

1

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

1

3

Time Temp.

Locus

Time Temp.

Hour Angle

End

Decl

Date ~~Tues.~~ Wed Apr. 8-9, 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.
18965	H.D 136901	1518.1	2559	I-12	E103A-0	,008	5.0	0248	0348	4
18966	R Henry	1753.6	1508.9	"	"	"	4.9	0356	0438	1
	Focus Test			O.T.B.						

Dome Temp. +37°F

Focus 12.910

Dome Temp. 35°F

Transparency Conditions

Fair
Clearing about 00:30

Clouds in S.W. Haze, Bright moon

Some Ground Mist.

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0348	H	0120W	2549	0	8.22	K ₀	1-1-1	A.G. 25.	So far I have found
0438		0025E	11509	0	8.0	F ₂	1-1-1	Ecl. Bin.	2 Broken Plates in New Batch,
							4/3		0430 Considerable Mist & Haze
									0436 Some Cloud.
								2 P.H. + 8.	
								H. on M.	
								Found Dome lights turned on.	
								April 10	MC SC MTC STW SW
								+47.7°	-10.0° -9.8° -0.0" -15°
								114 +52.2°	-7.4° -9.8° -0.0" -3.5°
								Apr. 11	Clouds after sunset, clearing but with heavy haze, still very hazy at 22:00 Hr.

7

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.	Hour Angle End
18966 F	Focus check.										
18967	E Gem	06 37.8	+25 14	L-25"	E103a-O	.008	+8.4	19 33	19 35	3	
								19 35	19 39		
								19 39	19 47		W2 25
18968	HD 42049	06 03.5	22 13	"	"	"	"	19 52	21 22	4	V4 33
18969	K Gem	07 38.4	24 38	"	"	"	"	21 28	21 31	1	
								21 31	21 36		
								21 36	21 46		W3 23
18970	X U Maj.	10 57.6	62 17	"	Fi	"	'	21 58.5	21 59.0	2	
								22 00	22 01		
								22 02	22 04		V0 21
18971	E Boo A	14 46.8	19 31	"	"	"	"	22 20	22 26	3	
								22 27	22 37		
								22 38	22 56		B3 15

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.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								Settings 1.4.9., Focus 15.520 15.560	
19 35	3		25 12	1	4.2	G8Ib	0	std. Lum. Set #	fine
19 39				0-1			8		5
19 47		W 2 25		0-1			0		9
21 22	4	W 4 33	22 13	1-1	7.11	K4	3-3-3	Supergiant	good
21 31	1				4.5	G8III	0	std. Lum.	9
21 36							8		5
21 46		W 3 23	24 31				0		7
21 59	2		62 13		3.0	K0II	0	std. Lum	3
22 01							8		5
22 04		W 0 21					0		7
22 26	3		19 19		5.4	G8V	0	std. Lum	3
22 37							8		5
22 56		E 3 15					0		7

Dome Temp.....

Transparency Conditions

Good

10

Focus.....

Dome Temp. 38

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2303	4		33 31	1-2	4.5	G8 III	0	Std Lim 3	fine
2308							8	5	
2316		E 316					0	7	
2335	2			1-2	5.9	KO III	8	Std Lim 5	strong
2359		E 2 48	36 38				0	7	
0105	1	E 2 19	43 19	1-2	7.14	KR	3-3-3	Supergiant. plate not kept.	nothing (dark sid?)
0242	2	E 1 54	15 08	0-1	8.0	F2	3-3-3	Eclipsing Binary	strong
03 44		E 2.36	50 25	1-2	6.9	G5 V	3-3-3	Std Lim. In Cass. lane	Dome wouldn't reach it strong
03 58	4			2	4.6	KO IV	0	Std Limer Set 3	turning east but stopped before them all the way west
04 03							8	5	strong
04 12		E 3 13	61 40				0	7	
04 38	1	E 5 39	77 22	2	4.4	K1 V	8	Set 3. Time estimated by counting, Guided standing on top of "A. Subt Parsons" sign on south pier. 4 PH loaded + 4 H on M but light doesn't come on! Heat turned on at ~09.15. Hr.	too strong

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.
18979	H.D. 76010	08 48.4	27 18	I-25	E-103a-0	Set .008	13.9	20 20	21 50	1
18980	" 94966	10 52.7	24 55	"	"	"	13.9	21 59	23 25	2
18981	Z And	17 53.6	15 08.9	"	"	"	13.9	23 30	00 50	3
18982	T Cor. Bor.	16 05.3	36 45	"	"	"		01 37	01 41	4
				"	"	"	13.9	01 43	01 51	
				"	"	"	13.9	01 53	02 09	
18983	H.D. 151322	16 42.0	43 24	"	"	"	13.9	02 23	03 03	1
18984	" 185622	19 54.9	16 21	"	"	"	13.9	03 19	04 23	2
18985	η Cep	20 43.3	61 27	"	"	"		04 45	04 46	3
								04 48	04 50	
								04 53	04 57	
18985F	Star Test				G.T.B.					4

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

Focus 15.620

Dome Temp.

Transparency Conditions *Good, occasional light cirrus.* 12

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 21 W	27 107	1	8.38	K ₅	3-3-3	AG.25	fine
1 42 W	24 37	1	8.15	K ₆	3-3-3	"	fine
0342 E	15 09	0	80	Fe	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-*			0	9. *Changing constantly,	
00 17 E	43 17	0-1*	7.14	K ₂	3-3-3		fine
01 52 E	16 27	0	7.76	K ₅	3-3-3	Skyride. (J.C.) Brighter of pair	fine
		0-1*	4.6	K ₀ IV	0	Set 1. South Proceeding	fine
					8	5.	
					0	9. H.P. H. + 8.	
					6/4	H. on M.	
<p>Difficulty in rotating dome due to cable slipping; perhaps because of wind.</p>							

Dome Temp. 52°F
 Focus 15.632
 Dome Temp. 57.4°F

Transparency Conditions *Good*
Clearing station by 2000
1000 m. above sea level

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
209.3W	1507.5	0	80	F2	3-3-3 6/4	<i>Eol. Bin.</i> <i>Stars getting faint already</i> <i>Some like I see</i> <i>partially</i> April 18 HC S -32.2 SC S -163 HTW S -6.7 STW S +0.1 SW S -48.5	<i>fine</i>

Date *Friday* 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	7-25	E 113-20	<i>cut</i> .008	19.4	20 23	21 03	2
18988	120421	13 44.2	+27 02	"	"	"	19.5	21 07	21 51	3
18989	γ Cep	23 35.2	+77 04	"	"	"	19.5	22 04	22 07	4
								09	11	
								11	21	
18990	γ Cep			"	"	"	19.5	22 22	22 25	1
								26	34	
								35	37	
18991	H.D. 105873	12 08.2	+25 19	"	"	"	19.4	00 56	00 14	3
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	3
	<i>Focus test</i>				OTB					
18993F	Focus				OTB					

Dome Temp. 62
 Focus 15.637
 Dome Temp.

Transparency Conditions Poor
 Light clouds and haze, improving about 2 o'clock,
 haze remaining till horizon

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

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 (hazy, light clouds, seeing steadily improving)	Good
E 2 24	28 25	1	7.63	G5	3-3-3	AG 25	Good
		0	4.4	K1 IV	0	Std. Linn	Trabw. through hazy, light clouds
					0		
					4	long work on paper	of cloud and hazy, light clouds
		0	4.4	K1 IV	0		all stars much in doubt.
					4		
E 11 30	+77 20				0		
136 W	+25 31	0-1	7.94	G5	3-3-3	AG 25 haze, light clouds.	Good
110 W	24 47	1	7.92	G0	3-3-3	" " haze clouds	Good
202 E	18 27	0-1	7.76	K5	3-3-3	Super-giant more haze star gone at 4.01	Good
					5/4		
					3		
						* N.H.s washed (12 Pl. in D.) (plates included)	

Apr. 19 changed to I-12. I-25 was torn 15.685 Tilt 23.15
 set 1 from 12.900 Tilt 20.28.
 b " 12.920
 q " 12.910 ← OK

17 Sat. Apr. 19.
 W/m, Hr.

260 Visitors. Too cloudy to open.
 Clearing somewhat at 2000.

At Midnight Mostly Clear -
 Forecast hot for the night.

Date Sat. Apr. 19 Observer Pa. - 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.
18794	HD 55578	07 56.4	28 38	12"	E102011	018	17.9	1949	2139	2
18775	78194	09 01.8	28 23	"	"	"	15.8	2144	2324	2
18996	90443	10 21.4	2526	"	"	"	17.0	2331	0027	4
18997	Z Herc.	1753.6	1503.9	"	"	"	17.4	0043	0133	1
18998	HD 142533	1552.0	2720	"	"	"	17.2	0144	0337	2
18999	Z Herc.	1753.6	1503.9	"	"	"	17.3	0333	0413	3
	<i>Hours of</i>	<i>Exposure</i>			O.T.B.					

Dome Temp. 50
 Focus 12910
 Dome Temp. +48°F

Transparency Conditions

Good. Scattered light clouds

Sharp contrast at beginning of evening twilight
 but not so bright during several hours
 of good twilight but after 7:00 PM

Reading Time
 E.S.T.

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	" 17.5 mag at max	
0343W	25 11	0	8.13	K0	1-1-1	" 17.5 mag at max, to S	
0504E	15 03	0	8.0	F2	1-1-1	Ecl. Bin	
2109W	27 11	0	8.93	K0	1-1-1	A.G. 2-5	
0007W	15 08	0	8.0	F2	1-1-1	Ecl. Bin 4/3	

cases common to A.G.
 0.25 - 0.5
 very faint. Phew!!

1 P.H. + 8.

H. m. 17.

	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

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

Transparency Conditions
 cloudy at sunset, clearing about 2110
 residual clouds low & south.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 33	+24 25	0	8.16	K0	1-1-1	AG 25 1st mag. niter just south of Saturn (by eye) Part of bird's nest on dome floor from last repair. I. can't shutter!	fine
W 0 33	+24 22	0	7.92	G5	1-1-1	AG 25 shutter tightly.	fine
1 34W	+24 27	0	8.97	G5	1-1-1	AG 25 mp = 8.3 but not safe by mp = 8.9	fine
2 00 W	27 35	0	8.93	K0	1-1-1	" 25 power off from 02.19 - 02.33	fine
1 24 W	29 39	0	8.07	G5	1-1-1	" 25 4 PH's needed plates needed.	stop

April 25

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

Date Mon 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.I.	Hour Angle End
19005	HD 63178	07 42.2	29 01	12"	E 103	0.02	16.1	20 11	21 59		
19006	63410	07 42.2 ^{40.2}	26 31	"	"	"	16.1	20 52	21 12		
19007	74699	08 38.4 ^{40.2}	27 57	"	"	"	16.1	21 36	22 28		
19008	77313	08 56.7	26 13	"	"	"	16.1	22 24	22 19		
19009	85131	09 51.5	29 02	"	"	"	16.1	23 23	23 23		
19010	106398	12 09.3	27 03	"	"	"	16.0	00 36	01 26	2	
19011	147930	16 19.9	28 37	"	"	"	16.0	01 35	02 10	3	
19012	156095	17 10.5	26 11	"	"	"	16.0	02 52	03 13	4	
19013	156966	17 15.4	27 23	"	"	"	16.0	03 21	04 01	1	
	Focus lost				O.T.B.						

When attempting to line up I found that some small stars
could be seen by eye looking into the field of view.
After a time I was able to see some stars pointing but
when attempting to move it again, found that it
was not possible to see any stars larger than the red star.

ome Temp.....⁶⁰.....
 ocus.....12.710.....
 ome Temp.....47°F.....

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

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	301W	28 53	0	7.78	35	1-1-1	AB	fine
	342W	21 24	0	7.7	35	1-1-1	"	fine
	382W	27 46	0	7.79	K0	1-H	"	fine
	412W	26 04	<0	8.00	15	1-1-1	"	good
	0437W	39 43	<0	7.80	30	1-1-1	" <u>cc2</u> Almost impossible to keep star in field of view	fine
	0313W	21 46	<0	7.82	G5	1-1-1	"	fine
	0007W	22 7.5	0	8.28	K0	1-1-1	" <i>guiding poor</i>	fine
	0000	26 27	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.	
<p>Suggest checking electrical system of P.O. tomorrow.</p>								

23 About 250 visitors, showed Saturn with 74"

Date Lat. 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.
19014	HD 108466	12 22.6	+28 40	I-12	E-703-a-0	^{2x} 1708	+16.5	22 17	23 01	2
19015	114093	13 03.2	25 21	"	"	"	16.5	23 04	23 24	3
19016	113771	13 00.9	27 07	"	"	"	16.4	23 27	00 17	4
19017	129412	14 37.3	24 57	"	"	"	16.3	00 24	01 14	1
19018	142929	15 52.2	25 28	"	"	"	16.4	01 19	02 41	2
19019	AG. 7973	16 59.0	25 00	"	"	"	16.3	02 45	04 03	3
	Focus Sat					O.T.B.				

Dome Temp. 53
Focus 2.9
Dome Temp. 71

Hour Angle
End

Transparency Conditions *Good*

Dome Temp... *53°F*

Focus... *12.910*

Dome Temp... *+50°F*

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 0 39	+28 24	0	7.93	K0	1-1-1	AG 25	<i>fine</i>
N 0 21	25 05	0	7.12	K0	1-1-1	AG 25	<i>ok</i>
1 16 W	26 50	0	7.93	K0	1-1-1	AG 25	<i>ok</i>
0 37 W	24 44	0	7.80	G5	1-1-1	" "	<i>ok</i>
0 50 W	25 18	0-1	8.79	G5	1-1-1	" "	<i>ok</i>
1 11 W	24 55	0-1	8.85	K5	1-1-1	" "	<i>fine</i>
					<i>4/3</i>	<i>I.P.H. loaded plates needed.</i>	

Date Sun Apr 27-28, 1952 Observer H.G. (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.F.	Hour Angle End	D
19020	HD 63433	07 43.8	27 37	I-12	E10320	008	+20.1	20 37	21 13	4	352	2
19021	HD 63410	07 43.7	26 31	"	"	"	+20.1	21 15	22 07	1	226	2
19022	HD 83935	09 36.6	26 04	"	"	"	+20.1	22 12	23 06	2	1334	2
19023	HD 87557	10 15.0	29 27	"	"	"	+20.1	23 10	23 50	3	2338	2
19024	HD 111285	12 43.1	24 39	"	"	"	+20.0	23 54	00 18	4	1354	2
	Star Chart					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 21-24-2435	<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 00.18 413 sky remaining thick. 4 PH & loaded +9	<i>fine</i>

April 28

MC	SC	MTW	STW	SW
110.7 ^S	-34.8	-12.2 ^S	+2.2 ^m	-3 ^S

Date Mon. Apr 28-29, 1928 Observer Cm - 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.
19025	HD 86131	09 51.5	+29 02	I-12	E103a-0	.008	+19.1	22 52	23 34	1
19026	HD 82557	10 15.0	+29 27	"	"	"	+19.0	23 40	00 30	2
19027	HD 114093	13 03.2	+25 21	"	"	"	19.0	00 37	00 56	3
19028	AG. 6529	13 30.5	25 19	"	"	"	19.0	01 01	03 06	4
19029	HD 162901	17 42.3	25 00	"	"	"	18.9	03 17	04 24	1
	<i>Focus</i>	<i>Dist</i>		<i>O.T.B.</i>						

Dome Temp.
Focus
Dome Temp.
Hour Angle
End

Transparency Conditions

Cloudy at first, improving later.

Dome Temp.
 Focus 12.205
 Dome Temp. 54°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 3 50	+28 47	0	7.98	K ₀	1-1-1	AG	fine
0422W	+29 11	0	7.95	K ₀	1-1-1	"	fine
0201W	2505.5	0	7.12	K ₀	1-1-1	"	fine
0344W	2503	0	9.2*	G ₅	1-1-1	" * Suggested on programme 0215 Brilliant Aurora	fine
0047W	2459	0	8.67	K ₀	1-1-1	" 0227 Some haze Aurora quite bright then faint	fine
					4/3		
						H. on M.	
						3 P. H. L. ...	
						Plate M. ...	

Date Nov. 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	ND 63712	7 45.2	29 26	I-12	E-10320	let 1008	21.2	19 54	20 44	2
19031	ND 63433	7 43.8	27 37	"	"	"	21.2	20 45	21 30	3
19032	91143	10 26.3	24 36	"	"	"	21.2	21 37	22 37	4
19033	110753	12 53.9	28 20	"	"	"	21.1	22 41	23 41	1
19034	122796	13 53.9	27 58	"	"	"	21.1	23 44	00 10	2
19035	145458	1606.0	25 45	"	"	"	21.1	00 21	01 01	3
19036	149241	1628.7	27 55	"	"	"	21.1	01 05*	02 34	4
	"	"	"	"	"	"	21.0	02 31	03 57	4
	Focus Test				O.T.B.					

Date Wed, Apr 30/May 1, 1952 Observer C. M. - 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	E1030.0	^{5'} 009	+16.2	20 00	20 40	1
19038	HD 67402	08 02.7	+27 47	"	"	"	+16.0	20 43	01 15	2
19039	HD 83735	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 30	3
19041	HD 100179	11 26.6	+24 52	"	"	"	+15.9	22 30	23 10	1
19042	HD 111285	12 42.1	+24 39	"	"	"	+15.9	23 15	23 47	2
19043 ^a	HD 99055	10 11.3	+26 22	"	"	"	+15.8	23 53	00 43	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
	<i>From List</i>					0 T 13.				

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
W03 09	+29 17	0+	8.01	G5	1-1-1	AQ	fine
W03 26	+27 37	0	7.72	K0	1-1-1	" large	fine
W02 28	+25 49	0	7.81	K0	1-1-1	* " seeing poor * (through glass)	<u>ns</u>
W02 45	+29 00	0+	7.88	K2	1-1-1	"	good
W -	+24 34	0-1	8.15	K2	1-1-1	"	good
W01 19	+27 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. <i>See also 1-4</i>	fine

Transparency Conditions *Fairly continuous thin Occasional cloud*

Dome Temp. *47°F*
 focus *12.910*
 Dome Temp. *+33°F*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^w 22	+25° 40'	0	7.91	K0	1-1-1	AG 25	good
3 ^w 27	+23° 30'	0	8.92	K0	1-1-1	AG 25	1 week
W02 01	+26 06	0	8.91	G5	1-1-1	AG 25	1 week
W03 13	+24 23	0	8.96	K0	1-1-1	" "	1 week
W01 30	+28 58	0	3.75	K2	1-1-1	" "	fine
W04 46	+26 23	0	7.73	K0	1-1-1	" "	fine

Fairly continuous thin Occasional cloud

2 phi's loaded, new box required.

May 2 *MC* *SC* *MTW* *STW* *SW*
 -10.8^s *-6.8^s* *-19.8^s* *.0^m* *-15^s*

Date Feb 14 1952 Observer Pa - Hr Julian Day 195

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	E12	E12	25A	+10.7	20 55	21 05	1
19055	87680	10 01.7	29 44	"	"	"	+10.7	21 18	22 18	2
19056	89055	10 11.3	26 22	"	Grays	"	+10.7	22 14	23 14	3
19057	69361	10 13.6	24 52	"	"	"	10.5	23 00	24 00	4
19058	149403	16 21.3	25 04	"	"	"	10.3	01 03	02 03	2
19059	152748	16 50.1	27 45	"	"	"	10.4	02 42	04 12	3
	<i>From 7-11</i>				O.T.B					

Dome Temp... 50
 Focus... 12.910
 Dome Temp... 40

Transparency Conditions Good

Barium Group double group 16 members
 1st member from west 5.5 degrees

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0112W	29 32	0	7.3	K2	1-1-1	AG 3rd magnitude	(strong)
0237W	22 22	0	8.21	G5	1-1-1	"	fine
0349W	14 07	0	8.02	G0	1-1-1	"	fine
0500W	24 27	0-1	8.47	K2	1-1-1	"	wk
0527W	2.4158	0	8.77	G0	1-1-1	" 2225 2nd mag P. mag.	1 wk
0146W	2 139	0	8.74	K0	1+	" 2252 2nd mag P. mag.	(guiding) focus center to us
					4/3		
						2 P.H. + 4 + 24 [L.A. C. mag.]	
						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	Highspeed	.008	+12.1	22 21	23 51	4
19061	HD 110883	12 40.2	27 57	"	"	"	12.1	23 56	01 20	1
19062	150889	16 38.8	26 02	"	"	"	12.0	01 33	03 10	2
19063	160508	17 35.2	26 77	"	"	"	12.0	03 17	04 17	3
	<i>Focus Test</i>				OT.B.					

Home Temp. +49

ocus 12.910

Home Temp. 46

Transparency Conditions *fair*

38

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

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W3 38	26 01	0-1	8.28	G5	1-1-1	AG 25 clouds at first, again at 23.20	fine
0314W	27 39	0	8.47	K0	1-1-1	AG 25	fine
0100W	25 57	0	8.57	K0	1-1-1	"	good
0110W	26 46	0	8.23	G5	1-1-1	" Windy 2 PH + 2H Hon M.	great

39

Date Sun. May 4-5, 1952 Observer Cu - 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.I.
19064	HD 94966	10 52.7	+24 55	I-12	Niskhod	.008	+13.0	22 58	23 58	4
19064-F	HD 104376 <i>Focus Test</i>	11 54.1	+25 12	"	"	"	+12.9	00 02		1
19065										

Home Temp. +50°F

ocus 1.2 210

Home Temp.

Transparency Conditions *Cloudy, clearing, Scattered cloud, some haze* 40

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
103 36	+24° 38'	0-1	8.15	Ko	1-1+1	A.G. circlet seen from N.W. 23.30	fine
	+24.49		8.68	Go	1-	" Star gone at 0015 Little solid	fair
					4/3	<u>4 photos loaded, 1 from M.</u> 22 plates in box	

	HC	SC	H ₂ O	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.
19065	HD 87804	10 02.4	+27 16	I-12	Hushead	^{6t} .008	+14.5	20 10	21 28	1
19066	HD 92108	10 33.0	+26 26	"	"	"	+14.6	21 31	22 40	2
19067	HD 94336	10 48.2	+26 44	"	"	"	+14.6	22 51	23 41	3
19068	HD 104393	11 56.2	+24 47	"	"	"	+14.4	23 47	01 50	4
19069	" 150779	16 38.2	25 38	"	"	"	14.6	01 39	04 29	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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 2 12	+27 02	0-1	8.82	Ko	1-1-1	AG	weak
W 3 03	+26 10	0-1	8.89	Es	1-1-1	"	weak
W 3 40	+26 27	0	8.12	Mo	1-1-1	"	weak
0 11 11	+24 23	0	8.92	Ko	1-1-1	"	weak
22 5 24	23 30.5	0	9.4	Go	1-1-1	"	fine weak



1 P.M. + 10. H. m. m.

	Mc	Sc	MTW ^s	STW ^m	SW ^s
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	-.5 ^m	-38 ^s
14	+6.0 ^s	-10.1 ^s	-7.5 ^s	-.2 ^m	-42 ^s
See May 10		~ 60	variable	Ha	Gu Cr

Transparency Conditions *Good*

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

12.940

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 53	24 37	0-1	8.47	K ₂	1-1-1	AQ <i>developed</i>	<i>fine</i>
W 2 58	29 37	0-1	8.98	G ₀	1-1-1	" <i>Setting 5</i>	<i>good</i>
W 3 07	25 57	0-1	8.33	K ₀	1-1-1	" " <i>9</i>	<i>good</i>
W 3 33	26 01	0+	8.28	G ₅	1-1-1	" " <i>5</i>	<i>fine</i>
W 4 01	27 07	0+	8.37	K ₅	1-1-1	" " <i>9</i>	<i>good</i>
03-14	26 23	0-1	8.79	G ₅	1-1-1	"	<i>good</i>
03-14	26 09	0	8.84	G ₅	1-1-1	"	<i>good</i>
03-14	26 32	0	8.83	G ₅	1-1-1	"	<i>ok</i>
03-14	25 50	0	8.72	K ₂	1-1-1	"	<i>good</i>
					<i>2/3</i>		
						MC SC HTR STR SW <i>00 July 10 +8.0^s -12.5^s -10.5^s -1.4^m -45^s</i> 3 P.M.	<i>Focus OK</i>

Date *May 16/17* 1952 Observer *Pa - 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.
19077	HD 107725	12 126	27 09	127	H. Spect	208	16.8	22 25	0005	3
19078	HD 123877	14 05.1	25 18		"	"	16.5	0009	0139	4
19079	" 156563	1713.2	25 08	"	"	"	16.7	0146	0316	1
	<i>Focus</i>		<i>Test</i>		O.T.B				0215	

Transparency Conditions *clouds large clearing about 2715*

Dome Temp. *50*
 Focus *12940*
 Dome Temp. *46*

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>308W</i>	<i>26 52</i>	<i>0</i>	<i>8.93</i>	<i>K2</i>	<i>1-1-1</i>	<i>AG 25 Some haze</i>	<i>Lowish</i>
<i>0253W</i>	<i>26 04</i>	<i>0</i>	<i>8.92</i>	<i>H5</i>	<i>1-1-1</i>	<i>"</i>	<i>Lowish</i>
<i>0022W</i>	<i>25 05</i>	<i>0</i>	<i>8.91</i>	<i>G5</i>	<i>1-2</i> <i>4/3</i>	<i>" 0200 Clouds + Haze coming from N.W. + W. 0210 Star gone sky quite solid.</i>	<i>Too weak</i>

*2 P.H. + 10 Cramer's
 1 Box 10300. (9 plates)*

Set up for 150 ... chips, 2 ...

	MC	SC	MTW	STW	SW
<i>May 19</i>	<i>+12.8^s</i>	<i>-13.8^s</i>	<i>+17.8^s</i>	<i>-.4^m</i>	<i>+20^s</i>
<i>21</i>	<i>+13.8^s</i>	<i>-11.6^s</i>	<i>+11.8^s</i>	<i>-.4^m</i>	<i>+4^s</i>
<i>23</i>	<i>+15.8</i>	<i>-13.1</i>	<i>-12.0^s</i>	<i>+.2^m</i>	<i>-2^s</i>
<i>26</i>	<i>+19.0^s</i>	<i>+11.5^s</i>	<i>-28.0^s</i>	<i>-.3^m</i>	<i>+8^s</i>

Date Mon/Tues, May 26/27/92 Observer L (Gu) - Gu Julian Day 2,434,159

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
19080}	HD 97777	11 09.9	+26 59	I-12"	103a-0	.008	+19.8	20 51	21 41	1
19081}	HD 101396	11 35.0	+26 42	"	"	"	+19.9	21 44	22 24	1
19082}	HD 102161	11 40.4	+25 41	"	"	"	+19.8	22 26	23 03	4
19083}	HD 104076	11 54.1	+25 12	"	"	"	+19.7	23 13	23 55	4
19084	HD 144579	16 01.5	+39 24	"	"	Midred	+19.5	00 02	00 32	2
19085	HD 151625	16 43.5	+28 34	"	"	"	+19.5	00 26	01 10	3
19086	HD 154049	16 58.0	+25 10	"	"	"	+19.5	01 20	02 02	4
19087	HD 159968	17 32.4	+27 39	"	"	"	+19.5	02 07	02 37	1
19088	HD 170619	18 25.3	+29 30	"	"	"	+19.5	02 33	03 11	2
19089	HD 172169	18 33.6	+29 29	"	"	"	+19.4	03 12	03 26	3
19090	HD 175241 ⁰	18 52.7	+28 04	"	"	"	+19.4	03 31	03 57	2
	FOCUS TEST O.T.B.									

Dome Temp. +64°F

Focus 12 940

Dome Temp. +56°F

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

50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W2 28	+26 44	0-1	8.98	K ₀	1-1-1	AG 25 set 2	fine
W2 46	+26 26	0-1	8.82	K ₀	1-1-1	" " " 8	fine
W3 25	+25 28	0-1	8.75	G ₅	1-1-1	" " " 2	good
W4 04	+24 58	0	8.68	G ₀	1-1-1	" " " 8	Probably wrong star too weak n.g.
W0 19	+39 16	1-2	7.62	G ₈	1-1-1	Std. Vel.	fine
W0 31	+28 29	1-2	8.50	G ₅	1-1-1	AG 25	fine
W1 04	+25 07	2	8.70	K ₂	1-1-1	" "	fine
W0 55	+27 36	2	8.00	M ₀	1-1-1	" "	good
W0 33	+29 31	1-2	7.90	G ₅	1-1-1	" "	fine
W0 54	+29 32	2+	7.69	K ₀	1-1-1	" "	good
W1 03	+28 09	1-2	8.00	K ₀	1-1-1	" " this large of course with the sep.	good
2/4							
2 Ph's loaded (103 a-o)							
with same e 103 a-o in case.							

Date Tues/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.B.
19091	HD 96234	11 00.7	+24 45	I-12	103a-0	.005	+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
19092	HD 102494	11 42.7	+27 53	"	"	"	+21.0	22 23	23 01	1
19093	HD 104589	11 57.6	+25 54	"	"	"	+20.3	23 04	23 50	1
19094	HD 112001	12 48.2	+27 20	"	wide	"	+19.5	23 54	0055	2
19095	" 144579	16 01.5	39 27	"	"	"	18.5	* 01 52	0 32	3
19096	{ 169245	18 18.7	26 10	"	"	"	18.7	02 30	03 56	1
	Focus	Point			O.T.B.					

Dome Temp. +63°F

Transparency Conditions *some haze, poor at first*

Focus 12.240

Dome Temp. 55°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
	+24	0	8.91	Q5	1-1	AG 25 wrong *, check on S lens, couldn't check field with watch setting	low										
W 2 39	+24 43	0	8.70	Ko	1-1-1	AG 25	& wk										
W 3 20	+27 37	0-1	8.60	G5	1-1-1	" "	good										
W 3 53	+25 36	0-1	8.84	Ko	1-1-1	" "	good										
0352W	+27 03	0	7.91	G0	1-1-1	" "	good										
0223W	39 16	0 1/2	7.62	G8	1-1-1	Std. Vel.	fine										
0140W	26 12	0	2.91	G0	1-1-1	A.G.	good										
					4/3												
						0030 Heat in spectrograph NOT turned on Turned on 0033.											
						* Delay of trouble with dec clamp											
						0210 Haze in Ni Ni, Ni, S Some mist lightning in air.											
						0330 sky seems to be obscured with a very thin layer of cloud.											
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>+37.8°</td> <td>-9.5°</td> <td>-34.0°</td> <td>-3°</td> <td>+2.5°</td> </tr> </table>	MC	SC	MTW	STW	SW	+37.8°	-9.5°	-34.0°	-3°	+2.5°	
MC	SC	MTW	STW	SW													
+37.8°	-9.5°	-34.0°	-3°	+2.5°													
						P.H. # 142 loaded with camera. Camera needed											
						P.H. # 3 loaded E 10320 + 3 E 10320 in D.											
						H. on M.											

Dome Temp... 56.....

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

Dome Temp... 45.....

Transparency Conditions... Good Scattered clouds 54

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0240W	24 28	0	8.11	G5	1-1-15	AGZ5	
0344W	23 53	0-1	8.92	G5	1-1-19	"	
0431W	23 55	0	8.68	G0	1-1-3	"	0010 some cloud.
0345W	27 22	0!	8.82	G5	1-1-8	"	0106 Becoming very hazy in W. More Cloud Approaching.
0132W	29 15	0!!	8.72	K0	1-1-1	"	* Delay 1/2 Dec. Motion Blind Fuse.
0055W	29 02	0!	8.33	G0	1-1-1	"	
					4/3		

P.H. # 3+4 limit E103a0
 E103a0: Needed - There are no more - 774
 HiSpeeds: Needed -
 H. on M.

Dome Temp. +63 F

Transparency Conditions

Poor.

56

Focus.....

About 200 microns showed with 74"
(G + h) 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 be clear	
						#s 394 loaded 10320	
						Proc of Hufield in dome.	

