1	" 8 " "	light cloud throughout good work
03 14	3 0 19W	-07 45	0	9.7	A?	1/2-1/2-1/2	Set 2 White dwarf	at 03 14, spectrograph - pier Claws getting worse Decided to sit tight, no cloud in W. (ie - leave plate in)
							500 - Closed in	no test (plate not pushed in probably)
							3 Plate holders loaded. E 103 20	

Dome Temp... 38°

Focus... 12.920

Dome Temp... +34°F

Transparency Conditions *Poor → fair*

212

Showed 600 visitors, (as many as Mac has ever seen on a Saturday night), β Cyg with 74"; moon & Jupiter with the 4" - Aurora.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality															
23 55	1 53 E	+29 35	0-1	8.5	A2	1-1-1	Set 2 - Roman - ^(15m) Last time trying to find ^{Roman} +53104	fair															
00 01	32 E	+24 19	0-1	8.9	F0	1-1-1	Set 8 Roman	good															
00 05	00 W	+54 20	0-1	9.3	A0	1-1-1	set 2 " Slightly poor guiding	good															
00 01	24 W	+29 12	2	9.50	B9	1-1-1	set 8 "	good															
00 00	25 W	+27 18	2	8.26	G5	1-1-1	set 2 AG 25	str															
00 00	47 W	+26 13	2	8.28	G0	1-1-1	set 8 AG 25 Composite spectrum?	sl. str															
00 02	48 W	+32 44	2	6.5	A2	3-3-3	set 5 sep. binary, 4/6	fine all night															
							Plu No 1, 2 with Sartou.																
							Heat on mirror																
Sun, Oct 26/27							Considerable ^{cloud} over ; cirrus overcast ~ 2-5 magnitudes W m.																
							<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MW</td> <td>SW</td> <td>SU</td> </tr> <tr> <td>Oct 29</td> <td>-43.0</td> <td>+63.4</td> <td>+18.0</td> <td>+3.3^m</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-20^s</td> </tr> </table>	MC	SC	MW	SW	SU	Oct 29	-43.0	+63.4	+18.0	+3.3 ^m					-20 ^s	
MC	SC	MW	SW	SU																			
Oct 29	-43.0	+63.4	+18.0	+3.3 ^m																			
				-20 ^s																			

273

Tuesd - Wed.

Date 28/29 Oct 1952

Observer BK - H or

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
19813	HD 196133	20 383.1	+44° 50'	7-12 1/2	Hi-Speed	set 002	+4.8	02354	00 ^h 04	4	54 LUT
19814	HD 24000	03 44.3	+29 26	"	E103-a-0	"	4.7	0024		1	
	"	"	"	"	"	"	4.7	0055	0205	1	030
19815	+29° 734	0440.3	2907	"	"	"	4.7	0212	0432	1	20 W
19816	H.D. 36484	0526.9	3244	"	HiSpeed	"	4.0	0441	0457	4	24 W 32
19817	" 56629	0712.7	2921	"	E103a0	"	4.0	0504	0531	0	002 W 30
	Focus		f		B.						

Dome Temp. 43.0°F

Focus 12.950

Dome Temp.

Transparency Conditions Fair (0100)

274

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	5 ^h 44W	45° 00'	0	6.6	A0	3-3-3	Sp. binary set 2	not too wh	
				(85)	A2	1-1-1	set 2		
0030	2935		0!!	"	"	1-1-1	Set 4 Roman	not fine	
0432	0201W	29 11	0!!	9.50	B9	1-1-1	" 8 "	good	
05	0145W	3244	0!	6.5	A2	1-4-4	Set 8 Spect. Bin.	l. wh.	
0029W	2914		0	8.37	K0	1-2	" 2 A.G. 25.	too wh	
				0528			All exposure		
				4/3	Set 9		Through cloud star now almost invisible on slit.	R.A. Motion Trouble caused I think by wire break in hand switch. Cable	all right
				0533			quite solid closing up,		
				0345			Cloud in. N.W., W, S.W.		
							2 P.H. + 4 E 10300		
							17 Cramers,		
							H. on. M.		

Dome Temp. +48

Focus.....

Dome Temp. +47

Transparency Conditions

Poor

276

Very murky at first. Then see guiding referred to work. L. fixed, but contact in wire near hand-switch still fails sometimes.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 48	W 2 26	25 25	1	8.23	K5	1-1-1	Set 2 AG prog. Haze + some cloud work	
21 26	W 2 50	26 14	1	7.23	G0	1-1-1	" 8 " " " l. str.	
22 02	W 3 50	45 00	1-0	6.6	A0	1-1-1	" 2 Sp. Bin. Haze. good fine	
23 12	W 1 25	17 15	1	7.73	G0	1-1-1	Set 2 KA " for guiding work.	
23 50	W 0 46	-0 41	1	7.49	K0	1-1-1	" 8 Std. Val. clouded out. Too work	

0210 Quite solid + topless.
Closing up.

1 P.H. + 4 E103a0

15 Cravers.

H. on M.

	MC	SB	MW	STW	SW	S
Oct 31	+38.5	+68.6	+25.0	1.1 ^m	-31 ^s	+6.1

Dome Temp. $+49^{\circ}$
 Focus 12920
 Dome Temp. $+43^{\circ}$

Transparency Conditions *Hazy - poor*
(fog at altitude) and windy
 Rich in the evening, improving about midnight

Ending Time
 R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20 W	55 53	1	8.5	CB3	1-1-1	Matthew's Stars, set 2	fine
1 38 W	33 15	2	10.5	CB2	1-1-1	- " - set 8 some clouds	good-but
1 50 W	32 45	2	6.5	A2	3-3-3	set 5 Sp. bin.	fine
1 06 W	30 21	2	8.0	A0	1-1-1	set 2 Kapte Area	fine
0 32 W	48 20	2	7.8	A0	1-1-1	set 8 "	fine
1 57 W	50 43	2	8.9	A0	1-1-1	set 2 hazy, Roman 4/6	poor guiding L up
PA # 3,4 loaded with Easton new East but needed, and a new pencil							

Dome Temp. +33°F

Focus 12.920

Dome Temp. +31°F

Rain Several Times during evening. Transparency Conditions Good.

280

Ice on Dome & Shutters Clearing after 0130

West Side
Skating Rink out on Catwalk

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0357	023E	2712	0!	8.19	K2	1-1-1	A.G. 25. Set. 2	good
0508	0047W	2947	0!	8.63	G5	1-1-1	" " " 5 0418 occasional wisps of cloud.	good
						4/3	" 9 0450 Considerable cloud from NW.	Center of star but all right
							0506 Too Much cloud. No point in continuing.	
							1 P.H. loaded E103a-0 [Last one?]	
							14 Cramer's.	
							H.on. M.	
							Dec. Quick Motion wire in hand switch acting up again.	

Dome Temp. 140°F
 Focus 12920
 Dome Temp. 138

Transparency Conditions Hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
0200W	-58 55	1	89	c-B25	1-1-1	Set. 2 ^{Poor guiding} Matt. Hi-Vel. 0205 Too Hazy To Continue Working.	fine good																								
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Use P.H. #4 on setting "8" </div>																															
If Possible on Matthews' Hi-Vel. Prog.																															
H. on M. 14 Craters.																															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MPCW</td> <td>STW</td> <td>S</td> <td>W</td> <td>S</td> </tr> <tr> <td>Nov 5</td> <td>-12.0</td> <td>+67.2</td> <td>-26.5</td> <td>+1.5^m</td> <td>-15</td> <td></td> <td>+17^s</td> </tr> <tr> <td>Nov 7</td> <td>+02.2</td> <td>+66.8</td> <td>-24.2</td> <td>+1.4^m</td> <td>-7</td> <td>S</td> <td>+15</td> </tr> </table>								MC	SC	MPCW	STW	S	W	S	Nov 5	-12.0	+67.2	-26.5	+1.5 ^m	-15		+17 ^s	Nov 7	+02.2	+66.8	-24.2	+1.4 ^m	-7	S	+15	
	MC	SC	MPCW	STW	S	W	S																								
Nov 5	-12.0	+67.2	-26.5	+1.5 ^m	-15		+17 ^s																								
Nov 7	+02.2	+66.8	-24.2	+1.4 ^m	-7	S	+15																								
Fri-Sat Nov 7/8 - Opened @ 19.30 - Clouds! Closed 2100.																															
PH #1 loaded w CE #4 as above																															
<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MPCW</td> <td>STW</td> <td>SWW</td> <td>m</td> <td>S</td> </tr> <tr> <td>Nov. 12</td> <td>+23.5</td> <td>+83.6</td> <td>-18.0</td> <td>-.3^m</td> <td>-30^s</td> <td></td> <td>+15^s</td> </tr> </table>								MC	SC	MPCW	STW	SWW	m	S	Nov. 12	+23.5	+83.6	-18.0	-.3 ^m	-30 ^s		+15 ^s									
	MC	SC	MPCW	STW	SWW	m	S																								
Nov. 12	+23.5	+83.6	-18.0	-.3 ^m	-30 ^s		+15 ^s																								

Dome Temp. +40°F
 Focus 12920
 Dome Temp.

Transparency Conditions *happy*

*(Poor focus (indicated on plate covers))
 Only plate # 19834 not focal test.
 C.M.W.*

Ending Time
 R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
3 02W	28 21	0-1	8.95	G5	1-1-1	set 2 AG 25	good-look																					
2 48W	28 04	1	8.44	G0	1-1-1	set 8 "	good-look																					
3 15W	44 59	1	6.6	A0	3-3-3	set 2 Sp binary plate not properly held. Poor focus. can't expose longer because of the pier. 21 ¹⁵ -21 ⁴⁰ cloud	good																					
1 13W	+0 06	1	9.2	G0	1-1-1	set 2 Roman Earlier sp. than G0. Suspected	ish focus?																					
0 50W	-10 00	1-0	8.7	A2	1-1-1	set 8 " 23 ¹² -23 ³⁰ cloud, non guiding	look																					
0 140W	+60 15	1-0	8.9	07	1-1-1	set 8 Matthew's Same Plate as 19831	good-look																					
0 2147W	24 20	0	18.9	F0	1-1-1	Set 2 Roman Delay 4' of Cloud.	look																					
0 0020W	50 41	0!!	8.9	A0	1-1-1	" 8 " 0228 Considerable from mist.	too weak																					
						0303 wire to Concave																						
						12/8 Set 8 plate not properly held. Poor focus in result. Dec. Quick Motion LTT Giving Trouble Cloud & Haze from S.W.	Circle to track set main star																					
						subsequent test showed Focus OK																						
						1 P.H. + 7 E103a0 13 Cruisers S. H. on M.																						
						0350 Star Gng sig. Hopes Closing sp.																						
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>WCC</td> <td>SW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>Nov 14</td> <td>+33.5</td> <td>+86.2</td> <td>-10.0</td> <td>-2^m</td> <td>+20^S</td> <td>+102.5^S</td> </tr> <tr> <td>19</td> <td>+02.7</td> <td>+31.6</td> <td>-8.0</td> <td>-1.0^m</td> <td>+7^S</td> <td>0^S</td> </tr> </table>		MC	SC	WCC	SW	SW	S	Nov 14	+33.5	+86.2	-10.0	-2 ^m	+20 ^S	+102.5 ^S	19	+02.7	+31.6	-8.0	-1.0 ^m	+7 ^S	0 ^S	
	MC	SC	WCC	SW	SW	S																						
Nov 14	+33.5	+86.2	-10.0	-2 ^m	+20 ^S	+102.5 ^S																						
19	+02.7	+31.6	-8.0	-1.0 ^m	+7 ^S	0 ^S																						

285

7

Date 1952 Nov. 24-25 Mon.-Tues. Observer

Hof
Wef
Gus

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.
19839A 19838	32 Cygni	20 ^h 13.7 ^m	+47° 24'	I-25	E-1032-0	0.008	6.1	19 ^h 32 ^m	20 51	1
		"	"	"	"	"	6.2	20 54	21 12	0
		"	"	"	"	"	"	6.3	21 12	21 17
19840	"	"	"	"	HiSpeed	"	6.3	21 18	21 28	2
	"	"	"	"	"	"	"	21 28	21 39	2
	Focus Test OTB									

Dome Temp. 43°F

Transparency Conditions Poor to heavy

Focus 15.523

Focus 12.920

Focus 15.544

Dome Temp. Nov. 21

Changed to 25" camera - 12 1/2" was 19839-F

Filt 20.35 25" is

Filt. 23.15

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																																										
10 51	36W	+47° 33'	0	(4.3)	ck5+A	3-3-3	with thin clouds very very thick (off earlier than briefly) 19 ^m 30 ^m - 20 ^m 00 ^m Ecl: 19 ^m 30 ^m , set 2																																											
11 12	36W	"	"	"	"	3-3-3	set 5 Clearing somewhat 20 ^m 00 ^m - 20 ^m 10 ^m																																											
11 17	01W	"	"	"	"	3-3-3	set 8 more thin cloud 20 ^m 10 ^m - 20 ^m 15 ^m																																											
11 28	12W	"	"	"	"	3-3-3	set 2 Clearing 20 ^m 15 ^m - Intermittent Cloud.																																											
11 39	43W	"	"	"	"	3-3-3	set 5 Intermittent Cloud - limit hour angle. set 9 all night																																											
							3 Plate holders left empty. #3 plate holder contains E103aD																																											
<table border="0" style="width: 100%;"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>W</td> <td>SW</td> <td>S</td> <td></td> </tr> <tr> <td>Nov 28</td> <td>-4.6</td> <td>+9.1</td> <td>+0.2</td> <td>+1^m</td> <td>+15^s</td> <td>+6.3</td> </tr> <tr> <td></td> <td>NE</td> <td>SE</td> <td>W</td> <td>SW</td> <td>S</td> <td></td> </tr> <tr> <td>Nov 26</td> <td>-13.2</td> <td>+38.0</td> <td>-3.8</td> <td>0^m</td> <td>+3^s</td> <td></td> </tr> <tr> <td></td> <td>NE</td> <td>SE</td> <td>W</td> <td>SW</td> <td>S</td> <td></td> </tr> <tr> <td>Nov 21</td> <td>+5.8</td> <td>+19.4</td> <td>-7.0</td> <td>0^m</td> <td>-18^s</td> <td>-16.7</td> </tr> </table>										NE	SE	W	SW	S		Nov 28	-4.6	+9.1	+0.2	+1 ^m	+15 ^s	+6.3		NE	SE	W	SW	S		Nov 26	-13.2	+38.0	-3.8	0 ^m	+3 ^s			NE	SE	W	SW	S		Nov 21	+5.8	+19.4	-7.0	0 ^m	-18 ^s	-16.7
	NE	SE	W	SW	S																																													
Nov 28	-4.6	+9.1	+0.2	+1 ^m	+15 ^s	+6.3																																												
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	NE	SE	W	SW	S																																													
Nov 21	+5.8	+19.4	-7.0	0 ^m	-18 ^s	-16.7																																												

ome Temp... 28.9°F
 focus... 15.442 15:630 wrong focus set, changed to
 ome Temp... 20°F 15:432 after one hour exposure.
 15:475 as #d read it next morning.

