

THIS PAGE INTENTIONALLY LEFT BLANK

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

reading)

ome Temp.

ocus

ome Temp.

our Angle
End

De

cus.....

Transparency Conditions.....

4

DAVID DUNLAP OBSERVATORY
74" LOGBOOK
VOL 21
PLATE NOS. 17816 - 18964
OCT. 1950 - MAR. 1952

Date Sat Oct 21-22, 1950 Observer W. G. — Julian Day 175

[illegible]

Dome Temp.....

About 150 vintons. Showed 4 with 74" (with 5,"
4 & (with 4" (about 2200 saw
#1 emerge from disk of 4.)

[illegible]

Date Thurs Oct 26-27, 1950 Observer Hd - Gu Julian Day

[illegible]

Dome Temp. 42 F

Focus 12.940

Dome Temp. 43.5 F

Transparency Conditions Good at first

8

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 33 2	W 136	29 41	0	8.40	G ₅ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
20 1	W 2 26	30 20	0-1	8.75	G ₅ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
21 07	W 2 06	28 24	0	8.89	G ₀ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	* faint	good
22 1	W 2 20	29 10	0	8.49	G ₀ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
23 2	3 24W	28 29	1-2	8.54	G ₀ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
24 4	1 19W	59 25	0-1	8.20	B _{3e} $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Be pro.	strong
25 2	2 04W	27 27	0-2	8.72	K ₀ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
26 3	0 39W	25 51	1-2	8.02	G ₅ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
27 4	1 29W	29 51	1-3	8.51	M ₀ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
28 5	2 06W	25 38	0	8.91	K ₀ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good

2/4

focus OK

4 PH's loaded, 4 in box.

Dome Temp...+50°F...

Transparency Conditions

Transparency Conditions Cloudy clearing after 2300
..... Curious. 10

ST watch 1^m slow approx

[illegible]

Date *Mon. Oct 30-31/50* Observer *L - Gu* Julian Day *2,433,585*

[illegible]

Dome Temp... +60°F

Focus... 12.940

Dome Temp... +50°F

Transparency Conditions

Fair

12

Rising Time
E.S.T.

19 30

20 33

21 31

22 45

23 57

00 03

01 34

02 28

03 22

03 46

04 19

05 12

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

1 37W 25 07 0 8.86 M3 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ AG. 250 57W 25 42 0-1 8.64 G5 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "1 03W 28 28 1 8.54 G0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "1 56W 26 38 1 8.83 K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "0 39W 28 14 1 8.85 K0 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "1 34W 30 31 0-2 8.72 G5 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "2 02W 26 02 1-2 8.91 G5 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " Should be a blank plate ^{Blank plate} no'd 178371 18W 41 33 0-1 7.2 Bsnr $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Be prog.1 11W 41 58 0-1 7.6 Bsnr $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "0 52W 30 28 0-1 7.5 Aorp $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "— 27 18 1-2 8.61 G5 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ AG. 251 23W 24 52 1 8.29 K2 $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "

2/4

Check this * position

3 P411's loaded, new two needed

Clock wound at 07:00 AM DST

fine

1 strip

1 strip

1 strip

1 strip

good

good

good

good

good

1 strip

1 weak

focus

Date Tues/Wed, Oct 31 - Nov 1, Observer CW Julian Day 2,433,586
1950

[illegible]

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

Focus..... 12.990

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

Transparency Conditions..... *Good at first*

14 ^c

Reading Time
E.S.T.

P.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2

1 57W

+25.38

0-1:

8.96

Ko

$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$

AQ

25

focus superposed over star spectrum

2/4

Cloud drifting in from West.

2TH loaded, new box in pie.

MC

SC

MTW

STW

MW

Nov. 1

-36.7

+26.3

-24.5

-0.5

-51^s

adv. 1 m.

Date Wed/Thurs, Nov 1/2, 1950 Observer C. W. Julian Day 2,933,587

[illegible]

Dome Temp.....

Transparency Conditions

Fair

16

inspected telescope & dome thoroughly before opening
and no moisture present, kept shutter open
1 hour before starting.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 21 3	1 21 W	+25 38	0-1	8.96	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	two wks
01 25	2.00 W	+25 47	0-1	8.33	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " few clouds from W.	wk
02 21	1 03 W	+25 50	0	7.92	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
03 21	1 32 W	+46 04	0-1	8.6	B(3) _{ne}	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Be Prog. no clouds 0-110	6 wks
				8.75	G ₅		AG 25 focus vertical	
						2/4	comp. wk	
							2 PHs loaded, 8 plates in box.	
							Sun Nov 5	
							Clouds early evening, clearing	
							came up at 9.20 with Ba.	
							Generator would not start.	
							Finally located and fixed	
							trouble, with Ba. Some contact	
							on busbar behind new fuse	
							block. Now OK. L.	
							Clouding over at 11.30	