57

Date Sun June 12 Observer Pa - H Julian 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	E-12"	E103a 0	000	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. ped	"	17.9	0045	0221	1	
19109	176230	1254.2	2301	"	"	"	18.0	0236	0350	2	
		<i>Howe Lents</i>					<i>O. G. B.</i>				

Dome Temp. 60

Transparency Conditions Good

Focus 12.940

Dome Temp. 5.1

Principles

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	set	REMARKS	Quality
228 W	25 36	0	8.93	K2	1-1-1	3	AG 25 This star is not a faint as 8.93	good
312 W	25 41	<0	8.49	G0	1-1-1	8		good
413 W	27 50	0	8.72	K0	1-1-1	3		fine
1*	25 41	0	8.75	G0	1-1-	8	* As far west as possible i.e. about 5° 18' W - Mo	lowish
013 W	27 59	0!	8.82	G5	1-1-1		AG 25	fine
0115 W	28 04.5	0!!	8.62	K0	1-1-1		"	good
						4/3		

H. on M -

4 P.H. 2nd H. speed.

1 Box + 18 H. speed in D.

June 2

MC	S	SC	S	MTW	S	STW	SW
+24.3		-3.3		7-12.0		-.2 ^m	-8 ⁵

Date 1952, June 2/3, Mon/Tues Observer C. Ho - H - 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.I.
19110	HD 104590	11 57.6	+25 00	I-12"	Hizbeed	.008	20.4	20 ^h 57 ^m	21 55	1
19111	" 104784	11 58.9	25 30	"	"	"	20.2	21 58	22 43	2
19112	" 109482	12 29.9	29 38	"	"	"	20.0	22 50	23 50	3
19113	" 116232	13 17.2	26 31	"	"	"	20.0	23 54	00 44	4
19114	152332	17 23.6	26 53	"	"	"	20.0	00 51	01 51	1
19115	167782	18 11.7	25 46	"	"	"	20.2	01 51	03 37	2
	<i>From Tent</i>				<i>S.T.P.</i>					

Dome Temp. +63°F

Transparency Conditions

Quite good

60

Focus 12.940

Bank of haze SW & W.

Dome Temp.

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	Aug. 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	" "	good
3	53W	+26 16	0	8.00	K0	1-1-1	" "	good
3	54W	26 50	0	8.51	G5	1-1-1	" "	fine
3	52W	25 47	0	8.91	K0	1-1-1	" "	L weak guiding
						4/3		

pass drive
 0015 Considerable cloud + haze coming from W.
 Guiding faint.
 0215 Cloud & haze mostly gone.
 0250 Guiding very poor.

3 P. H. + 1 Box + 13
 June 4 ^{MC} +26.8^S ^{SC} +9.1^S ^{MTW} -15.2^S ^{STW} 0^m ^{SW} -6^S

Stronger in 9th hour 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

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W02 00	24° 57'	0	8.05	K ₀	1-1-1	Seeing varied from 00 to 1. Scattered cloud	
W03 24	24 30	0-1	8.68	G5	1-1-1	Scattered cloud — Closing in - 24 20	
	25 00						
June 6 HC SC MTW STW SW ^S +26.5 ^S +13.5 ^S +12.0 ^S +.3 ^m -12 ^S							

Date Fri June 6-7, 1952 Observer Had Sam - 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.	Hour Angle End
19118	HD 105964	12 06.6	26 17	I-12	Highspeed	008	25.5	21 11	22 51	1	3 26 N
19119	HD 105478	12 06.2	25 19	"	"	"	+25.1	23 06	00 06	2	4 43
19120	HD 144579	16 01.5	39 24	"	"	"	+25.1	00 18	00 58	3	38.3
19121	HD 167275	18 02.4	26 12	"	"	"	+25.0	01 04	01 54	4	0 57
19122	(HD 170738	18 25.9	25 42	"	"	"	+25.0	01 57	03 17	5	1 34
	FOCUS TEST		O.T. B.								

Dome Temp. 72
Focus 12 40
Dome Temp. 20

Hour Angle
End

Dome Temp. 74 F
 Focus 12.940
 Dome Temp. +62°F

Transparency Conditions Poor - cirrus cloud 64
 03.00 haze & cum. from N.E. out by 03.50

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
23 06	4 43	25 00	0	7.94	G5	1-1-1	A.G.	l weak
23 18	1 38	+39 16	0	7.62	G8	1-1-1	Std. vel. marked 1920	fine
23 31	0 27	+26 14	0	7.93	K0	1-1-1	A.G.	fine
23 44	1 34	+25 44	0	8.79	G5	1-1-1	"	good

2/4
 4 P's loaded, 2 loose

June 9

HC	SC	MTW	STW	SW
-28.5 ^S	+12.6 ^S	-22.0 ^S	-0.1 ^m	-11 ^S

Dome Temp. 69°F

Focus 12.940

Dome Temp. +58°F

Transparency Conditions *good*

66

Sat, June 7 '52

Hr dNm showed abt 200 visitors: SUN with 70" C with horizontal

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 47	+28 59	0-1	8.84	G0	1-1-1	AG 25	<i>good</i>
W 3 53	25 43	0	8.54	K2	1-1-1	" 23:00 haze in west, light clouds in west + SE	<i>good</i>
W 1 08	39 16	0-1	7.62	G8	1-1-1	Star Yel. light cirrus 23:12	<i>fine</i>
W 1 42	+26 35	0	8.67	G5	1-1-1	AG 25	<i>weak</i>
W 1 18	+29 00	0	8.37	K2	1-1-1	" " seeing very poor due to haze	<i>1 weak</i>
W 1 36	+30 10	0-1	8.15	G5	1-1-1	" " haze	<i>fine</i>
						2/4 <i>west good ok</i> 2 PM's loaded. cameras in box.	
						June 11 $\begin{matrix} \text{MC} \\ 34.45 \\ +77.2 \end{matrix}$ $\begin{matrix} \text{SC} \\ 26.3 \end{matrix}$ $\begin{matrix} \text{MTU} \\ -27.2 \end{matrix}$ $\begin{matrix} \text{STU} \\ -.3 \end{matrix}$ $\begin{matrix} \text{SW} \\ -11 \end{matrix}$	

67

Date Wednesday June 11/2/32 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	^{12.8} 12 ^h 14.0	25° 24'	I-12	Hyperical	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
	Bred - Test 0/3									

Dome Temp. 63°

Focus 12.940

Dome Temp. 53°

Transparency Conditions Fair, - some light cloud 68

Strömgen 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
					7/3.	0245 small bits of light cloud 0302 Considerably light cloud 0317 Star gone Very little chance of clearing before dawn * would have been noted if any chance of clearing.	good good good good good
1 P.H. + 1 Box H. on M.							

1952

Date Thursday June 12-13 Observer Md - 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	Harpord	3rd 008	21.2	21 02	22 22	4	13 10
19135	HD107611	12 17.0	27 51	I-12	"	"	21.2	22 28	23 48	1	14 38
19136	HD118658	13 33.2	27 18	"	"	"	21.3	23 54 SID. TIME	18 28	2	14 27
19137	" 144579	16 01.5	39 24	"	"	"	21.2	18 30	18 53	3	13 39
19138	AG 9449	18 55.5	29 28	"	"	"	"	19 04	20 04	4	14 38
19139	H.D. 188258	19 47.2	27 50	"	"	"	21.4	20 13	20 43	1	15 10
	<i>From List</i>				<i>AB</i>						

Dome Temp. +72°F

Focus 12.940

Dome Temp. +69°F

Transparency Conditions

Hazy & Cloud

72

Apert 100 inches. Showed Saturn @
11:15 with 8" M13 with 77

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

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 98 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 Pls loaded, plate in frame	
						box	
						<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>MC</p> <p>June 16 +33.0^s</p> </div> <div style="text-align: center;"> <p>SC</p> <p>+33.8^s</p> </div> <div style="text-align: center;"> <p>SW</p> <p>-16.8^s</p> </div> </div>	

73

Date *Mon June 16/17 1952* Observer *S-G.V.-L* Julian Day

Plate No.	Object	R.A. 1900 <i>50</i>	Declination 1900 <i>50</i>	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	L-103a			21 20	21 22	1	50E
19145	" 6229	16 45.6	+47 37	"	"			21 27	21 41	2	49E
19146	<i>Bootes</i>	15 13.5	+00 04	"	"			21 46	21 58	1	06W
19147	N.G.C 5904	15 16.0	+02 16	"	"			22 06	22 08	2	015W
19148	" 6366	17 25.1	-05 02	"	"			22 57	23 13	1	050E
19149	" 6254	16 54.5	-04 02	"	"			23 16	23 18	2	032E
19150	6218	16 44.6	-01 52	"	"			23 23	23 25	1	07E
19151	6426	17 42.4	+03 12	"	"			23 29	23 49	2	07E
19152	6535	18 01.3	-00 18	"	"			23 57	00 13	1	050E
19153	6838	19 51.3	+18 38	"	"			00 21	00 25	2	050E
19154	6093	16 14.1	-22 52	"	"			00 33	00 39	1	01W
19155	6235	16 50.4	-22 06	"	"			00 45	01 09	2	03W
19156	6712	18 50.3	-08 47	"	"			01 13	01 29	1	05W
19157	6838	19 51.3	+18 38	"	"			01 35	01 39	2	070E
19158	6779	19 14.6	+30 05	"	"			01 43	01 49	1	07E
19159	6712	18 50.3	-08 47	"	"			01 59	02 19	2	01W

Dome Temp.....

Transparency Conditions.....

74

Focus.....

Dome Temp.....

Ending Time E.S.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17	01 55E						Seeing fair	
21 41 2	01 43E							
21 43	00 06W						Focus on a Serpentiis no change	
22 50	0 15W						delay for light ch	
23 19 1	0 56 E							
23 18 2	0 12E							
23 57	0 57E							
23 52	0 37E						Focus of Serpentiis no change	
23 41	0 35E							
23 25 2	02 05E							
00 39 1	01 51W							
00 39 2	01 43W							
00 39 3	00 05W						Seeing poor	
00 39 4	00 52E						focus on δ Sagittae	
01 49 1	00 07E							
02 19 1	01 54W							

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp.....

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 02W							
01 45W							
00 23W						<p>Squaring all plates Practically every plate taken through out clouds a wretched night. Lightning flashes at end</p>	
						<p>June 17 HL SS HYW STW -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	NGC. 6205	16 39.9	36 33	Newt.	E-103A0			2120	2123	1	195
19164	" 5904	15 16.0	+02 16	"	"			2127	2129	2	197
19165	" 5634	14 27.0	-5 45					2133	2147	1	194
19166	Beades'	15 13.5	+06 04	"	"			2153	2217	2	191W
19167	" 5897	15 14.6	-20 49					2222	2232	1	197W
19168	" 6366	17 25.1	-5 02					2236	2246	2	195
19169	6426	17 42.4	+3 12					2249	2303	1	195
19170	6535	18 01.3	-00 18					2309	2303	2	195
19171	I.C. 1276	18 07.5	-07 15					2335	2359		195
19172	NGC. 6838	19 51.3	+18 38					0009	0042	2	195
19173	" 6712	18 50.3	-8 47					0017	0031	1	195
19174	" 6093	16 14.1	-22 52					0036	0042	2	194
19175	6235	16 50.4	-22 06					0045	0107		194
19176	I.C. 1276	18 07.5	-07 15					0112	0136	2	194
19177	NGC. 6838	19 51.3	+18 38					0142	0145		194
19178	" 6712	18 50.3	-8 47					0149 ^m 59 ^s	0201 ^m 59 ^s	1	194

Dome Temp. 70°F

Transparency Conditions.....

78

Focus.....

Dome Temp.....

Ending Time E.S.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	6149E						Focused on γ here.	
219	6019E							
47	0049W						Seeing only fair.	
7	0034W							
23	0047W						Focused on β librae	
246	0110E							
3	0110E							
3	0109E							
3	0040E						ran out of guiding motion, reset.	
1	0210E						Focused on γ Aquilae	
1	0050E							
2	0257W							
1	0146W							
1	0053W							
1	0037W						Focused on γ Sagittae	
1	0041W						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.	Hour Angle End	D
19178	K.A. 110	1839.5	+003					0204 ^m 54 ^s	0216 ^m 54 ^s	2	3W	
19179	M.C.C. 6544	1804.3	-2501					0220	0234	1	3W	
19180	" 6626	1821.5	-2454					0237	0243	2	3W	
19181	" 6656	1833.3	-2358					0245	0248 ⁷⁰	1	3W	
19182	" 6712	1850.3	-0247					0251	0301	2	3W	
19183	" 6838	1951.3	+1838					0305	0308	1	3W	
19184	" 7089	2130.9	-0103					0312 ^m 30 ^s	0313 ^m 0 ^s	2	N	

Dome Temp. 64°F

Transparency Conditions.....

Focus.....

Dome Temp.....

Ending Time
P.M.
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0107W						Sequence on plate with 6912	
0159W							
0151W							
0145W							
0140W							
0046W							
0011W							

not a cloud all night, but seeing poor
guiding all plates

June 18 MC S Se H TW STW SW
 +33.3 +42.2^S +27.8^S +.3^m -16^S

Date Wed. June 18-19/52 Observer S. Gu. Hr. (So) Julian Day

Plate No.	Object	R.A. 1950 50	Declination 1950 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
19185	NGC 6205	16 39.9	+36 33	NEWT.	E _{103A.0}			2120.	2122	1
19186	" 5904	15 16.0	+02 16	"	"			2128	2130	2
19187	" 5634	14 27.0	-5 45	"	"			2135	2149	1
19188	Boader	15 13.5	+00 04	"	"			2202	2218	2
19189	N.G.C. 5897	15 14.6	-20 49	"	"			2243	2257	1
	6366	1725.1	-502							
	6097									
	6366	1725.1	-502							

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
2133	0149E						Forecast on 3. 2. 1. 0.	
2130	0014E						Hazy, few light clouds	
2149	0053W						mainly in N.W.	
2118	0036W						2210 Clouds in N.W. to zenith.	
2257	0114W						Clouded out Forecast - Clear with a few cloudy intervals. The cloudy interval lasted all night pretty well, and turned in to rain.	

Date Thurs June 17-20/54² 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.	Hour Angle End
19190	N.G.C. 6205	1639.9	+3633	NEWT.	E _{103a0} ^{19"}			2122	2124	1	05
19191	" 5904	1516.0	+0216	"	"			2129	2131	2	05
19192	" 5634	1427.0	-0545	"	"			2134	2148	1	05
19193	Baader	1513.5	+0004	"	Newt. E _{103a0}			2152	2232	2	05
19194	N.G.C. 5897	1514.6	-2049	"	"			2236	2246	1	05
19195	" 6366	1725.1	-0502	"	"			2257	2307	2	05
19196	" 6535	1801.3	-0018	"	"			2311	2325	1	05
19197	IC. 1276	1807.5	-0715	"	"			2334	0004	2	05
19198	N.G.C. 6712	1850.3	-0847	"	"			0008	0020	1	05
19199	" 6838	1951.3	+1838	"	"			0032	0035	2	05
19200	" 6093	1614.1	-2252	"	E _{103a0} ^{19"}			0047	0053	1	05
19201	" 6235	1650.4	-2206	"	Newt. E _{103a0}			0057	0119	2	05
19202	IC. 1276	1807.5	-0715	"	"			0125 ^m 12	0149 ^m 02	1	05
"	KA. 110	1839.5	+0003	"	"			0152 ^m 38	0216 ^m 38 ^s	1	05
19203	N.G.C. 6838	1951.3	+1838	"	"			0220 ^m 40	0223 ^m 40	2	05
19204	IC. 1276	1807.5	-0715	"	"			0229	0257	1	05W

Dome Temp... 62°F

Transparency Conditions

Focus

Dome Temp.

Ending Time
EST.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	24	0144E					Focused on J Herc	
21	31	2011E						
21	48	0056W						
22	22	0057W						
22	46	0107W					Focused on ^P α Cygni	
23	07	0042E						
23	25	0100E						
00	04	0029E						
00	20	0055E						
01	05	0240E					Focused on J Aquilae	
01	13	0214W						
01	14	0205W						
01	47	0117W						
02	05	0112W						
03	03	0008W						
03	07	0225W						

Dome Temp. 54°F

Transparency Conditions

Focus

Dome Temp.

Ending Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
3 10 12	0156W																		
3 15 1	0100W					New Observing Pencil Needed.													
3 19 35	0033E																		
						Not a cloud all night - Ran long exposures on different objects. Seeing only fair. Squidding all plates.													
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>HC</td> <td>SC</td> <td>HTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>June 26</td> <td>+34.2^S</td> <td>+45.7^S</td> <td>+20.2^S</td> <td>+3^m</td> <td>-16.8^S</td> </tr> </table>		HC	SC	HTW	STW	SW	June 26	+34.2 ^S	+45.7 ^S	+20.2 ^S	+3 ^m	-16.8 ^S	
	HC	SC	HTW	STW	SW														
June 26	+34.2 ^S	+45.7 ^S	+20.2 ^S	+3 ^m	-16.8 ^S														
						Sag watch reset June 21.													

Date Sun. June 22/23 1952 Observer L. Gu 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.S.							

Dome Temp. 64°F

Focus 12 940

Dome Temp.

Transparency Conditions

Fair

Sat June 21-22

50 visitors cloudy

Hd. Sec. showed telescope

Ending Time P.M.
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 15W	29 11	0	8.62	G0	1-1-1	A.G. 25	good
3 48W	26 02	0	8.78	G0	1-1-1	" "	good
4 00W	25 33	0	8.71	G0	1-1-1	" "	good
4 21W	24 57	0	7.95	G5	1-1-1	" "	local
1 58W	29 34	0	8.82	K0	1-1-1	" "	good
3 59W	39 16	0	7.62	G8	1-1-1	std vel. becoming very hazy	fine
			8.35	G5		A.G. 25	
clouded out at 02 14 from E.							
2 ph's loaded, 4 in box. H on M.							
June 23 HC SC MW SW SW $+35.5^s$ $+36.6^s$ $+37.5^s$ 0^m -17^s							

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.E.
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	"	"	"	27.4	23 47	00 57	1
19217	{ " 154183	16 58.8	25 48	"	"	"	27.4	01 05	02 05	2
	{ Focus Test						O.T. B.			

Dome Temp. +
Focus 12
Dome Temp. +

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.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 49	3	W 4 21	26 26	0	8.79	G5	1-1-1	AG	
03 43	4	W 4 42	27 46	0	8.26	G5	1-1-1	AG Sky deteriorating in W.	
00 57	1	4 25W	25 19	0-1	8.27	G5	1-1-1	A.C. 25 more haze, clouds.	
01 05	2	3 00 W	25 44	0	8.79	G0	1-1-1	" " sky filling in	
							4/3		
								2 P.H.0 loaded fresh box needed.	
								HC SC HPC STE SW JUNE 25 +36.5° +57.1° -14.5° 7.5" -16°	

Date Wed. June 25/26 Observer H2-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 $\frac{1}{2}$	E103-a0	^{Set} .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>From List</i>				<i>O.L.B.</i>					

Dome Temp. 83°F
 Focus 12.940
 Dome Temp. 77°F

Transparency Conditions Fair, some clouds and haze 92

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 59	✓ 3 29	27 21	1-2	8.63	K0	1-1-1	* Got electric from light switch in N pier after unloading first plate being good, haze bad, star magnit. questionable, somewhat exposure?	
03 12	✓ 4 36	28 53	1	8.93	G5	1-1-1	" but about 10 min. with trouble. Haze with dec guiding motion [bad in	
00 40	0137W	24 56	1	8.85	K5	1-1-1	" (Vis. bin. barely resolved in 74")	
01 12	0308W	39 17	0	7.62	G-8	1-1-1	Std. Vel.	
01 11	0134W	28 35	0!	8.72	G-5	1-2 4/3	0130 Very Hazy. Cloud in S. 0200 Patches of Cloud coming over continually. 0217 Star gone. Sky filling in. Lightning. Closing Up.	
							1 P.H. + 8 Pl. in fring.	

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.	
19223	HD.144579	1601.5	3924	I-12 $\frac{1}{2}$	E10320	.008	26.8	0021	0051	4	
19224	" 175036	1848.4	2624	"	"	"	26.4	0100	0210	1	
19225	" 189796	1956.7	2933	"	"	"	26.3	0222	0316	2	
		<i>Born</i>		<i>Just</i>		<i>B.F.B.</i>					

Dome Temp. 70°F
 Focus 12.940
 Dome Temp.

Transparency Conditions Good.

94

Clouds a haze in early evening (Sun)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
051	0250W	+3917	0!!	7.62	G-8	1-1	Std. Vel.	fine
011	0123W	2629	0!!	8.77	G-0	1-1	A.G. 25: <u>0201</u> Considerable Cloud Coming from N.	good
0316	0120W	2942	0!!	8.40	G-5	1-1-1 4/3	<u>0215</u> Patches of Clouds N, NW, NE, SW, W, S, Zenith <u>0240</u> Star-Gone. <u>0250</u> " Come back. Red glow due east. Looks like a fire.	break

2 PH +4 is frig.

	NC	SC	HTW	STW	SW
June 27	+36.2 ^S	+61.9 ^S	+9.2 ^S	+2 ^m	-11 ^S
June 28	+33.2 ^S	+61.9 ^S	+9.2 ^S	+2 ^m	-11 ^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/52 Observer H. 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. ^m 0	+25° 58'	I-12"	E103a0	0.008	24.5	21 ^h 12 ^m	22 ^h 20 ^m	3
19227	HD 156774	17 ^h 14. ^m 4	+27° 03'	I-12"	E103a0	0.008	24.0	22 34	23 20	4
19228	HD 169819	18 ^h 21. ^m 7	+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 9238 ⁷	18 43.3	+28 18	"	"	"	23.3	01 08	02 36	3
	{ FOCUS TEST		O.T.B.							

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 EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 25 ^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		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	10.4? 8.61	G₀ K	1-1-1	AG 25 light cloud from east	
								02 04	
								4 P's loaded, 9 plates in box.	

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

Dome Temp. 70°

Transparency Conditions *good*

Focus 12.940

Dome Temp. 64°

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 24	1	4 38W	26 01	0	8.93	G0	1-1-1	AG 25	<i>good</i>
03 30	2	5 07W	25 25	0	8.99	K2	1-1-1	"	<i>too weak</i>
03 30	3	4 53W	24 51	0	8.78	K0	1-1-1	"	<i>weak</i>
01 04	4	3 24W	39 17	0-1	7.62	G8	1-1-1	Std. Vol.	<i>distorted</i>
02 00	1	1 25W	28 36	0-1	8.69	K0	1-1-1	AG 25	<i>distorted</i>
02 00	2	2 39W	27 10	0-1	8.62	K0	1-1-1	AG 25	<i>good</i>
03 30	3	1 27W	26 47	1-2	8.09	K0	1-1-1	AG 25 4/6 <i>2 plate holders loaded 4 plates in Eastman box</i>	<i>fine</i>

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.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 3 05	24 49	0	7.92	G ₀	1-1-1	AG Very hazy	Good
W 1 43	39 17	0	7.62	G ₈	1-1-1	Std Vel.	Good
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.

ME SC. NTW STM SW.
 July 4, +47.8° +89.0° -38.4° -5m +12.5s

Transparency Conditions Good

*N. aurora with well-defined homogeneous band
late drabness.*

Dome Temp. 73
Focus 12.940
Dome Temp.

198

Ending Time
L.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	Good
22 28	4 13 W	27 03	0	7.91	G0	1-1-1	"	Good
23 28	4 37 W	29 33	0	8.57	G5	1-1-1	"	Good
23 55	4 27 W	39 15	0	7.62	G8	1-1-1	STD LEVEL	Good
	4 45 W	19 50	0	7.95 8.5	A0	1-1-1	Ecl. Bin	Good
	4 50 W	20 57	0	8.35	G5	1-1-1	A & 25	Good
	1 20 W	25 44	2-2	8.50	K0	1-1-1	"	Good
	1 50 W	25 16	1-2	8.00	G5	1-1-1	"	Good
	1 50 W	30 02	1-2	8.12	G5	1-1-1	"	Good
	1 29 W	26 14	1-2	7.23	G0	1-1-1	1 photo loaded, 4 in box	Good

4/5
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.	Hour Angle End
19251	HD 144579	16 01.5	39 24	I-K ₂	E-10320	set 008	27.3	23 01	23 21	4	
19252	HD 166822	18 07.3	+25 17	"	"	"	27.2	23 26	00 00	1	0-23 W 20
19253	AG 9675	19 07.3	+26 14	"	"	"	27.1	00 08	00 38	2	0-7 W 20
19254	HD 170470	18 24.5	+10 49	"	"	"	27.0	00 47	01 12	3	1-24 W 16
19255	HD 194071	20 18.5	+27 55	"	"	"	26.9	01 23	01 58	4	0-06 W 27
19257	HD 202573	21 11.6	+25 01	"	"	"	26.9	02 06	02 31	1	0-13 E 25
19256	HD 203733	21 19.0	+29 22	"	"	"	27.1	02 35	03 03	2	0-20 W 29
19258	HD 207379	21 43.4	+29 16	"	"	"	27.0	03 09	03 42	3	0-37 W 20
	Focus Test		O.T.B.								

Dome Temp. 75
Focus 12.5
Dome Temp.

Dome Temp. 75°F

Transparency Conditions Good

104

Focus 12.940

Showed 200 visitors M13 with 7" D with 5" and saturn with 4"

Dome Temp. 75°F

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	39 17	1	7.62	G8	1-1-1	Std. Velocity	Strong
0-28W	25 18	0-1	8.56	G0	1-1-1	AG	Fine
0-7W	26 19	1	8.42	G	1-1-1	"	Strong
1-24W	10 53	1	7.96 8.5	A0	1-1-1	Ecl Bin. num 19529	Strong
0-26W	27 03	0	8.53	K0	1-1-1	AG. (wrong star) 2 Wrong * 10 too far south. 7/26	Weak
0-13E	25 16	0-1	7.54	G5	1-1-1	"	Strong
0-20W	29 08	1	8.3	G-5	1-1-1	"	Strong
0-37W	29 30	1	8.57	K0	1-1-1	"	Strong

4/6

Focus OK

4 ph's loaded 4 in box

weld round ones

Date Sun July 6/7, 1952 Observer Ha - Mo (Gu) Julian Day 2,434,200

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
19259	N.D. 109282	12 28.5	25 00	F-12½	E107-4-0	Sky " 8	30.00	20 50	22 00	1
19260	H.D. 116232	13 17.2	26 31	"	"	"	30.0	22 04	23 44	2
19261	N.D. 144579	16 01.5	39 24	"	"	"	29.6	22 48	23 10	3
19262	N.D. 170470	18 24.5	10 49	"	"	"	29.5	23 17	24 17	4
19263	HD 158521	17 29.7	+26 49	"	"	"	29.1 SLIGHTLY WET	24 25	1 25	1
19264	HD 158823	17 26.3	+29 36	"	"	"	29.0	1 32	2 32	2
19265	{ HD 182056	19 17.8	+30 11	"	"	"	29.0	2 40	3 30	3
	{ FOCUS TEST		O.T. B.							

Dome Temp. 76°F

Focus 12.940

Dome Temp. 69°F

Transparency Conditions Good

106

Sidereal part of Stromgren watch found stopped

at 22:52 hours.

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

Ending Time E.S.T.	PM	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		N 4 10	24 45	0!	8.7	MO	1-1-1	AG 25	Good
		W 4 07	26 16	0	8.0	K0	1-1-1	"	Good
		N 1 48	39 17	0	7.62	G8	1-1-1	Std. Vel	A Strong
		W 0 32	10 51	0	^{7.94} 8.5	A0	1-1-1	Red. Bin	Extreme
		W 2 41	26 48	0	8.7	G0	1-1-1	I hope I got the right star	Strong
		W 3 46	29 34	0	8.82	K0	1-1-1		Good
		W 2 53	30 16	0	8.43	G5	1-1-		Fine
<p>4/6 Jones Ch. little violet 1. Ph loaded, new lens needed.</p> <p>July 7 MC SC MTW STW SW +8.5s +33.2s +10.75 -1m +13.0^s</p>									

Date July 7/8, Mon/Tues, 1952 Observer Cu - 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.
19266	HD 109463	12 29.8	24 47	I-12"	103a-c	sat 008	29.0	21 14	21 58	4
19267	HD 113242	12 51.3	29 32	"	"	"	+28.8	22 01	22 51	1
19268	HD 121131	13 49.5	28 20	"	"	"	+25.8	22 53	23 38	2
19269	HD 144579	16 01.5	39 24	"	"	"	+28.8	23 37	23 48	3
19270	HD 170470	18 24.5	10 49	"	"	"	+28.8	23 52	00 00	4
19271	HD 166683	18 06.9	27 57	"	"	"	+28.8	00 36	01 09	1
19272	HD 169573	18 20.2	26 17	"	"	"	+28.8	01 17	01 50	2
19273	HD 183753	19 25.9	28 31	"	"	"	28.8	01 56	02 18	3
19274	HD 185151	19 32.6	27 39	"	"	"	28.8	02 21	02 45	4
19275	HD 190630	20 00.8	30 14	"	"	"	28.8	02 53	03 23	1
19276	HD 199375	20 51.7	27 12	"	"	"	28.8	03 29	03 38	3

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

Transparency Conditions Good
considerable haze W.

108

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 22W	28 04	1-2	8.63	K ₀	1-1-1	" "	Weak
2 31W	39 18	1-2	7.62	C ₀	1-1-1	Ed. vel.	Fine
0 50W	10 52	2	^{8.5} 7.96	A ₀	1-1-1	Ed. 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	"	Good
1 37W	28 37	2	8.49	K ₂	1-1-1	"	Good
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	"	Good
1 31W	27 23	2	7.40	K ₀	1-1-	"	Good

02 10 - cirrus clouds coming in from west
 02 40 heavy clouds moving in from N.W.
 1 ph. loaded Sunday
 new hot plates needed

Dome Temp. +74°F
 Focus 12.940
 Dome Temp. +63°F

Transparency Conditions *Fair*

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4	45W	+25 25	0-1	8.99	K2	1-1-1	AG 25	Two weak
4	30W	+24 57	1-2	^{8.05} 8.56	K0	1-1-1	" " (120895 not marked on chart)	good
2	35W	29 17	0-2	7.62	Q0	1-1-1	Std. vel.	strong
0	58W	10 55	1	^{8.5} 7.96	A0	1-1-1	Ecl. bin. <u>This plate of files in dev.</u>	strong
1	35W	29 15	0-1	8.7	K0	1-1-1		strong
2	06W	27 26	0-1	8.37	K0	1-1-1		strong
1	21W	27 29	0-1	7.4	K0	1-1-1		Extrem
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

Beginning to cloud over
 Probably weak - I miscalculated exposure time also this plate
 2/6

Plate Holder #3 is loaded.
 MC SC MTW STW SW
 July 11 +7.3s +6.4s -5.6s +1.2m +26.5

Dome Temp. 74°F


Focus 12.940

Dome Temp.....

Transparency Conditions Good

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

112

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 38	39 16	1	7.62	G8	1-1-1	Stel. Vel Crosshairs in finder, elem shifted. when star in 14", 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	K2	1-1-1	AG 25 Clouds from N.W.	
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	" " Ray falling in at 01:30.	
						4/6	
						4 this loaded, Ein Elon.	

Date Sun July 13-14, 1952 Observer L. 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. 144679	16 01.5	39 24	I-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	" 189864	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.							

Dome Temp. 75°F

Focus 12.940

Dome Temp. 74°F

Transparency Conditions

Hazy + light clouds, delayed starting

114.