Transparency Conditions
 Opened up and closed up after
 breaks in clouds failed to develop
 (several times) Fri - Sat, Nov. 28-29
 2:00 AM.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			(4.3)	CK5TA			
3 25 W	26 14	0-1	8.29	G0	3-3-3	AG, set 2 10/15	<u>Not to be used for radial velocity</u> <i>line with el. too red</i>
						Per Vol 4 Easton 1.2 Cramer	
	Focus	15.403				OTB 20/12	This focus OK

289

Date 1952 Nov, 29-30 Sat, -Sun Observer We Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
19842	32 Cygni	20 ^h 12 ^m 4	+47° 24'	I-25	E-103aD	0.008	-2.0	17 ^h 37 ^m	18 ^h 35 ^m	2
	"						-1.9	18 ^h 38 ^m	18 ^h 52 ^m	
	"							18 ^h 53 ^m	18 ^h 56 ^m	
19843	"	"	"	"	Hi-Speed	"	-1.9	18 ^h 57 ^m	21 ^h 27 ^m	1
	"						-1.9	21 ^h 27 ^m	21 ^h 53 ^m	
19843 F	Focus test	OTB	30/20							

Transparency Conditions.....

Dome Temp. 27 °F

Focus 15.421

Dome Temp.....

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 ^h 35 ^m	2 ^h 40 ^m W	+47° 33'	0.5	(4.3)	ck5+A	3 ^s -3 ^s -3 ^s	set 2 Cel. bin. feathered C; particularly in first part of upper	fine to 1/2
18 ^h 52 ^m	2 ^h 56 ^m W	"	0-1	"	"	3-3-3	set #1 19 8 39 (second) for field obs.	fine to 2/3
18 ^h 54 ^m	3 ^h 00 ^m W	"	1	"	"	3-3-3	set 8	fine to 2/3
21 ^h 57 ^m	5 ^h 13 ^m W	"	2-0!!!	"	"	6-6-3-3	1st 2 Cs moved in at 19 ^h 40 ^m (reduced 4 min)	fine to 2/3
21 ^h 53 ^m	5 ^h 57 ^m	"	0!!!	"	"	6-6-6	set 5 Closing 20 ^h 40 ^m - 20 ^h 45 ^m , then in-solus	wh all night
							Plot holder # 3 E-10320	
							4 Hi-Speed	

? Dec 1.

Date 1952 Nov. 30-31 Sun-Mon. 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.	Hour Angle End
19844	32 Cygni	20 ^h 12.4 ^m	+47° 24'	I-25	E-1032-D	0.008	-2.1	17 ^h 48 ^m	19 ^h 00 ^m	3 ^h 05 ^m W +4
	"						-2.1	19 ^h 00 ^m	19 ^h 32 ^m	3 ^h 30 ^m W
	"							19 ^h 22 ^m	19 ^h 2 ^m	3 ^h 54 ^m W
19845	32 Cygni	"	"	"	Hi-Speed	"	-2.2	19 ^h 27 ^m	21 ^h 27 ^m	4 ^h 36 ^m W
	"							21 ^h 29 ^m	21 ^h 4 ^m	W
19846	HD 12897	02 01.2	+25 51	"	E-1032-D	"	-2.1	21 ^h 50 ^m	23 ^h 20 ^m	3 ^h 30 ^m W +2
19847	AE Aurigae	05 09.7	+34 12	"	Hi-Speed	"	✓	23 ^h 27 ^m	2 ^h 50 ^m	4 ^h 28 ^m E +3
19848	HD 36484	05 26.9	+32 44	"	E-1032-D	"	✓ -2.1	23 ^h 47 ^m	24 ^h 11 ^m	5 ^h 7 ^m E +3
19849	HD 52780	09 29.1	+40 24	"	E-1032-D	"	✓ -2.0	00 00	01 10	3 ^h 00 ^m E +4
19850	HD 30353	04 41.8	43 06	"	"	"	✓ -2.0	01 27	03 12	4 ^h 20 ^m W
19851	A.E. Aurigae	05 09.7	+34 12	"	Hi-Speed	"	✓ -2.2	03 19	03 31	5 ^h 10 ^m W
19852	H.D. 36484	05 26.9	32 44	"	E-1032-D	"	✓ -2.2	03 43	04 05	5 ^h 58 ^m W
19853	H.D. 57267	07 15.4	26 21	"	"	"	✓ -2.2	04 12	05 57	6 ^h 30 ^m W
19854	" 82780	09 29.1	40 24	"	"	"	✓ -2.3	06 05	06 45	7 ^h 36 ^m W
	Home Test 0.7/1.3.									

Dome Temp. 22°F
 Focus 15.419
 Dome Temp. 14°F

Transparency Conditions *Clouds close to horizon, but clear, otherwise clear.*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 ^h 3 ^h 07 ^m W	+47° 33'	0!!!	(4.3)	OK5A	3 ² -3 ² -3 ²	Ed. Bin. set 2 star H 19837 (leeward) from station	fine to Rubin
19 ^h 3 ^h 30 ^m W		0!!!			3 ² -3 ² -3 ²	set 5 of guide field.	fine to 403
19 ^h 3 ^h 34 ^m W		0!!!			5-4	set 8	ok
19 ^h 3 ^h 36 ^m W	"	0!!!	"	"	6-6-6	set 2	fine to 4005
19 ^h 3 ^h 38 ^m W		0!!!			6-6-6	set 6 Eye stopped as soon as through telescope	ok
19 ^h 3 ^h 38 ^m W	+26° 04'	0	7.9	G15	3-6-3	AG 25. special plate that was req. with	fine - good
19 ^h 3 ^h 41 ^m E	+34° 15'	0	(5.5)	O8	6-6-6	Pec. v.m. set 2. Very poor guiding	poor
19 ^h 3 ^h 57 ^m E	+32° 44'	0	6.5	A2	3-3-3	Sp. Bin. set 2 white star of pair	ok
19 ^h 4 ^h 00 ^m E	40 09	0	6.9	F2	3-3-3	Sp. Bin. set 2	good
19 ^h 4 ^h 24 ^m W	43 11	0	8.3	Gop	3-3-3	Bidelman's * set 2.	0328 Seeing variable Mostly lousy
19 ^h 4 ^h 41 ^m W	34 14	0	(5.5)	O8	6-6-6	Pec. Vau. set 8.	Guiding poor, keep running off in
19 ^h 4 ^h 58 ^m W	32 44	0	6.5	A2	3-3-3	Sp. Bin. set 8	dec. as well as fine good
19 ^h 5 ^h 01 ^m W	26 13	0	8.29	G0	3-3-3	A.G. composite set 5	underapp at H and K, but think that sp. is appropriate. Dec. quite good
19 ^h 5 ^h 13 ^m W	40 09	0	6.90	F2	3-3-3	Sp. Bin. set 6	Conco 20 but no acting up.
					12/8	S.T. 9	ok
						Hon. M. 3 P.H. + 8 E 103.00	8 C. m. m.

Dome Temp. 24°F

Focus 15,414

Dome Temp.

Transparency Conditions cloudy at start of night.

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
21 ^h 39 ^m 5 ^h 49 ^m W	+47° 33'	0!!!	(4.3)	ck9+4	3 ³ -3 ³ -3 ⁵	Set 5 ecl. bin. Clear area except for few thin drifting Ci (but gradually thickening in general) Eggs stopped when blower tube reached in the pench.	fine to 4005																												
22 ^h 07 ^m E	+34° 15'	1-0	(5.5)	08	6 ³ -6-6	Set 2 see. wa. Delayed by clouds																													
23 ^h 37 ^m E		1			6-6-6	Clear on escape for few minutes. Ci at 22 ^h 25 ^m , and then Acu	not numbered																												
23 ^h 16 ^m E		1			6-6-6	Set 8 sky improving after 23 ^h 20 ^m																													
24 ^h 58 ^m E	+32° 46'	1	6.5	A2	B-3-3	Set 2 sky clear after 23 ^h 55 ^m time. Ci at some Acu moving in all night																													
						24 ^h 10 ^m Holler 4 E-1030-0																													
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MYU</td> <td>STW</td> <td>SW</td> <td>S</td> </tr> <tr> <td></td> <td>S</td> <td>S</td> <td>S</td> <td>m</td> <td></td> <td></td> </tr> <tr> <td>Dec. 3</td> <td>-13.8</td> <td>+22.0</td> <td>+10.2</td> <td>+1.2</td> <td>29⁵</td> <td>+12.2⁵</td> </tr> <tr> <td>5</td> <td>-17.3</td> <td>+32.2</td> <td>+14.2</td> <td>1.2</td> <td>33⁵</td> <td>46.3⁵</td> </tr> </table>		MC	SC	MYU	STW	SW	S		S	S	S	m			Dec. 3	-13.8	+22.0	+10.2	+1.2	29 ⁵	+12.2 ⁵	5	-17.3	+32.2	+14.2	1.2	33 ⁵	46.3 ⁵	
	MC	SC	MYU	STW	SW	S																													
	S	S	S	m																															
Dec. 3	-13.8	+22.0	+10.2	+1.2	29 ⁵	+12.2 ⁵																													
5	-17.3	+32.2	+14.2	1.2	33 ⁵	46.3 ⁵																													

Home Temp... +34°F

ocus..... 15.470

Home Temp.....

Transparency Conditions

296

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 25	56 W		0	(4.3)	CK5rA	3-3-3	Setting 1 Clouds ~ 1920 Solid by 1930	fine till all night
						30/20	9	
							PH #1, loaded w. E103a-0	

Date *Sun. Dec. 7-8/52* Observer *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.	Angle End	D.
19859	32 Cygni	20 12.4	47 24	I-25	E-10350	^{set} .008	+3.5	18 13	19 33	1	08W	47
								19 33	19 57		32W	
								19 57	20 03		38W	
19860*	M.W.C. 83	04 10.1	45 58	"	"	"	+3.5	20 26	21 36	2	11E	46
19861	M.W.C. 88	04 37.3	40 36	"	"	"	+3.5	21 43	21 53	2	38E	40
19862	M.W.C. 107	05 15.8	37 35	"	"	"	+3.5	21 58	22 50	3	40E	37
	Focus Test					O.T.B						
	* Wrong star. This is ^{HD} 26907 which is south component; we need north.											

Home Temp... 36°F

ocus... 15 489

Home Temp.....

Transparency Conditions *Hazy clouds at sunset.* 298

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 33	4 08 W	47 33	1	4.3	CKs+A	3-3-3	Set 1	fine to H3
19 57	4 32 W					3-3-3	" 5	fine to H3
20 03	4 38 W					3-3-3	" 10	fine to H4000
21 36	2 11 E	46 06	1	8.6	B(3)he	3-3-3	Set 2 Be prog.	str
21 53	1 58 E	40 41	1	6.1	B4nc	3-3-3	Set 9 " "	fine D. poor guiding Poor guiding
22 00	1 40 E	37 36	1	7.4	Bone	3-3-3	Set 2 " " haze + clouds	(good) all right
P.H. 4 loaded with 103								

we

Dome Temp. 37 °F

Focus 15.484

Dome Temp.