Date Mon/Tues Nov 16/17 Observer Ho - 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.
17847	AG 13639	^m 22 ^m 36.8	^h 24 ^m 31	I-12	E10320	00°	+7.2	18 33	19 45	3
17848	HD 3565	00 33.5	44 07	"	"	"	+7.8	19 58	20 35	4
17849	HD 5049	00 47.3	46 35	"	"	"	+7.9	20 44	21 25	1
17850	HD 11095	01 44.0	43 48	"	"	"	+7.9	21 31	22 18	2
	H.D. 16532	02 34.0	+46 35	"	"	"	+7.9	22 31	23 11	5
17851	H.D. 16833	02 38.9	46 32	"	"	"	+7.9	22 31	23 11	5
17852	H.D. 17689	02 45.2	44 28	"	"	"	+8.0	23 21	23 55	7
17853	H.D. 22719	03 34.1	44 36	"	"	"	+7.9	00 05	00 39	1
17854	" 21913	03 26.9	33 00	"	"	"	+7.9	00 46	01 20	2
17855	" 26399	04 05.4	15 21	"	"	"	+7.9	01 25	01 59	5
17856	" 30409	04 42.3	44 03	"	"	"	+7.8	02 04	02 38	4
17857	" 39416	05 47.4	25 03	"	"	"	+7.7	02 44	03 58	1
17858	" 49365	06 43.0	28 39	"	"	"	+7.8	04 02	05 12	2
17859	" 69364	08 11.6	25 08	"	"	"	+7.7	05 18	05 40	3

Dome Temp. 76°

Focus 12.440

Dome Temp.....38°

Transparency Conditions *Fair*

18 11

Clouds cleared off at sunset, - high winds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 5	00 11 ^m E	29 48	0	8.63	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Left star of pair windy & image jumping around.	weak
20 35	01 15 E	44 23	0	7.9	A ₀	$\frac{1}{2}-\frac{1}{2}$	K.A.S. - I have concluded that charts $\approx$ 1950 pos ^{ns} (There are no 1950 d's before 0 hours)	Good
20 25	00 38 E	46 52	0	7.9	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	(234)	good
21 18	00 45 E	44 04	0	8.0	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Less wind. K.A. prog. ^{just deep in center} RA. read 2 ^h 39.9 ^{poor m}	1 wk
23 1	00 41 E	46 47	0	^{9.5} 7.9	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	K.A. - Field? Looked like A ₀ , so decided best to take it, after 2 checks.	
23 55		44 43	0 -	7.72	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	K.A. Prog. - Field O.K.	fine
00 39	0 13 E	44 46	0-1	8.0	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	KA. 23	
01 20	0 36 W	33 11	1	7.92	F ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 47	much too strong
01 59	0 36 W	15 30	1	7.8	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 72	strong
02 38	0 38 W	44 10	1	8.0	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 24	"
03 58	0 54 W	25 03	1	8.75	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25	
05 12	1 12 W	28 35	1	8.75	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	too strong
05 45		24 58	1	8.35	K ₀	$\frac{1}{2}-\frac{1}{2}$	" Clouds star gone at 0540	fine
							1 P.H. loaded + 8 14 on M	

Date..... Fri Nov 10/11, 50

Observer..Bu...

..Julian Day.....3596

[illegible]

Dome Temp.....

Transparency Conditions..... Variable cloud, 20
gradually clearing, some
fog. Then clouded over
again

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.48	KO		About 30 students from Staines Gu showed 74" & Jupiter with 4"	

[illegible]

Dome Temp.....32°F

Focus..... 12.940

Dome Temp.....

Transparency Conditions..... *Good at first*

22

Hydro Conversion to 60 v completed yesterday

Ending Time E.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 01	W 2 15	26 28	0	8.57	KO	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Spotter not available	fine
21 05	W 2 43	25 35	0	8.77	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Clouds most of time.	good
22 08	W 2 41	30 35	0	8.40	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " " "	good
23 12	W 1 27	25 29	0	8.48	KO	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Some haze.	fine
00 15	1 33 W	29 13	0-1	8.54	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " "	fine
01 11	0 47 W	33 10	0-1	7.92	F _e	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	K.A. 47 haze clouds.	
							3 PH's loaded Plates needed.	
							HMM	
							Sid Watch corr + 0.9	

Date Sun Nov 12/13 50 Observer Ba Julian Day 3598

Down Temp. ... 3
Fork ... 9.4
Down Temp. ...

[illegible]

Dome Temp.....32

Focus.....15940

Dome Temp.....

Transparency Conditions.....Clouds gradually clearing
after sunset. Some haze.