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
1 54 W	39 18	0	7.62	G ₈	1-1-1	Sta. Vel.	fine												
0 13 W	10 52	0	7.9 8.5	A ₀	1-1-1	Ecl. Bin. Plate marked 19241	fine												
0 25 W	25 10	0	8.95	M ₀	1-1-1	A.G. 25	Weak												
1 02 W	27 37	0	8.56	G ₅	1-1-1	" "	fine												
1 12 W	27 04	1	8.23	K ₂	1-1-1	" "	fine												
1 37 W	27 48	0-1	8.76	K ₀	1-1-1	" "	fine												
1 47 W	26 00	0	8.07	G ₅	1-1-1	" "	Strong center cut by violet												
9/6																			
1 Ph loaded, 4 in each main box.																			
<table border="0"> <tr> <td>M.C.</td> <td>56</td> <td>M.T.C.</td> <td>57.6</td> </tr> <tr> <td>July 14</td> <td>+57.2°</td> <td>+58.5°</td> <td>+58.0°</td> </tr> <tr> <td></td> <td></td> <td></td> <td>+0.2 m</td> </tr> </table>							M.C.	56	M.T.C.	57.6	July 14	+57.2°	+58.5°	+58.0°				+0.2 m	
M.C.	56	M.T.C.	57.6																
July 14	+57.2°	+58.5°	+58.0°																
			+0.2 m																

Date Tues July 15-16/52 Observer Hd - Sa ^(Bk) _(Bk) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19297	HD 144579	16 01.5	39 24	I-12	E10320	008	26.0	22 34	22 58	4
19298	^{v45101} HD 170470	18 24.5	+10 49	"	"	"	26.0	23 05	00 55	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. +70 F
 Focus 12.950
 Dome Temp. +64 F

Try focus at
12.950 JFH

Transparency Conditions Fair
clouds earlier

116

Ending Time
 L.S.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 11	+39 17	0	7.62	G8	1-1-1	std vel clouds almost immediately.	
W 0 55	+10 52	0	7.9	A0	1-1-1	Ecl. Bin. clouds.	
W 1 58	+29 51	0	8.9	K2	1-1-1	A.G. 25	
W 1 37	+28 00	0	8.9	G5	1-1-1	"	
W 1 02	+28 39	0	8.7	G5	1-1-1	" light clouds all night.	
W 2 00	+27 23	0	7.4	K0	1-1-1	"	
						4/6 3 ph loaded 8 in Eastman Box	
						July 16	
						HC	
						SC	
						HTW	
						STW	
						SW	
						17.3 ^s	
						+28.9 ^s	
						-28.2 ^s	
						+1 ^m	
						+34.5 ^s	

Dome Temp. +74°F

Focus 12.250

Dome Temp. +80°F

Transparency Conditions *improving*

118

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	52W	27 21	0-1	8.52	K0	1-1-1	AC 25	good
7	43W	24 26	0-1	8.56	K0	1-1-1	" "	weak
2	45W	39 18	2	7.62	G8	1-1-1	std. del.	fine
0	57W	10 53	0-1	7.9 ⁸	A0	1-1-1	Ed. Bin. marked A206	fine
1	15W	28 35	1-2	8.56	K2	1-1-1	AC 25	good
1	03W	27 52	1	8.49	G0	1-1-1	"	fine
1	23W	30 05	1	8.42	K0	1-1-1	"	fine
2	18W	29 45	1-2	8.97	G0	1-1-1	"	fine
2	30W	27 19	1-2	8.59	K0	1-1-1	looks like F8	fine
1	46W	30 05	2	8.05	K2	1-1-1	"	good

4/E

No Pl. located

July 18

HC +6.75
~~234~~ SC +269^S HTW -338^S STW -2^m SW +31^S

119

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 144579	16 ^{01.5}	+39 ²⁹ ⁴	1-12	103a-0	.008	28	11 10	1130	1
19314	AG 9950	19 213	+26 09	"	"	"	28	105	1 17	2
19315	AG 10849	20 020	+28 42	"	"	"	28	125 ⁴⁸	2 13	3
19316	HD 192732	20 113	+29 42	"	"	"	28	216 ⁰⁰	3 00	4
19317	HD 199717	20 539	+28 53	"	"	"	28	305 ⁴⁷	3 47	1
	Focus Test	O.T.B.								

Dome Temp. 75
 Focus 12950
 Dome Temp. 71

Transparency Conditions very good

120

About 200 visitors (and one dog); M + 3 with 7A; later with 3A

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11:30	3:00W	39 17	0	7.67	G8	1-1-1	Std Velocity plate probably went got mag to 8.84 with one below it	OK
1:00	2:28W	+26 1-7	1	8.84	Ko	1-1-1	(11:30 to 1:00 - clouded over) plate probably some lightning	to weak
2:30	1:43W	+28 52	1	8.97	G5	1-1-1	plate probably	OK
3:00	2:21W	+29 53	1	8.83	Ko	1-1-1	(Woopec! 3 minutes to change)	fine
3:30	2:26W	+29 04	1	8.84	Ko	1-1-1	3:20 - beginning to cloud over again 3:40 - fog - very thick - end of 5 th plate	weak
							4/6	fine
							first 3 plates on old emulsion	
							#2 & #3 holders are loaded plate in #3 is clipped	Actual size of chip
							circle light flickers a bit	
							Sun after noon - 30 visitors - Mc mC 82 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.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 37	39 16	0-1	7.62	G8	1-1-1	Std. Vel. Light c. too cloudy in W	strong
0 38	27 25	0-2 dancing	8.58	M3	1-1-1	AG 25 21:40, moon in N, below 3.3 S.E. 2 stars	in good
1 12	28 57	0	2.07	M0	1-1-1	" 21:40, moon in N, below 3.3 S.E. 2 stars clouds in S and W, clear	in good
					4/3	Hayed out	
						One of 3 rubber bags on secondary cap cone sent	
						MC SC MTW STW SW	
						July 23 +5.5° +13° +1.0° -0.2 ^m -5.7°	

1952

Date Wed, Thurs July 23/24 Observer Mc - Rk 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.
19321	HD 113094	12 56.2	+24 51	1-12 $\frac{1}{2}$	F10300	.008	27.2	8 45 ⁴⁶	09 31	2
19322	HD 117555	13 26.0	+24 44	"	"	"	27.1	9 42 ³⁶	10 18	3
19323	HD 136274	15 14.7	+26 09	"	"	"	27.1	10 23 ³⁶	10 59	4
19324	HD 147527	16 17.4	+29 13	"	"	"	27.0	11 04 ⁶⁴	12 08	1
19325	HD 163611	17 51.9	+5 00	"	"	"	26.8	00 13	00 37	4
19326	HD 180605	17 30.5	+29 49	"	"	"	26.8	00 58	01 00	2
19327	HD 173909	18 42.8	+27 23	"	"	"	26.5	02 07	02 52	2
19328	HD 184467	19 29.5	+58 24	"	"	"	26.5	02 33	03 03	1
19329	HD 208155	21 35.1	+8 44	"	"	"	26.5	03 39	03 50	1
19330	HD 200425*	21 58.3	+25 46	"	"	"	26.6	03 59	04 25	2

Focus, feed

* Possible sky light. Ending time by chart 0412.

Dome Temp. 72

Transparency Conditions good

124

Focus 12950

Dome Temp. 62

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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
4	40 W	+24 29	0	8.30	G5	1-1-1	I tried H115013 but no stars appeared.	Too Weak
3	33 W	+25 59	0	8.30	G0	1-1-1		Too Weak
3	38 W	+29 06	0	8.98	G0	1-F/1		Too Weak
2	31 W	+5 00	0	7.8 8.1	F5	1-1-1	Ecl Bin	Too Weak
4	10 W	+29 48	0-1	8.90	M0	1-1-1	AG 25 Trouble with relay in turning the dome	Lt. Weak
3	58 W	+55 25	0	8.63	K0	1-1-1	AG 25	Good
3	43 W	+58 24	0	7.70	K5	1-1-1	Sid vel.	Lt. Strong
2	11 W	+8 56	0	7.75	A0	1-1-1	EE Peg, see Point	Prime
3	15 W	+15 59	0	8.07	G5	1-1-1	AG 25 the star looks faint 4/6 4th looked not a focus test.	Prime

125

Date

July 24/25/52

Observer

BK - Sa

Julian Day

243.425

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19331	HD 113242	12 57.2	+29 32	1-42	E12340	0.008	22.4	20 35	21 45	1
19332	HD 119223 V566 Cph.	13 34.2	+24 45	"	"	"	22.2	21 54	22 51	2
19333	HD 163617	17 51.9	+5 03	"	"	"	22.0	22 35	23 55	1
19334	HD 155989	17 09.9	+26 13	"	"	"	22.2	23 00	00 00	1
19335	HD 184467	19 24.5	+58 24	"	"	"	22.8	00 02	00 20	1
19336	HD 168622	18 15.6	+27 28	"	"	"	22.8	00 45	01 20	2
*19337	HD 183753 14750	19 25.8 ⁹	+28 31 +24 53	"	"	"	22.8	01 29	02 03	3
19338	HD 204388	21 23.1	+27 27	"	"	"	22.8	02 10	03 05	4
19339	{ HD 207379 } Focus Test	21 43.4	+29 16	"	"	"	22.8	03 10	03 48	1
		O.T	B.							

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	8.64	G5	1-1-1	AG	Ex. Weak
0 54 W	+5 00	0-1	7.81	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	4/6	Styting
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 setting AG star taken Seeing constantly changing in	Fine
1 34 W	+27 40	0	8.8	K5	1-1-1	" a range of from 0.2 to 0.4"	Fine
1 51 W	+29 30	1	8.5	K0	1-1-1	"	Fine
						4/6	Hours OK.
						MC SC NW SW SW	
						July 25 +40' +137' -29' -2" -50'	
						3ph. loaded	
						8 in Eastman box.	
						* RA. The rest also working	

Date Fri July 25-26/1932 Observer L-W - Hk Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19340	HD. 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 48.8	27 35	"	"	"	24.2	21 53	22 53	3
19342	" 174764	18 47.1	29 36	"	"	"	24.1	22 58	23 57	4
19343	" 184467	19 29.5	58 24	"	"	"	24.0	00 29	01 25	1
19344	" 166442	17 51.4	45 00	"	"	"	24.0	00 32	01 02	5
19345	HD 168755	15 17.2	46 39	"	"	"	24.1	01 08	01 54	3
19346	HD 129719	14 20.7	29 56	"	"	"	23.9	02 00	02 40	1
19347	HD 101445	16 14.2	45 25	"	"	"	23.9	02 57	03 47	1
	174764	18 47.1	29 36	"	"	"				

Dome Temp. 71°F

Transparency Conditions Good

128

Focus 12.950

Dome Temp. 64°F

Ending Time
M.T. P.E.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4	32 W	29 40	0	8.79	G0	1-1-1	AG 25	Good
5	00 W	27 20	0	8.82	K0	1-1-1	"	Good
6	12 W	29 40	0	8.93	K0	1-1-1	"	Good
7	FL	53 29	1	7.70	K5	1-1-	SD ucl.	Starry
8	00 W	5 20	0	7.81	F5	1-1-1	See. Proc.	Good
9	30 W	26 42	0	8.30	B0	1-1-1	AB 25	Good
10	35 W	29 20	0-1	8.51	K2	1-1-1	"	Good
11	54 W	25 23	0-1	8.78	K5	1-1-1	"	St. Star
							1/8 Now slightly hazy	Good
							1/2 hazy	

129

Date Sat July 26/27/52 Observer Ho - Sa Julian Day 187.5
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 143611 V 555 Cpl	17 51.9	+5 00	I-12	F12720	0.068	25.9	22 16	22 40	2
19349	HD 184467	19 29.5	+58 24	"	"	"	25.9	22 52	23 04	3
19350	HD 184438	19 29.9	+25 26	"	"	"	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 PHSC's (ATM's) M13 ↑ very fine

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

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	47W	$05^{\circ} 00'$	0	$7.8/8.1$	F5	1-1-1	Ecl. binary	fine
00	24E	$58^{\circ} 28'$	0.2	7.7	K5	1-1-1	Std. Velocity	strong
00	18W	$25^{\circ} 44'$	0-1	8.5	K0	1-1-1	AG	fine
00	02W	$26^{\circ} 58'$	0-1	8.84	G5	1-1-1	"	fine
01	34W	25 41	0-1	8.86	K0	1-1-1	"	good
01	48W	27 21	0-1	8.33	K0	1-1-1	"	weak
01	42W	26 09	0	8.56	G0	1-1-1	" preceding of two at 25 very faint	weak
02	40W	27 24	1	7.4	K0	1-1-1	" 4/6	weak

3 ph loaded.

Hin Eastman Box.

Date Sun/Mon. Jul 17/18/52 Observer RK - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19356	HD. 114626	13 06.7	+26 54	I-12	E103-a-0	0.008	28.8	20 56	22 10	2
19357	147597	16 17.4	+20 12	"	"	"	28.8	22 11	23 19	2
19358	V 566 76	17 51.9	+5 00	"	"	"	28.8	22 57	23 47	4
19259	HD. 184467	19 29.5	+58 24	"	"	"	28.2	22 55	0 09	1
19360	H.C. 186223	19 38.2	-16 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	8.70	K0	1-1-1	AB. 25	
3 05 W	29 05	0-1	8.78	90	1-1-1	" civ	
1 57 W	5 00	1	7.8/81	F5	1-1-1	Sec. Plate	
20 44 W	58 29	1-2	7.70	K5	1-1-1	Std. ref.	
01 45 W	27 05	0-1	8.93	K0	1-1-1	AG. 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	

Mull and wood
 980 ax
 plates
 setting
 position
 0328
 0304
 Haze
 Considerable cloud SW
 Clouded out Star-Gone
 3 P.H. + 19 P
 P.H. #4 has Broken Handle.

July 28 MC SC MTW JTW SW
 +40° +27i° -15.8° +1m° -3.75

Sunday afternoon about 20 visitors, @ showed

Date ~~August 30~~ ³¹ ~~July 30~~ ^{August}, 1952
 Observer ~~Carl~~ ^{HL} ~~HL~~ ^{HL} - 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 47112	18 53.1	+ 5 32	"	"	.020	+21.9	23 06	23 26	2
19358	HD 169797	18 21.3	+26 51	"	"	^{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. 190285	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
		<i>Star</i>				<i>0.8</i>				

Dome Temp. +63°F
 Focus..... 12 950
 Dome Temp.....

Transparency Conditions

Quite good
 200 visitors, normal school showed M13 with 74",
 C with 5", L with 4"

134

Dome opening motor failed - opened by hand

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 14W	+5 00	0+	7.8/8.1	F5	1-1-1	Ecl. Bin	Faulty Emulsion ^{plate checked}
0 47W	-5 30	0-1	8.57	G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	PCO Announcement + card July 24/52	probably wrong star for Wash.
1 55W	+26 06	0-1	8.28	K0	1-1-1	A 9 25	Fine
0 235W	26 18	0!!	8.96	G5	1-1-1	" "	guiding! Fine
0 240W	27 59.5	0	8.96	K5	1-1-1	" "	Good
0 16W	26 13	0!	8.61	K2	1-1-1	" "	guiding! Fine
0 232W	28 32	0!	7.54	G5	1-1-1	" "	Fine
					4/3		Focus OK
I.P.H. + 4							
Dome closed without any trouble whatsoever							

Dome Temp. 64°F

Focus 12950

Dome Temp. 58°F

Transparency Conditions *good*

136

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
V 4 52	26 39	0	8.96	K0	1-1-1	AG 25	Lt Wk
V 0 43	5 00	0	7.2 _{8.1}	F5	1-1-1	Ed. Bin	Fine
V 0 33	58 30	1	7.70	K5	1-1-1	Std Vel. number not clear (m.p. 9.3 marked L wk!)	Good
V 2 16	26 29	1	8.96	K2	1-1-1	AG 25	Good
V 1 41	28 36	2	8.49	K2	1-1-1	AG 25 I changed focus slightly.	Fine
V 1 50	29 52	2.5	8.98	K2	1-1-1	R.A. for 1950 is incorrect in book. I set on 19 53.3	Fine
V 2 22	26 22	2	8.90	G0	1-1-1	AG 25 Small fault in emulsion	Fine
V 2 52	29 54	2	8.83	K0	1-1-1	" Guiding.	Fine
V 3 12	27 42	2	8.68	K5	1-1-1	" Faulty emulsion. ^{plate} checked	Fine
V 2 49	25 24	2	8.85	K0	1-1-1	" Focus ok to red	Fine

6 sec - plunger all out
4 sec - plunger half out.

3 plateholders loaded

4 plates in box.

The flashlight needs new batteries

Dome Temp. 64
 Focus 6.50
 Dome Temp. 60°F.

Transparency Conditions good
very hazy around horizon

Ending Time
 P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 42 W	+15° 30		8.7	G5	1-1-1	AG-CE setting 2	fine spot
2 54 W	59 16	0.1	8.9	G0	1-1-1	" setting 2	fine spot
1 54 W	5 00	1	7.9	F5	1-3-3	TCC Plate Cramer Plate	fine
2 35 W	21 32	1	8.58	G0	1-1-1	AR setting 2	fine
2 32 W	+26 12	1	8.72	G5	1-1-1	" setting 8	fine
2 03 W	+58 29	1	7.0	K ₅	3-3-3	Std. Velocity Cramer Plate	fine
3 33 W	+26 58	1/2	8.96	K ₀	1-1-1	AG setting 2 (I changed focus slightly)	fine
3 31 W	+28 05	2	8.82	K ₀	1-1-1	AG setting 8	fine
3 47 W	+26.40	1/2	8.93	G5	1-1-1	AG setting 2	good
						6sec danger all out 300c danger burst out setting 9	fine spot

Clouded over before I set on last star.

3, etc holders loaded with 103 a-0 plates
 1 spotted Cramer plate in Cramer box.

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

Transparency Conditions... *Hazy*

140

Ending Time
 I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
4 40W	+24° 30'	0	8.30	G5	1-1 6-4	AG 25 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	weak										
						<p><i>21.40 - 21.45 Aug 3-1</i></p> <p><i>Haze 10 min I had a good shot</i></p> <p><i>21.45 - 21.50</i></p> <p><i>21.50 - 21.55</i></p>											
						<p>Aug 5</p> <table border="0"> <tr> <td>HC</td> <td>SC</td> <td>MTC</td> <td>STW</td> <td></td> </tr> <tr> <td>+20°</td> <td>-17.4°</td> <td>-3-1.5°</td> <td>-2^m</td> <td>SW 5 +35° 5</td> </tr> </table>	HC	SC	MTC	STW		+20°	-17.4°	-3-1.5°	-2 ^m	SW 5 +35° 5	
HC	SC	MTC	STW														
+20°	-17.4°	-3-1.5°	-2 ^m	SW 5 +35° 5													

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 13.2	+27° 58'	I-12 $\frac{1}{2}$	E1030-0	.018	22.0	20 ^h 37 ^m	21 ^h 37 ^m	2
19384	HD 150567	16 ^h 36.8	+29° 00'	I-12 $\frac{1}{2}$	E1030-0	.018	22.0	21 ^h 45 ^m	22 ^h 55 ^m	2
19385	HD 163611	17 51.9	+5 00	"	Hipeed	"	22.0	23 ^h 07 ^m	23 51	1
19386	HD 196728	20 35.3	+27 44	"	E1030-0	"	22.0	23 54	24 38	2
19387	HD 198198	20 43.6	+29 ¹⁶ (27)	"	"	"	21.8	24 42	1 14	2
19388	HD 200991	20 58.7	+28 35	"	"	"	21.8	1 18	1 50	2
19389	HD 204711	21 25.4	+25 22	"	"	"	21.8	1 54	2 30	2
19390	HD 217567	22 20.2	+28 11	"	"	"	21.8	2 38	3 22	2
19391	HD 216632	22 49.4	+27 29	"	"	"	21.8	3 36	4 02	2

Dome Temp. 68°

Focus 12.950

Dome Temp.

Transparency Conditions *Some haze - haze!*
142

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 11 ^m W	+27° 43'	0-1	8.5	G5	1-1-1	AG 25° <i>slightly poor with</i>	good
2 ^h 56 ^m W	+29° 02'	0-1	8.25	K2	1-1-1	AG 25° <i>slightly poor with</i>	fine
2 36 W	+5° 12'	0-1	7.8	F5	3-3-3	Ed bin <i>light clouds</i>	fine
0 41 W	+27 57	1	8.25	K5	1-1-1	AG setting 2	good
1 09 W	+29 28	1	8.33	K0	1-1-1	AG setting 8 <i>very thin clouds</i>	fine
1 30 W	+28 49	1 1/2	8.37	K0	1-1-1	AG setting 2 <i>cloudy</i>	fine
1 47 W	+25 39	1 1/2	8.77	K2	1-1-1	AG setting 8 <i>clouds</i>	fine
1 41 W	+28 26	1	8.70	K0	1-1-1	AG setting 2 <i>cloudy</i>	fine
1 51 W	+27 47	1	7.77	G0	1-1-1	AG setting 8 <i>cloudy becoming worse</i>	sluggish

2 plate holders loaded with F103a
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 $\frac{1}{2}$	Hiprod	.038	23.8°	20 ^m 49 ^m	21 40	1
19393	HD 184462	19 29.5	+ 58 24	"	"	"	23.4	21 58	22 30	1
19394	HD 171836	18 31.8	+ 47 05	"	10390	"	23.2	22 16	23 02	2
19395	HD 187921	18 42.4	+ 27 12	"	"	"	23.8	23 16	23 46	2
19396	HD 195273	20 25.2	+ 26 36	"	"	"	26.0	23 58	00 21	3
19397	HD 199221	20 20.7	+ 27 42	"	"	"	27.0	00 30	00 54	3
19398	AG 11 970	20 54.2	+ 30 12	"	"	"	27.0	00 57	01 44	3
19399	HD 205627	21 31.5	+ ²⁵ 22 55	"	"	"	27.0	01 50	02 10	4
19400	" 208653	21 52.7	+ 28 21	"	"	"	+27.0	02 23	02 43	1
19401	" 211884	22 15.2	+ 25 13	"	"	"	+27.0	03 17	03 53	1

Dome Temp. 72°F

Focus 12.950

Dome Temp. +63°F

Transparency Conditions

Poor - some haze
not directly overhead

144

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 34 W	4 56	0	7.5	F5	1-1-1	Ed. Bin	very starry (K) and too weak
	58 28	0	7.0	K5	1-1-1	Std. Vel. plate destroyed	very starry
1 17 W	27 07	0	8.5	K50	1-1-1	AG setting 2	very large except not much
0 50 W	27 04	1		K0	1-1-1	AG setting 8	dark note, probably very starry?
0 42 W	26 45	0-1	8.0	K0	1-1-1	AG setting 2	very starry
0 41 W	27 53	2	8.3	G5	1-1-	AG setting 8	seeing excellent
01 32 W	30 28	1	8.3	G0	1-1-1	" " 2	looks fainter than 23 in fine
01 41 W	26 11	1-2	8.56	G0	1-1-1	" " 8	haze quite bad good
02 03 W	28 36	0-2	8.48	K0	1-1-1	" " 2	fine
02 20 W	25 29	0-1	8.68	K2	1-1-1	" " 8	good

Cairns clouds to SE. some slight haze

loaded: Ph #3 with husband

Ph #2-4 with 102 ans

ME SC MTW STW SW
 Aug 8 1.5^s -28.9^s -36.5^s -.2^m +15.5

145

Date Thurs, Fri, Aug 7/8, 1952 Observer Case - 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.F.	Sec. Angle End
19402	HD 163611	17 51.9	+05 00	I-12	Hi-speed	Set 008	+25.0	21 55	22 33	3	
19403	AG 8656	18 01.2	+25 40	"	103a-0	"	+25.0	22 36	23 00	4	
19404	HD 169797	18 21.3	+26 01	"	"	"	+25.0	23 09	23 35	4	
19405	HD 184467	19 29.5	+58 24	"	Hi-speed	"	+24.5	23 39	23 49	1	
19406	AG 10133	19 21.0	+28 52	"	103a-0	"	+24.5	23 52	00 32	2	
19407	HD 187545	19 45.4	+28 21	"	"	"	+24.5	00 35	01 00	2	
19408	HD 186123	20 30.3	+44 30	"	Hi-speed	"	+24.5	01 05	01 12	1	
19409	HD 189753	19 36.5	+26 52	"	103a-0	"	+24.5	01 17	02 05	3	
19410	HD 191898	20 07.1	+25 51	"	"	"	+24.5	02 08	02 38	3	
19411	HD 204921	21 26.7	+27 58	"	"	"	+24.5	03 05	03 43	"	
19412	AG 12707	21 32.3	+29 13	"	"	"	+24.5	03 48	04 30	4	
	Aug 8	Mc +2.0 ^s	Sc +23.2 ^s	MTW -37.5 ^s	STW -.3 ^m	SW +14 ^s					
1952 Aug. 9	N. Me	Cloudy; showed slides and demonstrated telescope. About 80 visitors.									

Dome Temp. +70°F
 Focus 12.950
 Dome Temp. +66°F

Transparency Conditions

146
 Poor sky, clouds SE, S.W.
 + haze

Ending Time
 R.A.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	26W	+05 01	0	7.5/8	F5	1-1-1	Ed. bin	fine
01	50W	+25 43	1	8.40	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	by Bin.	too strong
02	55W	+27 01	1	8.9	K5	1-1-1	AG 25 setting 2	good
03	35W	+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	too weak
03	44W	+29 28	0	8.5	G5	1-1-1	" setting 8.	fine

no focus test
 PH #142 loaded with 11300
 need for 8 plates needed
 Vessels using this light tonight
 50

147

Date Sept 10-11 1922 Observer Qu - Qu Julian Day 1922.255

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	13 26.0	29 40	3-12	103a-c	005	+22.0	20 38	21 23	1
19414	HD 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	"	Hipford	"	+22.0	23 14	23 54	3
19417	" 173367	18 39.8	+28 00	"	103a-c	"	+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	"	Hesford	"	+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-c	"	+21.8	02 00	02 50	2
19422	HD 219654	23 12.4	29 20	"	"	"	+21.8	02 56	03 26	2

June Temp.

Febr.

June Temp.

Sun. Angle
End

ME

July 11 7:13

Dome Temp. +70°F
 Focus 12.950
 Dome Temp. +63°F

Transparency Conditions

Good

148

Ending Time P.M. E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	40W	24 29	0-1	8.39	G5	1-1-1	AG 25 Set 8 Set 2 camera * decomposed & covered	weak
	37 14W	27 06	0	8.28	G0	1-1-1	" " Set 2 poor guiding	good
	32 25W	26 35	0-1	8.43	K0	1-1-1	" " Set 8 22 45 last cam from 11m.	like-dry
	32 59W	05 00	0	7.8/8.1	F5	1-1-1	tel. bin light cloud	good
	3 02W	28 04	0	8.69	K0	1-1-1	AG 25 Set 2	fine
	3 02W	25 15	1	8.54	G0	1-1-1	" " Set 8	fine
	3 09W	58 30	1	7.0	K5	1-1-1	std vel.	good
	2 23W	45 01	1	6.62	A0	1-1-1	tel. bin	fine
	2 44W	30 12	1	8.83	G0	1-1-1	AG 25 Set 2	fine
	2 11 12W	29 37	1	8.70	K5	1-1-1	" " " 8	fine
							clouds at 03:00, heavy cum, 2 Plus loaded (1120) @ 11:20 (last) + camera new box	
							Will SOMEONE GIVE MORTON a FREE COPY of THE SCHEDULE, a GUIDE TO FREE-LONG OBSERVING, AND a NEW ALARM CLOCK!	
Aug 11	MC	SC	MTW	STW	SW			
	+1.3 ^S	-8.1 ^S	-46.3 ^S	-0.4 ^m	+20 ^S			

27 Was the above...
 and a plan...

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
							Temp 72.0	
						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 from slide	

151

Date Wed 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 ✓	L Draconis	15 ^h 22.7	+59° 19' T-25"	"	E-103a-0	0.008	23.8	20 ^h 22 ^m	20 ^h 23 ^m	1
"								20 24	20 26	
"								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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+59° 07'	0	4.47	K ₂ III	6	1st Lun. Set 2	Pl. developed
		0			6		5
2 ^h 14 ^m W		0					8
	+61° 39'	0	3.67	G ₂ III		2nd Lun. Set 2	
					6		5
N 1 33							8
	+52° 21'	0!	3.55	G ₂ II		1st Lun. Set 2	
					6		5
W 0 ^h 44 ^m							8
N 1 58	+10° 54'	0	7.9	A0	6-6-6	Ecl. Bin	
	+53° 16'	1	4.98	K ₀ III		1st Lun. Set 2	2350 Considerable cloud near S.E.
		1			6		5
N 1 33		1					8
	+33 50	0	3.64	K ₀ III		1st Lun. Set 2	
0123 W					6		5
							8
							2 cloud being 3" S.E.

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. 205260	21 27.5	+42 16	I-25"	E ₁₀₃₋₂₀	1008	23.2	01 25	02 11	4
19430 ✓	H.R. 8726 H.D. 216946	22 54.3*	+49 28*	"	E ₁₀₃₋₂₀	"	23.0	03 19	02 30	3
19431 ✓	H.R. 8832 H.D. 219134	23 10.7	+56 53	"	"	"	23.1	02 52	03 18	"
19432 ✓	SErid.	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>Thom</i>	04 11.2	+64 54	"	"	"	23.1	04 23	04 32	
		<i>Test</i>		<i>O.F.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

Ending Time P.M.
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0150W	+42 31	0	7.1	Bshje	6-6-6	Be Prog. ⁰¹⁵⁰ Cloud Gone	fine
0049W	+49 28	0	6.1	KsIb	3-3-3	set 2. * 1950 Positions.	with (good)
0116W	+56 55	0	6.72	K3V	3-3-3	" 8. Trouble setting dec.	dry
	-09 54	0!!!	4.22	KoIV	—	set. 2 (1.75)	with
					6	" 5 (3.5)	good
0228E			5.96		—	" 8 (7.0)	dry
0236E	+65 33	0	5.96	G5III	3-6	<u>1950 positions</u> 2 P.H. Loaded E103-a-0. E103-a-0's Needed.	good
					12/8	Approx. 15 plates in Cramer box.	
						If I have to take that list for ages I think I'll say <u>prohibited</u>	
						Lighting with 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. E. - 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 27 ^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*

156

Focus 15.768

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+36°38'	2	5.94	K0III		Att. Lun. Set 2	good
					6		fine
1 ^h 56 ^m W							strong
	+37°18'	2	4.99	K1II		Att. Lun. Set 2	weak
					6		good
0 ^h 28 ^m W							fine
1 ^h 30 ^m W	+5°03'	2	7.8/1	F5	6-6-6	Ecl. Bin.	too weak
	+4°24'	2	4.8	B5ne	18	Be stars Set 1	too weak
					18		very faint
1 ^h 52 ^m W					18		fine
29 ^m W	+10°55'	2	7.9	A0	6-6-6	Ecl. Bin.	very faint
0 ^h 52 ^m W	+45°01'	2	6.62	A0	6-6-6	Sp. Bin.	very faint
	+26 17	2	5.9	B5ne	18-	Be stars Set 1.	very faint
					18	Set 5	too faint
1 42W						Set 8	very faint

Cont'd

Date Wed. June Aug. 12-14/52 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	Hug. rec	1008	23.9	24 48	00 02	3
19442	HD 194309	20 12.9	32 04	"	"	"	"	01 06	00 22	4
19443	possibly HD 194317	20 19.9	+31 52	"	"	"		01 31	01 30	1
	HD 194335	20 20.0	37 10					01 36	01 42	
19444 19444	HD 198193	20 43.5	36 07	"	"	"	23.9	02 02	02 02	2
								02 04	02 05	
								02 07	02 09	
19445	HD 205060	21 07.5	42 16	"	"	"	23.9	02 16	02 40	3
19446	S Egg	21 08.7	29 49	"	"	"	23.9	02 46	02 46	4
19447	9 Pegs	21 39.2	16 34	"	"	"	23.9	03 01	03 02	1
								03 04	03 07	
								03 08	03 14	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions *Good.*

158

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 02W	36 13	2	7.1	B _{me}	6-66	Be *	fine
2 21W	32 10	1-2	7.0	B _{me} ^{11e}	6-66	Be *	sharp guiding
2 43W	37 05	2	5.7	B _{me} ^{K2}	18	Be *	1m Set 1 } sparse to barely Set 5 } Set 9 } wrong star
					18		sharp guiding
					18		sharp guiding
	36 16	2	4.5	B ₆₁	18	Be *	sharp guiding
					18	Set 5	sharp guiding
					18	Set 9	sharp guiding
2 23W	42 31	1-2	7.1	B _{81a}	6-66	Be *	plate number 19446
2 56W	30 04	2	4.7	68II	6	Halliday	Set 1 plate number 19447
						5	sharp guiding
						2	sharp guiding
2 48W		2	5.3	6516	6	Halliday	Set 2
							Set 5
							Set 8
							sharp

next page

continued

Date *Wed. Thrus Aug 13-14/100* 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.H.
⁸ 17447	HD 217543	22 56	38 10	125	Hypod	1008	23.9	03 21	03 30	2
17447	HD 224259	23 53.8	45 52	"	"	"	"	03 36	03 44	3
17450	possibly HD 71 HD 225095	00 00.5 23 58.3	+55 09 55 00	"	"	"	23.9	03 55	04 30	4
	Focus Test		O.T. 13							

Dome Temp.....

Transparency Conditions

Good

160

Focus.....