Transparency Conditions Very poor (cloudy) 300

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
2 ^h 05 ^m 5 ^h 44 ^m W	+47° 35'	0.20"!!	(4.3)	CK5TA	3 ³ 13 ³ 3 ³	Ecl. bin. Entire exposure through at 2 clouds, effective mid-exposure about 18 ^h 40 ^m . Exposure stopped a short time before telescope tube would touch north pier																						
				24/16	at 8																							
						Holders 1, 2 E 1032-0																						
						14 Feb E-1032-0 not same Hi-Point in boxes.																						
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MCW</td> <td>STW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>Dec. 10</td> <td>-08.0</td> <td>+16.2</td> <td>+17.0</td> <td>+1.7</td> <td>-2</td> <td>+13.0</td> </tr> <tr> <td>Dec. 12</td> <td>-3.7</td> <td>+17.5</td> <td>+15.8</td> <td>0</td> <td>-15</td> <td>+13.9</td> </tr> </table>		MC	SC	MCW	STW	SW	S	Dec. 10	-08.0	+16.2	+17.0	+1.7	-2	+13.0	Dec. 12	-3.7	+17.5	+15.8	0	-15	+13.9	
	MC	SC	MCW	STW	SW	S																						
Dec. 10	-08.0	+16.2	+17.0	+1.7	-2	+13.0																						
Dec. 12	-3.7	+17.5	+15.8	0	-15	+13.9																						

Dome Temp. 29°F

Focus 15.451

Dome Temp.

Transparency Conditions.....

302

Reading Time
R.S.T.

21^h 38^m

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 36 ^m	+40° 34'	0-0!!!	(4.3)	CK5TA	3 ³ 3 ³	Cel. bin. Operat. with hesitation because of earlier snow squalls. The test delayed by difficulty in opening shutter. Considerable thin clouds darkening tracks on focal test.	
					24/16		
						One of rubber boots that holds secondary camera broke when opening up.	
						Folder 2 E-1032-0	



Dome Temp. +34°F

Focus..... 15.477.

Dome Temp.....

Transparency Conditions *Passing light clouds*

304

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
19 25	4 36 W	47 33	0	4.3	CKSTA	3-3-3	<i>much cloud</i>															
			10			3-3	<i>at 2.5 about 5 mins of clear sky</i>	<i>fine to 14250</i>														
						24/16	<i>thick at 19.55</i>	<i>center slightly</i>														
							<i>P.H. 4 loaded with 103.0-0</i>	<i>to red, but</i>														
							<i>all right</i>															
							<table> <tr> <td></td> <td><i>MC</i></td> <td><i>SC</i></td> <td><i>HYW</i></td> <td><i>STU</i></td> <td><i>SW</i></td> <td><i>SE</i></td> </tr> <tr> <td><i>Dec. 17</i></td> <td><i>-2.7</i></td> <td><i>+13.6</i></td> <td><i>+14.8</i></td> <td><i>0^m</i></td> <td><i>+18^S</i></td> <td><i>+7.8</i></td> </tr> </table>		<i>MC</i>	<i>SC</i>	<i>HYW</i>	<i>STU</i>	<i>SW</i>	<i>SE</i>	<i>Dec. 17</i>	<i>-2.7</i>	<i>+13.6</i>	<i>+14.8</i>	<i>0^m</i>	<i>+18^S</i>	<i>+7.8</i>	
	<i>MC</i>	<i>SC</i>	<i>HYW</i>	<i>STU</i>	<i>SW</i>	<i>SE</i>																
<i>Dec. 17</i>	<i>-2.7</i>	<i>+13.6</i>	<i>+14.8</i>	<i>0^m</i>	<i>+18^S</i>	<i>+7.8</i>																

Dec?

Date Thurs Nov 18-19/52 Observer L-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.
19867	32 Cygni	20 12.4	47 24	I-25	K-10340	^{set} .008	+0.3	17 35	18 35	4
							+0.2	18 35	18 55	
							+0.2	18 55	19 01	
{ 19868	30 Cygni	20 10.2	46 31	"	Highspeed	.008	+0.2	19 06	19 16	1
{ 19869	BD+45° 3152	20 18.9	45 27	"	"		+0.0	19 22	19 58	V

Dome Temp.....+30°F

Focus.....15.447

Dome Temp.....

Transparency Conditions *Fair at first*

306

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 35	N 3 53	47 33	0	4.3	CKs+n	3-3-3	Set 1	fine to 3880
18 55	N 4 14		0.1			3-3-3	" 5	poor guiding fine to K-hi
19 01	N 4 20		1			3-3-3	" 9	poor guiding fine to 4030
19 16	N 4 36	46 39	1	5.0	A2	3-3-3	" 2 } Res. Uhles. (we)	fine
19 58	N 5 09	45 38	0	6.9	K0	3-3-3	" 9 } cloudy from start * gone 1958 PH #2 loaded @ 1030	fine

Date FRIDAY, DEC 19, 1952 Observer Wm - Max Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End
19870	32 Cygni	20 12.4	+47°24'	I-25	E103a-0	SET 008	+0.3°	17 24	18 54	2	4°16'
							+0.4	18 55	19 25		4°47'
								19 25	19 35		4°57'
{ 19871	32 Cygni	"	"	"	"	"	+0.3	19 35	20 30	3	5°52'
{ 19872	HD 19 485	03 02.8	+25 13	"	"	"	+0.4	20 38	23 08		+2
	Focus test					D.T.B.					
19873	HD 30 353	04 41.8	+43 06	"	E103a-0	alt '008	-1.0				

ome Temp. +4°

Slightly different from summer observing.

Transparency Conditions Good

310

ocus.....15.....565

ome Temp. +4°

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 25	03 W	+40 10	01	6.90	F2	3-3-3	good
5 55	58 W	27 37	0	8.70	G5	6-6-6 30-20	clouds 5.45 too wide center displaced to red
						ph #2 - Hi Speed	
						#3 - F103a0	
						#4 - F103a0	

Dome Temp. +22°F

Focus 15.367

Dome Temp.

Transparency Conditions O.K.

312

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
03	42W	4311	0	8.3	Gop	3-3-3 12/8	Bidelman's * set 2. 0158 Cloud N, N.W., W. 0207 Cloud in area where working.	fine all right																					
							H. on M.																						
							PH #2 H. Speed																						
							" #4. E 10300																						
							<table border="0"> <tr> <td></td> <td>HL</td> <td>RC</td> <td>HYC</td> <td>STW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>Dec. 29</td> <td>-3.5^s</td> <td>-7.7^s</td> <td>+19.5^s</td> <td>-.1^m</td> <td>+4^s</td> <td>-7.9^s</td> </tr> <tr> <td>20</td> <td>-3.2^s</td> <td>-8.6^s</td> <td>+20.0^s</td> <td>-.1^m</td> <td>-1^s</td> <td>-6.8^s</td> </tr> </table>		HL	RC	HYC	STW	SW	S	Dec. 29	-3.5 ^s	-7.7 ^s	+19.5 ^s	-.1 ^m	+4 ^s	-7.9 ^s	20	-3.2 ^s	-8.6 ^s	+20.0 ^s	-.1 ^m	-1 ^s	-6.8 ^s	
	HL	RC	HYC	STW	SW	S																							
Dec. 29	-3.5 ^s	-7.7 ^s	+19.5 ^s	-.1 ^m	+4 ^s	-7.9 ^s																							
20	-3.2 ^s	-8.6 ^s	+20.0 ^s	-.1 ^m	-1 ^s	-6.8 ^s																							
							1953																						
							Jan 2. -3.0 ^s -12.0 ^s +21.8 ^s -.2 ^m -26.0 ^s -9.2 ^s																						
							Jan 5 -3.0 ^s -6.4 ^s +19.8 ^s .0 -25.1 ^s -3.2 ^s																						
							Jan 7 -2.4 ^s +1.3 ^s -17.8 ^s -.2 ^m +12 ^s +5.5 ^s																						
							Jan 9 -1.0 ^s -21.9 ^s +15.0 ^s -.3 ^m -16.4 ^s -16.9 ^s																						

Dome Temp. 33°F
 Focus 15.470, 15.466
 Dome Temp. 32°F

Transparency Conditions good

3.14

plates 19879, 19880, 19881 have bad dust streak (from slit) down spectrum. Earlier plates all right. ∴ The slit needs cleaning.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 43W	47 34	2	4.3	OK+A	3-3-3	set 2	3900
2 26W	51 00	2	75.87	F5-G2	3-3-3	set 8 TUCas	Poor guiding
1 30W	25 24	1	870	G5	3-3-	set 2 Sp. bin	Visual double? I used in the south component.
					12/8	set 8	1950 becoming cloudy
						Plu no 3. E103a-0	
0 354W	43 14	1*	8.3	G0p	3-3-3	set 2 Hydru. ² Hi-speed	Wrong star. Identified as HD 30308
0 457W	26 13	1-2	8.29	G0	3-3-3	set 8 Comp A.G.	* Variable 0-1-2
0 344W	40 10	0	6.90	F2	6-6-6	set 2 Spect. Bin	0250 quite Foggy Some Haze
					24/16	0547 Cloud from W. 1	* Almost gone from slit.
						P.H. #182 loaded E103-20 +2	
						? Hi-speed.	
						MC 5c 5 MV 3	SW 5 S 5
						Jan 14 -1.7 -27.9 +9.3	- .4 2 +9 5 -22.7

good
 water chip
 no set 2
 all right
 weak
 instability
 at K-fine
 band, but
 faint, above
 2.5
 color chip
 in set 8
 all right

315

Date Jan 16/17 Fri - Sat. 1953. Observer *Ho* - *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.
19882	32 Cyg	20 12.4	+47 24	I-25	E103-a-0	slit .008	-1.4	18 03	18 35	1
19883	HD 2207	00 20.9	+50 44	"	"	"	-1.8	18 45	20 15	2
19884	HD 30353 30308	04 41.3	+43 08.9	"	"	"	-1.8	20 24	22 24	3
19885	HD 26424	05 26.9	+32 44	"	"	"	-2.0	22 31	22 55	3
19886	AE Aur	05 09.7	+34 12	"	"	"	-2.0	22 00	23 14	3
19887	HD. 57267	07 15.4	+26 21	"	"	"	-2.0	23 23	05 07	3
19888	HD 57280 Focus test OTB	09 29.1	+40 24		1175					

Dome Temp. +17°F

Transparency Conditions *good*

316

Focus 15.425

Dome Temp. +12°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15:25	5 47 W	47 34	0	4.3	CK5+A	3-3-3		<i>line for 4050</i>
15:35	3 18 W	51 02	0	7.5-8.7	F5-B23	3-3-3	set 2 TUCas	<i>weak</i>
15:45	1 06 W	43 14	0	8.3	G0-p	3-3-3	set 8 <i>Not</i> Bridgman star See sketch for plate # 19879	<i>Too weak</i>
15:55	0 52 W	33 44	0	6.5	A2	3-3-3	set 2 Sp. bin.	<i>Too weak</i>
16:05	1 28 W	34 15	0	6.0	08	3-3-3	set 8 Rec. Bar	<i>Too weak</i>
16:07	5 15 W	26 14	0	8.29	G0	3-3-3	set 2 Composite A.G. { scattered clouds being 4 pm	<i>Too weak</i>
			0	6.90	F2		set 2 double lens binary Clouded in 5:47 ^{pm}	
						10/7	set 8 Center exp. weak	<i>all right</i>
							1 PH loaded → #1 with Hi Speed	
							Wood 103 - 0.0 plates	

Date Jan 20/21 1953 Observer Ho - 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.
19888	32 Cygni	20 12.4	+47 24	I-25	E103aD	^{Ret} .008	-0.5	18 07	18 25	2
19889	{ HD 30353	04 41.8	+43 06	"	"	"	-0.6	19 05	20 45	3
19890	{ HD 19485	03 02.8	25 13	"	"	"	-0.7	20 57	23 45	3
19891	{ AE Aur	05 09.7	+34 12	"	"	"	-1.5	23 53	00 13	4
19892	{ HD 36484	05 26.9	+32 44	"	"	"	-1.8	00 22	00 56	4
19893	{ " 82780	09 29.1	40 24	"	H.Speed	"	-2.0	01 05	02 55	4
	{ <i>From Tent</i>				<i>0.8 B.</i>					
	Plunger on Spectrograph will not push all the way home.									

Dome Temp... 31°F
 Focus... 15.437
 Dome Temp... 23°F

Transparency Conditions *Good*

318

Trouble setting temperature control delayed start slightly.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 25	275 50 W	—	0 0 0	4.3	K5+A	3-3-3	<i>Dec. Clamp stuck</i>	fine
20 45	30 18 E	43 11	0 2	8.3	Q. P.	3-3-3	<i>Bidelman - Plates #19884 + 19879 are wrong!</i>	fine
23 45	34 22 W	25 25	1	8.7	G5	3-3-3	<i>Set 7 - Sp. bin. - a little light cloud</i>	l. sub-good
00 15	243 W	34 15	0-1	6.0	O8	3-3-3	<i>Set 2 - Pac Var.</i>	str
00 55	0309 W	3245	0	6.5	A2	3-3-3	<i>" 8 Sp. Bin.</i>	fine
01 55	0107 W	40 10	0!	6.90	F2	6-6-6	<i>" 2 Sp. Bin.</i>	fine
							<i>24/15</i>	
							<i>3 P.H. loaded E103a0</i>	
							<i>H. on M.</i>	

fields differ
spectrograms show that to be nearer K0?
19850 is correct.
Poor guiding
upside down.
Cloud
Seeing 1.5"
also guiding

Jan 21 Field of 30353 checked in B.D. Plate no. 19889 is right star

	MC	SE	NEW	SW	S
<i>Jan 21</i>	<i>-0.3</i>	<i>-37.7</i>	<i>-4.8</i>	<i>-.2^m</i>	<i>-28.9</i>
<i>23</i>	<i>0.0</i>	<i>-40.1</i>	<i>-10.0</i>	<i>-.2^m</i>	<i>-30.3</i>

319 R₀ = DR. NANCY ROMAN, YERKES OBSERVATORY.

R₀

Date Jan 26/27 1953 Observer H0- 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.
19894	32 Cygni	20 12 4	47 21	F12	F10320	008				
19894	H0 15721	02 86	-10 13	"	"	"	-4.8	18 15	19 04	
19895	F29° 7314	04 403	+29 07				-4.8			

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

Focus 12.925

Dome Temp.