No Spotter

24

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0128W	29 33	0	8.07	K0	1-1-1	AC, Scattered cirrus? +	
0152W	26 46	K0	7.27	K0	1-1-1	" Transparency improved	good
0024W	31 22	0	8.0	F2	1-1-1	KA 44 * Good 2146 Hazy. Very hazy by 2135	much - excellent
						4 P.H. Horn	
						MC SC MTW STW SW Nov. 13 -42.0 +28.3 -02.2 +0.3 +15 reset (adv. 1m). reset	
						Spotter now in operation - L	

Done Temp. 3

Hour Angle
End

Dome Temp. + 36°F

26.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^W 14	+27 57	0+(?)	8.47	KO	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 Is this *double, or is the mirror astig- met?	good
1 ^W 19	+28 24	0+	8.70	KO	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 MIRROR IS ASTIGMATIC; this * ident + on	l. weak
2 ^W 09	+29 48	0+	8.72	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 Guiding very onerous	good
0 ^W 50	+26 11	1-	8.84	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 More haze	good
2 05W	+25 30	1-2	8.93	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
1 23W	+27 21	1	7.8	A0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	K.A. 47	Good
2 00W	+29 49	0	7.76	A0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	l. strong
	+17 42	0	10.0		$\frac{1}{2}-\frac{1}{2}$	Ba star gone at 03:45	too weak
						much haze & few clouds	
						<u>center of t. red</u>	
						9 PHb loaded, pull back	
						in filter.	
						Plate, bit a little too smugly in the shutter.	

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
17 877	AG 966	01 40.9	+29 03	L-12	E 1030-D	SET 008	+3.7°C	21 16	22 46	4	0° 32'
17 878	AG 1143	02 01.9	+29 09	"	"	"	+2.7	22 50	00 20	3	1 44 W
17879	H.D. 25977	04 01.7	13 16	"	"	"	+2.6	00 28	01 14	2	0 39 W
17880	" 33122	05 03.0	14 59	"	"	"	+2.7	01 48	02 28	1	0 52 W
17881	" 37404	05 33.3	45 39	"	"	"	+2.6	02 34	03 14	2	1 07 W
17882	" 48591	06 39.1	29 28	"	"	"	+2.7	03 21	04 19	3	1 07 W
17883	" 63495	07 44.1	28 59	"	"	"	+2.6	04 24	06 04	4	1 41 W
	(Focus Test					O T B					

Dome Temp.....+33°F

Focus.....12.9.40

Dome Temp.....

Transparency Conditions.....Good

28

Note - comp. tend to be l. weak
focus centre at 6 red.

Cloudy @ Sunset, clearing at 1830
St Mikes group (~60) at 1900. New Wm
showed (in 79") 2 in 5". Trouble
with light relay, fixed by L.

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^W 32	+29° 13'	0!	8.88	G0	$\frac{1}{2}-1-\frac{1}{2}$	AGR5	N.B Temp's. I think the first
1 44 W	+29° 24'	0	8.93	G5	$\frac{1}{2}-1-\frac{1}{2}$	AGR5	may have been recorded 1° higher than it was.
0 39 W	13 24	0	7.9	A3	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	KA. 72	clouds.
0 52 W	15 02	0	7.99	A0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 73	
1 07 W	45 41	0	8.0	A3	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 25	
1 07 W	29 24	0-1	8.64	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25	
1 47 W	28 51	0-1	8.98	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Hay
					3/2		
						4 PH's loaded + 4	
						H on M	

Date Sat Nov 18/19-20 Observer Ba - Cu Julian Day 3604

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
17884	HD 3081	00 28.9	31 05	L-12"	E 10300	.008	5.0	20 46	21 42	1	0043W 31
	HD 5334	00 50.1	46 36							2	
17885	HD 8047	01 22.1	31 28	"	"	"	4.8	22 12	23 12	3	0120W 3
17886	HD 17412	02 42.5	46 50	"	"	"	4.8	23 18	23 54	3	0043W 4
17887	HD 22280	03 30.1	29 40	"	"	"	4.8	23 58	00 53	4	057W 29
17888	²⁶⁰¹⁵ HD 26141	⁰²³ 04 03.1	⁰⁴ 17 01	"	"	"	4.8	01 04	01 26	1	053W 17
17889	HD 27532	04 15.7	29 25	"	"	"	4.6	01 29		2	053W 29
	FOGUE TEST	O.T.	B.								

Dome Temp.....

Transparency Conditions Cloud & haze slowly clearing. 30

Dome motor contracts stuck closed.

[illegible]

[illegible]

Dome Temp.....

Transparency Conditions

32

Plate holder #2 found in spectrograph.
~~Loaded in 2nd black box, no plate in it.~~
 Probably left in spectrograph by Baglioni, who had students ^{night} ~~Il~~ Pass on Sem. Nov. 19

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3			8.68	Ko	1-	Clouded up almost immediately	

Dome Temp. $+28^{\circ}F$

Focus.....12.915.....