Dome Temp..... *65° F*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 42W	38 57	1-2	6.4	Bore	6-6-6	<i>B + 4H</i>	<i>fine</i>
1 02W	43 29	2	6.5	Bore	6-6-6	<i>03:10 heavy cirrus N.W.</i>	<i>very poor guiding</i>
1 44W	55 18	0-1	7.6	^{Ko} Bore	6-6-6	<i>wrong star</i> <i>clouds bothering this one</i>	<i>too much</i>
						<i>12/8 Heavy clouds moving in from</i> <i>N and W.</i>	<i>not so good</i>
<i>Holder # 192 loaded with L. some</i> <i>liquids - New box needed.</i>							
<i>We will busy.</i>							

Date Thurs. - Fri. Aug. 14-15/52 Observer We - H. v 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.
19451	Z Herculis	17 ^h 53. ^m 6	+15° 09'	4-25"	Hi-Speed	0.008	24.8	20 ^h 38 ^m	22 ^h 08 ^m	1
19452	V 451 Oph.	18 ^h 24. ^m 5	+10° 49'	"	"	"	24.8	22 ^h 15 ^m	23 ^h 25 ^m	
19453	MWC HD 200725	21 ^h 00. ^m 4	+67° 47'	"	"	"	24.8	23 ^h 39 ^m	sid. Time 21 36	3
	"	"	"	"	"	"	25.0	sid. Time 21 37	22 57	3
19454	H.D. 223551	23 45.0	61 39	"	"	"	24.9	23 11	23 45	4
19455	H.D. 12302	01 55.6	59.12	"	"	"	25.0	23 59	01 23	1
	Focus feet			O.S.B.						

Dome Temp. 73°F

Focus 15,783

Dome Temp.

Transparency Conditions *Very dry*

162

-2359 ^{Standard Time} = 2116 ^{sid. Time}

Ending Time P.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 29 ^m W	+15° 10'	1	8.0	F2	6-6-6	<i>watch</i> sidereal clock stopped. (stem pushed)	OK
2 ^h 15 ^m W	+10° 53'	1	7.9	A	6-6-6	Ecl. Bin	OK
00 35 W	+68° 00'	0	(7.2)	B5V	6-6-6	Be star (and central star in NBC 7023)	Good
01 56 W	+63 00	0	"	"	6-6-6	set 8	Good
00 03 E	+61 59	1-2*	8.2	B3e	6-6-6	* 1/2" Be P. <i>Exposure time increased. Much too bright for previous</i>	fine
00 37 E	-59 27	1-2	8.2	B3e	6-6-6	" " "	fine
					12/8		
<p>2 ph. backed with Crumors 18 Crumors in box</p> <p>I think we need a new panel in a microscope to find the</p>							
						<p>MC SC H1W 57W 82</p> <p>Aug 15 00^h 5^m +12 5^m 12:00 12:00</p>	

163

Showed 50 visions (and Saxton's better half)
 E Lyrae and ring nebula with 74"
 M. 31 with 4"

Date Sat Sun ~~July~~ ^{Aug.} 16-17/52 Observer ^{Ha} ~~Mo~~ ^{BL} - Mo 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.
19456	K Cygni	19 14.8	53 11	1-25	103a-0	.008	22.2	22 13 09	22 13.39	1
								28 18	22 19	
								22 21	22 24	
19457	B Aquil	19 50.4	06 09	"	"	"	22.2	22 34	22 36	4
								22 37	22 44	

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

Transparency Conditions ~~Few occasions when sky not cloudy~~

Ending Time
 EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	53.20	2"	4.98	Ko III		setting 2	too red
					6	" 5	← too red
0 32 W						" 8 (ambiguously)	too red
	06 20	2	4.90	G8IV		setting 2	fine
0 15 W					6	setting 5 too cloudy - to take 3rd	too red
01:15 E.D.T. - sky completely clouded over only 1st mag stars can be seen							
02:30 E.D.T. even worse - NUTS! Good Night!							
<p>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-C plates " #2 & #3 " " " hi speed plates</p>							

Date ~~Sun July~~ ^{Aug.} 17-18 1952 Observer L. Cr - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	SH5	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
19458	β Aps	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	κ 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
						OT 13				

Dome Temp. +66.0 F
 Focus 15.754
 Dome Temp.

Transparency Conditions Good at first then haze 166
 then clouds.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1	3.81	G8 III		Set 1 numbered 18458	good
					9	Set 5	poor
1 59 W	21 36					Set 9	poor
		1	4.42	K ₂ II		Set 1 numbered 18459	good
					9	Set 5 n. poor guiding	poor
1 59 W	9 28					Set 9 Three	poor
2 24 W	10 53	0-1	7.9	A0	6-6-6 18/12	Eclipsing binary haze last half <u>c.d. 18/12</u>	good
						P.H. 3 loaded with cranes.	

Date Mon.-Tues. Aug. 18-19, 1952 Observer Wp - 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.	Star Angle and	D
19461	HD 168957	18 ^h 17. ^m 3	+25° 01'	It 25"	High-Speed	0.008	21.9	20 ^m 17 ^m	20 ^m 45 ^m	3	3E-2	
19462	z Herculis	17 ^h 53.6	+15° 09'	"	"	"	21.9	20 ^m 52 ^m	22 ^m 22 ^m	4	5E-10	
19463	M.W.C. 312 HD 180378	19 ^h 11. ^m 3	+12° 55'	"	"	"	21.9	22 ^m 29 ^m	23 ^m 29 ^m	1	4E-4	
19464	M.W.C. HD 200225	21 ^h 03. ^m 4	+67° 47'	"	"	"	21.9	23 ^m 40 ^m	00 40	2	1W-4	
19465	M.W.C. 346 H.D. 195407	20 26.0	+36 39	"	"	"	22.0	00 49	01 53	3	3E-10	
	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	5E-7	
19467	M.W.C. 10 H.D. 6313	00 59.4	65 26	"	"	"	22.0	03 49	04 24	1	1W-4	
	Hercules Field.				O.T.P.							

Dome Temp. 67°F
 Focus 15.729
 Dome Temp.

Transparency Conditions *Hazy with few scattered clouds*
 21°30' E ST.

168

0.01 LESS than tabulated.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
0003	0 ⁿ 03 ^m E	+25° 04'	1	Bse	6.9	6-6-6	Be star. Only bright star in field.	good												
0005	1 ⁿ 58 ^m W	+15° 11'	1-	F2	8.0	6-6-6	2nd. line. (Raylow)	good												
0007	1 48	+13° 03'	1	B(B)se	7.7	6-6-6	Be star. Finder field checks exactly with data.	good												
0009	0111 W	+67° 59'	1	B5nc	(7.2)	6-6-6	Be star and central star of NGC 7023	fine												
0013	0258 W	+46 51	0	B3e	7.7	6-6-6	Be prog.	good												
0015	0013 E	+63 06	0-1*	cB(5)e	7.5	6-6-6	Be prog. Same large & ground small.	good												
0017	0054 W	+65 43	0-1*	Bsep	7.1	6-6-6	" " * NOT constant.	fine												
						12/8	focus good.													
							2 P.H. loaded Crames's.													
							10 Crames's in Box.													
							<table border="0"> <tr> <td></td> <td>nc</td> <td>sc</td> <td>M+W</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> <td>—</td> </tr> </table>		nc	sc	M+W	STW	SCW	Aug 19	-0.5 ^s	+31.9 ^s	+3.0 ^s	+1.4 ^m	—	
	nc	sc	M+W	STW	SCW															
Aug 19	-0.5 ^s	+31.9 ^s	+3.0 ^s	+1.4 ^m	—															

Date *Wed Aug 19-20 1955* 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.
17468	HD 191133	20 303	+41 50	D-25	H Speed	100E	24.5	21 10	21 42	1
17469	2 Spil	19 41.5	+10 22	"	10300	"	"	21 49.5	21 50.0	4
								21 50.3	21 51.3	1
								21 51.7	21 52.7	
17470	E. P. a	19 48.5	+70 21	"	"	"	"	22 21	22 21	8
								22 22	22 22	
								22 26	22 31	
17471	5 Egg	21 00.7	-29 49	"	"	"	"	22 49	22 49	41
								22 50	22 50	
								22 51	22 52	
17472	9 Regs	20 37.8	16 54	"	"	"	24.0	22 13	22 14	1
								22 15	22 15	
								22 16	22 17	
17473	HR 8726 HD 216946	22 52.1	49° 12'	"	"	"	"	22 34	22 35	2
								22 35	22 36	
								22 37	22 38	
								22 39	22 40	

Dome Temp. 32

Focus 15760

Dome Temp.

Transparency Conditions

Clear, light cloud

170

cloudy, cloudy at sunset

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		45 01	0	662	Ar	6-6-6	Mounting and focus not steady, sp. binary	fine
00	145	+10 09	0-1	387	W3II?	11	set (Year)	wh
			0-1			10	set	wh
			0-1				set	wh
00	18N	+70 28	0-1	491	W3II?		set	wh
			0-1			10	set	wh
			0-1				set	wh
00	42E	+13 00	2	440	W3II?		set	good, wh
						10	set	wh
							set	wh
00	4E	+17 10	2	500	W3II?		set	wh
						10	set	wh
							set	wh
01	3E	+48 29	2	610	W3II?		set	wh
						10	set	wh
							set	wh

171

Date June 11, 1952 Observer S. - M. C. Julian Day 171

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	RW Cep	22 19.4	5 20	"	113aD	"	23.8	00 02	00 54	2
19475	54 Pisc	0 39.2	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 14	
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 79F?	Focus Test	O.T.B.			Hi Speed					

Dome Temp. 66°F

Transparency Conditions Good

172

Focus 15.760

Dome Temp. 63°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
09 1/2 W	+55 46	2	8.91	682a	3-3-3	Star is very orange Should have a field! mis calculated time	setting 2 ok
1 42 E	+21 01	2	7.08	KoV	3-3	star is white - probably weak	setting 8 ok
	+42 29	3	5.60	G2V		setting 2	ok
					6	" 5	ok
1 48 E						" 8	ok
1 17 E	+70 44	2	8.0	B4ne	3-3-3	setting 2	ok
	+23 14	3	3.30	K2 III		" 2	ok
					6	" 5	ok
0 23 E						" 8	ok
0 49 E	+48 32	2 1/2	7.9	Bne	3-3-3	" 8	ok
					10-7		ok

No good
Tried to set on MWC 29
but field does not check.

No good

174-1
175
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Aug 21
 NC S SE HTW STW
 -1.0 +10.8 +102.0 +.3

3 ph loaded with 103 a 0

Sometime around 3:30 EST one of the mirror fell short. This I did not find out until I went to close them. Thus the last two exposures may be slightly waste

sectors

all right

173

Date Thu Fri Aug 21/22 1952 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	Ed 008		20 04	20 05:30	L
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	^{HD} MWC 320	19 41.3	5 44	"	"	"	24.8	20 52	22 22	2
19483	^{MWC 347} HD 195572	20 27.2	43 59	"	Hi-Speed	"	24.2	22 29	22 51	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 360} 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 *fairy, clouds low in 3.5*

174

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	2 31	0-1	5.07	K0 V	0	Set 2	Best of usual double	wh
		0-1			6	5		fine
0 01		0-1			0	8	Temp rising in spectrograph since thermometer set.	strong
	51 31		3.60	K5 III	0	Set 2		fine
					6	5		l str
0 25		0-1			0	8		strong
0 22	5 54	0-1	8.5	B5 ne	3-3-3	Be		fine
0 15	44 10	1	7.2	B1 se	6-6-6	Be		good
			4.40	G8 J	0	Set 0	20 sec.	wh
					0	2	40 sec	wh
					0	4	70 sec,	good
					0	6	150 sec,	l str.
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 at	strong wh
		1	5.2	B3 ne	9-9	Set 1		wh
0 40	45 59	1-2			9-9	5	Seeing very very difficult due to high wind. Wind rising but quality	fine

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp... 64°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
			5.3	GST6	0	Set 2	l wk										
		0-1			9	5	fine										
00 32	17 05				0	8	l str.										
						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>HXU</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	HXU	STW	Aug 22	-1.0 ^s	+4.3 ^s	+0.5 ^s	+2 ^m	
	HC	SC	HXU	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
E.S.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
033E	+0459	0!	^{7.8} 8.1	F ₅	3-3-3	Ecl. Bin. " 8.	good
237W	+1813	0-1	6.9	B ₉ sex	6-6-6	Be. Proj. <i>Very poor guiding</i>	weak
017W	+55 17	1½	7.6	B ₁ e	6-6-6	" " <i>Declination setting motion stopped working. OK 4/10/88. Poor guiding fine</i>	fine
008E	+48 01	2	4.7	B ₄ ne	6-6-6	Setting 2- Be proj.	fine str.
004W					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.
014W					6-6-6	" 8	too str.
025E	+70 44	2-3	8.0	B ₄ ne	6-6-6		fine
046E	+62 12	3	6.5	B ₂ e	6-6-6	<i>Poor guiding</i>	fine
					20-14		str.

Plate Holder #4 loaded with 10340

179

Showed ? visitors crescent moon and
M31 with 4" and e Lyraf
with 74" Seeing very poor so
but that two components only rarely
looked elongated — never double (each).

Date Sat. - Sun. Aug. 23-24, 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.E.
19494	V451 Obj	18 ^m 24.5	+10° 49'	I-25"	Hi-Speed	0.008	18.9	22 ^h 32 ^m	00 54	1
19495	HD 217050	22 52.7	+48 09	"	"	"	18.2	01 14	01 19	2
19496	HD 209296	21 57.2	+56 14	"	"	"	18.8	01 50	03 50	3
19497	HD 21650	03 24.6	+41 25	"	"	"	18.8	04 09	04 51	1
	Focus test		O.T.B.							

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

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+10°53'	0 → 0.1	7.9	A0	6-6-6	19 30 LST = 22 45 EST EST 2" slow down both sidereal watches stopped. throughout they were simply run down. Cal. dir. <i>dir. sidereal watch 5" slow.</i>	good
0 17 W	+48 25	1	5.2	Bsme	6-6-6	(Focus set) Be was out.	fine
3 44 W	+56 30	0	8.1	Bsme	6-6-6	Loaded plates - spots seen - real focus slightly poor guiding.	fine
0 55 E	+41 35	0	7.2	Bsme	6-6-6 10/7	04 30 light current & haze blowing W → E. <i>center slightly toward but still right</i>	fine

P.H. #2 loaded He Speed
 H H " 103a 0

	He	sc	MTW	STW	SW
Aug 25	-1.0 ^s	+57.2 ^s	+10.0 ^s	+1.1 ^m	-3 ^s

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 MWC 310	17 53.6	+15 09	"	"	"	+26.0	20 32	21 46	2
19508	HD 177648	19 00.5	+23 11	"	"	"	+26.0	21 55	22 21	4
19509	MWC 343 HD 194335	20 20.0	+37 10	"	"	"	+26.0	22 36 ^{3'15"}	22 40	1
								22 49 ^{6'30"}	22 51	29W
								22 55 ^{13'00"}	23 08	40W
19510	MWC 353 HD 198478	20 45.5	+45 45	"	"	"	+26.0	23 26 ^{1'15"}	23 28	41W + 6
								23 33 ^{2'30"}	23 36	49W
								23 40 ^{4'00"}	23 45	58W
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	25W
								00 20 ^{12"}	00 32 ^{1/2}	35W
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
 Date Temp 5.792
 Date Temp

Star Angle
 End
 Dec
 30E-5
 50W-19
 5W-2
 10W+3
 29W
 40W
 41W+6
 49W
 58W
 18W+6
 25W
 35W
 35

ome Temp. 76

ocus. 15.79.2

ome Temp.

Transparency Conditions Few clouds, Hazy in west

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 2	1 18 W	+23 15	1	6.9	B ₃ e	6-6-6	Be	Too guiding l. wh
23 43	0 18 W	+37 20	2	5.7	B ₃ ne	6-6-6	Be Set 2	l. wh
23 5	0 29 W					6-6-6	" " 5	fine
23 27	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	l. wh
23 34	0 49 W					6-6-6	" " 5	l. wh
23 4	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	Too guiding l. wh
00 14	0 25 W					6-6-6	" " 5	Too guiding fine
00 32	0 38 W					6-6-6	" " 8	Too guiding l. wh
00 34	-		1-2	3.64	KO III	0	Std. Lum. Set 1	Too guiding fine
						0		2 sec
						0		3 40 sec.
						0		5 60 sec.
1 03	33 50					9		8 120 "

Date Aug. 25/26, 1952 (contd) Observer -Ha (contd) 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.
19513	RW Cep	22 19.4	55 28	I-25	E103-a-2	slit .008	25.9 °C	00 56	2 206	3
19514	NR 8726 HD 216946	22 52.1	49 12	"	"	"	25.8	2 10	2 16	4
								2 16	2 28	1 34
19515	NR 483 HD 10307	1 35.7	42 07	"	"	"		2 36	2 37	1
								2 38	2 39.40	42
								2 40.31	2 43.10	
							25.8	2 45	2 50	10 49
19516	54 Pisc	0 34.2	20 43	"	"	"		2 55	3 03	2
							25.8	3 03	3 19	10 43
19517	T Ceti	1 37.4	-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	10 03-
19518	x 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 07	4 12 08	

Transparency Conditions *very good*

Dome Temp.....

Focus.....

Dome Temp.....

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
W 1 45	55 46	2	8.41	G8Ia	3-3-3	Set Sun. Field as for 19474, * very orange	wh	
	49 29	2	6.10	K5Ib	0	" " Set 3	wh	
W 1 34		2			8	Set 7	good	
	42 24	2	5.60	G2V	0	" " Set 1	l wh	
					0		3	good
					0		5	fine
0 49		2			8		8	etc
	21 00	3	7.08	K0V	0	" " Set 3	good	
0 43		2-3			9		7	fine
		0	4.65	G8V	0	" " Set 1	Image is a spectrum	good
		0			0		3	fine
		0			0		5	long
V 0 03	-16 10	0			9		8	white
		1-2	3.30	K2 III	0	" " Set 1	5 sec	good
					0		2 1/2	10 sec
					0		4	20 "
					0		5 1/2	30 "
V 0 08	2 3 15	1-2			0		7 1/2	150 "

Home Temp.....

ocus.....

Home Temp.....

Exposure Time M.Y.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
57				4.93	K3Ib	0	See Lum. Set 1	wb
30						0		good
13						0		fine
40	5 0 07	55 42	2			9		fine str
							PHE2 loaded with Hi-Speed plate	

Dome Temp. +79°

Focus 15.832

Dome Temp.....

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

190

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
147 W	1509	0-1*	8.0	F ₂	3-3-3	*Variable / Ecl. Bin. Baylow. Set. 2	good
35 W	+1053	0	7.9	A ₀	3-3-3	Ecl. Bin. " P.	ok with
0103 W	6800	0-1	(7.2)	B _{3ne}	6-6-6	Be. going idling	fine
0156 W	4503	1	6.62	A ₀	6-6-6	Sp. Bin.	fine
0138 W	61 42	1	6.6	B _{3ne}	6-6-6	Be. "	fine
0038 E	46 10	1	6.5	B _{3ne}	6-6-6	Be. "	fine
0508 W	28 22	0-1	8.89	K ₂	6-6	AG 0400 clouds west. 04 19 - power skipped for about 1 sec.	excellent c. to me

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

Aug. 27	MC	SC	MTW	STW	SW
	-0.5	+66.8	+14.0	-0.1	+13.5

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	ζ Herculis	17 ^h 53 ^m .6	+15° 09'	I-25	E 10320	0.008	29.4	19 ^h 57 ^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 41	"	"	"	"	04 40 ^{9.00}	04 41.5	2
	"	"	"	"	"	"	"	04 42 ³⁰	04 45	"
	"	"	"	"	"	"	"	04 46 ⁶⁰	04 52	"

Dome Temp. 79°F

Focus 15.851

Dome Temp. 69°F

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

192

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 30 ^m W	+15° 10'	0	8.0	F2	5-3-3	Ecl. bin. set 2	good
2 ^h 56 ^m W	+10° 51'	0.4	7.9	A0	3-3-3	Ecl. bin. set 8	good
0 ^h 11 ^m E	+45° 30'	1	7.3	G5	6-6-6	Sp. bin. set 2	<i>slightly poor guiding</i> <i>intentionally strong</i> fine
	+55 18	1	^{mv. vis.} 7.3	F2	6-6-6	Hosack Ha Set 5	ok
02 17 W	"	1	"	"	6-6-6	" Set 8	Exposure short about 1/2
	"	1	"	"	6-6-6	" Set 1	6-10 min each <i>poor guiding</i>
	"	1	"	"	6-6-6	" Set 5	<i>poor guiding</i>
03 38 W	"	1	"	"	6-6-6	" Set 8	per instructions <i>poor guiding</i> (because necessary to keep off. shot - paid ~2")
	"	1	"	"	6-6-6	" Set 1	<i>poor guiding</i>
04 29 W	"	1-2	"	"	6-6-6	" Set 5	too ok
04 32 W	+45 30°	1	7.3	G5	6-6-6	Sp. Bin recommended intentionally strong	<i>2x start time</i> <i>poor guiding</i> fine
	+32 56	1-2	4.6	F5	18		<i>poor guiding</i>
					6-6-6		<i>poor guiding</i>
04 53 W					6-6-6	this irregularly very weak - one H. of a time	<i>poor guiding</i> ok
						trying to keep it still	ok

193

Date Thurs. - Fri. Aug. 28-29, 1952 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.I.
19535	32 Cygni	20 ^h 12.4 ^m	+47° 24'	I-25"	Hi-Speed	0.008	29.5	20 ^h 06 ^m	20 ^h 36 ^m	1
								20 ^h 37 ^m	21 ^h 07 ^m	
							29.5	21 ^h 08 ^m	21 ^h 58 ^m	

Date Temp 77
 Precip. 5.85
 Date Temp
 Precip. Angle
 End
 77
 55E
 55E

Dome Temp. 78°
 Focus 15.851
 Dome Temp.

Transparency Conditions cloudy

194

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

Holder 2 contains camera film

Ho, Mo, Gu

	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	+12 ^s	-1 ^m	-23 ^s

Sat Aug 30th / 52 - Showed visitors @ Lyrae motel collection
 jumped out by 4^h - Perry up - showed Vega used exposure net.

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

Date Thurs 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.
_____	E Lygn	20 ^h 44 ^m	33° 36'			.008	20.3	21 ^h 45 ^m		
Exposure meter tests	S Lygn.	21 10.8	30 01			"	"	22 15		
_____	9 Peg	21 42.2	17 08			"	20.1	22 35		
_____	HR 8926 HD 216946	22 54.3	44 28			"	20.0	23 00		
_____	HD 213025	22 25.8	26 46			"	"	23 15		
_____	HD 213178	22 26.8	28 47			"	"	23 30		

Dome Temp.....

Transparency Conditions *Poor*.....

Focus.....

Clouds, - pretty well cleared by 21h15^m

Dome Temp.....

Ending Time
R.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 (^{log} 2.13)	
	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 (0.41)	
	26 59	00	7.27	K ₀		12 (0.08)	
	29 00	00	8.58	K ₀		1 1/2 (¹⁰¹⁹ probably affected by light cloud)	
						<i>Closed in.</i>	
						<i>Wed Sept. 3. Re collimated the telescope in daylight with the aid of Wm. and R.</i>	
						<i>L.</i>	

197

Date Wed Sept 3-4 1952 Observer L - Pks 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	31 Cyg	20 12.4	47 24	"	Hi-Speed	"	18.2	01 22	01 53	1
01 26								01 52		
01 29								01 33		
19541	M.W.C. 79 HD 44650	02 49.2	44 22	"	Hi-Speed	"	18.2	01 57	02 15	2
19542	M.W.C. 82	04 05.7	41 53	"	"	"	18.2	02 59	04 05	3
	M.W.C. 82	04 37.3	40 26	"	"	"				

Dome Temp. + 62°F
 Focus.....15.688.....
 Dome Temp. + 57°F

Transparency Conditions Good

Clouds earlier in the evening.

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

Ending Time
 EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 37 W	15 08	0-1	8.0	F2	3-3-3	Binary	fine
2 35 W	23 14	0	6.9	B3e	6-6-6	Be prog.	good
1 33 W	45 01	0	6.62	A0	3-3-3	Binary	fine str
1 22 W	55 45	0-1	8.41	G8	3-3-3	Std. sum.	dark
	47 35	1	4.16	K5+A	6-6-6	Binary	dark
					6-6-6		poor guiding two h
3 ^h 54 W	44 47				6-6-6		dark
2 03 E	48 47	0	7.2	B3e	6-6-6	Be prog.	good
1 10 E	41 53	0-1	7.2	B3e	6-6-6		dark
				B1	4-4-4	impossible to see the star at focus. no focused. Pl. 4.1.2 loaded with dir-spec if	

Tuesd / Fri
 Date Sept. 4/5, 1954 Observer BK - 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.F.
19542	MWC 350	20 34.0	-2 46	I-25	Hi Speed	008	22.2	20 19	20 23	4
19544	Z Her	17 53.6	15 29	"	E-103a0	"	22.0	20 53	21 13	3
19545	RW Cyg 1	22 19.4	55 28	"	"	"	22.0	22 36	1 10	4
19546	E Cygni	20 42.2	+33 36	"	"	"	+22.0	1 23	1 23	3
								1 25	1 26	
								1 27	1 28	
								1 51	2 51	4
19547	HD 30353 MWC 83	04 41.8	+43 06	"	"	"	+22.0	3 06	4 16	3
19548*	HD 26906 MWC 93	04 10.1	+45 58	"	"	"	+22.0	4 25	4 51	4
19549	HD 31293	04 49.4	+30 24	"	"	"	+22.0			
	Focus TEST	OTB.								

* Wrong star. This is south component; we need north one.

Dome Temp. -55°
 Focus 15.722
 Dome Temp. $+60^{\circ}$

Transparency Conditions *good*

200

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 15E	-2 26	1-2	8.3	B9-2	6-6-6		fine
3 09W	+15 00	1-0	8.0	F2	3-2		str
1 27W	+55 45	1-2	8.4	G2	2-3	not so in focus	good
	+33 48	2	3.64	Ko III		set 1	str
					9	2	str
3 23W						3	too str
1 16E	+43 13	1-2	8.3	Gop	3-3-3	Bidelman's Star	fine
1 18E	+46 07	1	8.6	B9me	3-3-3	Be	too str
1 22E	+30 28	1 1/2	7.5	Aoep	3-3-3	Be	fine
					10-7		all right

plate holders #1 & #2 - Hi Speed
 plate holder #3 - 103a.0
 MC SC MTR SW SW
 apex -1.5^S $+46.6^S$ $+13.5^S$ $+1.5^m$ $+20^S$

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 from 15.732
Silt 23.15 12 1/2" is from 12.920
Silt. 20.30

Ending Time
EST.

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	looks like earlier sp type remaining south of star clouds 21 45	ok
27 3 2 51 W	+25 15	1/2	8.42	Mo	1-1-1	"	ok
23 53 2 05 W	+45 02	1/2	6.6	A0	1-1-1	Sp. bin Realized too late that I was to use a Hi-Speed plate here.	fine
11 2 19 W	25 26	0	8.23	K5	1-1-1	AG	good
12 3 20 W	27 24	0	8.89	K5	1-1-1	"	good
0 03 W	-00 40	0	7.5	K0	1-1-1	Std. velso. Com. to 20.30	fine
1 12 W	61 00	0	7.86	A0	1-1-1	Kapf Area W. 10.30 Late B - sp field check all right	fine
1 23 W	25 48	0	8.33	G5	1-1-1	A3 25	fine
0 46 W	16 27	0	7.9	A0	1-1-1	Kapf Area 1/6 at 10; at at 8 mistake W 1, 2 loaded with Hi-speed plate	fine

Sept 8 Mc SC MW STW SW
 -1.7^s +57.5^s +10.3^s +.4^m -11^s

Date Sun/Mon. Sept. 7/8 Observer BK - 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.
19559	HD 156562	17 13.2	+ 25 08	I-12	E103-a-0	net 0.008	17.8	19 56	21 10	
19560	HD 172211	18 34.4	+ 25 12	"	"	"	18.0	21 18	22 16	
19561	HD 185151	19 22.6	+ 27 29	"	"	"	17.9	22 23	23 12	
19562	HD 193482	20 15.4	+ 27 06	"	"	"	17.9	23 19	0 05	
19563	HD 205626	21 31.5	+ 25 55	"	"	"	17.5	00 12	0 107	
19564	H.D. 205627	21 31.5	25 55	"	"	"	17.5	0 111	0 201	
19565	H.D. 3765	00 35.3	39 40	"	"	"	17.4	0 208	0 250	
19566	A.G. 710	01 08.5	25 45	"	"	"	17.4	0 303	0 459	
	<i>Focus</i>		<i>Test</i>		<i>O.T.B.</i>					

Dome Temp. 55°F

Transparency Conditions

variable - cool

204

ocus 12920

Dome Temp. 50°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 45W	25 04	0	8.91	G5	1-1-1	A.G. 25	fine
2 30W	28 15	0-1	8.91	K0	1-1-1	"	fine
2 29W	27 45	0	8.54	K0	1-1-1	" comp. overexp., suspect flare C ₂ H emission	fine
2 32W	27 15	0	8.57	G5	1-1-1	"	too str
2 224W	26 09	0-1	8.56	G0	1-1-1	A.G. Preceding	fine
2 315W	26 09	0	8.56	G0	1-1-1	" Following	l. w. b.
2 104W	39 56	0	8.52	K5	1-1-1	Std. Vel.	str.
2 240W	26 00	0	8.99	K0	1-1-1	A.G.	l. w. b.
				4/3			abright
						P.H. # 142 Loaded: Hi-Speed	
						" # 344 " E103a-2	
						8 E103a-0 in Box	
						P hi-Speed	

Dome Temp. 63°F.
 Focus 12,920
 Dome Temp. +56°F

Transparency Conditions *Very hazy with scattered ci clouds*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 17 ^m W	+25° 56'	0	7.8	M8	1 ^s -1 ^s -0	AG 25°-30° <i>Bottom of star in lane entry in front of things of 20" to 30"</i>	ok
2 ^h 38 ^m W	+4° 59'	0-1	7.8/8.1	F5	1 ^s -1 ^s -1 ^s	Ecl. bin <i>Comp. shows some bars 3-3-3. Very slight flexure. Slightly poor guiding</i>	ok
4 ^h 48 ^m W	+24° 55'	10	8.85	K5	1-1-1	AG 25°-30° <i>Clouded over at 22 50</i>	ok
0 09 E	+30° 14'	1	8.2	K0	1-1-1	<i>Considerable cloudiness, wrong step</i> Kapteyn star No 67. <i>spectrum must be taken of field of stars</i>	ok
0 27 W	+14 48	1	7.61	A2	1-1-1	Kapteyn # 91	ok
0 59 W	+62 10	1	7.6	A0	1-1-1	" # 19 <i>slightly poor guiding</i>	ok
1 17 W	+44 14	1+	8.0	A0	1-1-1	" # 43 <i>slightly cloudy spectrum AS on E</i>	ok
1 30 W	-00 40	1 1/2	7.5	K0	1-1-1	std. vel. <i>slightly cloudy spots spoiled</i>	ok
1 35 E	+46 52	2	7.9	F0	1-1-1	Kapteyn # 22	ok
1 44 E	+59 39	2	8.0	A.3	1-1-1	" <i>slightly poor guiding</i>	ok
1 53 E	+61 34	2	8.0	A0	1-1-1	" <i>slightly cloudy</i>	ok
2 00 E	+74 31	1 1/2	8.0	A0	1-1-1	" p.h. # 2 - H. Speed <i>slightly cloudy</i>	ok
					6-4	ph. # 1, # 3, # 4 - E 103a.0	ok

Dome Temp. 72°F

Focus 12.920

Dome Temp. 65°F

Transparency Conditions

Light Haze

208

Very hazy in West.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 24	2 10 W	26 55	1	8.88	G5	1-1-1	A.G. 25 ^{Right} ^{200.} Along star. 3 spectrum (much) earlier.	fine
21 26	2 08 W	28 15	1-2	8.81	G5	1-1-1	"	fine
21 28	2 44 W	28 00	1-2	8.60	G0	1-1-1	"	fine
21 32	1 34 W	29 46	2	8.98	K0	1-1-1	"	best
21 34	1 59 W	27 59	2	8.95	M0	1-1-1	"	good
21 36	1 37 W	29 05	2-3	8.95	G0	1-1-1	"	fine
21 38	1 48 W	29 56	2-3	8.86	K0	1-1-1	"	good
21 40	1 32 W	+ 26 49	2-3	8.96	G5	1-1-1	"	ok
21 42	1 12 W	+ 29 10	2-3	8.49	G0	1-1-1	"	fine
21 44	0 55 W	+ 61 39	2-3	7.9	A0	1-1-1	Kapteyn. Tried HD 225034 - appears double in periscope Cassegrainian guiding and setting buttons do not start any motors. - Newtonian OK.	str
							4 ph. loaded - E-103a 0, 9 plates in Kodak box	
							MT 5C MTW STW SW	
							-2.0 ^s + 66.3 ^s + 90 ^s + 5 ^m + 5 ^s	