Transparency Conditions High Atmos - Halo around \odot

320

Jan 26 Changed to $12\frac{1}{2}$ " Camera

{ 25" lens Focus 15.435
Set 23.15

$12\frac{1}{2}$ " lens Focus 12.925
Set 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			4.3	CK5A		Out of the question - can be used with pin.	
0 57 ^W	-10 02	0	8.7	F0	1-1-1	High Velocity Set 2	Very weak
		0	9.5	B9		Cloudy	

1 Pk. loaded with 103.6

	ME	SC	MYW	STW	SW	S
Jan 28	$+10.2^S$	-43.6^S	-11.0^S	0.0^m		-32.4^S
30	$+10.7^S$	-50.1^S	-16.8^S	-0.1^m	$+23^S$	-38.3^S

Dome Temp. +12°F

Transparency Conditions

322

ocus 12.925

Dome Temp.

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 44	5 16W	+55° 1'	0	9.1	Ao	1-1-1	Set 2 1/2 High Vel.	very weak
22 44	2 10W	+55° 21'	0	9.4	GeV	1-1-1	" 7 1/2 " " loads, more clouds	l. weak
							Star gone at 22.44	
							4 P.H.s loaded with 103A.	
							Plates needed	

ome Temp: 21°
 ocus: 12.925
 ome Temp:

Transparency Conditions *mod at beginning, poor later* 324

Ending Time
 E.S.T.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+55° 0'	0	9.1	A0	1 ^s -1 ^s -1 ^s	clouds after 19:45 stopped by clouds at 2.5 4-6 clear again	very weak <i>at 7.5 st. to red.</i>
2:51 ^m h	43 ^m W +43° 10'	1-	8.3	G10p	1 ^s -1 ^s -1 ^s	Set 2. Bildma. 6 stars, see clatful 9889	fine
2:10 ^m h	10 ^m W +42° 30'	1	7.85	G2	1-1-1	Set 8. 1st vel. stars.	fine
4:41 ^m h	14 ^m W +55° 19'	0	9.4	G2V	1 ^s 2 ^s 1 ^s	at 2.5 H.V. star	weak
	+58 06 0	0	9.7	G0	1- -	Set 8 Delayed by clouds at 24:50 H.V. star	very weak

1 loaded plateholder (103aD in case)

	MC	SC	MTW	STW	SW	S
Feb. 4	-1.7 ^s	-11.3 ^s	-18.8 ^s	-1 ^m	+6	-12.5 ^s
Feb. 6	-2.9 ^s	-07.0 ^s	-22.8 ^s	-3 ^m	+10 ^s	-3.8 ^s

Home Temp. +25°

Focus 12.925

Home Temp.

Transparency Conditions fair (excellent under clear)

326

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
22:53	W 4:21	-1° 27'	0	10.1	G7V	1-1 4-6	H.Vel. some clouds (20:50) thick (21:30) hazeless (21:45) nothing later	40 WGSW Continual to red																					
							4 plateholders loaded with 103a0																						
							<table border="0"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>SW</td> <td>NW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>Feb. 11</td> <td>4.4^s</td> <td>-1.2^s</td> <td>+28.8^s</td> <td>+24.2^s</td> <td>-8^s</td> <td>-9.4^s</td> </tr> <tr> <td>13</td> <td>+4.5^s</td> <td>+1.1^s</td> <td>+3.3^m</td> <td>+24.0^s</td> <td>12^s</td> <td>-9.0^s</td> </tr> </table>		NE	SE	SW	NW	SW	S	Feb. 11	4.4 ^s	-1.2 ^s	+28.8 ^s	+24.2 ^s	-8 ^s	-9.4 ^s	13	+4.5 ^s	+1.1 ^s	+3.3 ^m	+24.0 ^s	12 ^s	-9.0 ^s	
	NE	SE	SW	NW	SW	S																							
Feb. 11	4.4 ^s	-1.2 ^s	+28.8 ^s	+24.2 ^s	-8 ^s	-9.4 ^s																							
13	+4.5 ^s	+1.1 ^s	+3.3 ^m	+24.0 ^s	12 ^s	-9.0 ^s																							

ome Temp. $+27^{\circ}\text{F}$
 ocus 12.915
 ome Temp. $+26^{\circ}\text{F}$

dry focus 12.915

Transparency Conditions *good*

328

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
14 5:05	+54° 21'	0-	9.3	A0	1-1	<i>started to snow before I got the dome closed (20:20)! I.R. High Vel. set 2 1/2 stopped by clouds</i>	<i>very weak</i>
						<i>3 loaded plate holders</i>	

Home Temp. 20
 Focus 12:915
 Home Temp.

Transparency Conditions *Variab*

330

Reading Time R.S.T.	Hour Angle End	Declination	Seeing	Ftg. Mag.	Sp.	Comp.	REMARKS	Quality
01:10	02 18 W	19 03	1	8.9	GOV	1-1-1	at 2 0005 Considerable Cloud	l weak
							0014 Can't see a thing.	
							0117 solid	
						4/3	Set 9	center of the field
							0219 "	

331

Date *Tue / Wed* Feb 17/18Observer *Ro - 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.
19905-	HD 26162	4 03.3	+19° 21'	12 1/2	103a0	.008	-3.4	18:37	18:45
19906	HD 30353	4 41.8	+43° 06'	"	"	"	"	18:55	19:20
19907	-1° 1792	7 34.8	-1° 17'	"	"	"	-1.1	19:32	23:06
19908	HD 74721	8 40.4	+13° 58'	"	"	"	+2.7	23:18	0:22
<i>Focus of test 0.75</i>									

Home Temp. 72.3°F
 Focus 12.920
 Home Temp.

Transparency Conditions good until 2:15, except from 19:40 until 22:15

Hour Angle - End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:13 ^W	+19° 28'	15	6.45	K1	1-1-	standard vel. set 2	fine
0:07 ^W	+13° 12'		8.3	G0p	1-1-1	Bidelman's star set 7	fine
1:03 ^W	-1° 26'		10.1	G7V	1-1-1	High vel (HR) clouds at 19:40 but 30 ^{min} more clouds 21:15 set 2	weak
0113W	+13° 25'	0	8.7	B9	1-1-1	" " clouds 23:55 set 7	low at center of star
					4/3	set 9 0115 Quite Solid	
						4 P.H. loaded!	
						H. on M.	
						ME SC MYW SW SW S	
						Feb. 15/53 +5.2 +5.4 +17.0 +3 ^m +27 ^s -8.7 ^s	
						20/53 +5.8 +6.0 +11.0 +2 ^m -30 ^s -7.8 ^s	
						Mr. Feb 15/53 at cum clouds	
						for 5 minutes filled mag 170	

333

Date Mar 1958, Feb 23/24, 1958 Observer Ho - Hic Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
19909	HD 30353	04 ^h 41.8 ^m	+43° 06'	I 12 $\frac{1}{2}$ "	F10300	lit .008	02.0	20 ^h 42 ^m	21 ^h 55 ^m	2	3 ^h 10 ^m
19910	+19° 1749	07 24.6	+19 10	"	"	"	02.1	22 03	23 05	3	2 ^h 41 ^m
19911	HD 86986	09 57.1	+15 02	"	"	"	02.0	23 11	23 41	3	2 ^h 29 ^m
19912	HD 104817	11 59.1	+02 01	"	"	"	02.0	23 55	00 03	4	13 ^h 12 ^m
19913	+22° 2442	12 03.9	+22 21	"	"	"	02.2	00 38	01 12	4	2 ^h 02 ^m
19914	+14° 2771	14 36.7	14 02	"	"	"	2.0	04 45	06 05	1	2 ^h 02 ^m
	Focus lost					O.F.B.					

Dome Temp. +33°F

focus at 12.910

Transparency Conditions Fair

Focus 12.920

Dome Temp. [12.910] Hr

clouds clearing at 20^h (approx.)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 ^h 11 ^m W	+43° 11'	0	8.3	GO P	1-1-1	Bidelman's * - slight amount of cloud.	too strong
01 34 W	+19 02	0	8.9	GO V	1-1-1	High Velocity * ; Focus changed to 12.910. Set 2	fine
10. 22 E	+14 46	0-2	8.1	A IV	1-1-1	High Velocity *. Some very light cloud. Set 8	fine
1 33 E	+01 41	1	7.9	A 2	1-1-1	High Velocity *. Clouds delayed starting Set 2	strong
02 29 W	+22 02	0	10.2	GO	1-1-1	High Velocity * ⁰⁰⁴ Thin Clouds Set 8	slightly strong
0 12 4 W	+13 46	0	9.0	G 2 V	1-1-1	" " Set 2	fine
					4/3		all right

1 P.H. + 3

H. on M.

	MC	SC	MYU	STW	SW	S
Feb. 25 / 53	+7.2 ^s	+13.5 ^s	+7.7 ^s	.0 m	0 ^s	-7.1 ^s
27 / 53	+7.3 ^s	+16.7 ^s	+3.8 ^s	+1 m	+4.8 ^s	-6.1 ^s

Dome Temp. +17°

Focus 12.210

Dome Temp. +8

Transparency Conditions thin cirrus clouds

336

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
computed (0:37 ^W)	+19° 26'	0.1	6.45	K1	1-1-1	standard velocity	weak
4:00 ^W	+29° 12'	0.1	9.5	B ^a	1-1-1	lost time replotting declination slow motion fuse NR High velocity rightward set 7	too weak
1:48 ^W	+13 26	0	8.7	B9	1-1-	Hi. Vel.	weak
0038W	-1148	0!!*	8.9	A ₂	1-1-1	Hi. Vel. set. 7	too weak
0146E	+0512	0!!	9.0	F ₀ V	1-1-1	" " " 2	too weak
					4/3		
						1 P.H. loaded	
						PL + 1-1-1	
						H. on M.	
						0230 M. sky over with thin cirrus	
						0320 Very Heavy several [unclear] SW S	
						March 6 MC SC MTW STW +34.9 -5.7	

Dome Temp. +22° F
 Focus..... 12.910
 Dome Temp. +12° F

Transparency Conditions *good*

338

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:19 ^W	43° 11	1+	8.3	60p	1-1-	interesting astero. Bidelman's star	l wk
1 00 W	19 41	2	5.39	F5	1-1-1	ret 9 Ad. vel.	l strong
2 14 W	50 41	1	(9.6)	50	1-1-1	ret 2 Wuddy, image unsteady, Hi-Vel x	too wk
1 28 W	12 48	1-2	10.0	(F2)	1-1-1	ret 5 "	weak
0 48 W	-1 58	2	9.2	A3V	1-1-1	ret 2 "	too weak
1 00 W	5 12	2	9.0	F0V	1-1-1	ret 5	weak
						4/3 ret 8 at ret 10 mistake	
						2PH. loc. det.	

Dome Temp. +22° F

Focus 12.9.10

Dome Temp. +21

Transparency Conditions *grad.*

340

brilliant curtain aurora; luminescent clouds in the south + dark.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
1:42 ^w	+19°26	1	6.45	K1	1/2-1/2	standard set 2	<i>weak</i>														
3:12 ^w	+29°13	1-2	9.5	B9	1-1-1 4-3	N-R High Vel set 7 set 9 <i>effective midexposure 19:45 clouds 20:10</i>	<i>very weak</i>														
						1 loaded PH (10300)															
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>March 16</td> <td>-0.2^s</td> <td>-3.1^s</td> <td>+9.8^s</td> <td>+1.1^m</td> <td>-25.3^s</td> <td>-4.3^s</td> </tr> </table>		MC	SC	MTW	STW	SW	S	March 16	-0.2 ^s	-3.1 ^s	+9.8 ^s	+1.1 ^m	-25.3 ^s	-4.3 ^s	
	MC	SC	MTW	STW	SW	S															
March 16	-0.2 ^s	-3.1 ^s	+9.8 ^s	+1.1 ^m	-25.3 ^s	-4.3 ^s															

341

Date Tues Mar 10-11 1953 Observer L-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.	Star Angle End
19928	-10 1792	7 34.8	-01 17	I-12 $\frac{1}{2}$	E-103 _A -D	Set .008	-2.3	19 33	21 43	3	102 W -0
19929	H.D. 100363	11 27.8	-11 29	"	"	"	-2.4	21 50	23 30		104 E -1
19930	" 97916	11 10.7	+02 06	"	"	"	-2.5	23 35	01 53	4	113 W -0
19931	" 136161	15 14.0	-01 48	"	"	"	-2.6	02 04	03 44	"	005 -
19932	+14° 2771	14 36.7	14 02	"	"	"	-2.8	03 53	05 13	1	013 W
19933	H.D. 144579	16 01.5	+39 24	"	"	"	-2.8	05 24	05 50	1	107 W -
	<i>Focus</i>	<i>feet</i>			<i>0.7 B.</i>						

Dome Temp. 122°F

Transparency Conditions Good

342

Focus 12.910

Dome Temp. 72.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 43	3 1 02 W	-01 27	0	10.1	G7V	1-1-1	High velocity.	very weak
23 30	1 04 E	-11 47	0	8.9	A2	1-1-1	" "	l weak
00 04	01 37 W	+02 19	0	9.6	F5	1-1-1	" "	l weak
00 30	00 35 E	-02 02	0	9.2	A3V	1-1-1	" " Set 8 <u>0225</u> Windy	fine
00 40	01 31 W	+13 47	0	9.0	G2V	1-1-1	" " Set 2	l weak
00 50	00 44 W	+39 15	00!!	7.62	G8	1-1-1	Std. Vel. Set 7.	good
						4/3		
							2 P.H. Loaded.	
							H. on M.	