Dome Temp.....

Transparency Conditions.....Fair

34

[illegible]

Date Fri Dec 1/2, 1950 Observer Wm - Julian Day 2 433 617

[illegible]

Dome Temp.....

Found dome unchained
36

Monday/Tues Dec 4/5: After fixing
on bright star at 21:30, found
water dripping from front of tube,
some landing on furber house. Could
not find the source, am afraid
murder might get splattered.
Translunary fair to good.
Temp. +28°F

Observer 142-L

..Julian Day

[illegible]

Four Angle
End

Dome Temp.....

Transparency Conditions..... *Good at Times*

38

Clouds after sunset, clearing 21.00 - 22.00.
Some twinkle turning down. Jammed by arrival?

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 58W	29 22	0-1	8.78	K0	$\frac{1}{2} \times 1 - \frac{1}{2}$	Haye and light clouds.	fine

Date Sun Dec 10-11, 1950 Observer Al - Gu Julian Day 2,433,626

[illegible]

Dome Temp. - 29 F

Transparency Conditions.....*Good*

40

Clearing from 2100 with haze at first.

[illegible]

Date Fr. July 50 Observer B Julian Day 150

[illegible]

Dome Temp.....

happy

42

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.00	1F2		Clouded over: as set on # 1930	
			7.7	40		Still darker than before 2040	
						Broken cloud continuing to roll up	
						2115 - giving it up.	
						Clear intervals with intermittent cloud on	

Dome Temp. 25

Focus 12.915

Dome Temp. 22

Transparency Conditions. Cloud clearing at sunset.
1744 44

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0035	W 31 23	-0	8.00	F2	1-1-1	KA 44 Considerable cloud 1855-1915	much too strong
			7.83	G0	1-1	KA 45 2000-2050 Followed by heavy haze & cloud.	fairly good
						APH. faint	centre to
						exposures for outside of focus that too STRONG.	

Date *Tuesday Dec 18-19/50* Observer *L-* Julian Day.....

[illegible]

Dome Temp.....

Transparency Conditions *light haze*

46.

Delay in starting, Strongren lost 1 min since checked earlier in the day!

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 40	2 11W	28 57	0	8.83	Go	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG.25	21.00 fine
2	1 39W	28 13	0	8.85	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	clouds star gone from 20.30 to more clouds.	fine

Date Wed Dec 20-21, 1950 Observer Nd-Gz Julian Day 243 3636

[illegible]

Dome Temp....+20.....

Transparency Conditions *none*

48

Alternately clear & cloudy earlier.

Reading Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12 5		0 59	30 29	0	7.5	40ep	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Re. Too cloudy to start next exposure. 1 PH Labeled	

Date Tues Dec 26-27, 1950 Observer Hol - L Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
17902	H D 3333	00 31.2	29 18	I-12	E103eD	.008	-12.0	18 37	19 45	4	W 11
17903	1+ AG 966	01 40.9	29 03	"	"	"	-12.0	19 48	21 18	7	W 13
17904	H D 14479	02 15.2	30 14	"	"	"	-12.0	21 21	23 01	2	W 24
17905	H D 32855-6	05 00.9	26 52	"	"	"	-12.0	23 05	00 05	3	1.03 W
17906	C P ORIONIS	¹⁹⁶⁰ 06 01.5	17 43	"	"	.016	-12.3	00 18	02 18	4	218 W
17907	H.D. 70402	08 16.7	27 51	"	"	.008	-12.3	02 29	03 41	1	124 W
17908	" B5428	09 46.6	25 36	"	"	"	-12.3	03 46	04 56	2	110 W
17909	{ " 95188	10 54.4	25 50	"	"	"	-12.3	05 01	05 45	3	050 W
	{ Focus Test				O.T.B.						

Dome Temp. +7 F

Focus.....12.915

Dome Temp.....+10 F

Transparency Conditions

Good - then poorer 50

S. C. going but wrong. Delayed.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 11	29 35	0	8.44	G5	$\frac{1}{2}-1-\frac{1}{2}$	Spotted frozen up - unclear.	good
W 1 35	29 18	0	8.88	G0	$\frac{1}{2}-1-\frac{1}{2}$		wk
W 2 43	30 25	0	8.89	G5	$\frac{1}{2}-1-\frac{1}{2}$		l. wk
1 03 W	26 56	0	8.51	A-G	$\frac{1}{2}-1-\frac{1}{2}$		l. wk
2 18 W	17 47	0	11.?	?	$\frac{1}{4}-\frac{1}{4}-\frac{1}{4}$	Ba's star some light clouds	fine
1 24 W	27 41	0	8.65	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	v. good
1 10 W	25 20	0	8.63	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
0 50 W	25 33	0	8.75	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" clouds, star gone at 5:45	l. wk
					$\frac{3}{2}$		focus ok
						4 PHs loaded + 12	
						14 on M	
						Plates 17903 - 17909 very clear black frame (H. P. H.)	