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	Angle Incl	Dist
19589	HD 142929	15 52.2	25 28	I-12	E103A-0	Slit 0.038	28.7	19 16	19 56	1	304	25
19590	HD 156454	17 12.6	26 41	"	"	"	28.6	20 04	21 00	2	148	26
19591	HD 188015	19 48.0	27 51	"	"	"	28.5	21 08	22 18	3	30	27
19592	HD 199908	20 55.0	55 06	"	"	"	28.3	22 36	22 50	4		55
								23 05	23 17			
								23 17	23 31			37
19593	HD 224085	23 49.9	28 06	"	"	"	28.2	23 38	00 04		045	28
19594	AG 12538	22 31.2	+29 35	"	"	"	28.2	00 12	01 00		31	29
19595	HD 5779	01 51.4	-00 55	"	"	"	28.2	01 22	01 46		105	29
19596	HD 7284	01 08.0	58 17	"	"	"	28.2	02 50	02 16		015	29
19597	HD 8013	01 14.5	60 35	"	"	"	28.1	02 29	02 40		150	29
19598	HD 14202	02 12.7	43 20	"	"	"	28.1	02 54	03 24		201	29
19599	HD 17156	02 48.9	46 44	"	"	"	28.1	03 25	03 55		111	29
19600	HD 19337	02 51.7	59 11	"	"	"	28.0	04 04	04 24		150	29

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

Transparency Conditions *Very Low near horizon,*
light bands low in N and W

210

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 04	25 18	1-2	8.79	G5	1-1-1	AG 25	fine
2 48	26 37	1-2	8.78	G5	1-1-1	" In Cass.  Right star?	good
1 30	27 58	0	8.76	G5	1-1-1	"	late
	55 18	1	7.59	F2 II	1-1-1	<i>lot 1 (Feb. 24, 1950)</i> <i>light + possibly sp. variable</i> <i>Set 3 1/2</i> <i>Set 6+</i> <i>Set 9</i>	<i>accidentally blew</i> <i>out guiding frame to</i> <i>+ replaced it.</i> <i>Remaining 2 spares to</i> <i>see to have</i> <i>broken bit stuck</i> <i>in there</i>
		1			1-1-1		
		1-2			1-1-1		
		1			1-1-1		
1 37		1			1-1-1		late
0 45	28 18	1	8.12	K0	1-1-1	AG and known sp. bln	fine
1 50	29 52	1-0	8.95	G0	1-1-1	AG 25	str
0 35	-00 29	0-1	7.5	K0	1-1-1	2d. vel.	fine
0 07	58 21	0	7.62	F5	1-1-1	known Area	fine
0 29	60 44	0	7.66	A0	1-1-1	"	fine
0 11	13 14	0	7.90	A5	1-1-1	" out of focus?	fine
0 11	46 58	1	7.9	A2	1-1-1	"	str
0 24	59 25	1-0	7.85	A0	1-1-1	"	late

213

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 $\frac{1}{2}$ "	E-1030-0	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>Form</i>	00 35.3 <i>Test</i>	39 40 <i>0 of 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 long with scattered clouds (but clearing later)* 214

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^h 00 ^m W	+25° 54'	1	8.3	G ₀	1 ^s -1 ^s -1 ^s	AG 25°	fine
3 ^h 55 ^m W	+25° 30'	1-0	8.9	G ₀	1-1-1	"  field of 74" (with 4" pin) lens	lens
3 ^h 40 ^m W	+4° 58'	0-1	7.0	F ₅	1-1-1	Ecl. bin. AE: stated forming line 20 ^h 50 ^m -21 ^h 35 ^m good	good
4 ^h 47 ^m W	+27° 35'	0-1	8.6	K ₀	1-1-1	AG 25° some scattered C15.	lens
3 20 W	+30° 02'	0	8.8	K ₀	1-1-1	" 2005 Considerable light and	good
00 27 W	39 55	0	8.5	K ₅	1-1-1	Std. Vel. 0110 Considerable cloud + rain !! 0120 Star constantly being platted out by cloud etc. and periods.	str all right
<p>0213 Much clouds + haze A very Poor Night. Closed up.</p>							
<p>P.H. # 3 & 4 Loaded E 103-a-0 4? PL in E 103-a-0 Box ? Cravers in Craver Box.</p>							
<p>Sept 12</p>							
	NC	SC	HTU	STU	SW		
	-2.0 ^s	+12.9 ^s	15.0 ^s	4.4	-6 ^s		

Dome Temp. 78°F

Focus 14.25

Dome Temp. 75°F

Showed 125 visitors
ring nebula & E Lyra with 74"
7 And & 4 with 4"

Transparency Conditions good
E Lyra resolved into 4 stars

216

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:50	50 W	25 14	0	8.34	20	1-1-1	AG 25	l str
3:21	45 W	41 27	1-2	8.44	25	1-1-1	"	weak
3:17	45 W	45 00	1	6.6	40	3-3-3	Semi-br. ring	fine
3:00	00 W	+27 48	2	8.3	20	1-1-1	AG 25	good
01:02	2 18 W	+28 26	1-2	8.47	K0	1-1-1	"	fine
00:06	06 W	-00 40	3	7.5	K0	1-1-1	Std. Vel.	wh-torsh
00:59	1 59 1/2 W	+44 28	3	7.94	A3	1-1-1	Kapteyn	fine
00:06	06 E	+28 20	2 1/2	8.0	A0	1-1-1	"	poor guiding fine
00:04	04 W	+27 48	3	8.0	A2	1-1-1	"	poor guiding fine
00:19	19 W	+15 48	3	8.0	A5	1-1-1	"	poor guiding good
04:59	23 E	+45 40	3+	8.0	A3	1-1-1	"	str all right

Tried double star HD 225034
Cannot get just one on slit at a time



star may be double.
Very strange circle of light almost fills
74" eye piece. ??? - just this condition

4 ph. loaded - 6103 a-o
4 plates in Kodak box

MC SC H12C 57C 5.0
Sept 15 +20° +24.3 0.0 +.4" -10°

Probably a searchlight reflected from clouds

Date Sept 15-16, 1952 Observer L. G. - Mo Julian Day 2434271

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
19619	HD 159608	17 30.5	+29 49	I-12 1/2	103a-0	005	23.7	20 12	21 40	1
19620	AG 13194 Focus TEST	22 03.6 O.T.B.	+26 33	"	"	"	21.0 <small>reset hermostat.</small>	00 36 ⁶⁰	01 36	2

Dome Temp. 69°F
 Focus 12.930
 Dome Temp. 64°F

Transparency Conditions cloud at starting
 very good at 24^h00^m

218

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
	29 47	0	8.9	M0	1-1-1	AG 25 Broken clouds. <i>Too guiding</i> 6 landed out phase 21 35 3 ph loaded 103a-0	not										
53W + 26 48		1/2	8.96	G5	1-1-1 6-4	AG 25 clouds in south and east at 23:30 lightning in north at raid of rain - closed up. clear by 24:00 2 ph. loaded - 103a-0	not all right										
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>HYC</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>-32^s</td> <td>+30^s</td> <td>-212^s</td> <td>+15^m</td> <td>-25^s</td> </tr> </table>	MC	SC	HYC	STW	SW	-32 ^s	+30 ^s	-212 ^s	+15 ^m	-25 ^s	
MC	SC	HYC	STW	SW													
-32 ^s	+30 ^s	-212 ^s	+15 ^m	-25 ^s													

Dome Temp. $64^{\circ} F$
 Focus 12.930
 Dome Temp. $59^{\circ} F$

Transparency Conditions *Good*

220

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
20 39	N 2 06	29 47	1	8.90	MO	1-1-1	AG 25 (colours under very small for μ) mp likely too bright poor guiding	fine												
31 30	N 2 01	29 39	0-1	8.83	K2	1-1-1	"	str												
32 44	N 2 10	29 36	1	8.84	G0	1-1-1	" (m. 7.0) mp brighter than m. for a G *?? 22" lightning in S and W (very bright)	too str												
33 37	N 1 35	25 40	0-1	8.68	K0	1-1-1	"	fine												
33 39	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	str												
						6-4		all right												
							Lph loaded													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MYC</td> <td>STC</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	MYC	STC	SW	Sept 19	-4.3	+36.2	-1.8 ^s	+1.3 ^m	-30 ^s	
	MC	SC	MYC	STC	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 E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 05	✓ 2 14	25 09	1	8.95	M0	1-1-1	AG 25	fine
22 20	✓ 2 08	27 20	0-1	var. 9.0?	K0LM	1-1-1	" <u>m_v 7.2 to 9.6</u>	seems brighter on slit than NO 170951 " fainter in finder than NO 87851
23 53	✓ 1 30	26 19	1-2	8.57	K5	1-1-1	"	good m _v 7.8
23 14	✓ 1 51	25 58	2	8.07	G5	1-1-1	"	too str
00 00	W 2 36	26 10	1-2	8.82	K2	1-1-1	"	fine
00 20		+28 59	2	8.58	K0	1-1-1	" clouds 00:15 SOLID!	too wh
						6-4	Phoned weather office at 00:50 "not likely to clear for very long at a time." closed up!	too wh
							Began to rain just as I left dome.	
							3 ph. loaded.	

Dome Temp. 55°F

Transparency Conditions excellent - some clouds earlier

Focus 15000

Dome Temp. 40°F

Ending Time L.T.	Hour Angle En ²	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 48E	+45 00	0-1	6.6	A0	2-2-2	Ague	berney	str
0 37W	+25 32	0-1	8.6	K0	2-1-1	AG	25	str
0 52W	+26 20	0-1	8.7	K0	1-1-1	AG	25	str
1 19W	+27 39	0-1	8.8	K5	1-1-1	AG	25	fin
1 24W	+29 51	0-1	9.0	G0	1-1-1	AG	25	str
0 01E	44 25	1	7.9	A0	1-1-1	Exp. Area	Out of focus - no good	str
0 01E	45 36	0-1	7.70	A2	1-1-1	" - "	Comp. very overexposed!	str
0 00	-00 40	1	7.5	K0	1-1-1	Exp. Area	Comp. overexp.	fin
0 40W	60 42	0-1	7.66	A0	1-1-1	Exp. Area		str
1 29W	61 40	1	7.78	F5	1-1-1	"		str
0 29W	47 21	1	7.7	A0	1-1-1	"		str
0 50W	48 48	2	7.9	A0	1-1-1	"		str
0 37W	27 42	2	7.8	A0	1-1-1	"		str
			7.9	A2	1-			str

Comp. very overexposed!
Comp. overexp.
very strong

4/6

23

Poor guiding
40 50 5
40 50 5
40 50 5

Wed.
 Date Sept 24/25 1952 Observer HO = [unclear] 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.
19646	HD 191945	20 ^h 07 ^m 3	+25° 42'	I12	K15700	008	15.6	21 02	21 40	6
19647	HD 197264 BD +30° 44' 17"	20 37 ⁵ 18.5	26 45 ¹⁶	"	"	"	15.6	21 46	22 36	4
19648	AG 12426	21 18 ³	30 15	"	"	"	15.6	22 42	23 25	4
	M Pops	22 41 ¹⁹⁵⁰	229 58	"	"	"				
19649	HD 20532	22 16 ²	+26 27	I12	"	008	13.3	3 37	4 07	2
19650	HD 20532	"	"	"	"	"	13.3	4 10	5 00	3
	Focus test	0.718								

Dome Temp. 55
 Press 12.93
 Dome Temp.
 Hour Angle
 Elev.

Dome Temp. 55°

Transparency Conditions good - 100%

226

Focus 12.930

Dome Temp.

Clouds clearing by 21^h

Ending Time L.S.T.	Hour Angle End	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.	
22 36	1 54 W	26 56	0-1	8.96	K ₀	1-1-1	A.G.	
22 56	02 102 W	30 28	0-1	8.91	K ₀	1-1-1	A.G. Intermittent Clouds → Clouds. Exposure meter test. Where is the star with exposure meter?	
				31	G ₁			
	0 46 W	29 37	2	85	A2	1-1-1	Vap. Area left of the pair - clouds	
	1 39 W	" "	2-1	85		1-1-1	" right of the pair - clouds	
							4/6 Pl loaded	

Thurs. - Fri.
 Date Sept. 25-26, 1952 Observer W. 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.
19651	HD 141176	15 ^h 42 ^m .6	+25° 23'	L-25"	E1032-0	0.008	15.3	19 ^h 36 ^m	20 ^h 46 ^m	1
19652	HD 161192	17 ^h 39 ^m .1	+24° 58'	"	"	"	15.2	20 ^h 52 ^m	22 ^h 16 ^m	2
19653	HD 184590	19 ^h 30 ^m .1	+25° 08'	"	"	"	15.1	22 ^h 21 ^m	23 ^h 21 ^m	3
19654	HD 188566	19 ^h 50 ^m .7	+25° 04'	"	"	"	15.2	23 ^h 24 ^m	00 14	4
19655	" 196133	20 30.3	44 50	"	H. S. p. d.	"	15.5	00 24	00 35	1
19656	AG 814	01 21.3	26 59	"	E1032-0	"	15.4	00 47	00 57	2
19657	H. D. 3765	00 35.3	39 40	"	"	"	15.5	02 56	03 46	3
19657F	<i>John Hunt</i>			<i>O. J. B.</i>						4

Dome Temp. 59.0
 Focus 12930
 Dome Temp.

extradry intense and large
 scattered clouds
 of aquata 19.440" - 19.452"
 Transparency Conditions scattered clouds.
 Decayed faint bright around stars
 better longer in north. Several
 north. Mostly white, but some pink.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 03 ^m W	+25°13'	0	8.8	G5	1-1-1	AG 25° Cloud conditions - bad, probably fogged	30" 4/4
4 ^h 36 ^m W	+24°48'	0	8.7	G5	1-1-1	AG 25° Only stars visible in field Exp. stopped because telescope nearly sky much improved. fogged	20" 4/4
3 ^h 51 ^m W	+25°15'	0	8.4	M0	1-1-1	AG 25° fogged	20" 4/4
0422W	+25°12'	0!	8.2	K2	1-1-1	AG 25°	20" 4/4
0406W	4500	0!	6.6	A0	2-2-2	Sp. Bin. plate box found irregularly dipped, plate may be fogged but it right.	20" 4/4
0425W	2714	0!	8.89	K2	1-1-1	AG 0104 Considerable Wind & Haze Slightly poor guiding	20" 4/4
0310W	3956	0	8.5	K5	1-1-1	Std-Vel 0130 I may very unstead 0230 cloud & haze cleared fogged	20" 4/4
					4/3	Std-Vel 0415 South & West clouded out. Much Haze elsewhere Closing up	20" 4/4
<p>1 P.H. +4 E₁₃0 in D. P. Cranus in D.</p>							
<p>Sept 26</p>							
			MC	SC	HRC	SA	SA
			+5.3	+55.9	+23°	+2 ^m	+6°

Fri. - Sat.
 Date Sept. 26-27, 1952 Observer Wc - Hc 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	2
19659	HD 156274	17 ^h 14.4	+27° 03'	"	"	"	14.4	20 ^h 33 ^m	21 ^h 57 ^m	1
19660	HD 185151	19 ^h 32.6	+27° 39'	"	"	"	14.1	22 ^h 01 ^m	22 ^h 57 ^m	2
19661	HD 196133	20 ^h 30.3	+44° 50'	"	Hi-Speed	"	14.0	22 ^h 57 ^m	23 ^h 53 ^m	3
19662	HD 198422	24^h 45.3	+22° 16'	"	E-1032-0	"	14.0	23^h 57^m	00 45	4
19662	HD 219351	55.0	32	"	E-1032-0	"	14.1	00 51	01 43	1
19662	AG 1322+	22 54.2	29 55	"	E-1032-0	"	14.1	00 51	01 43	1
19663	H.D. 26298	04 04.5	-16 40	"	"	"	14.4	02 07	02 47	2
19664	H.D. 19351	03 03.6	12 29	"	"	"	14.2	03 01	03 17	3
19665	" 19647	03 04.7	16 26	"	"	"	14.2	03 22	03 42	4
19666	" 21939	03 30.4	31 29	"	"	"	14.1	03 42	04 02	5
19667	" 26399	04 05.4	15 21	"	"	"	14.1	04 16	04 34	6
19668	" 27525	04 15.6	18 02	"	"	"	14.1	04 54	05 14	7

Wc *Hc* *0/13*

Dome Temp. 52.0 F.
 Focus 12.930
 Dome Temp. 45.0 F.

Very bright ^{white} ~~yellow~~ Transparency Conditions
 (some in north and some in stream below in north) at 25^h-26^h

230
 few scattered clouds
 but some clouds that are
 larger and remain quite
 cloudy.

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^h 49 ^m W	+25°15'	0	8.8	G5	1-1-1	AG 25°. Only star visible in finder	fine
4 ^h 46 ^m W	+26°59'	0-0	8.7	K0	1-1-1	AG 25°	fine fogged
3 ^h 22 ^m W	+27°45'	0	8.5	K0	1-1-1	AG 25°	good
3 ^h 27 ^m W	+45°01'	0-1	6.6	A0	1-4-3	sp. bin. cloud 23 ^h 10 ^m -23 ^h 15 ^m	str
0454W	+30°32'	0	8.6	K2	1-1-1	AG 25° Plate found broken in	
0252W	+2948	0	^{8.4} 8.72	^{A2} G5	1-1-1	AG 25° Earlier ^{Holder} spectro type.	str.
0111E	-1632	0	8.4	F0	1-1-1	Nancy Roman Poor guiding	good
0017W	+1240	0	7.84	G5	1-1-1	K.A. 71	fine
0041W	+1637	0	7.9	A0	1-1-1	" "	str
0081W	+3140	0	7.92	A3	1-1-1	" 47 slightly later spec. type	fine
0032W	1529	0	7.8	A0	1-1-1	" 72	fine
0102W	1809	0	7.9	A2	1-1-1	" " Northern portion of field is very poor guiding given as limit of field is at edge of field	too weak
					4/3	4 P.H. Loaded Eves. 0 Pl. Needed.	all right
						? Craters in J-	

231 *None visible showed visitors* { *Spent with 24" Moon with horizontal telescope* } through scattered clouds

Date *Sat. - Sun. 27-28 Sept 1952* Observer *W.E.L.* Julian Day *1952*

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'	I-R ^h	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 41 ^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 192313	20 ^h 44 ^m .4	+28° 26'	"	"	"	14.9	23 ^h 13 ^m	23 ^h 43 ^m	4
19673	HD 192402	20 ^h 45 ^m .5	+28° 16'	"	"	"	14.9	23 ^h 41 ^m	00 ^h 18 ^m	2
19674	H.D. 196133	20 ^h 30 ^m .3	44 50	"	Cramer G123a-0	"	14.9	00 29	00 39	1
19675	" 3565	00 33.6	44 07	"	E-103a-0	"	14.9	00 58	01 16	3
19676	" 14278	02 13.9	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 39.4	44 34	"	"	"	14.9	03 54	04 14	4
19681	" 30221	04 40.6	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 20.9	16 09	"	"	"	14.9	05 03	05 21	1
	Focus Lost									
						O.T. B.				

Dome Temp. 54.5
 Focus. 12.930
 Dome Temp. +52°F

(with moonlight)
 suspect 1
 moon high in north
 at 22^h 30^m Moderately strong
 moonlight and stars
 in north 23^h 00^m - 24^h 00^m

Transparency Conditions *Hazy after clearing*

232

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 47 ^m W			1-2	5.3	B3	1 ^c -1 ^s -1 ^f	AG 25° wrong star (for AS9486)	to star
3 ^h 50 ^m W	+26° 17'		2	9.0	K0	1-1-1	AG 25°	to
3 ^h 12 ^m W	+25° 22'		2	8.4	K0	1-1-1	AG 25°	to
3 05 W	+28° 35'		2	8.6	G5	1-1-1	AG 25°	fine
3 40 W	30 27		2	7.1	K2	1-1-1	" "	Interruption by ^{poor guiding} the arrival
4 17 W	45 00		2	6.6	A0	4 ² -4 ²	Sp. Bin.	of 12 visitors from ^{poor guiding} (to)
0 50 W	44 23		2	7.9	A0	1-1-1	KA.20	← Hamilton who arrived
0 27 W	12 46		1	7.9	G5	1-1-1	" " 70	late, but had made
0 25 W	32 42		1	7.88	F0	1-1-1	" " 46	previous arrangements.
0 03 W	12 18		1	7.6	A0	1-1-1	" " 71	to
0 19 E	29 31		0	7.72	Ae	1-1-1	" " 48	fine
0 17 E	44 39		0	7.91	A5	1-1-1	" " 24	fine
0 02 W	45 24		0	7.72	A0	1-1-1	" " 24	to
0 10 E	15 47		0	7.7	F2	1-1-1	" " 73	fine
0 08 W	16 10		0	7.66	F2	1-1-1	" " 73	to
						4/3	2 P.H.s loaded 103, plates needed	to

233

Date ~~Monday~~ ^{Monday} ~~Apr 29-30~~ ²⁸⁻²⁹ 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 37.1	29 39	1-12 $\frac{1}{2}$	"	"	20.6	20 12	21 08	1
19686	HD 167919	18 21.4	25 56	1-12 $\frac{1}{2}$	"	"	20.6	21 22	22 08	5
19687	HD 176695	18 36.4	28 33	1-12 $\frac{1}{2}$	"	"	20.3	22 14	23 08	2
19688	HD 173201	20 14.0	22 12	1-12 $\frac{1}{2}$	"	"	20.2	23 06	23 44	3
19689	HD 173226	21 ^{31.5} 32.7	25 ⁴⁸ 48	1-12 $\frac{1}{2}$	"	"	20.1	23 54	01 24	4
19690	" 3765	02 ³⁵ 35 .3	39 40	"	"	"	20.0	01 55	02 37	1
19691	" 20873	03 16.8	29 27	"	"	"	20.0	02 47	03 39	2
19692	"	"	"	"	"	"	20.0	03 30	04 12	3
19693	H.D. 27350	04 13.7	11 27	"	"	"	19.9	04 19	04 59	4
19694	34937	05 15.1	15 45	"	"	"	19.8	04 58	05 12	1

Focus Test a/f B

Dome Temp. 67°F

Focus 12.930

Dome Temp. 57°F

noticed moderate amount
in north mid night
to 2:20 AM.

Transparency Conditions Good

234

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:30	3 18W	24 54	0-1	8.85	K5	1-1-1	A.G. 25	good
2:35	3 46W	29 43	0-1	8.9	K ₀	1-1-1	A.G. 25 <i>may be wrong star</i>	labeled
2:40	3 58W	25 56	0-1	8.7	K ₀	1-1-1	A.G. 25 <i>numbered 17226</i>	labeled
2:45	4 13W	26 34	0-1	8.9	K ₀	1-1-1	A.G. 25	fine
2:50	3 42W	25 21	0	8.4	K ₅	1-1-1	A.G. 25	fine
2:55	0 04W	26 09	0	8.6	S ₀	1-1-1	A.G. 25 Proc.	labeled
3:00	0 213W	39 55	0	8.5	K ₅	1-1-1	Std Vel. <i>light grey</i>	labeled
3:05	0 133W	29 38	0	8.5	A ₂	1-1-1	Pygmy star K.A. 47	labeled
3:10	0 106W	-11	0	-11	-11	1-1-1	7.1	good
3:15	0 043W	+14 34.5	0	7.9*	A ₂	1-1-1	K.A. 172. * Expansion as if star is 8-2 mag	labeled
3:20	0 008W	15 48	0	7.7	F ₂	1-1-1	KA-73 4/3 I.P.H. Labeled E103 Plates Needed	labeled

235

~~Wed. 29 Oct~~

Date Monday Tuesday Sept 30 1932 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. 100	Hour Angle End
(19695)	NG 7774	16 ^h 37 ^m	+23° 37'	1-12 1/2	E 10320	lit '008	20.96	19 ^h 30 ^m	21 ^h 02 ^m	2	43N 2
19696	HD 196133	20 30.3	+44 50		Cramer High speed	"	20.9	21 10	21 28	3	14W 1
19697	HD 169573	18 20.2	+26 17		E 10320	"	20.8	21 34	22 50	4	44N 2
19698	NG 4479	18 53.5	+29 28		"	"	20.8	22 56	23 53	1	15W 1
19699	NG 13194	22 03.6	+26 33		"	"	20.8	23 57	0057	2	23W 1
<i>From first</i>				<i>O. J. B.</i>							

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												
21:00	40W	+25° 32'	00	8.93	G ₀	1-1-1	Sp. of earlier type used field from plate #15846 A.G. Last time starting ex checking field (one of two done)	Two												
21:27	14W	+45 00	00-0	8.6	A ₀	3-3-3	Spec. bin.	fine												
21:33	44W	+26 17	0	8.84	K ₀	1-1-1	A.G. Windy	Dark												
21:33	15W	+29 32	0	8.50	G ₀	1-1-1	A.G. Sp. looks of slightly earlier type.	good												
21:57	0310W	26-18	0	8.96	G ₅	1-2	A.G. 0033 Cloud from N.W. & N.	fair												
						4/3	0040 Cloud from N. quite heavy.	stage												
							0050 Weather office thinks it will be mostly cloudy rest of the night.													
							0255 whole sky quite solid closing up.													
							4 P. H. Landed E 103.0													
							5 Pl. in D.													
							<table border="0"> <tr> <td></td> <td>HC</td> <td>505</td> <td>MYU</td> <td>572</td> <td>500</td> </tr> <tr> <td>Oct 30</td> <td>+120°</td> <td>+672</td> <td>-75°</td> <td>+4"</td> <td>-45</td> </tr> </table>		HC	505	MYU	572	500	Oct 30	+120°	+672	-75°	+4"	-45	
	HC	505	MYU	572	500															
Oct 30	+120°	+672	-75°	+4"	-45															

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 * 2:00 - Solid.	Foam
						3 BH Loaded + 5	
						MC SC - +782 90° - 27°	

Dome Temp. 45° F.

Focus 12.930

Dome Temp.

Extremely intense
snowed faintly and
stream in valley
some snow patches
on white sky 7:30 - 8:00
0.1 ft. + snow left at 9:00
clearly + stream, center
white light, night

Transparency Conditions 4.0/10

240

among others with a greenish but
no reaction reddish on blue, deep
bottom of certain red top the lake on bay

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:00	4 ^h 47 ^m W	+25° 30'	0!!	8.9	G ₀	1-1-1	AG 25° I hope this is the best I have ever seen!	fine
2:05	3 ^h 37 ^m W	+28° 05'	0	8.7	K ₀	1-1-1	AG 25°	fine
2:10	3 ^h 58 ^m W	+29° 33'	0-1	8.8 8.8	G₀ A ₂	1-1-1	see below This is a late B- or early A-type. It is in good condition. I have seen it of following stars. The distance is 1.5 pc. See plate 19586 sketch of high emulsion damaged by processing sp. destroyed X 2 4480, no good X 4450	fine
2:15	3 ^h 51 ^m W	+45° 00'	1-0!!	6.6	A ₀	3-3-3	sp. bin.	fine
2:20	5 10 W	+27° 40'	0-1	8.7	K ₅	1-1-1	AG 25°	fine
2:25	0 18 W	-10 00	1	8.7	A ₂	1-1-1	Heavy, brown	fine
2:30	0 16 W	-5 54	1	8.2	K ₄	1-1-1	Old blue	fine
2:35	0 19 W	-6 42	0	8.7	B ₀	1-1-1	Heavy, brown	fine
2:40	0 48 W	+18 33	0	8.0	K ₀	1-1-1	KA 22	fine
2:45	0 50 W	+18 57	0	7.9	A ₂	1-1-1	KA 22 5/16	fine

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 visible in Lyra with 74", moon with 5",}
and Jupiter with 4".

Date Sat. Evn. Oct. 4-5, 1952 Observer ^{W. H. R.} W. H. R. Julian Day 241

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	20 365	+57 37	T-12	E-103aD	ref	13.2	21 58	23 02	4
19712	HD 198821	20 479	+58 20	"	"	"	13.6	23 10	00 20	1
19713	HD 196122	20 202	+57 50	"	HiSpeed	"	13.2	00 30	00 42	3
19714	HD 3765				E _{103aD}					2
19713F	<i>From</i>				<i>Test. of B.</i>					

Dome Temp... 52°F

ocus... 12.000

Dome Temp... 40°F

occasional auroral stream again
clearly visible even with
bright moonlight.

Transparency Conditions... Very unstable

242

Ending Time L.A.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
12	5 10 W	-17 47	0	870	K0	1-1-1	AG 25°	fine												
00 20	04 08 W	28 38	0.4	821	K2	1-1-1	AG 25° Clouds 00 ^h 00 ^m	fine												
00 42	04 47 W	44 59	0	60	A0	3-3-3	Sp. Bin. 0048 Cannot get star up in finder - cloud 0100 still quite clear becoming thicker weather office says cloudy most of night. closing up.	(top) and continued to set												
						4/3														
							I.P.H. +7 E 103 ^o 0													
							GC ranges													
							<table border="0"> <tr> <td></td> <td>HC_s</td> <td>SC_s</td> <td>WAV</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Set 7</td> <td>+4.8</td> <td>+23.5</td> <td>+15.5</td> <td>+5^m</td> <td>+15.5</td> </tr> </table>		HC _s	SC _s	WAV	STW	SW	Set 7	+4.8	+23.5	+15.5	+5 ^m	+15.5	
	HC _s	SC _s	WAV	STW	SW															
Set 7	+4.8	+23.5	+15.5	+5 ^m	+15.5															

243

Date *Tues. Wed. 7-8 Oct/52* Observer *-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.
19714	H.D. 196133	2030.3	+4450	I-12 $\frac{1}{2}$	H.S. ped.	008	8.0	0101	0117	2
19715	" 26298	0404.5	-1640	"	E _{103a0}	"	7.9	0133	0223	1
19716	" 36542	0527.3	-1095	"	"	"	8.0	0233	0333	2
<i>Focus just off B.</i>										

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
0535W	+4501	0	6.6	A ₀	3-3-3	Spect. Bin.	fine
054E	-1632	0	8.4	F ₀	1-1-1	Nancy Roman	fine
0106E	-1002	0	(8.5)	A ₀	1-1-1 1/3	" "	l. note all night
						0300 Cloud in N, NW	
						0314 Cloud as far south as Orion	
						0320 Star Group	
						0330 Met. office says not much chance of clearing up.	
						2 PH + 4 E 0300	
						5 Crows	

245

Date Wed Oct 8-9 1952 Observer L. Boshko - 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-1030-0	set 008	+10.9°	19 36	20 24	3	3 24 +2	
19718	H.D. 170738	18 25.9	25 42	1 "	"	"	10.8°	20 36	21 30	4	3 50 +2	
19719	H.D. 190749	20 01.4	29 34	"	"	"	10.7	21 44	22 50	1	3 00 +2	
19720	H.D. 12426 30+30° 447	21 18.3 18.5	30 45 16	"	"	"	10.6	23 02	00 14	2	3 30 +2	
19721	H.D. 196133	20 30.3	44 50	"	H. Speed	"	10.8	00 27	00 43		3 50 +4	
19722	" 13721	02 08.6	-10 13	"	E-1030-0	"	10.7	00 57	01 57	3	3 50 +2	
19723	" 27821	04 18.4	+08 08	"	"	"	10.7	02 07	03 11	4	3 16 +2	
19724	+15° 838	05 25.8 ⁵	+15 47 ³	"	"	"	10.8	03 22	05 08	1	3 50 +2	
19725	H.D. 35635	05 21.1	13 31	"	"	"	10.8	05 13	05 39	2	3 50 +2	
	<i>From list</i>				<i>O. J. B.</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	<i>good</i>
20 30	3 55W	+25° 42	1	8.79	G5	1-1-1	" <i>Slightly poor guiding</i>	<i>fine</i>
20 37	3 40W	+29° 42	1	8.86	K ₀	1-1-1	"	<i>fine</i>
20 44	3 47W	30° 23	1	8.91	K ₀	1-1-1	"	<i>too weak</i>
20 50	3 505W	44 59	0	6.6	A ₀	3-3-3	Spect. Bin	<i>fine</i>
20 55	3 40W	-09 58	0	8.7	A ₂	1-1-1	Nancy Roman	<i>good</i>
21 00	3 16E	+06 15	0	8.8	A ₅	1-1-1	" "	<i>fine-ld.</i>
21 05	3 0031W	+15 44	0	9.3	F ₈	1-1-1	" "	<i>etc</i>
21 10	3 0059W	+13 31	0	7.7	A ₀	1-1-1	K.A. 73 <i>poor guiding</i>	<i>etc</i>
						4/3		
							2 PH. + 8 E 10300	<i>all right</i>
							4 Coines.	