345

Date Mar 17/18 Tue/Wed Observer Ro-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.I.
{ 19935	HD 26162	7 3.3	+19 21	12 1/2	E 10320	.008	+5.9	19:10	19:16	3
{ 19936	HD 30353	4 41.8	+43 06	"	"	"	+5.9	19:20	19:5	3
{ 19937	HD 75530	8 45.4	-5° 9	"	"	"	+5.8	19:57	22:16	4
{ 19938	+25° 1981	8:38.5	+25° 10	"	"	"	+5.8	22:22	00:11	4
{ 19939	H.D. 126681	14 21.9	-17 57	"	"	"	5.5	01 02	03 50	1
{ 19940	H.D. 142575	15 50.2	+05 23	"	"	"	5.4	03 57	05 41	1
Hours		Feet		0.75 B.						

Dome Temp... +41°

Transparency Conditions *good*

346

Focus... 12.9.10

Dome Temp... 31°

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2:32	+19 29	1-	6.45	K1	1/2-1/2	set 2 stand vel *	good
W 2:23	+43 12		8.3	Gop	1-1-1	set 7 Bidelman's *	line
W 9:52	-5 21	0	9.9	G5	1-1-1	set 2 High vel *	l. weak
037 CW	+24 59	1-	9.6	F0	1-1-1	set 7 " " " thin clouds 23:45-	fine
10:50 W*	-18 12	0	9.9	G0	1-1-1	set 2 " " " 0203 Seeing Lousy Guiding	too weak
11:13 W	+05 13	0	9.0	F0	1-1-1	set 7 " " " 4/3 * As far West as possible	l. weak

2 P.H. Loaded.
Plates Needed.

March 20

mc	sc	mm	str	sw	S	S
-2.9 ^s	+6.7 ^s	-55.7 ^s	-4 ^m	+14 ^s	+4.5 ^s	

347

Hi-Altitude program 22^h45 - 23^h15

Date Mar 20/21, 1953, Fri-Sat. Observer Pix-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.	Hour Angle End
19941	-10° 34' 52"	12 16.0	-10° 55'	12 1/2	E103-a-D	2L 0.008	+3.5	23 36	00 42	2	00 00 -
19942	HD 126681	14 21.9	-17° 57'	"	"	"	+3.8	00 51	03 45		02 50 -
19943	HD 145001 HD 145001	16 3.6	+17° 19'	"	"	"	+3.6	03 54	04 00	3	04 35 -
19944	H 142575	75 50.2	+5° 23'	"	"	"	+3.5	04 20	05 35		05 10 -

Dome Temp. 34.0° E
 Focus 12.910
 Dome Temp. +2.6

Mon. 18-19 Cloudy with
 only some haze in
 clouds, although very
 bright stars just visible
 much of time. No seeing obs.
 attempt. C.M.

Transparency Conditions good
 weak aurora

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
42	00 00	-11 13	.9	8.6	(A0)	1-1-1	set 2, Hi-veloc.	l. weak
03 43	00 52W	-18 11	0	9.9	G0	1-1-1	set 8, High Velocity - Around fog	too weak
4 00 3	00 32 E	+17 11	00-1	6.12	G4	1-1-1	Std Vel. Set 2 (spiral brightest & farthest fine parts of double)	good
05 17	01 18W	+05 10	0	9.0	F0V	1-1-1	High Vel. Set 8 - Heavy mist.	good
							(forgot about focus test when set 8; did not waste another plate on focus test)	
							2 PH's loaded E103 a0	
							Need new pencil.	

Sat/Sun.

Date Mar 21-22 1958 Observer L-Pr 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.
19945	HD. 86986	09 57.1	+15 02	I-12 $\frac{1}{2}$	F-103A0	set .008	+6.0°	21 35	22 25	4
19946	" 97916	11 10.7	+02 06	"	"	"	+6.0°	22 30	01 20	
19947	HD 136161	15 14.0	-01 48	"	"	"	+6.0	01 44	02 14	1
19948	+14° 2771	14 36.7	+14 02	"	"	"	+6.0	03 21	04 17	
19949	HD 117701	16 36	+17 19	"	"	"	+6.0	05 01	05 05	
	Focus test									
<p>March 24 Hd-L-Pr. changed to I-8 Aerial camera lens.</p>										
19949F ₁	Focus test	Tilt	-20.35	I-8	F103A0, old .008	sets 0, 2, 4, 6, 8, 10		Focus	15, 14, 13, 12, 11, 10	
19949F ₂	"	"	"	"	"	0, 2, 4		"	9, 8, 7	
" F ₃	" (Hartmann)	"	"	"	"	0, 2, 4, 6, 8, 10		"	8, 7.8, 7.6, 7.4, 7.2, 7.0	QTB
" F ₄	"	"	Focus 7.6			sets 0, 1, 3, 5, 7, 9, 10 $\frac{1}{2}$		Tilt: div	20, 22, 24, 26, 28, 30	
	Sky				F-103A0	sets 0 2 4 6 8 10, $\frac{1}{2}$, $\frac{1}{4}$			12 5 10 sec	

Home Temp. 40°F
 Focus 12.910
 Home Temp. 36°F

Transparency Conditions variable, improving

Delayed start because of light clouds and haze

Ending Time L.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
22 25	0 03W	+14 47	0	8.1	AIV	1-1-1	High Velocity	quite weak																												
	1 56W	+02 19	0	9.6	F3	1-1-1	" " light haze, none	weak																												
	1 37E	-02 00	0-1	9.2	A3V	1-1-1	" " net 2 light clouds	weak																												
	1 52W	13 49	1	9.0	G2V	1-1-1	" " net 5	good																												
	0 41W	17 10	1	6.12	G4	1-1-1	Std. veloc. net 8	fine																												
							4/3 net 10	all night (Contingency net 10, 11, 12 very - 10)																												
							2 PH. loaded																													
							I-12 focus was 12.910 Tilt 20.35																													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MPW</td> <td>SPW</td> <td>SAW</td> <td>S</td> </tr> <tr> <td>March 24</td> <td>-1.52</td> <td>5</td> <td>+19.58</td> <td>+5^m</td> <td>-4.0^s</td> <td>+2.7</td> </tr> <tr> <td></td> <td>5</td> <td>5</td> <td>+36.0</td> <td></td> <td></td> <td></td> </tr> <tr> <td>27</td> <td>-6.8</td> <td>+4.3</td> <td>+19.0</td> <td>+2^m</td> <td>+27^s</td> <td>+2.7^s</td> </tr> </table>		MC	SC	MPW	SPW	SAW	S	March 24	-1.52	5	+19.58	+5 ^m	-4.0 ^s	+2.7		5	5	+36.0				27	-6.8	+4.3	+19.0	+2 ^m	+27 ^s	+2.7 ^s	
	MC	SC	MPW	SPW	SAW	S																														
March 24	-1.52	5	+19.58	+5 ^m	-4.0 ^s	+2.7																														
	5	5	+36.0																																	
27	-6.8	+4.3	+19.0	+2 ^m	+27 ^s	+2.7 ^s																														
	Time 2 sees.																																			
	" 4 A																																			
	O.T.B.	8/6																																		
	"	8/8																																		
	Focus	7.6					Tilt 20.00																													

Date 1953 Mar. 30-31 Mon-Tue Observer We - Hur 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
19950	HD 30353	4 ^h 41 ^m .8	+43° 06'	I-12 ^{1/2}	E-1032-0	0.028	+3.20	19 ^h 57 ^m	21 ^h	2
19951	HD 7501-259	6 ^h 44.6	+50 46	"	"	"	+2.7	02 ^m 03 ^s	03 ^m 13 ^s	1
19952	HD 86980	9 52.1	+15 02	"	"	"	+2.0	0 ^m 01 ^s	01 ^m 12 ^s	1
19953	" 136161	15 14.0	-0 11	"	"	"	+1.8	01 04	02 11	2
19954	142575	15 50.2	+0 52	"	"	"	+1.3	03 34	06 09	1
	<i>From ...</i>									

Dome Temp. 129
Dome Temp.

Hour Angle
End

Dome Temp. 34°
 Focus 12,910
 Dome Temp. +3.5°

No dust control.

Transparency Conditions

Clean up...
 ...
 ...

Hr and L worked for over an hour
 trying to fix dust control...
 but after 1 hr. of...
 ...

Reading Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^m 47 ^m W	+43° 12'	0!!	8.3	Gup	1 ^s -1 ^s	Bld... Temp. +3.2 → 3.5 → 3.2	good
5 ^m 1 ^m W	+50 42	0-76	8.9	H3p	1/2-2-2-2	High velocity... No temp. control...	poor
03 02 W	14 47	0!!	8.1	A1V	1/2-1/2-1/2-1/2	Hi-Vel. lat. 8	good
00 11 W	-02 01	0!!	7.2	H2V	1/2-1/2-1/2-1/2	" " Set	good
7/32 W	+05 10	0	9.0	F04	1/2-2-2-1/2	" " 7 long... +1.1	good
					4/3		all right
						1 P.H. + 2	
						Hum M	
						March 31	
						uc ^s -9.2	
						sc ^s -1.1	
						MYW ^s +21.6	
						STW +3 ^m	
						S ^s -1.3	
						SW ^s +13 ^s	

Date 1953 April 1-2 Wed-Thurs Observer We - Hsr 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.
19955	BD+51°16A	11 ^h 20.6 ^m	+50° 55'	E-12 $\frac{1}{2}$ "	E-103-0	0.008	+7.7°	23 ^h 34 ^m	02:34	3
19956	H.D. 145001	16 03.6	+17 19	"	"	"	+7.3	0244	0250	3
19957	H.D. 126327	14 19.7	+26 11	"	"	"	7.4	0305	0505	2
	B.X. 1300									
	House									

Dome Temp. 4
Focus 12.9
Dome Temp.

Hour Angle
End
33
35
37

Dome Temp. 43°F.

Focus 12.910

Dome Temp. 34

Transparency Conditions *Observed early. Clearing up into 30"*

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 033 4 W	+50° 38'	0	(9.6)	G0	1 ^s -1	High velocity. 2 wind rising.	too weak
0052 E	+17 11	0!	6.12	G4	1-1	Std. Vel. Set. 7	fine detail
0307 W	+25 56	0!	Vis. 7-8	M8	1-1	A.G. 2.5 ' 2 4/3 Previous plate on RX Bo #19567 was Too weak after 60m exposure. Try 120m.	0312 Large patches of clouds moving quickly all right
						4 P.H.E. 0310 + 8.	
						H. m. M.	

Date 1953 April 2-3 Thurs-Fri 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
19958	HD 30353	04 ^h 41 ^m .8	+43° 06'	I 12.5	F10320	set .008"	+7.8C	19 ^h 44 ^m	21 ^h 14 ^m	1	4.5
19959	HD 104817	11 ^h 59 ^m .7	+02° 01'	"	"	"	7.6	21 25	22 10		1.8
19960	HD 104817	12 16.0	-10 55	"	"	"	7.6	22 17	22 45	2	1.5
	Focus Test. O.T.B.										
1953 April 4 Sat. N-We											
About 30 visitors; partly cloudy, clearing, so that visitors saw Castor; then clouded again. Closed at 9:15.											

Dome Temp. +43°F.

Transparency Conditions Poor - Cloud streamers allow why

Focus 12.910

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
4 ^h 55 ^m W	43° 12'	000	8.3	Gop	^{5 5 5} 1-1-1	Bidelman's star ^{Set 2} - Windy with scattered clouds.	fine														
1 24 E	01 45	00	7.9	A2	1-1-1	High Velocity - Set 8 - some cloud.	just fine														
1 05 E	11 14	0	8.6	A0	1-2	High Velocity - Set 2 - High cloud - 22^h 45^m Cloud	Too much all right														
2 P.H loaded F103 aU +8																					
Hon M.																					
<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>Mc</td> <td>Sc</td> <td>Alto</td> <td>Str</td> <td>SW</td> <td>S</td> </tr> <tr> <td>April 7</td> <td>-9.8^s</td> <td>-34^s</td> <td>+13.2^s</td> <td>+2^m</td> <td>-34^s</td> <td>9.9^s</td> </tr> </table>									Mc	Sc	Alto	Str	SW	S	April 7	-9.8 ^s	-34 ^s	+13.2 ^s	+2 ^m	-34 ^s	9.9 ^s
	Mc	Sc	Alto	Str	SW	S															
April 7	-9.8 ^s	-34 ^s	+13.2 ^s	+2 ^m	-34 ^s	9.9 ^s															

Dome Temp. $+45^{\circ}\text{F}$
 Focus 12.910
 Dome Temp.