[illegible]

Dome Temp.....

of Samsul

52

Spotters still not functioning.
Night comes on or off irregularly.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0029		0002W	31 ²¹ / ₂₇	<0	8.00	FZ	1-1-1	KA 44 Telescope using, yesterday	...
0028		0028W	46 37	0	7.80	AO	1-1-1	KA 20 some haze	...
0100		0100W	33 13	0	8.0	AS	1-1-1	KA 45 Increasing (Haze 0) wind keeps blowing tel Ep. interrupted 1940-2055 in dec Increasing breeze wind at close down. No plate has been loaded as I assume spatter will be found on films.	...

Date Thurs. Dec. 28-29/50 Observer L-GZ Julian Day 2433.644

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.T.	Star Angle End
17913	H.D. 4312	00 40.5	25 38	I-12 $\frac{1}{2}$	E-103a-0	set 008	-5.0	18 23	19 13	1	0 39W
17914	" 10766	01 40.2	25 54	"	"	"	-5.0	19 19	20 13	3	0 40W
17915	" 14479	02 15.2	30 14	"	"	"	-5.1	20 18	21 16	2	1 08W
17916	" 20511	03 12.9	32 19	"	"	"	-5.1	21 28	21 58	4	0 52W
17917	" 27525	04 15.6	18 02	"	"	"	-5.1	22 04	22 30	1	0 22W
17918	" 39416	05 47.4	25 03	"	"	"	-5.1	22 37	23 31	2	0 10E
17919	" 45824	06 24.6	26 43	"	"	"	-5.1	23 37	00 31	3	0 14W
17920	" 47836	06 35.5	27 11	"	"	"	-5.1	00 37	01 19	4	0 51W
17921	" 58898	07 22.5	27 45	"	"	"	-5.1	01 24	01 50	1	0 35W
17922	" 67402	08 02.7	27 47	"	"	"	-5.1	01 54	02 24	2	0 22W
17923	" 74348	08 38.4	28 50	"	"	"	-5.1	02 29	03 19	3	0 45W
17924	" 83098	09 31.0	28 13	"	"	"	-5.1	03 24	04 02	4	0 39W
17925	" 89557	10 15.0	29 27	"	"	"	-5.1	04 06	04 44	1	0 37W
17926	" 94834	10 51.8	24 41	"	"	"	-5.2	04 48	05 38	2	0 55W
17927	{ " 102646 Focus Test	11 44.0	28 41	"	"	"	-5.2	05 42	06 30	3	0 55W
			O.T.B.								

Dome Temp. +22°F

Focus 12.915

Dome Temp. +20°F

Transparency Conditions

Fair -

54

Some clouds at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 13	0 39 W	25 55	0-1	8.49	K ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25	fine
10 3	0 40 W	26 10	1-2	8.84	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	too strong
2 6	1 08 W	30 27	1-2	8.89	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong
2 5	0 52 W	32 30	1-2	7.9	A ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	KA 47	fine
3	0 22 W	18 07	1-2	7.9	A ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 72	strong
2	0 10 E	25 04	1-2	8.75	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25	much too strong
3	0 14 W	26 40	2	8.72	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Fine cloud for most of exposure.	strong
2 4	0 51 W	27 09	1	8.22	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	too strong
1	0 35 W	27 39	1	7.69	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	too strong
2	0 29 W	27 37	0-1	7.72	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	strong
11 3	0 48 W	28 38	0	8.21	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
4	0 39 W	27 57	0-1	8.05	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	strong
4 1	0 37 W	29 11	0-1	7.95	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
3 2	0 55 W	24 24	0	8.16	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Bright moon.	strong
3	0 55 W	28 22	0	8.05	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Cloud during exposure.	strong
						3/2	1 P.H. loaded. 8 plates in box. cond. to <u>red</u>	

Dome Temp.....

Transparency Conditions None.....

56

MC	SC	MTW	STW	SW
-37.2	-46.8	-06.0	+0.5	-52.5

Dec. 29

Leading Time E.S.T.	P2	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 41	4	N 48	26 12	2	8.49	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		stump
9 21	1	W 56	39 56	3	8.52	K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Sta. Vel.	fine
34	2	W 1 11	25 40	2	8.96	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Seems very faint.	good
53	3	W 1 48	26 04	2	8.91	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Haze worse.	fine
2 1	4	W 1 20	44 39	2	8.0	A0	$\frac{1}{2} - 1$	K.A. clouds.	stump
3 2	1	W 2 02	44 39	2	8.0	A0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	K.A. "	stump
3 6	2		31 14	2	7.8	A0	$\frac{1}{2} - \frac{1}{2}$	clouds. Slide not shown sky filling in solid	
								2 PH & loaded plates needed.	