247

Date Thurs. Oct 9-10 1952 Observer L. H. R. 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	T-12 $\frac{1}{2}$	F-103 $\frac{1}{2}$ 0	set 008	10.8	18 50	19 48	2	2 54N	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 0W	26
19729	" 198526	20 45.8	28 37	"	"	"	10.6	22 06	23 10	1	3 19W	26
19730	" 205627	21 31.5	25 55	"	"	"	10.5	23 14	00 50	2		26
19731	" 21543	03 23.4	-0652	"	"	"	10.5	01 00	02 00	3	00 32E	27
19732	" 26272	04 04.5	-1640	"	"	"	10.7	02 08	02 56	1	00 35E	27
19733	" 27821	04 12.4	+0608	"	"	"	10.4	03 03	04 07	1	00 47E	27
19734	" 36542	05 27.3	-1005	"	"	"	10.4	04 14	05 04	2		27
19735	" 36484	05 26.9	+3244	"	Hi Speed.	"	10.4	05 14	05 32	1		27
		<i>From list</i>				<i>O.T.R.</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 45	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
24 20	20 14W	26 08	0	8.9	G ₀	1-1-1	" Following star of pair.	fine
25 30	00 29E	-06 42	0	8.7	G ₀	1-1-1	Mancy Roman	fine
26 40	00 13E	-16 33	0	8.4	F ₀	1-1-1	" "	fine
27 50	00 44W	+06 16	0	8.8	A ₅	1-1-1	" "	fine
29 00	00 33W	-10 04	0	8.5	A ₀	1-1-1	" "	fine
30 10	01 00W	+32 44	0	6.5	A ₂	3-3-3 12/8	Spect. Pin.	fine
							1 P.H. + 12 E. 13.0	
							3 Craters	
							Difficulty in closing shutters	
							Catch Jupiter	
							See also +3.5, +28.9, -27.5, -1.4, -26	

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

Transparency Conditions *good*

250

Focus 12000

20.45 with normal and all night

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

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 36 W	29 36	0	8.91	K0	1-1-1	AG 25	Starry
4 11 W	28 50	0	8.91	K2	1-1-1	"	fine
4 12 W	26 00	0	8.78	B5	1-1-1	"	Starry
4 07 W	26 27	1	8.72	K0	1-1-1	"	fine
4 30 W	45 00	1	6.6	A0	3-3-3	Sp. line very poor guiding	fine
0 01	-00 39	1	7.5	K0	1-1-1	Star. vel. clouds	good
1 14 W	46 12	1	7.7	A0	1-1-1	SA 21	fine
0 30 W	45 59	1	7.8	A0	1-1-1	SA 22. poor guiding	fine
0 40 W	32 37	1	7.90	A0	1-1-1	SA 46	fine
1 04 W	29 37	1-0	8.0	A3	1-1-1	SA 9. slightly poor guiding	fine
1 15 W	41 36	0	8.0	A0	1-1-1	SA 9. poor guiding	fine
0 17 W	-10 02	0	(8.5)	A0	1-1-1	Star. vel.	fine
0 11 E	29 16	0-1	8.54	B5	1-1-1	AG 25°	Starry
1 29 W	32 44	1	6.5	A2	3-3-3	Sp. line	fine

Dr.

Date Oct 11-12 - 52 Observer HV - 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	0.008	10.8	22 ^h 11 ^m	23 11	1
19751	40 201346	20 59.0	+26 56	"	"	"	10.8	23 16	23 14	1
19752	" 196133	2030.3	+4450	"	MSped	"	10.8	0035	0037	4
19753	21543	0323.4	-0652	"	E-1030	"	10.8	0056	0156	2
19754	20293	0404.5	-1640	"	"	"	10.8	0203	0249	1
19755	27821	0418.4	+0658	"	"	"	10.7	0259	0350	3
19756	+15° 238	0525. ⁵	+154 ³	"	"	"	10.7	0400	0520	1
<p>→ { <u>Focus part of B.</u> <u>Focus taken on 11 = 19752</u></p>										

About 100 visitors. Showed M15 with 74"
 4 with 4".

Transparency Conditions

Ham

252

Dome Temp. 46°F

Focus 12.920

Dome Temp. 42

2nd Mass around 10:00
 2nd Mass 9:00-10:00 and 10:00-11:00

Ending Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 14 W	+28°46'	1	8.37	K0	1 ^s -1 ^s -1	AG 25° Set 2 (Brief app. without comp. at hour 5)	Strong
0417	27 07	1	8.72	K5	1-1-1	" Set 2	good
—	+4459	1	6.6	A0	3-3-3	Spect. Bin Set 2	fine
0025E	-0641	0	8.7	G0	1-1-1	Nancy Roman Set 2	fine
0013E	-1633	0	8.4	F0	1-1-1	" " " 8	fine
0034W	+0615.5	*1	8.2	A5	1-1-1	" " " 2	fine
0051W	1545	1*	9.3	F8	1-1-1	" " " 8	fine
					12/3		
						0465 ... Dome stream ... with ...	
						* Variable ... 0-1-2 ... slightly ...	center displaced slightly to red
						1 P.H. + 4 8	
						1 Box ...	

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

Focus 12.920

Dome Temp. $+51$

Transparency Conditions Fair, some haze

254

Cleaning about 10:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
0110E	+1545	1-2	9.3	F ₈	1-1-1 4/3	Nancy Roman Seti 2 ⁰²⁴⁵ SK covered with 1 light cloud. <u>0320</u> Still quite hazy closing up.	fine center exposed middle												
						4 P.H. + 4 (E10360)													
						1 Box Crumbers													
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>2.4</td> <td>-75.5^s</td> <td>+3.3^s</td> <td>-23^s0</td> <td>0^m</td> <td>-11^s</td> </tr> </table>		MC	SC	MTW	STW	SW	2.4	-75.5 ^s	+3.3 ^s	-23 ^s 0	0 ^m	-11 ^s	
	MC	SC	MTW	STW	SW														
2.4	-75.5 ^s	+3.3 ^s	-23 ^s 0	0 ^m	-11 ^s														

Date Wed - Thurs 15/16 Oct 52 Observer HK - 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.
19758	H.D. 168613	18 067	+30 04	I-12	Eastman	slit 108	9.8	01 48	01 58	1
19759	H.D. 172104	18 129	+28 57	"	"	"	9.7	02 11	02 21	1
19760	H.D. 195050	19 412	+30 00	"	"	"	9.5	01 35	01 45	1
19761	A.G. 12005	20 575	+26 31	"	"	"	9.2	02 09	02 24	2
19762	H.D. 195133	20 30.3	-74 50	"	HiSpeed	"	9.3	00 36	00 56	1
19763	" 24000	03 44.3	+29 26	"	Eastman	"	9.2	01 55	02 01	2
19764	+24° 659	04 21.8	+24 13	"	"	"	9.2	02 24	05 04	3
19765	H.D. 26484	05 26.9	+32 41	"	HiSpeed	"	9.0	05 11	06 35	1
<i>From Test 070</i>										

Dome Temp. -45°C

Focus 12.930

Dome Temp. +40.1

Try setting focus at 12.930

Transparency Conditions

256

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 44W	19° 02'	0-1	8.7	B5	-1-1	Set 2 12.25	str
4 44W	22 41	0-1	8.72	B5	-1-1	Set 1 "	str
4 44 ^h W	30 07	0	8.75	M0	1-1-1	set 2 "	str
0449W	27 01	0	8.71	G0	1-1-1	set 2 "	good
0545W	44 59	0	6.6	A0	3-3-3	Set 2, Spect. Bin.	good
0026E	+2 43.5	0	(8.5)	A2	1-1-1	Set 2 Non-Romex	str
0201W	+24 16	0	(8.4)*	F0	1-1-1	Set 8 Non-Romex *Diff. partly in 1 hour up in 1.5 hr.	str
0116W	+22 47	0-1	6.5	A2	3-3-3 12/8	Set 6 Spect. Bin. looks much better than 01 12/8 Very different from 01 str at all - str.	str
1 P.H. +4 E 12.300							
2 3? Transvers.							

257

40 Visitors from Central Public School in Berkeley,
showed 74" and 74" with 4"

Date Oct. 16th 17th 52 Observer L and Boelke ^{-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.
19766	HD 166 822	18 ^h 07.3	+25° 17	1-12 $\frac{1}{2}$	E 103	.008	+7.6	13 ^h 13 ^m	20 ^h 39 ^m	4
19767	HD 175 578	18 ^h 50.9	+29° 58	1-12 $\frac{1}{2}$	E 103	.008	+7.8	20 ^h 49 ^m	21 ^h 39 ^m	4
19768	HD 181 550	20 ^h 55.6	+29° 26	1-12 $\frac{1}{2}$	E 103	.008	+7.6	21 ^h 50 ^m	23 ^h 00 ^m	1
19769	BD + 30° 4417 AG 12426	21 48.3	30 15	"	"	"	+7.8	23 ^h 26 ^m	0122	1
	HD 21000									
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
S.W.*

Transparency Conditions *Good (100%)*

258

Ending Time
E.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 1940-19.55 also sharp emission spectrum Bad fogging over spectrum</i>	fine														
4 ^h 10 W	+29° 57'	0	8.35	G ₅	1-1-1	set 8 AG 25	good														
4 ^h 16 W	+23° 34'	3	8.54	K ₂	1-1-1	set 2 AG 25	too dark														
5 ^h 26 W	30 28	0	8.91	K ₀	1-1-1	set 8 AG 25 0108 A little cloud in W & S.W. Last 5 min through cloud. 0127 sky now quite solid. 0210 A few clouds from the N.W. Met. said only a local shower I think has off the beam 0235 still mostly cloudy clearing up															
3 P.H. + 12.																					
23 Crumpeas.																					
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>more</td> <td>see</td> <td></td> <td></td> </tr> <tr> <td>Oct 17</td> <td>-72.3</td> <td>4deg</td> <td>-68</td> <td>+1^m</td> <td></td> <td>-1/3</td> </tr> </table>								MC	SC	more	see			Oct 17	-72.3	4deg	-68	+1 ^m		-1/3	
	MC	SC	more	see																	
Oct 17	-72.3	4deg	-68	+1 ^m		-1/3															

259

Pk (22:25-23:0)

Date Fri-Sat, Oct. 17-18, 1952 Observer Wc - Hw 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 ^m 30.3	+ 44° 50'	F-12 ^{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-103a-0	"	5.8	19 ^h 05 ^m	19 ^h 55 ^m	1
19772	HD 166914	18 07.7	+ 25 21	"	"	"	5.8	20 ^m 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 209255	22 01.2	+ 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	"	E103a0	0.016	5.9	00 59	03 59	3
19778	H.D. 61606	07 35.0	+ 03 32	"	"	0.008	5.95	04 27	04 44	3
19779	" 364184	05 26.9	32 44	"	Hi-Speed	"	5.9	04 56	05 10	1
19780	" 44768	06 18.5	15 55	"	E103a0	"	5.6	05 19	05 39	4
<i>From Test of B.</i>										
1952 Oct. 18 N.L. Cloudy.										
Blind 125 + "intense" in two "sittings", - 6:30 and 8:00. Blind										

Dome Temp. 40°F.
 Focus 12,930
 Dome Temp. 30°F

Transparency Conditions Clear

260

*2nd ...
 Joint ...
 ...*

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19	0 ^h 04 ^m E	+45° 00'	0!!!	6.6	A ₀	3 ⁵ -3 ⁵ -3	sp. bin.	str
19:55	3 ^h 13 ^m W	+29° 41'	0!!	8.2	G ₅	1 ⁵ -1 ⁵ -1	AG 25° set 2 Comp. sp. weak	str
20:00	4 ^h 40 ^m W	+25° 16'	0	8.8	G ₀	1-1-1	" set 4 1/2 Comp. sp. weak	str
20:05	4 07 ^m W	+25° 08'	1-20!	8.9	M ₃	1-1-1	" set 8 Comp. sp. sl. weak	good
20:15	2 51 ^m W	+27° 43'	0	7.72	G ₀	1-1-1	" set 2 Comp. sp. weak	str
20:20	0 ^h 02	-00° 41'	0!	7.5	K ₀	1-1-1	sl. weak, set 8 Comp. sp. weak	good
20:28 W	+44° 59'	0	6.6	A ₀	3-3-3	sp. bin. field light	fine	
103 W	+24 15	0	(2.4)	F ₀	1-1-1	Non. Remer. set 8	Trying Max 10.6	too weak
1124 E	-0332	0	7.2	K ₂	1-2	3	slightly poor guiding	good
1110 W	+3244	0	6.5	A ₂	3-3-3	Spect. Bin. " 8	Difficulty in picking	fine
10047 W	+1555	0	7.6	A ₀	1-1-1	K.A. 74	4/3	str
							3 P.H. + 8	
							21 ...	

slightly poor guiding
 Difficulty in picking
 ...
 R.A. circle reads 07^h 37.
 0938 ...

slides, and ...

Date Mon, Oct 20/21, 1952 Observer Wm - Hx 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.
19 782	HD 173909 BD + 30° 44' 7"	18 42.8 18.5	+27 23 16	I-12 1/2	E 103a-0	SET 00B	+2.3	19 58	20 30	1
19 783	AG 12476	21 18.3	+30 15	"	"	"	+2.4	20 56	22 00	3X
19 784	HD 209680	22 00.1	+23 23	"	"	"	+2.3	22 04	00 44	3A
19785	1 θ 4000 + 29° 734	03 44.3	+29 26	"	"	"	+2.4	00 56	01 28	2
<p><i>From</i> <i>Jet</i> <i>6-5</i></p>										

Home Temp.....+33°F

ocus.....12:30

Home Temp.....

0200

Fireball moving
south toward α Can. Maj.

Transparency Conditions.....Good

Starting delayed by

- a) Car trouble
- b) Dirty Wheel on Bridge Contacts
- c) Trouble with switch to focusing mirror

264

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 ^h 45	+27° 25'	1	9.63	K0	1-1-1	Set 7 AB 25 On same plate as 19781 Condensation cloud poor guiding	str
	2 ^h 18	+30 25	1	3.91	K0	1-1-1	Set 2 "	l wd
	04 22 W	+29 42	1-	9.93	K5	1-1-1	Set 7 " Better condensing obj. "	fine
	00 38 E	+29 35	2	8.5	A ₂	1-1-1	Set 2 N. Roman 0011 Some cloud N.W. 0034 very light cloud so haze covering most of sky 0150 Very Hazy !! Some cloud Cannot pick up star in finder. Met. says much cloud to the north 0204 Getting thicker closing up.	Central to red
							4/3	
							1 P.H. + 7 + 12.	
							21 Cramers.	
							<u>Heat on Mirror</u>	
							Dec 21	
							HC ₅	
							-55.0	
							SE	
							+47.4	
							W. Day	
							-55°	
							Spec	
							+3 m	
							10	

ome Temp. +43°F
 ocus.....12.920
 ome Temp. +35°F

very faint at 12.920

Transparency Conditions Good

266

20-45^m seeing by strong wind image unsteady
 on E.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 37	3 05W	25 37	0	8.54	K0	1-1-1	Set 2 AG 25	good
20 2	3 17W	27 37	0	8.12	K0	1-1-1	Set 8	good
21 55	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	scanty
	1 45W	29 12	1-0	9.50	B9	1-1-1	set 2 turning the dome	good
	2 16W	25 41	1	8.9	B0	1-1-1	set 8 closed up. poor seeing 11.20	good
	2 08W	22 44	1	6.5	A2	3-3-2	Spectri Perm. set 5 4/6	fine straight

Pa ± 1 Hi-Speed
 = 4 Earthquake

High in ...

Dome Temp. +52°F
 Focus..... 12.920
 Dome Temp..... +46°F

Transparency Conditions *Good (0.25)*

268

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 40	2 31 W	29 00	0	8.37	K ₂	1-1-1	Set 2. AG.25	fine
20 47	3 53 W	28 33	0-1	8.56	K ₂	1-1-1	Set 8 " " Clouds (light) ^{throughout} but not	fine
20 50	2 38 W	45 00	0	6.6	A ₀	1-1-1	Set 2 Binary. clouds ^{poor guiding} thro' out.	fine
20 58	1 15 W	44 30	0	8.0	A ₀	1-1-1	" 8 K ₁ A. Some clouds	l. sub
21 00	0 15 W	-16 33	0	9.5	F ₈	1-1-1	" 2 ^{N. Roman} <u>H₁ Vel</u> Couldn't find +53° you on the vel prog. - Bk check field please	good - l. sub
21 06	0 05 W	+27 13	0	9.50	B ₉	1-1-1	" 8 N. Roman <u>0.25</u> Wind Increasing.	l. sub
21 07	0 10 W	+55 20	0	8.9	G ₀	1-1-1	" 2 " "	l. sub
21 15	0 50 W	50 43.5	0	8.9	A ₀	1-1-1	" 5 " " <u>4/3</u> " 9 poor guiding	good - l. sub all right
							2 P.H. + 12 E10300	
							19 Cramer's	
							H. on M.	
							$\begin{matrix} \text{m} & \text{sc} & \text{m} & \text{sc} \\ \text{Jul 24 } -59.0^\circ & +52.5^\circ & 12.8^\circ & +.1^\circ \end{matrix}$	$\begin{matrix} \text{sc} & \text{m} \\ 5.0 & -3.2 \end{matrix}$

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
19801	H.D. 169573	18 20.2	26 17	I-12 $\frac{1}{2}$	E-103 $\frac{1}{2}$ O	set 008	13.8	18 17	19 37	2	3 10W
19802	" 187280	19 44.1	28 04	"	"	"	13.6	19 40	21 10	6	3 20W
19803	" 3567	00 33.5	-08 51	"	"	"	13.7	21 20	23 26	3	0 46W
19804	+24 $^{\circ}$ 639	04 21.8	24 13	"	"	"	13.6	23 33	02 05	3	0 02E
19805	40 Fri B	04 10.8	-07 49	"	"	016	13.3	02 17	03 14	4	01 19W
	Focus test 6TB - slit at 016										
	Reset slit to 008										

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
3 37 2	3 10W	26 17	0	8.84	K ₀	1-1-1	Set 2 A.G. 25	fine
21 40 8	3 20W	28 11	0	8.99	K ₀	1-1-1	" 8 " "	fine
23 26 3	0 46W	-08 34	0	9.6	F ₅	1-1-1	" 2 Nancy Roman	not clear
02 05 7	0 02E	24 20	0-0	8.9	F ₀	1-1-1	" 8 " " { light cloud throughout at 03 14 spectrograph → pier	
03 14 4	01 19W	-07 45	0	9.7	A?	1/2-1/2-1/2	Set 2 White dwarf Clouds getting worse Directed to right, no cloud in W. (ie - leave plate in)	not clear (clouds and transparency)
							500 - Closed in	
							3 plate holders loaded. E 10320	

Dome Temp. 38°

Focus 12.920

Dome Temp. +34°F

Transparency Conditions Poor → fair

212

Showered 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 - Last time ^(15 min) trying to find ^{Roman} 2104	fine
00:02	1 32 E	+24 19	0-1	8.9	F0	1-1-1	Set 8 Roman	good
00:05	00 50 W	+54 20	0-1	9.3	A0	1-1-1	set 2 " Slightly poor guiding	good
00:05	02 24 W	+29 12	2	9.50	B9	1-1-1	set 8 "	good
00:00	05 15 W	+27 19	2	9.26	B5	1-1-1	set 2 AG 25	ok
00:00	07 47 W	+26 2	2	9.28	B0	1-1-1	set 8 AG 25 Composite spectrum?	ok, ok
00:02	09 21 W	+25 44	2	6.5	A2	3-3-3	set 5 ^{sp. viewing} 4/6	fine slight
							Flu. in 1.2 with filter	
							Last in 2.000	
Sun, Oct 26/27							Considerable ^{clouds} over ; circ. obscuration ~ 2-5 magnitudes W m.	
							MC SC MKW SWW SW Oct 29 -43.0 +63.4 +18.0 +.3 ^m -20.5	

Dome Temp. 13.0°F
 Focus 12.925
 Dome Temp.

Transparency Conditions Fair (10/10)

274

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5h44W	45° 00'	0	6.6	A0	3-3-3	Sp. binary set 2	not too much
			(8.5)	A2	1-1-1	set 2	
0030	2935	0!!		"	1-1-1	Set 4 Roman	switch to R.A. Quick Motion your trouble
0201W	29 11	0!!	9.50	B9	1-1-1	" 8	good
0145W	3244	0!	6.5	A2	1-4-4	Set 8 Sp. Bin.	I think trouble with focusing same as before
0029W	2914	0	8.37	K0	1-2	" 2 AG25.	found
					4/3 set 9	0528 All errors stop - - misalign on	R.A. Motion Trouble caused I think by wire break in hand switch set
						0533 quite solid	
						0345 Cloud in NW, W, SW	

2 P.H. + 4 E10300
 17 Cranes,
 H. on M.

Dome Temp. +48

Focus.....

Dome Temp. +47

Transparency Conditions *Poor* 276

Very murky at first. Then des 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 2	W 2 26	25 25	1	8.23	K5	1-1-1	Set 2 AG prog. Haze + some cloud work	
21 26 2	W 2 50	26 14	1	7.23	G0	1-1-1	" 8 " " " (str.)	
22 02 4	W 3 50	45 00	1-0	6.6	A0	1-1-1	" 2 Sp. Bin. Haze. good fine	
23 21	W 1 25	17 15	1	7.73	G0	1-1-1	Set 2 KA " <i>for guiding work.</i>	
23 50 1	W 0 46	-0 41	1	7.49	K0	1-1-1	" 8 Std. Val. clouded out. <i>For work</i>	
							<u>0210</u> Quite solid + Hapless Chasing up.	
							1 P.H. + 4 E10320	
							15 cameras.	
							H. on M.	
							MC SD MPO STU SW S	
							(Oct 31) +38.0 +45.0 +45.0 +1.4 ¹⁰⁰ -31 ^S +6.1	

Dome Temp. $+40^{\circ}$
 Focus 1500
 Dome Temp. $+43^{\circ}$

Transparency Conditions *Hazy - some*
(fog at times) and windy
... ..

Ending Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20W	55 53	1	85	0 R3	1-1-1	Matthew's stars, set 2	fine
1 39W	32 15	2	105	0 R2	1-1-1	" " set 2 clouds	good-but
1 50W	32 45	2	65	R2	3-3-3	set 5 Sp. bin	fine
1 56W	30 31	2	80	H0	1-1-1	set 2 Sp. bin	fine
0 32W	49 50	2	78	H0	1-1-1	set 2 " "	fine
1 57W	53 42	2	80	H0	1-1-1	set 2 Sp. bin, poor guiding 4/6	l. int
						PA # 3.4 loaded - to Saturn	
						have left not needed, and a new piece	

Dome Temp. +33°F

Focus 12.920

Dome Temp. +31°F

Rain several times during evening. Transparency Conditions Good.

280

Ice on Dome & Shuttles Clearing after 0130

West Side

Skating rink out on cutwalk

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0023E	2712	01	8.19	K2	1-1	A.G. 25. Set. 2		good f.
0047W	2947	01	8.63	G5	1-1	" " " 5	0418 occasional wisps of cloud	good f. Central to south but not high
					4/3	" 9	0450 Considerable cloud from NW	
							0506 Too much cloud to point in continuing	
							1 P.H. loaded Ero3a-C [Lat 300?]	
							14 Crawlers	
							Horn M.	
							Dec. Quick Motion wire in hand switch acting again.	

Dome Temp... -43°F

Transparency Conditions *hazy*

Focus... 12.920

Dome Temp... +32

Ending Time
Z.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
2100W	+58 55	1	29	c-R251-1-1	Set. 2	<i>from guiding</i> Matt. Hi-Vel 0205 Too Hazy To Continue Working.	<i>fine goal</i>																								
<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. Png.																															
H. on M. 14 Crawlers.																															
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MPW</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>-1</td> <td>S</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>+1^s</td> </tr> </table>									MC	SC	MPW	STW	S	W	S	Nov 5	-12.0	+67.2	-26.5	+1.5 ^m	-1	S	+17 ^s	Nov 7	+02.2	+66.8	-24.2	+1.4 ^m	-7	S	+1 ^s
	MC	SC	MPW	STW	S	W	S																								
Nov 5	-12.0	+67.2	-26.5	+1.5 ^m	-1	S	+17 ^s																								
Nov 7	+02.2	+66.8	-24.2	+1.4 ^m	-7	S	+1 ^s																								
Fri-Sat Nov 7/8 - Opened @ 1930 - Clouds! Closed 2100.																															
PH #1 loaded w CE #4 as above.																															
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MPW</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>-1.3^m</td> <td>-30^s</td> <td></td> <td>+15^s</td> </tr> </table>									MC	SC	MPW	STW	SWW	m	S	Nov. 12	+23.5	+83.6	-18.0	-1.3 ^m	-30 ^s		+15 ^s								
	MC	SC	MPW	STW	SWW	m	S																								
Nov. 12	+23.5	+83.6	-18.0	-1.3 ^m	-30 ^s		+15 ^s																								

Date Nov. 13-14, 1952 Tuesd-Fri Observer 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.F.
19832	{ HD 197162	19 43.4	+28° 14'	I-12 1/2	E103-a-0	set 008	+62	19 29	19 33	2
19832	{ HD 197263	20 37.5	+21 55	"	"	"	62	19 32	19 34	2
19834	HD 196133	20 30.3	+44° 50'	"	H1-Good	"	60	20 19	20 23	1
19835	{ HD 1962	00 19.7	-0 11	"	E103-a-0	"	60	20 43	20 48	3
19836	{ HD 13721	02 08.6	-10 13	"	"	"	60	22 29	22 47	3
19837	HD 237019	02 45.7	+60 02	"	"	"	60	23 05	23 15	4
19838	{ +24° 65'	04 31.8	+24 11	"	"	"	6.0	01 46	02 56	2
19839	{ +50° 13 59	06 44.6	+50 46	"	"	"	6.0	03 27	03 52	2
	Sun Nov 21-52 O.P.R. 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000									
	Sun Nov 21-52	Ch...	0100							

Transparency Conditions *hazy*

Dome Temp. *+40F*
 Focus *12520*
 Dome Temp.

*(Poor focus (indicated on plate covers))
 Only plate # 19834 out focal test.
 E.S.W.*

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 52W	32 31	0-1	895	G5	1-1-1	set 2 AG-25	good look
2 48W	32 34	1	844	G0	1-1-1	set 8 "	good look
3 15W	41 59	1	66	A0	3-3-3	set 2 <i>plate not properly holder. Poor focus.</i>	good
1 15W	+0 56	1	92	G0	1-1-1	set 2 <i>Plate not focus on 60. Suspicious</i>	look?
0 50W	-10 00	1-0	87	A2	1-1-1	set 8 " <i>non guiding</i>	look
1 43W	+40 15	1-0	89	G7	1-1-1	set 8 <i>Delay 4 of clock.</i>	good look
1 47W	24 20	0	107	F0	1-1-1	set 2 <i>Delay 4 of clock.</i>	look
0022W	50 41	0!!	2.9	A2	1-1-1	" 8 "	too weak

12/8

*Set 8 plate not properly
 in holder. Poor focus as result
 Giving trouble
 cloud + haze from SW*

*subsequent test showed
 Focus OK*

*1.P.H. + 7 E.S.W.
 13 C.S.W.S.
 2.H. on H.*

	MC	SC	WCC	SW	SW	S
Nov 14	+33.2	+86.2	-15.0	-2 ^m	+20 ^S	+102.5
19	+07.7	+31.6	-8.0	-7.0 ^m	+7 ^S	0 ^S

Dome Temp. 43°F

Transparency Conditions Poor to heavy

286

Focus 15.523

Dome Temp.

Nov. 21

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

Focus 12.720

Focus 15.544

File 20.35 25" is

Filt. 23.15

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																																										
11.5	4 36W	+47° 33'	0	(4.3)	ck5+A	3 ^s -3 ^s -3 ^s	Ed. ... set 2 ... with 4" clouds they were thick ... clear (copy) 19" 30"-20" 20"																																											
11.16	4 56W	"	"	"	"	3-3-3	set 5 Clearing somewhat 20" 10"-20" 10"																																											
11.17	05 01W	"	"	"	"	3-3-3	set 8 more the cloud 20" 10"-20" 15"																																											
11.28	5 12W	"	"	"	"	3-3-3	set 2 Clearing 20" 15" - Intermittent Cloud.																																											
11.37	5 43W	"	"	"	"	3-3-3	set 5 Intermittent Cloud - Limit hour angle set 9 straight																																											
							3 plate holders left empty.																																											
							#3 plate holder contains E103aD																																											
							<table border="0"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>WNE</td> <td>SW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>Nov 28</td> <td>-4.6</td> <td>+9.1</td> <td>+0.2^s</td> <td>+1^m</td> <td>+15^s</td> <td>+6.3</td> </tr> <tr> <td></td> <td>NE</td> <td>SE</td> <td>WNE</td> <td>SW</td> <td>SW</td> <td></td> </tr> <tr> <td>Nov 26</td> <td>-13.2^s</td> <td>+38.0^s</td> <td>-3.8^s</td> <td>0^m</td> <td>+3^s</td> <td></td> </tr> <tr> <td></td> <td>NE</td> <td>SE</td> <td>WNE</td> <td>SW</td> <td>SW</td> <td>S</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	WNE	SW	SW	S	Nov 28	-4.6	+9.1	+0.2 ^s	+1 ^m	+15 ^s	+6.3		NE	SE	WNE	SW	SW		Nov 26	-13.2 ^s	+38.0 ^s	-3.8 ^s	0 ^m	+3 ^s			NE	SE	WNE	SW	SW	S	Nov 21	+5.8	+19.4	-7.0	0 ^m	-18 ^s	-16.7	
	NE	SE	WNE	SW	SW	S																																												
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	NE	SE	WNE	SW	SW																																													
Nov 26	-13.2 ^s	+38.0 ^s	-3.8 ^s	0 ^m	+3 ^s																																													
	NE	SE	WNE	SW	SW	S																																												
Nov 21	+5.8	+19.4	-7.0	0 ^m	-18 ^s	-16.7																																												

287

Date 1952 Nov. 28-29 Fri.-Sat. Observer We - 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.
19841	32 Cygni	20 ^h 12 ^m	+47°34'	I-25	E-103-0	0.008	-0.2			
19841	40 57267 Focus 2A	07 15.4 O.T.R.	+26°21'	I-25	E-103-00	0.008	-1.2	04 08	04 22	3
19841F	Sat. Nov 29 Focus 2A			Hdr We	checking on focus. Harpud		-3.3			2

ome Temp. 28°F
 focus 15.442 15'63" unres, focus set, changed to
 ome Temp. 26°F 15.432 after one hour exposure.
 15.475 as hd read it next morning.

Transparency Conditions
 Open at up and closed up after
 breaks in clouds failed to develop
 (several times) Fri - Sat, Nov. 28-29
 26th.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			(4.3)	CK5TA			
3 25 15	26 14	0-1	8.20	G0	33-3	AG, alt 1 10/5 <u>Not to be used for radial</u>	line 2.5% of to red
						Des 204 Eastern 1.2 frames	
	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-103	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	32 Cygni test	OTB	30/20							

Transparency Conditions

Dome Temp. 27 °F

Focus 15.421

Dome Temp.