Transparency Conditions *Good*

360

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 00	3 4 59W	43 13	0	8.3	GOP	1-1-1	Set 2. Bidelman's star.	fine
23 30	3 0 48W	-11 47	0	8.9	A ₂	1-1-1	" 8 High velocity Haze	too wh
	4 01 02W	36 "	0	?	F _{4n}	1-1-1	" 2 Ecl. Binary	I. wh
	0 3 41W	+12 49	0	10.0	(F ₂)	1-1-1	" 7 Hi. Vel. <u>0330</u> Clouds & Haze	too wh
						4/3		all right
							3 P.H. Loaded + W	
							H. on M.	

Dome Temp. 47°F

Transparency Conditions 7 over clouds, haze

362

Focus 12.910

Wed April 8 1953

1" Focus 12.910 25" is Focus 15.585
12 1/2" was Silt 20.35 Silt 23.15

Dome Temp.

Changed to 25" camera

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Fig. Mag.	Sp.	Comp.	REMARKS	Quality
						Thurs April 9 1953 Changed to 12 1/2" Camera Focus 12.910 Silt 20.35	
1 36 W	28 23	0	8.26	60	1-1-1	set 2 A.G. 25 clouds 21 ⁵⁰ - 22 ⁰⁰ 4/6 set 7 22 ²⁰ overcast	l. note all right
						2 PH labels	
						April 10	
						MC SC UVU SWU S	50
						10 ^{5.5} +4.3 +10.0 +0.1 ^m +7 ³	-7 ⁵

Dome Temp. +43 About 35 visitors
 Transparency Conditions.....
 Focus..... showed 5 lanes +
 Dome Temp..... 5 keos with 74", 4 with 4"

Sat April 11 1953 Changed to 25" camera Focus 15.527
 Tilt 23.15

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 47.3	0 ^h 27 ^m W	-16° 30'	1	5.1	K ₀	2-2-2	Set 1 Ho's Binary Proj.	not
2 54							Set 5 Exposure stopped by cloud.	too weak
22 0							Set 9 Through cloud	too weak
22 23	1 ^h 00 ^m W	+34° 20'	0	6.7	K ₂	2-2-2 10/17	Set 2 Through ^{thin} clouds after 22 ^h 17 ^m . Almost solid after 22 ^h 23 ^m .	Too weak Focus O.K.
							4 PH loaded, box needed H on M.	

365

Date *Mon Apr 13-14/53*Observer *(Bk)
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.
19967	<i>16 Aur M 96</i>	05 11.6	33 17	I-25	E103a0	008	+7.1	19 31	19 33	1
								19 34	19 38	
								19 38 1/2	19 46 1/2	
19968	<i>B 2490 M 191</i>	09 11.7	-05 56	"	"	"	7.1	19 56	20 42	2
19969	<i>6 Gem. M 162</i>	07 31.0	29 07	"	"	"	+7.1	20 49	20 53	3
								20 53	20 59	
								20 59	21 13	
19970	<i>X Hya M 199</i>	10 05.7	-11 52	"	"	"		21 18	21 20	4
								21 20	21 24	
								21 25	21 35	
19971	<i>n Gem. M 129</i>	06 08.8	+22 32	"	"	"		21 43	21 47	1
							+7.0	21 48	21 58	
19972	<i>XC. Min M 153</i>	07 22.8	09 08	"	"	"	+6.9	22 08	22 22	2
								22 23	22 29	
19973.	<i>B 3180 M 228</i>	12 06.7	26 25	"	"	"	+6.9	22 36	22 46	3
								22 47	23 17	

Dome Temp. +41 F
 Focus 15.535
 Dome Temp.

Transparency Conditions Fair

366

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	32 20	0	4.8	K3		Set 1 Ho's Binary Pair	weak
						5	weak
3 41 W					2-2-2	9. Clouds.	l. weak
20 42 W 38 ^m	-6 10	0	5.4	K4	2-2-2	Set 1 Ho's Bin. through clear.	l. weak
20 53	28 59	0	4.3	K1P		" 1 "	good
20 59						" 5 "	
21 3					2-2-2	" 9 "	
21 20	-12 09	0	3.8	G9		" 1 "	good.
21 24						" 5 "	
21 35 W 26 ^m		0			2-2-2	" 9 "	
21 47						" 1 "	good
21 58 W 4 56	22 34	0	3.5	M3	6	" 5 "	
22 22	9 00	0	4.6	K4	6	" 1 "	l. weak
22 29 W 4 14						" 7 "	
22 41	26 08	0	5.8	K4		" 1 "	good
23 7	17 ^m				2-2-2	" 7 "	

windy
 clear
 good

367

Date Mon Apr 13-14/33 Contd Observer Hd - H.V. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
19974	+43°2135 X 217	11 33.7	42 52	I-25	E10320	008	6.9	23 ^{approx} 25	00 01	4
19975	M 263 B 3649	14 09.2	78 01	"	"	"	7.0	02 11	02 14	1
				"	"	"		02 14 ³⁰	02 20 ³⁰	
				"	"	"		02 21	02 33	
19976	+11°2910 M 273 From East	16 01.2	10 57	"	"	"	6.9	02 45	04 45	2
					G.7B					

Dome Temp. 37°

Transparency Conditions *g. cond.*

368

Focus.....

Dome Temp.....

red filter

Ending Time
R.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
25W	42 31	0	8.4	K5	22-2	Set 1 No's binaries (field checked)	l. weak
			5.0	K4		Set 2	good
						" 5	
135W	77 45	0			22-2	" 9 <i>0200</i> Wind causing turbulence 5-10 ft. in air	
152W	1046	0	8.5	K6	22-2	" 5 Image <u>very</u> unsharp	l. wh.
					8/6	" 9	Foc. unsharp
						2 P.H. + 4?	
						H <i>2. M</i>	
						MC SC MTW STW SW S	
						April 14 -11.3 +4.5 +4.0 -.1 ^m -32 ^S	+8.3

369

Date Tues-Wed. Apr. 14-15, 1953 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.
^{above} 19977	HD 30353	4 ^m 41.8	+43° 06'	I-12½"	E-10320	0.008	5.5°C	20 ^m 04 ^s	21 ^m 04 ^s	1
19978	HD 100363	11 ^m 27.8	-11° 29'	"	"	"	5.5°C	21 ^m 19 ^m	23 ^m 11 ^m	3
19979	HD 117880	13 28.1	-18 00	"	"	"	5.4	23 ^m 23 ^m	00 57	4
19980	" 136274	15 14.7	+26 04	"	"	"	5.7	01-06	01 52	2
19981	" 136901	15 18.1	25 59	"	"	"	5.7	01 57	02 37	2
19982	" 144227	16 00-0	25 30	"	"	"	5.7	02 44	03 04	1
19983	" 154183	16 58.8	25 48	"	"	"	5.6	03 10	04 20	1
19984	" 154510	17 00-8	26 14	"	"	"	5.7	04 25	04 45	4
<i>From List C.F.B.</i>										

Dome Temp. 41°F
 Focus.....1.2.....9.1.0.....
 Dome Temp.....+36.....

Transparency Conditions *Very clear as good*

370

*Jus. April 14 Changed to 12 1/2" Camera 25" was Focals 15.535 12 1/2" is Focus 12.910
 Filt 23.15 Filt 20.35*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 31 ^m W	+43° 10'	1-	8.3	Gop	1 ² -1 ² -1 ²	<i>Ridgway's star. See catalog of Ridgway 1960</i>	<i>fine</i>
0 ^h 55 ^m W	-11 46	1-0	8.9	A2	1-1-1	<i>Set 2. Roman's high red star</i>	<i>good</i>
0 ^h 40 ^m W	-18 15	0	9.1	(A0)	1-1-1	<i>Set 8. Roman's high red star. Center of field stopped. General stop.</i>	<i>l. str</i>
00 10 E	25 52	1	8.30	G0	1-1-1	<i>Set 2 A.G. 25</i>	<i>fine</i>
00 31 W	25 47	1	8.22	K0	1-1-1	"7 " "	<i>fine</i>
00 17 W	25 24	1	7.48	G0	1-1-1	"2 " "	<i>str</i>
00 37 W	25 10	0-1	8.79	G0	1-1-1	"7 " "	<i>l. str</i>
00 52 W	25 02	1	7.56	K0	1-1-1	"5 " "	<i>slightly overexposed fine</i>
					4/3	"9	<i>general right</i>
<i>1 P.H. Loaded. Plates Needed H.M.</i>							

Dome Temp. 34°F

Transparency Conditions good

372

Focus 12.910

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
244 8W	22 01	0	10.2	GO	1-1	set 2 Hi-velocity +	l. wh														
2227E	-1550	0	8.78	G5V	1-2	" 7 " " +	much too wh														
					4/3	" 9	central sl. to avoid														
2 P.H. +10																					
H. on. M.																					
Mirror Heat P11 + 1 m. kept.																					
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MYU</td> <td>SYU</td> <td>SW</td> <td>S</td> </tr> <tr> <td>April 17</td> <td>-14.2^s</td> <td>+4.6^s</td> <td>+1.6^s</td> <td>-0.1^m</td> <td>-7^s</td> <td>+8.4^s</td> </tr> </table>									MC	SC	MYU	SYU	SW	S	April 17	-14.2 ^s	+4.6 ^s	+1.6 ^s	-0.1 ^m	-7 ^s	+8.4 ^s
	MC	SC	MYU	SYU	SW	S															
April 17	-14.2 ^s	+4.6 ^s	+1.6 ^s	-0.1 ^m	-7 ^s	+8.4 ^s															

Date Friday April 17/18 1953 Observer L - Prc 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.F.
19987	HD. 97916	11. 10.7	+02 06	T-12 $\frac{1}{2}$	E-103u-0	set 008	+3.1	20 13	23 33	3
19988	+14 2771	14 36.7	+14 02	"	"	"	+3.1	23 38	02 00	
19989	AG 8066	17 08.3	+29 39	"	"	"	+3.1	02 09	03 29	2
19990	HD 16112	17 38.6	+26 36	"	"	"	+3.1	02 35	04 31	
	Focus Test. O.T.B.									

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

Hour Angle
End

1 45W-

0 45E

3 45E

Dome Temp... +36°F

Focus... 12.910

Dome Temp... +28°F

Transparency Conditions *good*

374

Aurora 22nd - all night

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 33	1 45W	+02 19	0	9.6	F5	1-1-1	set 2 High Velocity	sp. earlier than F5, probably fine
20	1 47W	13 48	0-1	9.0	G25	1-1-1	" 7	str
	0 14E	29 34	0	8.70	K0	1-1-1	set 2 AG 25	fine
	0 16W	26 33	0-1	8.43	K0	1-1-1	set 5	str
						4/3	" 9	all right

315

Date Mon Apr 20-21/53 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.
19991	HD 101968	¹¹ 18 39.0	30 27	I-12	E103a0	008	+3.7	22 48	23 12	4
	"					016		23 14	23 26	
						024		23 27	23 35	
19992	HD 124346	14 08.0	29 12	"	"	008	+3.8	00 05	00 29	1
						016		00 31	00 43	
						024		00 45	00 53	
19993	HD 103095	11 47.2	38 26	"	"	008	+3.6	01 00	01 12	2
						016		01 13	01 19	
						024		01 20 ¹ / ₂	01 24 ¹ / ₂	

Dome Temp. 39
Focus 129
Dome Temp.Hour Angle
End

12/13

153/2

Dome Temp. 34.5

Focus 12.910

Dome Temp.

Transparency Conditions *Low*

376

Sat. Apr 18-19 Mostly cloudy but clear patches.
69 microns Sa + L. Shred moon with 74". L had one
small sp at coelostat.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	30 09	0	7.81	A ₂	1-1-1	clouds earlier Net 1 KA Prog.	good
		0			$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" 5"	fine
W 1 31		0			$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" 9"	fine
	28 55	0	7.90	F ₂	1-1-1	" 1 KA Prog.	good
		0			$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" 5"	good
		0			$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" 9"	good
	38 04	1	7.29	G ₅	1-1-1	" 1 Std Vel	fine
		0			$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" 5"	fine
N 3 12		0			$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" 9"	fine
					$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		

Trouble with low voltage. We tried to fix but we finally closed it

02³⁰_{HC} - Hd
April 21 -12.5 +3.6 -3^s -2^m -32 +9^s
3 P.H. Load
H. = M.