Date Sat-Sun. Dec. 30, 31 Observer - GZ Julian Day 243 3646

[illegible]

Delayed in starting by dec. setting.

[illegible]

Date Sun. Dec. 31/1 1950 Observer Wm - GZ Julian Day 2433.617

[illegible]

Dome Temp. +24°F

Focus 12.905

Dome Temp.

Transparency Conditions Poor

60

O'cast at starting time; variable cloudiness
until abt 2000Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^W 29	+25° 51'	0	7.92	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 bin	v. good
0 ^W 16	+19° 29'	110	6.45	K1	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Vel Std	strong
0 ^W 5-3	+16 14	0	8.0	Ma	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	KA 72 field 2.2.3 is a very red star 7 hrs slightly brighter than 8.0	burnt out
1 07W	+31 15	0	7.8	A0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	KA 49	fine
0 54W	+24 43	0	7.73	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ 3/2	AG 25	good one P.H.
						Waited for cloud to pass. Slide found gls on P.H. was being put in spectro.	
						MC SC MTW STW SW 1951 Jan. 5 -34.0 -61.0 -01.8 +0.2 +25^s Watches rust	
						Jan 8 -32.2 -70.2 +2.0 +0.1 +140	

Hour Angle
End

[illegible]

Dome Temp. $+16^{\circ}$ Focus 12.905

Dome Temp.

Transparency Conditions

62

Clouds dispersing at approx. $19^{h}15^{m}$ Ending Time
L.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

~~7.85~~

(No finder field)

0

8.58

G₀ $\frac{1}{2}-\frac{1}{2}$ A.C. 25

0

8.72

K₀ $\frac{1}{2}-1$ A.C. 25 Cut off by clouds. (This plate is #19740)
Spotter didn't work - so 3 plate-holders
left unloaded.

Date Fri Jan 12-13/51 Observer L-R Julian Day

[illegible]

Dome Temp. 16.....

64

Spotter working.

[illegible]

1951

Observer B. L.

..Julian Day.

[illegible]

Dome Temp.....

Clouds Haze clearing away late in evening.

66

[illegible]

1951 Jan. 24-25

Dome Temp. 21
Focus 12.905
Dome Temp.

[illegible]

Dome Temp.....

Transparency Conditions.....

68

Clouds dispersing at 20^h as forecast was for snow. I waited a little before opening up.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 ¹ 10 ³	00 28 E	29° 45'	10	7.91	HO	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25^m 21^h 19^m first cloud, - followed by many more. 2 PH's loaded - spotter seemed sluggish for P.H. 10 plates in box in spotting room.	

1951 Jan. 26-27

Date... Fri 26/27 Jan

Observer..... Ben

..Julian Day

[illegible]

Dome Temp. 21Focus 12.905Dome Temp. 16Transparency Conditions Good

70

Ending Time
L.I.T.P 32
EST
200

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W0131	29 24	<0	8.93	G5	1-1-1	AC Right Cloud toward end	unk
—	14 38	<0	8.0	A0	1-1-1	KA-23 Considerable Cloud during exposure	unk
			7.85	G2		Standard Velocity Star	spots n. s.
			8.0	A0		KA-24	
						Close down at 2030	
						MC Jan. 29 -20.0 SC -1^m 52.3 wt 0.2 removed MTW +02.0 reset STW +0.1 SW -39'	

30-31

Date Tues Jan 29th 1951 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.I.	Hour Angle End
17959	HD 17382	02 42.2	26 40	I-12	E10380	008	-9.6	19 12	20 28	2	42 02
17960	HD 29587	04 34.5	41 57	"	"	"	-9.8	20 40	21 10	3	40 52
17961	HD 31782	04 53.5	25 47	"	"	"	-9.8	21 15	21 55	4	41 19
17962	HD 39949	05 50.8	27 18	"	"	"	-9.7	21 59	23 27	1	41 56
17963	HD 60235	07 28.4	28 44	"	"	4	-9.7	23 35	01 30		2 19 40
	{ From Field				OTB						

Date Fri Feb 23, 1951 Observer Hd - Gw 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
17964	HD 19666	03 04.9	15 37	I-12	E103a0	008	-9.7	18 55	19 45.4		W 110
17965	HD 27350	04 13.9	14 27	"	"	"	-9.8	19 49	20 45.1		W 101
17966	HD 42275	06 04.7	13 51	"	"	"	-9.9	20 59	21 39.2		W 09
17967	HD 46160	06 26.7	27 54	"	"	"	-9.8	21 44	23 16.3		W 109
17968	40 59684	⁰⁷ 04 26.0	27 21	"	"	"	-9.9	23 09	00 35.4		W 100
17969	HD 70030	08 14.7	25 39	"	"	"	-10.0	00 21	01 31.1		W 100
17970	HD 71313	08 56.1	26 16	"	"	"	-10.2	01 36	02 46.2		W 100
17971	HD ⁹⁴⁹⁶⁶ 74839	¹⁰ 52.7 10 51.8	⁺²⁴ 55 24 41	"	"	"	-10.2	02 56	04 07.1		W 100
17972	HD 104780	11 58.4	25 30	"	"	"	-10.0	04 15	05 25.0		W 100
17973	HD 121121	12 40.5	26 20	"	"	"	-10.3	05 38	06 48.3		W 100
	FOUUS TEST		0-7.13								