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17:55	2 ^h 40 ^m W	+47° 33'	0.5/1	(4.3)	ck5+A	3 ^s -3 ^s -3 ^s	Let 2 Ed, bin, scattered C, particularly in first part of 1. App.	fine 2100
18:52	2 ^h 56 ^m W		0-1			3-3-3	Let 5 sec #1 19 8 3 (second) for field photo.	fine 2100
18:54	3 ^h 00 ^m W		1			3-3-3	Let 8	fine 2100
19:12	4 ^h 13 ^m W	"	2-0.1	"	"	6-6-3	Let 2 Cs scanned in at 19 ^h 40 ^m (reduced mag)	fine 2100
19:13	5 ^h 57 ^m		0.1/1	"	"	6-6-6	Let 5 Closing 20 ^h 40 ^m - 20 ^h 45 ^m , then in 5 min	sub w right

Plot hole #3 B-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.
19844	32 Cygni	20 ^h 12.4 ^m	+47° 24'	I-25	E-103-D	0.008	-2.1	17 ^h 48 ^m	19 ^h 00 ^m
	"						-2.1	19 ^h 00 ^m	19 ^h 22 ^m
	"							19 ^h 22 ^m	19 ^h 27 ^m
19845	32 Cygni	"	"	"	Hi-Speed	"	-2.2	17 ^h 27 ^m	21 ^h 27 ^m
	"							21 ^h 27 ^m	21 ^h 47 ^m
19846	HD 12897	02 01.2	+25 51	"	E-103-D	"	-2.1	21 ^h 0 ^m	23 ^h 20 ^m
19847	AE Aurigae	05 07.7	+34 12	"	Hi-Speed	"		23 27	23 47
19848	HD 36424	05 26.9	+32 44	"	E-103-D	"	-2.1	23 49	24 11
19849	HD 52720	07 38.1	+23 34	"	E-103-D	"	-2.0	0 30	0 110
19850	HD 33353	04 41.8	43 06	"	"	"	-2.0	0 12 7	0 31 0
19851	AE Aurigae	05 07.7	+34 12	"	Hi-Speed	"	-2.2	0 3 19	0 2 31
19852	HD 36424	05 26.9	32 44	"	E-103-D	"	-2.2	0 3 43	0 4 05
19853	H.D. 57267	07 15.4	26 31	"	"	"	-2.2	0 11 12	0 5 57
19854	" 83780	09 29.1	7 24	"	"	"	-2.3	0 6 15	0 6 45
	From Tent 0.7 hr.								

Dome Temp. 22°F

Transparency Conditions *Clouds dark but long*

Focus 15.419

Dome Temp. 41.4°F

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:00	3 ^h 05 ^m W	+47° 33'	0.11 (4.3)	ok	A	3-3-3	Ed. Bin. Set 2	fine to 40
19:05	3 ^h 30 ^m W		0.11			3-3-3	Ed. Bin. field.	fine to 40
19:10	3 ^h 34 ^m W		0.11			5-4	Set 8	sub
19:15	3 ^h 36 ^m W		0.11		"	6-6-6	Set 2	fine to 40
19:20	3 ^h 38 ^m W	+26° 04'	0	7.9	G5	3-6-3	AG 25. <i>found plate that was req. etc.</i>	fine to 40
19:25	3 ^h 42 ^m E	+34° 15'	0	(5.5)	O8	6-6-6	Pec. 4m. Set 2	poor
19:30	3 ^h 57 ^m E	+32° 44'	0	6.5	A2	3-3-3	Sp. Bin. Set 2	poor
19:35	4 00 E	40 09	0	6.9	F2	3-3-3	Sp. Bin. Set 2	good
19:40	4 09 W	43 11	0	8.3	Gop	3-3-3	B. Bin. * Set 2	fine
19:45	4 11 W	39 14	0	(5.5)	O8	6-6-6	Pec. 4m. Set 2	sub
19:50	4 38 W	33 44	0	6.5	A2	3-3-3	Sp. Bin. Set 2	good
19:55	4 41 W	26 13	0	8.29	G0	3-3-3	A.G. complete Set 2	sub
20:00	4 36 W	40 07	0	6.90	F2	3-3-3	Sp. Bin. Set 6	fine
						12/8	Set 9	very
							Hor N. 3PH + 2 E	

Dome Temp. 24°F
 Focus 15.414
 Dome Temp.

Transparency Conditions cloudy at start of night

Ending Time
 P.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
5 ^h 49 ^m W	+47° 33'	0!!!	(4.3)	ck54A	3-3-3 ^s	Set 5 red, bin. Clear moon except for few thin drifting Ci (but gradually thickening in ground) Eyes stopped at 1st change. later reached 2nd peak.	fine to poor																												
2 ^h 07 ^m E	+34° 15'	1-0	(5.5)	08	6-6-6	Set 2 red, bin. Delayed by clouds. Can be seen with binoculars. First observed Ci at approx 23 ^h 25 ^m , and later Alu	not numbered																												
1 ^h 37 ^m E		1			6-6-6	Set 8 sky improving after 23 ^h 00 ^m																													
1 ^h 16 ^m E		1			6-6-6	Set 2 sky clear after 23 ^h 55 ^m time. quiet star. Ci at same Alu moving in slight																													
0 ^h 58 ^m E	+32° 40'	1	6.5	A2	B-3-3	Set 2 sky clear after 23 ^h 55 ^m time. quiet star. Ci at same Alu moving in slight																													
						at 4 ^h 10 ^m Hall 4 E-1030-0																													
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MYU</td> <td>STU</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>+0.2</td> <td>-29^S</td> <td>+12.2^S</td> </tr> <tr> <td>5</td> <td>-17.3</td> <td>+32.2</td> <td>+14.2</td> <td>+0.2</td> <td>-33^S</td> <td>+16.2^S</td> </tr> </table>		MC	SC	MYU	STU	SW	S		S	S	S	m			Dec. 3	-13.8	+22.0	+10.2	+0.2	-29 ^S	+12.2 ^S	5	-17.3	+32.2	+14.2	+0.2	-33 ^S	+16.2 ^S	
	MC	SC	MYU	STU	SW	S																													
	S	S	S	m																															
Dec. 3	-13.8	+22.0	+10.2	+0.2	-29 ^S	+12.2 ^S																													
5	-17.3	+32.2	+14.2	+0.2	-33 ^S	+16.2 ^S																													

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.
19859	32 Cygni	20 12.4	47 24	I-25	E-10300	Set .008	+3.5	18 13	19 33	1
								19 33	19 57	2
								19 57	20 03	3
19860*	M.W.C. 83	04 10.1	45 58	"	"	"	+3.5	20 26	21 36	2
19861	M.W.C. 88	04 37.3	40 36	"	"	"	+3.5	21 43	21 53	2
19862	M.W.C. 107	05 15.8	37 35	"	"	"	+3.5	21 58	22 50	3
	Focus Test					0.713				
	* Wrong star. This is HD 26907 which is south component; we need north.									

Time Temp. 36
 Press. 15.46
 Time Temp.
 Angle
 End
 40W 47
 43W
 45W
 21E 46
 15E 40
 40E 37

ome Temp... 36°F

ocus... 15 489

ome Temp.....

Transparency Conditions *Hazy clouds at sunset.* 298

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 32	4 08W	47 33	1	4.3	CKs+A	3-3-3	Set 1	fine to H _β
19 57	4 32W					3-3-3	" 5	fine to H _β
20 03	4 38W					3-3-3	" 10	fine to λ4000
20 38	2 11E	46 06	1	8.6	B3ne	3-3-3	Set 2 Be prog.	str
20 53	1 58E	40 41	1	6.1	B4ne	3-3-3	Set 9 " " <i>2. poor guiding</i>	line
21 00	1 40E	37 36	1	7.4	Bone	3-3-3	Set 2 " " <i>Poor guiding</i> <i>hazy + clouds</i>	(good) all right

P.H. A passed with 103

Dome Temp. 32 °F

Focus 15.484

Dome Temp.

Transparency Conditions Very poor (cloudy) 300

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
5 ^h 44 ^m W	+47° 35'	0.20!!!	(4.3)	CK5A	3 ^s 3 ^s 3 ^s	Ecl. Bin. <u>Antares</u> appeared through clouds. Effective mid-exposure about <u>13^h 40^m</u> . Exposure stopped a short time before telescope tube would touch <u>mount</u> in.																						
				24/16	148	Holders 1, 2 E 1032-0																						
						14/15 E-1032-0 and some <u>in focus</u>																						
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SE</td> <td>MM</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>-16</td> <td>+13.9</td> </tr> </table>		MC	SE	MM	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	-16	+13.9	
	MC	SE	MM	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	-16	+13.9																						

Dome Temp. 29°F

Transparency Conditions.....

302

Focus 15.451

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 36 ^m	+40°34'	0-0.1	(4.3)	CK5TA	3 ³ 3 ⁵ 3 ³	<p>Col. bin. Operat. with hesitation because of earlier snow on the tent. Delayed by difficulty in opening shutter. Considerable thin clouds developing trails on focal test.</p> <p>One of roller beds that holds secondary camera broke when opening up.</p> <p>Roller 2 E-1030-0</p>	

Dome Temp. +34°F

Focus 15.477

Dome Temp.

Transparency Conditions *Passing light clouds*

304

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
4 36W	47 33	0	4.3	CK5TA	3-3-3	<i>Much cloud</i>															
	"	0	"	"	3-3- 24/16	<i>at 2.5 about 5 mins of clear sky thick at 19.55 PH. 4 loaded with 1030.0</i>	<i>from 7.4/4250 taken at 19.55, but all right</i>														
						<table border="0"> <tr> <td></td> <td>MC_S</td> <td>SC</td> <td>HYW_S</td> <td>STU</td> <td>SW</td> <td>SE_S</td> </tr> <tr> <td><i>Dec. 17</i></td> <td>-2.7</td> <td>+13.6</td> <td>+14.8</td> <td>0^m</td> <td>+18^S</td> <td>+7.8</td> </tr> </table>		MC _S	SC	HYW _S	STU	SW	SE _S	<i>Dec. 17</i>	-2.7	+13.6	+14.8	0 ^m	+18 ^S	+7.8	
	MC _S	SC	HYW _S	STU	SW	SE _S															
<i>Dec. 17</i>	-2.7	+13.6	+14.8	0 ^m	+18 ^S	+7.8															

Dome Temp. +30°F

Focus 15.447

Dome Temp.

Transparency Conditions Fair at first

306

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 35	N 3 53	47 33	0	4.3	CKs-1A	3-3-3	Set 1	fine to 1880
18 55	N 4 14		0.1			3-3-3	" 5	poor guiding fine to K-h
19 01	N 4 20		/			3-3-3	" 9.	poor guiding fine to 1903
19 16	N 4 36	46 39	/	5.0	A2	3-3-3	" 2 } Per Ubbles. (we)	fine
19 38	N 5 09	45 38	0	6.9	K0	3-3-3	" 9 } cloudy from start * gone 1958	fine
							PH #2 loaded 2103.0	

307

Date FRIDAY, DEC 19, 1952 Observer Wm - 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.
19070	32 Cygni	20 12.4	+47°24'	I-25	E103a-0	^{SET} 008	+0.3°	17 24	13 51	2
							+0.4	18 55	19 25	
								19 25	19 35	
{ 19871	32 Cygni		"	"	"	"	+0.3	19 35	20 30	3
{ 19872	HD 19 485	03 523	+25 13	"	"	"	+0.4	20 38	23 08	
	Focus test					O.T.B.				
19872	HD 50 352	04 411	+43 06	"	E102-a	^{SET} '008	-1.0			

Home Temp. +4°

Slightly different from summer observing.

Transparency Conditions Good

310

Focus 15.565

Home Temp. +4°

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03W	+40 10	0	6.70	F2	3-3-3		good
58W	27 37	0	8.70	G5	6-6-6	clouds 5.45	too wide
					3-20		Center dim, hard to red
						#2 - H. Speed	
						#3 - F10300	
						#4 - F10300	

Dome Temp. +22 F
 Focus 15.367
 Dome Temp.

Transparency Conditions O.K.

312

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 ...	line 11/11																					
						H. on M.																						
						P#1 #2 H. Speed #4. = 11300																						
						<table border="1"> <thead> <tr> <th></th> <th>HL</th> <th>EC</th> <th>HYU</th> <th>STW</th> <th>SW</th> <th>S</th> </tr> </thead> <tbody> <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>30</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> </tbody> </table>		HL	EC	HYU	STW	SW	S	Dec. 29	-3.5 ^s	-7.7 ^s	+19.5 ^s	-1 ^m	+4 ^s	-7.9 ^s	30	-3.2 ^s	-8.6 ^s	+20.0 ^s	-1 ^m	-1 ^s	-6.8 ^s	
	HL	EC	HYU	STW	SW	S																						
Dec. 29	-3.5 ^s	-7.7 ^s	+19.5 ^s	-1 ^m	+4 ^s	-7.9 ^s																						
30	-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 -8.4 ^s +13.1 ^s .0 -25.1 ^s -3.0 ^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. 33°F

Transparency Conditions *good*

314

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 43 W	47 34	2	4.3	MC+A	3-3-3	set 2	3900
2 26 W	31 00	2	75-77	F5-G2	3-1-3	set 8 TUCAN	Poor guiding
1 30 W	15 54	2	6.70	F5	3-3-	set 2 Sp. bin 1975 beaming used	good Controlled all right
					12/8	set 8	
						Plu hr 3. E1060	
0 35 W	46 14	1*	8.3	G0p	3-3-3	set 2 MC+A + 2 MC+A ^{Fl. 5000}	wrong star. Identified as HD 30308
0 45 W	26 13	1-2	8.20	G0	3-3-3	set 8 Comp. MC	* Variable 0-1-2
0 34 W	40 10	0	6.70	F2	6-6-6	set 2 Sp. bin	0250 date TUCAN Some H ₂ O
					2-1/16		0547 Cl. 1 from W. & dust just found
						P.H. #1+2 loaded E103-10 + 2	
						? Missed	
						MC 3 50 3 11 3	SW 5 5
						Jan 14 -1.7 -27.9 +9.3	- .4 2 +9 -22.7

315

Date Jan 16/17 Fri - Sat. 1953 Observer *McK - 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	20 124	+47 24	I 25	E102-a-0	^{alt} .002	-1.4	18 03	19 25	1
19886	{ HD 2507 30308	00 009	+50 44	"	"	"	-1.8	18 45	20 05	2
19887		04 413	+43 08.9	"	"	"	-1.8	20 24	22 24	
19885	{ HD 11494	05 269	+32 04	"	"	"	-2.0	22 21	22 55	3
19886	{ HD 11495	05 097	+34 12	"	"	"	-2.0	22 20	22 24	
19887	{ HD 57061	07 154	+26 21	"	"	"	-2.0	22 52	05 07	4
19888	{ HD 22180 Focus lost OTR	09 291	+40 24		HP25					

Dome Temp. +17°F

Transparency Conditions *good*

316

Focus 15403

Dome Temp. +12°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 47 W	47 34	0	4.3	CK5+A	3-3-3		<i>fine</i> <i>4050</i>
3 08 W	51 02	0	7.5-8.7	F5-B23	3-3-3	set 2 Tulas	<i>weak</i>
1 06 W	43 14	0	8.2	80-p	3-3-3	set 9 <i>Not</i> <i>at</i> <i>all</i> <i>in</i> <i>the</i> <i>see</i> <i>sketch</i> <i>for</i> <i>plate</i> <i>#</i> <i>19879</i>	<i>too</i> <i>weak</i>
0 52 W	83 44	0	6.5	A2	3-3-3	set 2 Sp. bin.	<i>too</i> <i>weak</i>
1 38 W	34 15	0	6.0	05	3-3-2	set 8 Rec. bin.	<i>too</i> <i>weak</i>
5 15 W	26 14	0	8.39	80	3-3-3	set 2 <i>Clouded</i> <i>in</i> <i>5:40^{pm}</i>	<i>too</i> <i>weak</i>
<hr/>		0	6.90	F2		set 2 <i>Clouded</i> <i>in</i> <i>5:40^{pm}</i> <i>Center exp. weak</i>	<i>too</i> <i>weak</i>
					10/7	<i>1 PK loaded - #1 with Hi Speed</i> <i>Need 200 - 200 plates</i>	

Date Jan 20/21 1953 Observer Ho - 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.
19888	32 Cygni	20 12.4	+17 24	I-25	F10320	^{lit} .008	-0.5	18 07	18 25	2
19889	{ HD 30353	04 41.8	+13 06	"	"	"	-0.6	19 05	20 45	3
19890		03 02.8	25 13	"	"	"	-0.7	20 57	23 45	3
19891	{ AE Aur	05 09.7	+34 12	"	"	"	-1.5	22 53	00 13	4
19892		HD 36444	05 26.9	-32 44	"	"	"	-1.8	00 22	00 56	4
19893	{ " 82780	09 27.1	+12 24	"	as per	"	-2.0	01 05	02 55	1
						of 3				
<p>Plunger on Spectrograph will not push all the way home.</p>										

Date Temp. ?
 Focus 14.437
 Date Temp.

Star Angle
 End

[Handwritten mark]

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

Transparency Conditions... Good

Trouble setting temperature control delayed start slightly.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
205 50 W	—	0.00	4.3	K5+A	3-3-3	Dec Clamp stuck fields differ spectrograms show there to be more K ₀ ? 19850 is correct	fine
210 18 E	43 11	0.2	8.3	20 p.	3-3-3	Bidelman - Plates #19884 + 19879 are wrong!	fine
214 22 W	25 25	1	8.7	G5	3-3-3	Set 7 - Sp. bin. - a little light cloud.	fine
214 3 W	34 15	0.1	6.0	O8	3-3-3	Set 2 - Pae Var. } Back of film or	fine
210 30 9 W	32 45	0	6.5	A2	3-3-3	" 8 Sp. Bin. } <i>fine guiding</i>	fine
210 10 7 W	40 10	0!	6.0	F ₂	6-6-6	" 2 Sp. Bin. } <i>fine guiding</i>	fine

3 P.H. loaded E103a0
 H. on M.

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

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

319 Ro = DR. NANCY ROMAN, YERKES OBSERVATORY.

Ro

Date Jan 26/27 1953 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
19894	32 Cygni	20 124	47 21	F-12	F-10320	008				
19894	H0 15721	02 86	10 13				-4.8	18 15	19 04	
19895	729° 734	04 403	129 07				-4.8			

J

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

Focus 12.925

Dome Temp.

Transparency Conditions

High Atmos. Halo and 320

Jan 26 Changed to
12 1/2" Camera

{ 25" over Focus 15.435
Sept 23.15

12 1/2" Focus 12.925
Sept. 20.35

Reading Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			4.3	CK5A		Out of the question - too low west. north pier.	
0 57 ^W	-10 02	0	87	F0	1-1-1	High Velocity Set 2	v. squeak
		0	95	B99		Cloudy	
						1 Pl. loaded with 103	
						110 50 14.22 5.22 5.22 5 Jan 25 10.2 ^S -43.6 -11.0 0.0 ^m -32.4 ^S ^S ^S ^m ^S 30 10.7 -50.1 -16.8 -0.1 43 ^S -38.3	

323

Date Feb. 3, 1953 Tue 1953 Observer We. Ro 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
19897	+54°3090	23 54.8	+54°45	12 1/2	103a0	.008	-5.7	18:27	21:00	
19897f	Focus test									
19898	HD 30353	04 ^h 41.8	+43° 06	"	"	"	-6.0	21 ^h 25 ^m	21 ^h 51 ^m	4
19899	HD 29527	04 34.5	+41 37	"	"	"		21 ^h 56 ^m	22 ^h 10 ^m	
19900	+55° 920	5 0.2	+55 18	"	"	"	-6.1	22 ^h 21 ^m	22 ^h 41 ^m	1
19901	+58° 1177	9 39.5	+58 21	"	"	"		24 ^h 35 ^m		1

ome Temp: 21°
 locus... 12.925
 ome Temp.....

Transparency Conditions *had at beginning, poor later* 324

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+55° 0'	0	9.1	A0	1 ^s -1 ^s -1 ^s	low after 19:45 - stopped by clouds	very weak
						4-6	Clear again	
1 ^h	43 ^m W	+43° 10'	1	8.3	B ₉₀ P	1 ^s -1 ^s -1 ^s	Set 2. Billmark stars, see chart for 989	
2 ^h	10 ^m W	+42° 30'	1	7.95	B ₂	1-1-1	Set 8. 1st set, stars.	
3 ^h	14 ^m W	+55° 14'	0	9.4	G ₂ V	1 ^s -1 ^s -1 ^s	at 2.5 H.V. star	weak
		+58 06	0	9.7	G ₀	1- -	Set 8. Obscured by clouds, H.V. star	very weak

1 back plateholder (used in 1932)

	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

ome Temp. $+27^{\circ}\text{F}$
 ocus 12.915
 ome Temp. $+25^{\circ}\text{F}$

my focus 12.915

Transparency Conditions *good*

328

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5:05	$+54^{\circ} 21'$	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>	

Transparency Conditions *variable*

330
5.2

ome Temp. *80*
ocus *18.75*
ome Temp.

Ending Time A.S.T.	Hour Angle End	Declination	Seeing	Ftg. Mag.	Sp.	Comp.	REMARKS	Quality
	<i>02 18 W</i>	<i>19 02</i>	<i>1</i>	<i>.89</i>	<i>30V</i>	<i>1-1-1</i>	<i>at 2</i> <i>0005</i> Considerable cloud <i>0010</i> Can't see a thing <i>0117</i> solid	<i>1 week</i>
						<i>4/3</i>	<i>Set 7</i> <i>0219</i> "	<i>center of the field</i>

331

Date *Jan 16 and Feb 17/18* Observer *Ro - 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.
17705	HD 26162	4 03.3	+19° 21'	12 1/2	103a0	.008	-3.4	18:37	18:45
17706	HD 30353	7 41.8	+43° 06'	"	"	"	"	19:15	19:20
17707	X 1922	9 34.8	-1° 47'	"	"	"	-1.1	19:32	19:06
17708	HD 71721	8 40.4	+13° 58'	"	"	"	-2.7	23:18	01:22
	<i>Trans. Sat</i>				<i>a/B</i>				

Home Temp. 123.0 F
 Focus 12.920
 Home Temp.

Transparency Conditions good set 2.1.15 ... from 19:15

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^W 3	+19° 28'	15	6.5	K1	1-1	standard vel. set 2	fine
1:03	+13° 12'		8.3	G0p	1-1-1	Bidelman's star set 7	fine
1:03	-1° 26'		10.1	G7V	1-1	high vel (HR) observed 19:40, 20:30 mag. 21:15	weak
01:13 W	+13° 25'		8.7	B9	1-1	Imido 21:55 set 7	good
					4/3	set 9 01:15 quite faint	poor
						4 P.H. ...	

	NE	SE	NW	SW	S
Feb. 15/53	+5.2 ^s	+5.4 ^s	+17.0 ^s	+3 ^m	+27 ^s
20/53	+5.8 ^s	+6.0 ^s	+11.0 ^s	+2 ^m	-30 ^s

~~71 ...~~
~~for 10 minutes ...~~

333

Date Mar 22, 1952 Observer do Julian Day 195

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17709	HD 30353	04 ^h 45 ^m 8	+43° 06'	I 125	F5E300	let " "	02.0	20 ^h 42 ^m	21 ^h 55 ^m	2
19910	+19° 1749	07 24.6	+19 10	"	"	"	02.1	22 03	23 05	3
19911	HD 86986	09 57.1	+14 02	"	"	"	02.0	23 11	23 21	3
19912	HD 104817	11 59.1	+02 01	"	"	"	02.0	23 55	24 05	4
19913	+22° 2442	12 03.7	+22 21	"	"	"	02.2	00 38	01 21	4
19914	+14° 4771	14 36.7	14 02	"	"	"	02.0	04 45	06 05	4
	<i>From list</i>					0.5 B.				

Dome Temp. +33°F

700 focus at 12.910

Transparency Conditions

Low

Focus 12.920

Dome Temp.

[12.910] 400

Clouds clearing at 30' (approx.)

Ending Time
E.S.T.

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.	fine
01 34 W	+19 02	0	8.9	GO V	1-1-1	High Velocity * focus changed to 12.910. Set 3	fine
10 22 E	+14 46	3-2	8.1	A X	1-1-1	High Velocity *. Some very light clouds. Set 8	fine
1 33 E	+01 41	1	7.7	A 2	1-1-1	High Velocity *. Clouds clearing. Set 2	fine
02 29 W	+2 00	1	10.2	GO	1-1-1	High Velocity * Set 8	fine
01 24 W	+13 46	0	9.0	GO V	1-1-1	Set 2	fine

4/3

1 P.H. + 3

H. M.

	NE	SE	W	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

Date Sept 11/1900 Mar '12 Observer Ro - Hv Julian Day 244225

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17915	HD 26162	4 3.3	+19°21'	12 1/2	103a0	1008	-4.8	2:52	17:02	7
17916	+29°734	4 40.3	+29°07'	"	"	"	-2.8	1:49	22:17	7
17917	HD 26172	8 50.4	+15°32'	"	"	"	-2.7	1:22	21:12	7
17918	HD 100363	11 27.8	-11°29'	"	"	"	-1.6	0:17	21:17	7
17919	" 142575	15 50.2	+06°23'	"	"	"	-1.5	0:21	23:45	7
	<i>Faint handwritten notes</i>									

Dome Temp
Focus
Dome Temp
Hour Angle
End

Dome Temp... +17°

Focus... 12.710

Dome Temp... +8

Transparency Conditions *thin cirrus clouds*

336

Reading Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>(2.00)</i>	+19° 26'	0.1	6.45	K1	1-1-1	standard velocity	weak
<i>4.00^N</i>	+29° 12'	0.1	9.5	B9	1-1-1	HR high velocity <i>lightning</i>	too weak
<i>1.00^N</i>	+33 25	0.2	7.9	B9	1-1-	Hi. Vel.	weak
0038W	-1148	0.1!	8.9	A2	1-1-1	Hi. Vel. set. 7	too weak
0145E	+0512	0.1!	7.0	F2	1-1-1	" " " 2	<u>too weak</u>
					4/3		
						IPH located	
						PH located	
						PH	
						02.05 Very heavy	
						MC SC MTW STW SW S	
						March 6 -0.7 +22.9 +6.8 +2.1 ^m +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 asteroid Bidelman's star	1 wk
1:00 ^W	19 41	2	8.29	F5	1-1-1	ret 9 1st vel.	1 strong
2:14 ^W	50 41	1	9.6	50	1-1-1	ret 2 1st vel. range 100-150 mi/sec	100 wk
1:25 ^W	12 48	1-2	10.0	(F2)	1-1-1	ret 5	weak
0:48 ^W	-1 58	2	9.2	F3V	1-1-1	ret 2	1 wk
1:07 ^W	5 12	2	9.0	F0V	1-1-1	ret 5	weak
						4/3 at 10 mi/sec	
						2 nd H. 100 mi/sec	

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

Transparency Conditions *good*

340

Focus *12.910*

Dome Temp. *+21*

thin mist curtain across in western clouds with some light

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
<i>1:42^w</i>	<i>+19°26</i>	<i>1</i>	<i>9.45</i>	<i>K1</i>	<i>1/2-1/2</i>	<i>standard set 2</i>	<i>weak</i>														
<i>3:12^w</i>	<i>+29°13</i>	<i>1-2</i>	<i>9.5</i>	<i>B9</i>	<i>1-1-1</i>	<i>to right tel set 7</i>	<i>very weak</i>														
					<i>4-3</i>	<i>set?</i>															
						<i>clouded P.A. (10:00)</i>															
						<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><i>March 16</i></td> <td><i>-0.2^s</i></td> <td><i>-3.1^s</i></td> <td><i>+9.8^s</i></td> <td><i>+1.1^m</i></td> <td><i>-25.3^s</i></td> <td><i>-4.3^s</i></td> </tr> </table>		MC	SC	MTW	STW	SW	S	<i>March 16</i>	<i>-0.2^s</i>	<i>-3.1^s</i>	<i>+9.8^s</i>	<i>+1.1^m</i>	<i>-25.3^s</i>	<i>-4.3^s</i>	
	MC	SC	MTW	STW	SW	S															
<i>March 16</i>	<i>-0.2^s</i>	<i>-3.1^s</i>	<i>+9.8^s</i>	<i>+1.1^m</i>	<i>-25.3^s</i>	<i>-4.3^s</i>															

Dome Temp. 122°F

Transparency Conditions

Good

342

Focus 12.910

Dome Temp. -20

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 45	1 02 W	-01 27	0	10.1	G7V	1-1-1	High velocity.	very good
25 30	1 04 E	-11 47	0	8.9	Ae	1-1-1	" "	good
	01 57 W	+02 19	0	9.6	F5	1-1-1	" "	good
	02 31 E	-02 03	0	9.2	A3V	1-1-1	" " SEE 2245 Windy	fine
	01 31 W	+11 47	0	9.0	G2V	1-1-1	set 2	good
	00 47 W	+37 15	0011	7.62	G8	1-1-1	Std. Vol. set 2	good
						4/3		
							2 PH Loaded.	
							H - M.	

345

Date Mar 1918 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	0.08	+5.9	19:10	19:16	2
{ 19936	HD 30353	4 41.8	+43 06	"	"	"	5.7	19:20	19:24	3
{ 19937	HD 75530	8 45.4	-50 9	"	"	"	5.8	19:57	20:16	4
{ 19938	+25° 1421	8:38.5	+25° 0	"	"	"	5.8	20:22	20:44	4
{ 19939	H.D. 126181	14 21.9	-175 7	"	"	"	5.5	01:02	03:50	1
{ 19940	H.D. 142115	15 50.2	+25 21	"	"	"	5.4	03:57	05:41	1
	<i>Focus</i>	<i>Test</i>			<i>O.F.B.</i>					

347

Hi-Altitude program 22^h45 - 23^h15

Date Mar 22/21 1952, Fri-Sat. Observer Ar-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.
19941	-10° 34' 50"	12 16.0	-10° 55'	12 1/2	E 2-a-0	SEL	+3.5	23 36	00 42	2
19942	HD 126681	14 21.9	-17° 57'	"	"	"	+3.8	00 51	03 45	2
19943	HD 145001	16 3.6	+17° 19'	"	"	"	+3.6	03 54	04 00	3
19944	HD 142575	75 50.2	+5° 23'	"	"	"	+3.5	04 20	05 35	2

Dome Temp. 24.0 F

Focus 19.0

Dome Temp. +2.6

Transparency Conditions

good

Mon. 18-19 Cloudy with
only some fog in
clouds, although very
bright at times just visible
much of time. No long obs.
attempts. C.M.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 42	00 00	- 11 13	1	8.6	(A0)	1-1-1	net -	linear
03 45	00 52W	- 18 11	0	9.9	G0	1-1-1	Set 8, High Velocity - Ground fog	linear
04 00	00 32E	- 17 11	00-1	6.12	G4	1-1-1	std Vel. Set 2 (sub) bright, faint rows of double	that fine
05 00	01 18W	- 16 10	0	9.0	F0V	1-1-1	High Vel. Set 8 - Heavy mist. (forgot about focus test when set 8, did not waste another plate on focus test)	good
							2 PH's loaded E103 a0 Need new pencil.	

Date *Mar 21-22 1953* Observer *L-1* 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-8	E-103A0	set .008	+60°	21 35	22 25	4
19946	" 97916	11 10.7	+02 06	"	"	"	+60°	22 30		
	HD 105121	15 14.0	-01 38	"	"	"	+60°	21 44		1
	HD 105121	15 14.7	+14 05	"	"	"	+60°	22 51	24 27	
	HD 105121	15 14.7	+14 05	"	"	"	+60°	23 31	25 05	
	Focus Test									
<p>March 24, Hd-L-Hz. changed to I-8 aerial camera lens</p>										
19948F ₁	Focus Test		Tilt -20.35	I-8	E103A0, old	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	OTB
" F ₄	"		focus 7.6			sets 0, 1, 3, 5, 7, 9, 10 1/2		Tilt: dist	20, 22, 24, 26, 28, 30	
	Skay					E-103A0 sets 0 2 4 6 8 10, 1/2, 1/2			12 5 10 sec	

Home Temp. 40°F

Focus 12.910

Home Temp. 40°F

Transparency Conditions variable, improving

350

Delayed start because of light clouds and haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 03W	14 47	0	8.1	AIV	1-1-1	High Velocity	good
1 52W	102 19	0	9.6	F3	1-1-1	" " " Light haze	good
1 52E	102 20	0-1	9.2	AIV	1-1-1	" " " "	good
1 52W	12 42	1	8.0	BIV	1-1-1	" " " "	good
0 03W	17 10	1	8.2	BIV	1-1-1	" " " "	good
						1/3 11:10	all night
						2 // 11:10	all night

I-12 focus was 12.910 Tilt 20.35-

	HC	SC	MPW	SPW	SAW	S
March 24	-1.52	5	+19.38	+5 ^m	-4.0 ^s	+2.7
27	-6.8 ^s	+4.3 ^s	+19.0 ^s	+2 ^m	+27 ^s	+2.7

Time 2 sees.

" 4 +

O.T.B. 8/6.

" 8/8

Focus 7.6 Tilt 20.00

Transparency Conditions

Dome Temp. 34°
 Focus 12,910
 Dome Temp. 22°

Handwritten notes:
 No. 12,910
 hr. ...
 ...
 ...