377

Date Tues - Wed Apr. 21-22, 1953 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.E.
19994	HD 30353	4 ^h 41 ^m .8	+43° 06'	I ¹² "	E-1030-0	0.008	+7.2°C	20 ^h 05 ^m	21 ^h 05 ^m	4
19995	HD 107813	12 18.2	-6 29	"	"	0.016	7.3	21 19	23 ^m 29	1
19996	HD 117880	13 28.1	-18 00	"	"	"	7.4	23 36 ^m	0032	1
19997	HD 117519 R.S. Can. Ven	13 06.0	+36 28	"	"	0.008	7.4	00 43	03 03	3
19998	HD 191069	20 02.9	-16 00	"	"	0.016	7.4	03 24	04 24	1
	<i>James</i>	<i>Feb</i>	<i>0.4.13</i>			0.008				

Dome Temp. 44°F
 Focus 12910
 Dome Temp. +37°F

Transparency Conditions Parallel to the horizon 9:00

378

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6 ^m 01 ^m W	+43° 11'	1-50	8.3	Gop	1 ² -1 ¹	Corrective mid- ²⁰ 25 ^m delay during at 2 Comp. weak ^{Par. guide} at 8 Comp. weak ^{10^m lost during first half} Romania high-velocity ^{La field for plates 19779}	fine
0 ^m 50 ^m W	-6° 42'	0	9.8	(A ₂)	1/2 ⁵ -1/2 ¹ -1/2 ¹	Romania high-velocity	good
00 ^m 47 ^m W	-18° 15'	0	9.1	(A ₀)	1/2 ⁵ -1/2 ¹ -1/2 ¹	Romania high-velocity	good
0337 W	+36 10	0	?	F ₄ ⁿ G-8	1-1-1	Ecl. Bin. Set. 2	0100 Guiding lousy Tel. running slow
0159 E	-1553	0	8.78	G ₅ V	1-1	Hi-Vel " 2.	weak
					4/3		weak
						Hom. M.	
						3 P.T. - 1st.	
						plates needed.	

379

Date Thurs April 23-24/53 Observer L - H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
19999	422 2442	12 03.9	22 21	I-12 $\frac{1}{2}$	E-103a-0	^{set} .016	412.9	21 51	0031	1
20000	+13° 2698	13 35.0	13 06	"	"	"	12.8	00 36	0306	1
20001	H.D. 191069	20 02.9	-16 00	"	"	"	12.4	03 16	0430	2
	<i>Focus lost</i>					.008				

Dome Temp. 48 °F

Transparency Conditions.....

380

Focus 12.910

Dome Temp.....

Start delayed because of clouds in early evening.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
0215W	22 01	0	10.2	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2 High velocity.	fine																					
0318W	12 49	0	10.0	(F ₂)	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 7 " "	wh. - 7.0																					
045E	-15 51	0!	8.78	G ₅ V	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 2 " "	good																					
					$\frac{4}{3}$	" 9.	all right																					
						H. on M.																						
						I. P. H. +12.																						
						Comparison still somewhat weaker than desired.																						
						<table border="0"> <tr> <td></td> <td>Mc</td> <td>Sc</td> <td>MM</td> <td>STW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>April 24</td> <td>-12.3^s</td> <td>+3.8^s</td> <td>-0.0^s</td> <td>-2^m</td> <td>-16^s</td> <td>9.6^s</td> </tr> <tr> <td>27</td> <td>-12.3^s</td> <td>+4.2^s</td> <td>-7.0^s</td> <td>-2^m</td> <td>-3^s</td> <td>9.5^s</td> </tr> </table>		Mc	Sc	MM	STW	SW	S	April 24	-12.3 ^s	+3.8 ^s	-0.0 ^s	-2 ^m	-16 ^s	9.6 ^s	27	-12.3 ^s	+4.2 ^s	-7.0 ^s	-2 ^m	-3 ^s	9.5 ^s	
	Mc	Sc	MM	STW	SW	S																						
April 24	-12.3 ^s	+3.8 ^s	-0.0 ^s	-2 ^m	-16 ^s	9.6 ^s																						
27	-12.3 ^s	+4.2 ^s	-7.0 ^s	-2 ^m	-3 ^s	9.5 ^s																						

Dome Temp. 43° F
 Focus 12.910
 Dome Temp.

Transparency Conditions Good - a little cloud in south

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06 ^h 12 ^m W	+43° 12'	0	8.3	G0p	1-1-1	Let 2 - Star being in west delayed starting time ^{Poor guiding} slight flexure	l. mark
			9.9	G0		Let 5 High Vel. Too near. want to see field	
01 05W	+25 24	0	8.75	G5	1-1-1	Let 8 AG (var) - some cloud - through cloud. 22 ^h 45 ^m → Clouding in from the west. (Too cloudy even for star vel ² with widened slit) 4PH loaded +8 near comparison	good

	NC	SC	MTW	STW	SW	S
April 29	-12.2 ^s	+3.6 ^s	-9.2 ^s	-.4 ^s	-14 ^s	+11.4 ^s
May 1	-12.3 ^s	+3.2 ^s	-10.8 ^s	-.4 ^s	-26.8 ^s	+12.0 ^s

383

Date May 3/4 1953 Sun - Mon. 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.E.	Star Angle End
{ 20004	HD 57267	7 ^h 15. ^m 4	+26° 21'	I-12 $\frac{1}{2}$ "	E-10300	0.008	12.3	20 ^h 17 ^m	21 ^h 53 ^m	4	1 ^h 3 ^m W
{ 20005	HD 92824	10 38.0	+26 17	"	"	"	12.1	21 ^h 59 ^m	23 49	"	3 ^h 37 ^m W
{ 20006	HD 117555	13 26.0	+24 44	"	"	"	12.2	23 55	01 30	1	2 31 W
{ 20007	HD 117567	13 26.1	"	"	"	"	12.2	01 31	02 15	1	3 30 W
	<i>Focus lost</i>				<i>0.5/13</i>						

Dome Temp. 47°F.
 Focus 12.9.10
 Dome Temp. 42°F

Transparency Conditions Clear of pt to cc inside cell.
 haze and scattered clouds near horizon, especially in SW & S.

Reading Time
 R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 03 ^m W	+26° 16'	0	7.9	(G0)	1 ^s -2 ^s -1 ^s	Set 2 Comp. sp. on AG-program. Hope and app. at horizon.	good but scattered clouds
3 ^h 37 ^m W	+26 00	0	8.9	G0	1 ^s -1 ^s -1	Set 8 AG-program	good
02 31 W	+24 29	0	8.3	G5	1-1-1	} 2 Both stars in Visitor's eyepiece at same time. Set 7 We. said take "it" s here "it" is. 0208 M. e. land mW. t. nW.	good
03 16 W	"	0	2.8	F2?	1-2		4/3
2 P.H. + 8							
H on N.							
hc _s sc _s mW _s s.rW _s s.u. S May 4 -12.1 +2.3 -14.8 =.4 -12.0 +12.9 May 5 Shower watch stopped & reset							

385

Date May 5/6, 1953 Tues - Wed Observer We 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.F.
20008	HD 30353	4 ^h 41.8	+43° 06'	E-12 $\frac{1}{2}$	E-1030-0	0.008	19.1C	20 ^h 12 ^m	20 ^h 19 ^m	2
20009	HD 52147	6	55.0 + 29 22	"	"	"	19.2	20 28 ^m	21 42 ^m	2
20010	BD+13°2698	13	35.0 + 13 06	"	"	0.016	19.4	22 ^h 08 ^m	25 ^h 18 ^m	3
20011	HD 145001	16	03.6 + 17 19	"	"	"	19.3	1 ^h 25 ^m	1 45 ^m	3
20012	"	"	"	"	"	"	"	1 ^h 45 ^m	2 15 ^m	3
20012-1	Focus test OTB,					"				

Dome Temp. 61°F.
 Focus 12.912
 Dome Temp. 53°F

Conspicuous amorphous streamers
 and curtains in progress 20^h 40^m
 still in progress with dark and
 in north at 21^h 30^m, 22^h 00^m, amorphous still.
 24^h 15^m bright amorphous curtain and streamer
 in north, amorphous streamer still strong
 in north, although somewhat
 masked by clouds and haze.

Transparency Conditions Clear but very hazy especially in north.
 Steadily thickening after 23^h.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
— W		0!!!	8.3	GOP	1-2	at 5 Express stopped when telescope Biddman's star. Last plate of season on this star! Probably little better spectrum on plate. <i>l. work</i>	
5 ^h 21 ^m W	+29° 16'	0	8.5	G5	1-1-1	at 8 AG 25° program Hydro fall out somewhat as all converted to low temperature Rona's big envelope program done C: and C ₂ but not had until 23 ^h 50 ^m low. eff. average about 23 ^h 15 ^m <i>l. work</i>	
2 ^h 18 ^m W	+12 50	0!!!	10.0	(F2)	1/2-1/2-1/2	at 2	
0 ^h 16 ^m W	+17 11	0!!!	6.1	G4	3/4-3/4-3/4	at 5 1/2 std. vel. Upper and brighter stars in J Closed eyes.	good
0 46 W	" "	"	"	"	3/4-3/4-3/4	at 8 via train eyepiece. at 10 they too thick to continue. Closed eyes.	<i>l. work</i>
					2 1/2		<i>all right</i>
					4 P. H. + 4		
					H. or M.		
					MC SC MTC 1.5K 5 5		
					Proyle -11.8 +1.2 -7.8 -2 ^m -14 ^m 121		

387

Date Wed May 6-7 1953 Observer L. 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.F.	Hour Angle End
20013	H.D. 126681	14 21.9	-17 57	I-12 $\frac{1}{2}$	E-103 α -D	set .016	19.6	22 00	0030	1	0046N
20014	" 136274	15 14.7	26 04	"	"	.008	19.3	00 40	01 44	2	0103
20015	" 136901	15 18.1	25 59	"	"	"	19.2	01 47	02 47	0	0114W
20016	" 166683	18 06.7	29 04	"	"	"	19.2	02 52	03 46	5	0316
	<i>found</i>				<i>0.9LB</i>						

Dome Temp. 45.2 °F

Transparency Conditions

Focus..... 12.9.12

Dome Temp.....

Start delayed because of clouds at sunset.

Reading Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
0046W	-18 09	0-1	9.9	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	High Velocity. <i>Spectrum very peculiar. some large faint lines.</i>	<i>into al. too misty</i>																					
0108W	+25 50.5	0	8.30	G0	1-1-1	set 2 A.G. Flexure	good																					
0208W	25 47	0	8.22	K0	1-1-1	" 7 " "	<i>into al. too misty</i>																					
0019W	29 03	0	8.57	G5	1-2	" 2 " " Haze + cl ut. Very Mucky	<i>into al. too misty</i>																					
					$\frac{4}{3}$	1 P.H. + 1 H. on M.																						
						<table border="0"> <tr> <td></td> <td>nc</td> <td>sc</td> <td>mc</td> <td>sm</td> <td>sw</td> <td>s</td> </tr> <tr> <td></td> <td>^s</td> <td></td> <td>^s</td> <td></td> <td></td> <td></td> </tr> <tr> <td>rays</td> <td>-11.7</td> <td>+10.6^s</td> <td>-13.3</td> <td>-3^m</td> <td>-32^s</td> <td>+0.7</td> </tr> </table>		nc	sc	mc	sm	sw	s		^s		^s				rays	-11.7	+10.6 ^s	-13.3	-3 ^m	-32 ^s	+0.7	
	nc	sc	mc	sm	sw	s																						
	^s		^s																									
rays	-11.7	+10.6 ^s	-13.3	-3 ^m	-32 ^s	+0.7																						

Dome Temp. +64°F

Focus 12.912

Dome Temp. -58°F

Transparency Conditions

Fair

390

Bright auroral arc in NE at 0^h30^m
much weaker at 2^h00, invisible 2^h30

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
2	29W	25° 17'	0	8.84	G5	1-1-1	set 2 AG-25	<i>light haze</i>	<i>sub</i>
0	41W	24° 54'	0	8.56	K0	1-1-1	set 8 "		<i>sub</i>
1	47W	25 39	0-2	8.91	K2	1-1-1	set 2 " variable seeing		<i>sub</i>
0	55W	24 35	2-1	8.91	K0	1-1-1	set 8 " <i>Earlier spectro. data but correct with E.S.T.</i>		<i>good</i>
0	58W	17 08	2	6.1	G4	1-1-1	set 2 <i>Std. veloc.</i>		<i>str</i>
0	16E	25 57	2	8.72	K0	1-1-1	set 2 AG-25		<i>sub</i>
0	04E	29 00	2	8.37	K2	1-	set 8 " " <i>poor due to the fact because</i>		<i>sub</i>
						4/3	set 8		<i>cont. the</i>
							<i>PH no 4 loads</i>		

Dome Temp... 70°F

Transparency Conditions Fair

392

Focus... 12.912

150 vacitas { 8 Leo + Saturn with the 74" (Saturn very good)
Saturn with 4"

Dome Temp... 64°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 00 W	+24° 27'	0	8.3	G5	1-1-1	A.G. set 2 <i>Carrot stars. fuzze</i>	<i>l-nd</i>
02 00 W	+24° 28'	1/2	8.7	G5	1-1-1	A.G. set 8 <i>W. by lines, sp. position</i>	<i>l-nd</i>
02 40 W	25 55	2-1	7-8 W	P18	1-1-1	" set 2	<i>fine</i>
02 40 W	25 51	1	8.30	G0	1-1-1	" 8	<i>fine</i>
02 01 W	17 19	1	6.1	G4	1-1-1	Ad. vel. set 2	<i>l-nd</i>
00 22 W	29 00	1	8.37	K2	1-1-1	A.G. set 5	<i>fine</i>
					4/3	set 9	<i>l-nd</i>
						PH # 14 loaded	

393

Date Sun May 10-11 Ad Observer Bo - 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 End	
20030	HD 104817	11 59.1	+2° 1'	1-12½	E10320	.008	+27.0	20 ^h 21 ^m	20 ^h 51 ^m	3	45 ^m	
20031	HD 107813	12 18.2	-6° 29'	1-12½	"	.016		20 ^h 56 ^m	22 16	3	51 ^m	
20032	+13° 2688	13 35.0	+13 6	1-12½	"	.016	+27.1	22 22	00 22	4	3-11 ^m	
20033	H.D. 13620	14.2	+02 09	"	"	.008		0101 ⁰⁰	0102 ³⁰	1		
		15 16.8	+01 57					0103 45 ^s	0105 ¹¹			
								0106 ¹⁰	0110 ¹⁰			
20034	" " 14500	1603.6	17 19	"	"	.008	26.2	0121 ³⁰	0121 ³⁰	2		
									0125			0131
									0131 ³⁰			0142
20035	" " 192031	2007.7	-15 43	"	"	.016	26.6	01 58	03 52	2	45 ^m	
	<i>Power Test</i>				0.9/13.	.008						

Dome Temp... +72 °F

Transparency Conditions *Fair*

394

Focus.....