Dome Temp.....+6 F

Focus.....12.905

Dome Temp. -5°F

Transparency Conditions *Good*

74

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11:54	W 1 10	15 47	0	8.0	A0	1-1-1	KA	lute
12:45	W 1 01	14 33	0	7.9	A2	1-1-1	Seems ft. KA	too weak
12:52	W 2 05	15 54	0	8.0	G5 ^{F2}	1-1-1	KA	lute
13:02	W 1 09	27 57	0	8.67	K5	1-1-1	AG v windy - hard guiding	lute
13:04	1 19W	27 12	0	8.37	K0	1-1-1	temp - 40°	good
13:07	1 46W	25 29	0	8.58	K2	1-1-1	AG 25 image very poor.	weak
13:08	2 19W	26 02	-0	8.00	K0	1-1-1	" " Shuttlecock will work	lute
13:10	1 50W	24 36	-0	8.15 ^{8.15}	K0	1-1-1	" " temp - 50°	lute
13:12	1 203W	25 12	0	8.18	G0	1-1-1	" " slightly large, unexposed	too weak
13:13	1 22W	28 03	0	8.63	K0	1-1-1	" " very weak exposed through red blank folded glass	lute
13:14	1 22W	28 03	0	8.63	K0	1-1-1	4 plates in line 2 of them looked	lute

75

Date Sat Feb 3/4

Observer Ba - C. 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.E.	Hour Angle End
17973	HD 20511	03 12.9	32 19	5-17	F10300	0.08	-11.0	1835	1925	4	
17974	21229	03 20.4	31 29	"	"	"	-11.0	1933	2017	1	0134
17975	30409	04 42.8	44 03	"	"	"	-11.0	2026	2056	2	0054
17976	CP ORIONIS	06 01.1	17 42	"	"	0.46	-11.0	2100	2308	3	0202
17977	HD 65583	07 54.3	29 31	"	"	0.08	-11.0	2345	2357	4	0036
17978	{ 71028	08 20.1	28 45	"	"	"	-11.0	0001	0201	1	215
	{ FOCUS TEST		O.T.B.								

Dome Temp.....+9°F

Transparency Conditions Clouds clearing at 76
Sunset, Hazy.

[illegible]

Dome Temp.....

78

Everything sluggish; Slit micrometre did not feel right.

[illegible]

Dome Temp.....-20°F

Transparency Conditions..... 100%

80

[illegible]

1951 Feb. 14-15

Date Wednesday, February 14th Observer Ho - Cm 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.
17987	CP Orionis Hy Monocerotis	06 ^h 1 ^m 11 ^s	+17° 43.1'	I-12	E10320	016	-5.0	18 54	22 00	2
17988	HD 66141	07 ^h 57 ^m	+02 36'	"	"	008	-5.0	22 17	22 23	3
17989	HD 90183	10 ^h 19.5	25 07	"	"	"	-5.0	22 42	00 2	4
17990	HB 91148	10 26.3	24 36	"	"	"	-5.2	00 45	02 15	1
17991	HD 95978	10 39.2	29 44	"	"	"	-5.5	02 17	05 00	2
17992	HD 103614	11 50.8	26 03	"	"	"	-5.5	05 55	06 55	3
17993	HD 119665	13 39.5	25 48	"	"	"	-5.5	05 06	06 31	4
	FOCUS TEST	0.	7. B.							

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

Focus.....12.905

Dome Temp. $+10^{\circ}\text{F}$

Transparency Conditions.....fair to pass.

82

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	15 ^m W	$-17^{\circ}43'$	00-0	11.3	?	1-1-1	(Baglogis) *very faint variable - (last, $19^{\text{h}}45^{\text{m}} - 19^{\text{h}}55^{\text{m}}$)	too weak
20	16 ^m E	$+02^{\circ}29'$	0-1	5.52	K ₃	1-1-1	Vel. Stel. - gave a little extra time - as time lost for	fine
21	20 E	$-24^{\circ}53'$	0-1	8.79	G ₅	1-1-1	AG-25	fine
21	—	$29^{\circ}20'$	0-1	8.14	G ₅	1-1-1	"	1 strip
21	39 W	$29^{\circ}25'$	1-2	8.84	K ₀	1-1-1	"	fine
21	22 W	$25^{\circ}45'$	0	8.75	G ₀	1-1-1	" Cloud in S.W. (high)	good
21	00 W	$25^{\circ}31'$	0-2	8.71	G ₀	1-1-1	" Haze prevailing in bands from S.W.	good
							centre too weak	
							9 Ph's bracketed, box in line.	