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
+ 47°	+43° 12'	0.1	2.3	Gup	1-1-1	...	good
5	40 43	0.1	2.1	Py	...	...	good
12 03 W	19 17	0.1	3.1	4iv	...	...	good
12 14 W	20 21	0.1	2.2	4iv	...	...	good
12 24 W	20 51 0	0	3.0	5iv	...	...	good Bright

UPPER
 Lower
 March 31

MC	SC	MYW	STW	S	SW
-9.2 ^S	-1.1 ^S	+21.6 ^S	+3 ^W	-1.3 ^S	+13 ^S

Date 1953 April 3 Phoenicia, Pa. 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.J.
19958	HD 30353	04 ^h 41 ^m .8	+13° 06'	I 12"	103aD	slit -008	+7.8C	19 ^h 44 ^m	21 ^h 17 ^m	1
19959	HD 144517	11 ^h 59 ^m .1	+02° 01'	"	"	"	7.6	21 25	22 10	
19960	HD 30353	04 41.8	+13 06	"	"	"	7.6	23 17	24 45	2
	2-in. Tent. C.T.B.									
1953 April 4 Sat. N-We										
About 30 visitors; partly cloudy, clearing, so that visitors saw Peter; then clouded again. Closed at 9:15.										

Dome Temp. +43°F.

Transparency Conditions Poor - Cloud streamers all over sky

Focus 12.910

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
4 55 ^m	43° 12'	000	8.3	Gop	1-1-1	Bidelman's star - Windy with scattered clouds.	fine												
1 24 ^m	01 45	00	7.9	A2	1-1-1	High Velocity - det 8 - same clouds.	good												
4 05^m	11 14	00	8.6	A0	1-2	High Velocity - det 2 - at aught stand - 3.4^m	Too weak												
							all right												
						2 P.M. loaded 5:00 AM - 5													
						Hex M.													
						<table border="0"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>HW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>April 7</td> <td>-9.8</td> <td>-34^S</td> <td>+13.2</td> <td>+2^m</td> <td>-34^S 9.9</td> </tr> </table>		NE	SE	HW	SW	S	April 7	-9.8	-34 ^S	+13.2	+2 ^m	-34 ^S 9.9	
	NE	SE	HW	SW	S														
April 7	-9.8	-34 ^S	+13.2	+2 ^m	-34 ^S 9.9														

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

Transparency Conditions *Good*

360

Focus *12.910*

Dome Temp.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 59 W	43 13	0	8.3	GO P	1-1-1	Set 2.	Bidelman's star.	fine
0 48 W	-11 47	0	8.9	A ₂	1-1-1	" 8	High velocity star	too weak
01 02 W	36 11	0	?	F _{4n}	1-1-1	" 2	Ecl. Binary	I, not
03 41 W	+12 49	0	10.0	(F ₂)	1-1-1	" 7	Hi. V. l. <u>0339 C1</u> + H ₂ O	too weak
					4/3			all right
							3 PH. Load + H	
							H ₂ O M.	

Dome Temp. 14.7°C

Transparency Conditions Some clouds

362

Focus 12.910

Wed April 8 1953

1" Focus 12.910
12.5" was Focus 15.585
25" is
Filt 20.35 Filt. 23.15

Dome Temp.

Changed to 25" camera

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Fig. Mag.	Sp.	Comp.	REMARKS	Quality
						Changed to 12.5" camera	
1 36.5	56 23	0	8.26	80	-1-	21.5" - 22"	l. end
						22.5" - 23"	all right
						1 34.5	
						April 10	
						MC SC UVA SWL S	S 40
						-10.5 +4.3 +10.0 +0.1 +7.1	-7.5

Dome Temp. +43
 Focus.....
 Dome Temp.....

About 35 visitors
 showed 5 cameras +
 5 Keos with 74" lens with 4"

Transparency Conditions.....

Sat April 11 1955 Changes 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° 37'	1	5.1	K ₀	2-2-2	Set 1 Ho's Binary Proj	ok
							Set 5 Apparatus stopped by cloud.	too sh
							Set 7 Through cloud	too sh
	1 ^h 03 ^m W	+34° 30'	0	6.7	K ₂	2-2-1 1 1/2	Set 2 Through ^{thin} cloud after 22 ^h 17 ^m . Best 2nd. after 22 ^h 23 ^m .	Too weak Focus ok
							4 PH loaded, box needed Mon 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	16 Aur M 96	05 11.6	33 17	I.25	E103a0	608	+7.1	19 31	19 37	1
								19 34	19 38	
								19 55	19 46 1/2	
19968	B 2490 M 191	09 11.7	-05 56	"	"	"	7.1	19 56	20 42	2
19969	6 Gem. M 162	07 37.0	29 07	"	"	"	+7.1	20 49	20 53	3
								20 53	20 59	
								20 59	21 13	
19970	λ Hya M 199	10 05.7	-11 52	"	"	"		21 18	21 20	4
								21 20	21 24	
								21 25	21 35	
19971	η Gem. M 129	06 08.8	+22 32	"	"	"		21 43	21 47	1
							+7.0	21 48	21 58	
19972	γ C. Min M 152	07 22.8	09 08	"	"	"	+6.9	22 08	22 22	2
								22 23	22 29	
19973	B 3180 M 228	12 06.7	26 25	"	"	"	+6.9	22 36	22 46	3
								22 47	23 17	

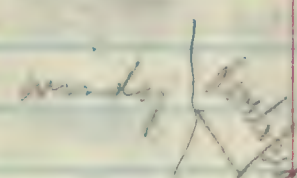
Dome Temp. +41 F
 Focus 15.535
 Dome Temp.

Transparency Conditions Fair

366

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	22 50	0	4.8	K3		set 1 Ho's Binoculars	weak
						5	weak
3 41 W					1-2-2	9. Clouds	l. weak
W 38 ^m	-6 10	0	5.4	K4	1-2-2	set 1 Ho's Bin.	l. weak
	28 59	0	4.3	K1A		" "	good
						" 5	
					2-2-2	" 9	
	-12 09	0	3.8	G9		" "	good.
						" 5	
W 26 ^m		0			2-2-2	" 9	
						" 1 "	good
W 4 56	22 34	0	3.5	M3	6	" 5	
	9 50	0	4.6	K4	6	" 1 "	l. weak
W 4 14						" 7	
	26 13	0	5.8	K4		" 1 "	good
1 17 ^m					1-2-2	" 7	



Dome Temp.....

Transparency Conditions.....

368

Focus.....

Dome Temp.....

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0335	49-31	0	8.4	K5	22-2	30+1 His binnic (gold shaded)	lucal good
			5.5	K4			
0350	0745	0			22-2		
0400	1046	0	8.7	K6	22-2		l wh Focustat.
					3/6		

April 14

HC	SC	MTW	STW	SW	S
-11.3	+4.5	+4.0	-.1 ^m	-32 ^S	+8.3

369

Date Tues. Wed. Apr. 14-15, 1953 Observer W. E. - 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.
19977	HD 30253	4 ^h 41.2	+43° 26'	I-125	E-0240	0.008	5.8 C	20 ^h 04	21 ^h 00	1
19978	HD 100363	11 ^h 27.8	-11° 29'	"	"	"	5.5	21 ^h 19	23 ^h 00	3
19979	HD 117000	13 28.1	-18 00	"	"	"	5.4	23 ^h 03	00 57	3
19980	" 136274	15 14.7	+26 04	"	"	"	5.7	01 06	01 50	2
19981	" 136901	15 18.1	+25 57	"	"	"	5.7	01 51	02 37	2
19982	" 147207	16 00.0	+25 30	"	"	"	5.7	02 44	03 04	1
19983	" 157183	16 50.1	+25 48	"	"	"	5.6	03 10	04 00	1
19984	" 157510	17 00.8	+25 14	"	"	"	5.7	04 25	04 45	4
	<i>From List of O. F. B.</i>									

Dome Temp. 41.0°F
 Focus 12.9.10
 Dome Temp. +36

Transparency Conditions Very clear as good

370

Just April 14 changed to 12.5 camera
 Focus 15.535 12.2 as
 25 was July 23.15
 Focus 12.910
 July 20.35

Ending Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 31 ^m W	+43° 10'	1-	2.3	Gop	1-1	Edwards star. in catalog of Gillette 19960	fine
0 ^h 5 ^m W	-11 46	1-0	8.9	A2	1-1	Star 2. Perseus high red star	good
0 ^h 11 ^m W	-18 15	0	9.1	(A0)	1-1	Star 2. Perseus high red star	l. str
0 ^h 13 ^m W	25 52	1	8.30	G0	1-1	Star 2 A.R. 15	fine
0 ^h 23 ^m W	25 47	1	2.22	A0	1-1	"7	fine
0 ^h 24 ^m W	25 34	1	7.78	G0	1-1	"2	str
0 ^h 37 ^m W	25 40	0-1	8.79	G0	1-1	"7	l. str
0 ^h 42 ^m W	25 40	1	7.51	A0	1-1	"5	fine
					4/3	"9	fine

1 P.H. Labeled
 Photo Mounted
 Has M.

Dome Temp. 34°F

Transparency Conditions

Focus 15.7

Dome Temp.

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
7:40	22 41	0	22	30	1-1	not in the field of view	l. with														
7:20	-15 50	0	20	15-18	1-2 4/3	1.7 1.9	medium central to avoid														
2 P.M. +12																					
H. on N.																					
Lower Heat Air temp. 50°F.																					
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>NMC</td> <td>SW</td> <td>SW</td> <td>S</td> </tr> <tr> <td>April 17</td> <td>-14.2</td> <td>+4.6</td> <td>+1.6^s</td> <td>-1^m</td> <td>-7^s</td> <td>+8.4^s</td> </tr> </table>									MC	SC	NMC	SW	SW	S	April 17	-14.2	+4.6	+1.6 ^s	-1 ^m	-7 ^s	+8.4 ^s
	MC	SC	NMC	SW	SW	S															
April 17	-14.2	+4.6	+1.6 ^s	-1 ^m	-7 ^s	+8.4 ^s															

Dome Temp... +36°F

Transparency Conditions good

374

Focus... 12.910

Dome Temp... -28°F

from 50 - all night

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	45W	+02 19	0	9.6	F5	1-1-1	set 2 <u>at</u> velocity <u>sp. section 4.5-7.0</u>	at
1	47W	13 48	0-1	9.0	G25	1-1-1	" " "	at
0	14E	4 51	0	9.70	K0	1-1-1	set 2 4.5-5.5	fine
0	16W	26 32	0-1	8.42	K0	1-1-1	set 5 "	at
						4/7		all night

315

Date Mon Apr 20-21/53 Observer H.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.
19991	HD 101968	$\frac{11}{18}$ 39.0	30 27	I-12	E10300	008	+3.7	22 48	23 12	4
	"		note slit width \rightarrow			016		23 14	23 26	
						024		23 27	23 35	
19992	HD 124346	14 05.0	29 12	"	"	508	+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 $\frac{1}{2}$	01 24 $\frac{1}{2}$	

Dome Temp

Focus

Dome Temp

Hour Angle
End

W13

U312

377

Date Tues. Wed. Apr. 21-22, 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.F.
19794	HD 30353	4 ^h 41.8	+43° 06' 12.2"	"	L-1030-0	0.007	+7.2°C	20 ^h 05 ^m	21 ^h 05 ^m	1
19795	HD 107813	12 18.2	-6 29	"	"	0.016	7.3	21 19	22 27	1
19796	HD 117830	13 22.1	-18 40	"	"	"	7.4	23 35	00 32	1
19797	HD 117830	13 06.0	+36 28	"	"	0.008	7.4	00 43	23 53	3
19798	HD 31059	20 02.7	-16 03	"	"	0.016	7.4	03 24	07 21	1
						0.008				

Dome Temp. 44°F

Transparency Conditions

Focus 12.910

Dome Temp. 37°F

378

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6 ^h 01 ^m W	+43° 11'	1.50	8.3	Grop	12-17	20 ^h 25 ^m ... fine	
1 ^h ...	-6° 42'	0	9.8	(A2)	1/2-3/4	2 Comp. ...	good
0 ...	-18° 15'	0	7.1	(A0)	1/2-3/4	2 Comp. ...	good
0 33 ...	-76 10	0	?	F4n G-8	1-1-1	Ecl. Bin S.T.2 ...	good but ...
0 15 ...	-155 3	0	4.74	G-8	1-1	Hi-wal ...	weak
					4/3		3/4
						How ...	
						3 ...	
						plate ...	

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

Transparency Conditions *Good - a little cloud in west*

Focus *12.910*

Dome Temp.

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
<i>06^h 12^m W</i>	<i>+43° 12'</i>	<i>0</i>	<i>8.3</i>	<i>G0F</i>	<i>1-1-1</i>	<i>Let's Star being in delayed starting time is not ^{Slight Flexure} L work</i>																						
			<i>9.9</i>	<i>50</i>		<i>Let's stop it. Two near went to see field</i>																						
<i>01 05W</i>	<i>25 24</i>	<i>0</i>	<i>8.75</i>	<i>G5</i>	<i>1-1-1</i>	<i>Let's AG. (var) - some cloud - through cloud. ^{good}</i> <i>22^h 45^m → Clouding in from the west,</i> <i>(too cloudy even for std. red with redwood shot)</i> <i>4PH loaded + 8 with comp.</i>																						
						<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>April 29</td> <td>-12.2^s</td> <td>+3.6^s</td> <td>-9.2^s</td> <td>-0.4^s</td> <td>-14^s</td> <td>+11.4^s</td> </tr> <tr> <td>May 1</td> <td>-12.3</td> <td>+3.2^s</td> <td>-10.8^s</td> <td>-0.4^s</td> <td>-26.8^s</td> <td>+12.0</td> </tr> </table>		MC	SC	MTW	STW	SW	S	April 29	-12.2 ^s	+3.6 ^s	-9.2 ^s	-0.4 ^s	-14 ^s	+11.4 ^s	May 1	-12.3	+3.2 ^s	-10.8 ^s	-0.4 ^s	-26.8 ^s	+12.0	
	MC	SC	MTW	STW	SW	S																						
April 29	-12.2 ^s	+3.6 ^s	-9.2 ^s	-0.4 ^s	-14 ^s	+11.4 ^s																						
May 1	-12.3	+3.2 ^s	-10.8 ^s	-0.4 ^s	-26.8 ^s	+12.0																						

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

Transparency Conditions

*Very good for...
 light...
 things...*

Reading Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 03 ^m W	+21° 16'	5	7.7	G0	1 ^h 2 ^m 1 ^s	2x8 Comp. sp. on AG-program... <i>0120 same as last from N.W.</i>	good but 2x8 strange
3 ^h 37 ^m W	+21° 00'	1	8.9	G0	1 ^h 1 ^m 1 ^s	2x8 AG-program	good
2 ^h 31 ^m W	+20° 27'	5	8.8	G0	1-1-1	} both stars in Victoria's spires at same time. = T? No. could be stars in... 2x8 program... 4/3	good
1 ^h 12 ^m W		5	2.8	F2	1-2-		good
						2x8 H+S	all right
						H = 0.11.	
						HC _s 50 Max _s 97W _s 514 S Mag _d -12.1 +2.3 -14.8 -4 -12.0 +12.9 Mag _E Strongly visible & good +14.4	

Dome Temp. 61°F.
 Focus 12.912
 Dome Temp. 52°F

Comparison made with other
 stars in program with 11.00
 in 24^h at 21^h 22^h 23^h 24^h
 24^h 15^m bright around center
 in 24^h 15^m bright around center
 in 24^h 15^m bright around center

Transparency Conditions Clear but very hazy
 Hazy but very clear after 23^h

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
— W	—	0.1	8.3	GOP	1-2	at 5 ^h 54 ^m dropped into telescope little bit of noise in the 7.5 ^h 15 ^m little bit of noise in the 7.5 ^h 15 ^m little bit of noise in the	1.5
5 ^h 21 ^m W	+29° 16'	0	8.5	G5	1-1-1	at 8 ^h 15 ^m 15 ^m 15 ^m 15 ^m 8 ^h 15 ^m 15 ^m 15 ^m 15 ^m 8 ^h 15 ^m 15 ^m 15 ^m 15 ^m	1.5
2 ^h 18 ^m W	+12 50	0.1	10.0	(F2)	2-2	at 10 ^h 15 ^m 15 ^m 15 ^m 15 ^m 10 ^h 15 ^m 15 ^m 15 ^m 15 ^m 10 ^h 15 ^m 15 ^m 15 ^m 15 ^m	2.0
0 ^h 16 ^m W	+17 "	0.1	6.1	G4	3-3	at 5 ^h 15 ^m 15 ^m 15 ^m 15 ^m 5 ^h 15 ^m 15 ^m 15 ^m 15 ^m 5 ^h 15 ^m 15 ^m 15 ^m 15 ^m	1.5
0 45 W		"	"	"	2-2	at 8 ^h 15 ^m 15 ^m 15 ^m 15 ^m 8 ^h 15 ^m 15 ^m 15 ^m 15 ^m 8 ^h 15 ^m 15 ^m 15 ^m 15 ^m	1.5
					2 1/2	at 10 ^h 15 ^m 15 ^m 15 ^m 15 ^m 10 ^h 15 ^m 15 ^m 15 ^m 15 ^m 10 ^h 15 ^m 15 ^m 15 ^m 15 ^m	1.5
						4 P.H. + 4	
						H. 10.0 10.0 10.0 10.0	
						Mag. -11.5 +1.2 7.8 -2.2 -1.2	

387

Date Wed May 6-7 1953 Observer L. H. ✓ Julian Day 217.5

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-10360	set 016	19.6	22 00	0030	1	0046W
20014	" 136274	15 14.7	26 04	"	"	.008	19.3	0040	0147	2	0000
20015	" 136901	15 18.4	25 59	"	"	"	19.2	0147	0247	2	0000
20016	" 166683	18 06.7	29 04	"	"	"	19.2	0252	0346	3	0019W
	<i>John</i>					05.19					

Dome Temp. 15.205

Transparency Conditions

Focus 12.912

Dome Temp.

Start delayed because of clouds at sunset.

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
3046W	-18 09	0-1	9.9	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	High Velocity <i>Spectrum very faint some faint spots</i>	<i>wh</i>																					
2153W	+25 50.5	0	8.30	G0	1-1-1	A.G. Flexure	<i>good</i>																					
59 2W	35 47	0	322	K0	1-1-1	7 " "	<i>wh</i>																					
00 12W	29 03	0	8.57	G-5	1-2	2 " " Very Much	<i>wh</i>																					
					$\frac{1}{3}$	1 P.H. 1-1 H. or M.																						
						<table border="0"> <tr> <td></td> <td>nc</td> <td>sc</td> <td>mc</td> <td>sw</td> <td>sc</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>+0.6^s</td> <td>-13.3</td> <td>-3^m</td> <td>-32^s</td> <td>+17</td> </tr> </table>		nc	sc	mc	sw	sc	s		^s		^s				rays	-11.7	+0.6 ^s	-13.3	-3 ^m	-32 ^s	+17	
	nc	sc	mc	sw	sc	s																						
	^s		^s																									
rays	-11.7	+0.6 ^s	-13.3	-3 ^m	-32 ^s	+17																						

Dome Temp. +64°F

Focus 12.912

Dome Temp. 53°F

Transparency Conditions

Fair

390

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	29W	25° 17'	0	887	G5	1-1-1	set 2 45-25	slight haze
0	41W	24° 51'	0	856	K0	1-1-1	set 8 "	slight haze
1	47W	25 39	0-1	891	C2	1-1-1	set 2	slight haze
0	57W	24 35	2-1	891	K0	1-1-1	set 2	good
0	11W	17 08	2	871	K4	1-1-1	set 2	slight haze
0	14E	25 57	2	872	K0	1-1-1	set 2 42-25	slight haze
0	14E	24 00	2	877	C2	1-	set 2	slight haze
						1/3		

Earlier observation of this star 5.15 PM.

41 40 W 20 40

Dome Temp... 70° F

Transparency Conditions... Fair

392

Focus... 12.912

150 microns { 8 Leo + Saturn with the 70" (Saturn very good)
Saturn with 4"

Dome Temp... 64° F

Ending Time
2.1.7

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
71 00W	+24° 27'	0	8.3	G5	1-1-1	A.G. <i>Set 2</i> <i>Corrected</i> <i>by</i> <i>1/2" by 1/2" by 1/2" by 1/2"</i>	<i>2nd</i>
72 00W	+24° 28'	1/2	8.7	G6	1-1-1	A.G. <i>Set 8</i>	<i>2nd</i>
73 00W	25 55	2-1	8.8	G8	1-1-1	" <i>Set 2</i>	<i>fine</i>
74 00W	25 51	1	8.20	G0	1-1-1	" <i>8</i>	<i>fine</i>
75 00W	27 19	1	8.1	G4	1-1-1	<i>Set 2</i> <i>Set 2</i>	<i>best</i>
76 00W	29 30	1	8.57	R2	1-1-1	<i>Set 2</i> <i>Set 2</i>	<i>fine</i>
					4/2	<i>Set 2</i>	<i>all right</i>

393

Date Sun May 10-11 Ad Observer Ad - Hr Julian Day B

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 10-1817	11 59.1	+2° 1'	1-12½	E103aD	.008	+27.0	20 21"	21 57"	3	
{ 20031	HD 10-1813	12 18.2	-6° 29'	1-12½	"	.016		20 56"	22 16"	3	1/51"
20032	+13° 2688	13 35.0	+13 6	1-12½	"	.016	+27.1	22 22"	20 52"	4	1/11"
{ 20033	H.D. 13622	14.2 15 16.5	+02 09 +01 57	"	"	.008		01 01"	01 02"	1	
								01 03 45"	01 05"	1	
								01 06"	01 05"	1	
{ 20034	" 14505	16 03.6	17 19	"	"	.008	26.2	01 07"	01 07"	1	
								01 05	01 07	1	
								01 31"	01 40	1	
20035	" 172531	20 07.7	-15 43	6	"	.016	26.6	01 58"	02 22"	2	
	<i>Focus Test</i>				O 973.	.008					

Dome Temp. +72 °F

Transparency Conditions Fair

394

Focus

Dome Temp. +61 °F

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1° 45' W	+1° 42'	0	8.3	A ₂	1-1-1	Set 2 Hi Vel.	1.0	
2216 W 51 ^m	-5° 13'	1	9.0	A ₂	1-1-1	Set 8 Hi Vel.	1.0	
02 11 W	+12° 18'		10.0	(A ₂)	1-1-1	" 2	1.0	
			5.74 mag	G ₀		" 2	1.0	
		0-1			3	" 5 SW Vel.	1.0	
30 00 W						" 2	1.0	
			6.12	G ₄		" 2 Southern + Brighter of pair	1.0	
30 22 W					3	" 5 SW Vel.	1.0	
	+17 10	0-1				" 8	1.0	
21 16 E	-15 34	0.1	9.4	G ₅	1-1-1	" 2 N.P. ...	1.0	
					4/3	" 9	1.0	
1 P.H. + 48								
H ₀ A ₁								
			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	+3.2 ^s

395

Date Wed. - Sat. May 15-16, 1953 Observer W.C. ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Skid	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20036	BD 125819E1	8 ^h 28 ^m 5	+25° 10'	7 1/2"	L 103-C	0.010	16.9 C.	20 ^h 33 ^m	22 ^h 27 ^m	4
20037	BD 135121	15 ^h 14 ^m	-1° 48'	"	"	"	16.9	22 ^h 35 ^m	00 ^h 35 ^m	
20038	HD 125819E1	8 28 5	+25 10	"	"	"	17.0	00 45	01 37	}
20039	HD 135121	15 14	-1 48	"	"	"	16.7	01 41	02 11	
20040	HD 125819E1	8 28 5	+25 10	"	"	"	16.7	02 24	02 54	
20041	HD 135121	15 14	-1 48	"	"	"	16.8	03 02	04 02	
	FOCAL 125819E1	B								

Dome Temp.
Focus 12
Dome Temp.Hour Angle
End

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

Transparency Conditions

Very high transparency, but not perfect. Some light haze, but very high transparency. Some light haze, but very high transparency.

Ending Time
 E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	12 ^h 10 ^m W	+24° 58'	0	7.6	(FO)	$\frac{25}{3} \frac{25}{3} \frac{25}{3}$	at 2. 3rd - end (Roman). <i>Very faint? Spectral type?</i>	ok
0	14:14	-3° 21'	1	6.2	A7	$\frac{2}{3}$	348.	ok
2	34 W	+29 24	0	7.95	SC	1-1-1	AG + 25°	fine
1	26 W	25 23	1	7.98	SC	1-1-1	ok	fine
1	08 W	48 07	1	7.76	SC	1-1-1	ok	fine
0	14 W	32 09	1.0	8.15	SC	1-1-1	ok	fine
						$\frac{4}{12}$	ok	all right

MC₅ -14.2 SC₅ -2.2 M4cc +27.3 S₁₀₀ +3^m S₄₀ +10^s S₅ +4.5^s

Dome Temp. 63°F
 Focus 12.912
 Dome Temp. 55°F

Sat, May 16

Transparency Conditions

Sa, L with about 50 visitors. Totally cloudy. After telescope demonstration gave 1/2 hr lecture, followed by vigorous discussion.

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 56 ^m W	-11° 0'	0.1	2.6	(A)	2/3-3/4	H2. Prominent right-shoulder	h-1
0 ^h 56 ^m N + 0	33	1	(2.6)	(B)	2/3-3/4	H3. " "	h-1
					10/3	10. SET. sky top photos	all right
						1 P.H. Laidler. Plates Mounted.	
						H&K A:	
						May 17 15 ^h 52 ^m 110° 0' 17"	
						Comparison spectra still to be a little work	

399

Date May 14, 1952 Tue - 141 Observer W. - H. Julian Day 141

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Exposure	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
50044	HD 190621	14 01.4	-07 57	2 1/2	EBR-2	10.6	2.2	00 51	01 17	
50045	HD 190625	16 02.2	-05 02	2	"	"	2.8	01 17	01 17	
50046	" 191069	20 02.9	-16 00	"	"	"	3.0	01 27	01 57	
50047	" 190621	16 01.6	-07 57	"	"	"	"	03 20	03 20	
50048	"	"	"	"	"	"	3.5	03 20	03 20	
	Focus Test				3 1/2					

Dome Temp

Focus

Dome Temp

Hour Angle
End

Dome Temp. 74°F

Focus 15.0

Dome Temp. 65°F

Transparency Conditions good

400

Target: ...
in Alt at 2.2/2.4

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 11 W	-12 11	0	11.5	(20)	1-1-1	20 0 40-40-200	Comp. fine-etc
005 20	+05 12	0	20	500	1-1-1	7 - 11 -	Comp. note fine
0135 E	-15 51	0	20	500	1-1-1	4 - 1 -	Comp. note l note
		0	61	500	3	2 5+1 1-1	Comp. fine fine
0255 W	+17 09	0			4	7	Comp. note fine
					4/3	2 1/1 + 8	all right

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

Focus 12.912

Dome Temp.

Transparency Conditions *Light haze*

402

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 56W	+27°11'	0	8.37	K ₅	1-1-1	AG. 25 Set 2	Comp. not used
1 ^h 32W	+27°51'	2	8.72	G ₁	1-1-1	AG. 25 Set 3	Comp. not used
0035E	+29°03'	0	8.57	G ₅	1-1-2	AG. 25 Set 2	Comp. not used
					2/3	Switch to Spotter viewing	not used
						PH F-1	
						11:11	
						May 11	

Dome Temp. 51°F
 Focus 12.912
 Dome Temp. 50°F

Transparency Conditions *Poor*

404

about 200 visitors. Showed G h with
 74" x 5" (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

Ending Time
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
23 56 11 3 13 W	+24:40	0	8.70	Mo	1-2	AG light clouds and haze, heavy clouds 23 ^h E-4 Phoned weather office. said it would be partly cloudy all night.	<i>low</i> <i>light</i> <i>clouds</i>																					
						3 pl loaded																						
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HPW</td> <td>SPW</td> <td>SW</td> <td>S</td> </tr> <tr> <td></td> <td>^S</td> <td>^S</td> <td>^S</td> <td></td> <td></td> <td></td> </tr> <tr> <td>May 26</td> <td>-17.7</td> <td>-11.8</td> <td>-9.9</td> <td>-5^{PL}</td> <td>+4.9</td> <td>-37^S</td> </tr> </table>		MC	SC	HPW	SPW	SW	S		^S	^S	^S				May 26	-17.7	-11.8	-9.9	-5 ^{PL}	+4.9	-37 ^S	
	MC	SC	HPW	SPW	SW	S																						
	^S	^S	^S																									
May 26	-17.7	-11.8	-9.9	-5 ^{PL}	+4.9	-37 ^S																						

405

Wellmann

Date Wed/Thurs 27/28 May Observer Mo - 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.
20053	UV Leonis	10 ^h 33.0	+14 47	1-12 $\frac{1}{2}$	E103-A0	.016	14.1°	20 55	22 55	2
20054	HD 130766	14 44.9	+25 35	"	"	.008	14.0	23 04	23 34	2
20055	HD 136901	15 18.1	+25 59	"	"	"	14.0	23 37	00 37	3
20056	" 154510	17 00.8	28 14	"	"	"	13.9	00 44	01 30	"
20057	" 166623	18 06.7	29 04	"	"	"	13.9	01 35	03 25	4
	<i>3</i>	<i>7</i>			<i>0.75</i>					

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

Transparency Conditions clean at beginning

406

Focus 12.922 *Focus at 12.922*

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

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 55	4 23 W	+14 30	0	8.5-9.3	G ₀ -G ₂	1-1-1	Ecl. Bin. <i>Comp. at end Defect on HV Flexure 22:45</i> light clouds	<i>not</i>
23 34	0 51 W	+25 19	1	8.06	K ₀	1-1-1	AG-25 <i>Comp. at end</i>	<i>not</i>
00 37	0 120 W	+25 47	1	8.22	K ₀	1-1-1	" set 2 <i>Comp. at end</i>	<i>not</i>
0 10	0 03 W	29 08	0	7.56	K ₀	1-1-1	" <i>Comp. at end</i> <i>no good guide</i> $\frac{0.155}{0.155}$ cloud & haze Wind Rising S, SW, W, SE, E	<i>not</i>
0 52	0 12 W	29 03	0.1	8.57	G-5	1-1-1	" " 2 <i>Comp. at end</i> " 8.	<i>fine</i> <i>not</i>
						4/3		
							3 P.H.	
							H. on M.	

Dome Temp.....50 F.

Transparency Conditions *Poor*

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Focus.....

Dome Temp.....

Ending Time
L.S.T.

22 06

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
W042	-18.15	0 (10.5)	A0	1-1-1		Set 2. Light clouds at 22 ⁰⁰ mostly cloudy & closed 23 ⁰⁰ .	<i>just f</i>														
						<i>23⁰⁰ ... some 31-1. March</i>															
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MC</td> <td>SMC</td> <td>SC</td> <td>S</td> </tr> <tr> <td>May 29</td> <td>-18.1^s</td> <td>+23.5^s</td> <td>+39.3^s</td> <td>+0.1^m</td> <td>+29^s</td> <td>+31.5^s</td> </tr> </table>		MC	SC	MC	SMC	SC	S	May 29	-18.1 ^s	+23.5 ^s	+39.3 ^s	+0.1 ^m	+29 ^s	+31.5 ^s	
	MC	SC	MC	SMC	SC	S															
May 29	-18.1 ^s	+23.5 ^s	+39.3 ^s	+0.1 ^m	+29 ^s	+31.5 ^s															

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(Wallman)

Date Mon. Tues. June 1/2, 1953 Observer H. - H. 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.
20059	HD 136161	15 14.0	-01 48	I12 1/2	E103 20	slit 0.16	+19.7C	21 ^h 00 ^m	23 ^h 00 ^m	2
20060	V451 Oph	18 24.5	+10 49	I12 1/2	"Hi-Speed"	slit 0.08	+19.1	23 12	00 42	3
20061	H.D. 145001	1603.6	17 19	"	E 103-20	"	19.0	00 51	00 57	4
				"	"	"		00 57 ³⁰	01 06	1
				"	"	"		01 07 ⁰⁰	01 17	"
20062	H.D. 154510	1700.8	28 14	"	"	"	19.0	01 27	02 17	1
20063	170619	18 25.3	29 30	"	"	"	19.0	02 32	02 27	"
	<i>Focus lost</i>									

O.F.B.

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Ending Time
E.S.T.

413

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