Dome Temp... +64 °F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1 ^h 45W	+1° 42'	0	8.3	A ₂	1-1-1	Set 2 Hi Vel.	<i>l. mb</i>	
2216 W 51 ^m	-6° 48'	1	9.0	A ₂	1-1-1	Set 8 Hi Vel.	<i>l. mb</i>	
02 11W	+12° 48'	1-	10.0 <i>5.74 mag.</i>	(E) G ₀	1-1-1	" 2 " 2 <i>0025 seeing 1/1000 Getting V</i>	<i>fine</i>	
		0-1			3	" 5 Std. Vel.	<i>l. mb</i>	
0050 W						" 8	<i>mb</i>	
			6.12	G ₄		" 2 Southern + Brighter of pair.	<i>l. mb</i>	
00 22W					3	" 5 Std. Vel.	<i>fine</i>	
	+17 10	0-1				" 8	<i>good</i>	
0121 E	-15 34	0!!	9.4	G ₈ V	1-1-1 4/3	" 2 N. Roman * " 9 <i>23 Seeing P Hazy Telescope drifting in Dec. Went</i>	<i>Too mb center of to mill</i>	
1 P.H. + 4?								
Hon M.								
			MC	SE	MTW	STW	SW	S
May 11			-13.0 ^s	-0.6 ^s	+31.5 ^s	+0.4 ^m	-24.6 ^s	+3.2 ^s
13			-13.3 ^s	-1.1 ^s	+31.8 ^s	+0.6 ^m	+20 ^s	+3.9 ^s

*5 } add
3.2
3.9*

Dome Temp. 57°F
 Focus 12.912
 Dome Temp. 50°F

short 10" or so
 very bright sword and east-south
 west with a zenith, also some
 several patches in north. Rapidly
 variable

Transparency Conditions

Very heavy clouds seen
 at sunset 3/4 way down
 some drifting spots at 22:10
 23:40, full moon in sky.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 03 ^m W	+24° 58'	0	9.6	(FO)	$\frac{25}{3} - \frac{25}{3} - \frac{25}{3}$	set 2. High-vel. (Roman). Heavy <i>lines weak. Spectral type?</i>	weak
0 34 W	-2° 00'	0	9.2	A3V	$\frac{2}{3} - \frac{2}{3} - \frac{2}{3}$	set 8. " " " "	weak
2 34 W	+27 24	0	7.4	M3	1-1-1	set 2 AG +25° longer	fine
1 26 W	25 23	1	7.48	G0	1-1-1	set 1 "light + blue"	fine
1 08 W	28 07	1	7.66	K0	1-1-1	set 2 "Doe does not mention would not mark"	fine-god
0 14 W	30 09	1.0	8.15	G5	1-1-1	set 7 "clouds"	fine
					$\frac{4}{3}$	set 10 "	all right

May 15

MC _s	SC _s	M4C	S M	S W	S S
-14.2	-2.2	+27.3	+3 ^m	+10 ^s	+4.5 ^s

397

(18/19)

Date Mon-Tues, May 1953 Observer We - 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.E.
20042	BD-10° 3452	12 ^h 16.0 ^m	-10 55	I-12 $\frac{1}{2}$ "	E-1035-0	0.016	+18.30	20 ^h 33 ^m	21 ^h 45 ^m	3
20043	BD+51° 1664	11 20.6	+50 55	"	"	"	18.2	21 ^h 56 ^m	00 02	"
14	14 ^h <i>Frons</i>	"	<i>Best</i>	"	<i>OT-B</i>	008				

Dome Temp. 63°F.
 Focus 12.912
 Dome Temp. 56°F

Sat, May 16

Transparency Conditions *Very long close to horizon*
 Sa, L with about 50 visitors. Totally cloudy. After telescope demonstration gave 1/2 hr lecture, followed by vigorous discussion.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
0 ^h 56 ^m W	-11° 08'	0.1	8.6	(A0)	$\frac{2.5}{3} - \frac{2.5}{3} - \frac{2.5}{3}$	Let 2. Roman High <i>high</i>	<i>sub-t</i>														
0406 W	+50 38	1.1	19.6	(B0)	$\frac{2.5}{3} - \frac{2.5}{3} - \frac{2.5}{3}$	Let 8. " " " " <i>looks like the gi</i>	<i>sub-t</i>														
				"	4/3	" 10 <u>COIS</u> > 1K, Hopeless	<i>all right</i>														
1 P.H. Loaded. Plates M/ected. H. on M.																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">NE</td> <td style="width: 10%;">SE</td> <td style="width: 10%;">NW</td> <td style="width: 10%;">SW</td> <td style="width: 10%;">S</td> <td style="width: 10%;">S</td> </tr> <tr> <td>May 19</td> <td>-15.8</td> <td>-5.2^s</td> <td>+16.0^s</td> <td>.0^m</td> <td>-19^s</td> <td>+4.6</td> </tr> </table>									NE	SE	NW	SW	S	S	May 19	-15.8	-5.2 ^s	+16.0 ^s	.0 ^m	-19 ^s	+4.6
	NE	SE	NW	SW	S	S															
May 19	-15.8	-5.2 ^s	+16.0 ^s	.0 ^m	-19 ^s	+4.6															
<i>Comparison spectra still tend to be a little weak</i>																					

399

Date May 19/20 1953, Tue - Wed Observer PK - Her 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.
20044	HD 126681	14 21.9	-17° 57	12 1/2	E103-a-0	.016	20.8	20 51	21 51	
20045	HD 142575	15 50.2	+5 23	"	"	"	20.8	22 57	01 17	
20046	" 191069	20 02.9	-16 00	"	"	"	20.8	01 27	03 07	1
20047	" 145031	16 03.6	+17 19	"	"	"		03 20 ⁴⁰	03 23 ⁴⁰	2
20048	"					.008	20.5	03 26 ⁰	03 32 ⁰	
	<i>Fans Test</i>				<i>023</i>					

Dome Temp. 74°F

Focus 2912

Dome Temp. +55

Bright aurora band
in NE at 23 1/2 hrs

Transparency Conditions good

400

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 00 W	-18 11	0	11.5	(G-0)	1-1-1	ref 2 Hi-veloc. Ion	Comp. fine str. wks
0057 W	+05 12	0	9.0	FOV	1-1-1	" 7 -" -	Comp. wks fine
0125 E	-15 51	0	2.78	G5 V	1-1-1	" 2 -" -	Comp. sl. wks l wks
		0	6.1	G-4	3	2 Std Vel	Comp. fine fine
0258 W	+17 09	0			4	7	Comp. sl. wks fine
					4/3	2 BH. + 8 H. on. M.	all right

Dome Temp. 164°F

Focus 12.012

Dome Temp.

Transparency Conditions *Light haze*

402

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
2 ^h 56W	+27°11'	0	8.37	K ₅	1-1-1	A.G. 25 Set 2	Comp. not not												
1 ^h 22W	+27°51'	0	8.79	G ₅	1-1-1	A.G. 25 Set 8	Comp. not not												
0 ^h 33E	+29°03'	0	8.57	G-5	1-1-2	" " " 2	0120 Cloud from S 0122 star gone 0205 consider be only haze Comp. not not												
					4/3	Switch in Spotter ar-ing.	Cont. to w/lot												
						H.P.H. +41													
						It. on M.													
						<table border="0"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>MPU</td> <td>SW</td> <td>SS</td> </tr> <tr> <td>May 22</td> <td>-16²</td> <td>-80³</td> <td>+6.2</td> <td>-1^m</td> <td>-12^s +4.8</td> </tr> </table>		NE	SE	MPU	SW	SS	May 22	-16 ²	-80 ³	+6.2	-1 ^m	-12 ^s +4.8	
	NE	SE	MPU	SW	SS														
May 22	-16 ²	-80 ³	+6.2	-1 ^m	-12 ^s +4.8														

Dome Temp. 51°F
 Focus 12.912
 Dome Temp. 56°F

Transparency Conditions *Poor*

404

about 200 visitors. Showed G h with
 74" x 5" + C with 4"

We wondered why we couldn't find the moon with the position taken from the American Ephemeris. Then heard realized today is the 23rd not the 22nd

Reading Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 56 3 13 W	+24=40	0	8.70	Mo.	1-2	AG light clouds and haze, heavy clouds 23 ^h	Too much
					6-4	Phoned weather office - said it would be partly cloudy all night.	largest photo tilted in ladder
						3 pl loaded	
						MC ^s SC ^s MFW ^s SYW ^s SW ^s S ^s May 26 -17.7 -11.8 -9.7 -.5 ^m +4.9 -37 ^s	

Dome Temp. $+64^{\circ}\text{F}$

Transparency Conditions clear at beginning

406

Focus 12.922 Focus slanted.

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 55	4 23 W	+14 30	0	8.5-93	G ₀ G ₂	1-1-1 Ecl. Bin. <i>Comp. sl. with light clouds</i>	<i>Defect on HV Flexure 22:45</i> with
23 34	0 51 W	+25 19	1	8.06	K ₀	1-1-1 A G-25 <i>Comp. sl. with</i>	l with
00 37	0 120 W	+25 47	1	8.22	K ₀	1-1-1 " set 2 <i>Comp. with</i>	l with
01 30	0 03 W	28 08	0	7.56	K ₀	1-1-1 " <i>Comp. with. 0100 cloud + Haze</i>	l with
03 25	0 120 W	29 03	0!	8.57	G-5	1-1-1 " " 2 <i>Wind Rising.</i>	fine
					4/3	" 8.	Cent. at 03:25
						3 P.H.	
						H. on M.	

Dome Temp.....50 F.

Transparency Conditions *Poor*

408

Focus.....

Dome Temp.....

Reading Time
13.7

22 06

1/2

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
W042	-18.15	100	(10.5)	A0	1-1-1	Set 2. Light clouds at 2200 mostly cloudy 2300.	good fine										
						0035 Hazy Some Cloud, M.C.											
						May 29 <table style="display: inline-table; vertical-align: middle;"> <tr> <td>40</td> <td>50</td> <td>450</td> <td>500</td> <td>5</td> </tr> <tr> <td>-18.5</td> <td>+23.5</td> <td>+39.2</td> <td>+0.1^m</td> <td>-29.5 +31.5</td> </tr> </table>	40	50	450	500	5	-18.5	+23.5	+39.2	+0.1 ^m	-29.5 +31.5	
40	50	450	500	5													
-18.5	+23.5	+39.2	+0.1 ^m	-29.5 +31.5													

409

(Wellman) Hr Hr Hr

Date *Mon. Tues. June 1/2, 1953* Observer *Wellman* 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.
20059	HD 136161	15 14.0	-01 48	I 12 1/2	E103-00	8A-016	+19.0C	21 ^h 00 ^m	23 ^h 00 ^m	2
20060	V 451 Oph	18 24.5	+10 49	I 12 1/2	"Hi-Speed"	8A-008	+19.1	23 12	00 42	3
20061	H.D. 145001	1603.6	17 19	"	E 103-0-0	"	19.0	00 51	00 57	4
				"	"	"		00 57 ³⁰	01 06 ³⁰	1
				"	"	"		01 07 ⁰⁰	01 19	"
20062	H.D. 154510	1700.8	28 14	"	"	"	19.0	01 27	00 17	1
20063	170619	18 25.3	29 30	"	"	"	19.0	02 32	00 27	"
	<i>Focus Test</i>				<i>O.L.B.</i>					

Dome Temp. +64°F

Transparency Conditions Poor

410

Focus 12.222

Some aurora.

Dome Temp. 54°F

Windy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ^h 08 ^m W	-02° 00'	00	9.2	A3I	1-1-1	Roman High Velocity Set 2	good
0121E	+10 52	00	7.9	A0	1½-1½-2	Due to the existence of thin clouds in the southern sky, Ho deemed it wise to get this star while still he could. set 5.	fine
17 08		0!!	6.1	G4	2-2-2	Std. Vel set 2 Southern + Brighter of pair	str
0125W					2-4	" 5	str
132W					2-2-2	" 8	str
0139W	2808	0!	7.56	K0	2-2-2	Set 2 A.G. 25	fine
0125W	2931	0!	7.9	G5	2-2-2	" 7 " "	fine
					5/4	0230 Aurora quite noticeable	Center disp. w. sl. to v. at
						0305 Sunrise + Aurora make an odd combination.	
						1 P.H. + 4?	
						H. on M.	
						Mirror Heat Pilot <u>KAPUT!!</u>	
						June 2/3 0100 Hazy, Sun Cloud, etc.	

412

Ending Time
E.S.T.

413

414