[illegible]

Dome Temp. +22 FFocus. 12.905Dome Temp. Transparency Conditions OK

84

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15 4	N 116	13 25	0	7.9	A3	1-1-1	KA	fine
00 50 1	N 55	12 37	0	7.9	A3	1-1-1	KA	fine
21 05 2	N 11	-2 55	0	6.53	M1	1-1-1	8th Vel	fine
22 5	N 134	26 41	0	8.72	K0	1-1-1	HG Had forgotten to turn on spec. heat.	sharp
00 4	136W	26 47	0	8.70	K0	1-1- $\frac{1}{2}$	HG	no stars
02 1	051W	28 12	0	7.95	G0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	A.G. 25 scratched	fine
02 12	E 43W	26 53	0	8.86	G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" "	no stars
			0	8.79	G5	$\frac{1}{2}$	" "	good
						3/2	Large shield after start star gone 03.10 could not see	
							4 PHs loaded + 8	

Date Fri Feb 23-24, 1951 Observer HL - Cu Julian Day 19510223.5

[illegible]

Dome Temp.....120°F

CTE
Focus center t. red.
suggest 12.895.

Transparency Conditions Good

86

[illegible]

Dome Temp. 34Focus. 12.895Dome Temp. +29°Transparency Conditions Good

88

Set watch

Mercur Time 30" fast

Sun Time 1' 45" fast

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10 50 4	WO 442	27 27	10	8.72 K0	1-1-1	spots in poor	guiding
12 25 2	WO 235	29 00	1	8.89 G0	1-1-1	Set on wrong * at first - Comp. v. wk	Good
3 20 W	28 40	1	8.91 G0	1-1-1		weaker	Good
2 33 W	26 20	3	8.58 K2	1-1-1	AC 25	base thickening 0.30	poor
1 35 W	22 12	0-2	7.79 K0	1-1-1	" "		fine
1 15 W	25 06	0	3.97 G0	1-1-1	" "	clouds from west.	weak
						1/2 clouded out at 02:50.	
						1 Ph. bracket, 3 in. long.	
						* R.A. lamp sticking from air needing adjustment	

Dome Temp.....31°F

Stair

90

Delayed start because of some light haze.

Leading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 24 7	0 27 W	27 04	0	8.58	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	A.G. 25	Good
2 11 2	0 30 W	27 21	0	8.26	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "	✓ good
2 29 3	1 07 W	27 13	0	8.86	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " haze clouds.	fine
							2 pl's loaded, 4 in box.	
							filling in at 2:00 a.m.	

Date Tues/Wed Near 6/7, 1951 Observer -Gu Julian Day

[illegible]

Dome Temp.....

92

[illegible]

[illegible]

Dome Temp. + 33°F

Transparency Conditions *Very Poor*

94

Clouds clearing at 21.30 - slight aurora.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
35									
2 39	1	01 18 ^W	02° 28'	00	5.52	K ₃	1-1-1	Std. Vel. Interrupted by clouds, Globe & Mail. (exposure time guessed)	too weak
								(3 p. h. is loaded, box of plates with them)	

Date Fri-Sat Mar 9-10/51 Observer Ad - L Julian Day 151.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
18020	H.D. 58382	07 20.3	31 49	E-12	E10340	008	-3.3	21 01	21 43	2	N 10°
18021	H.D. 69866	08 13.9	27 11	"	"	"	-3.2	21 46	23 10	3	W 14°
18022	H.D. 84440	09 40.2	27 32	"	"	"	-3.3	23 15	00 15	4	121 W
18023	" 99947	11 24.8	25 27	"	"	"	-3.4	00 23	01 43	3	406 W
18024	" 111842	12 47.0	26 13	"	"	"	-3.4	01 49	03 07	1	109 W
18025	" 123782	14 04.6	49 56	"	"	"	-3.4	03 15	03 25	2	010 W
18026	AG. 6705	14 00.3	26 19	"	"	"	-3.4	03 30	05 00	4	149 W
18027	H.D. 152032	16 45.9	26 23	"	"	"	-3.4	05 11	05 59	✓	004
	Focus Test				O.T.K.						

Dome Temp. 20 F

Focus 12.895

Dome Temp. +12°F

Transparency Conditions

Good

96

Cloudy at first. Then 8 visitors
from Walkerton H.S. showed G w 5"
and a * with 74"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 109	31 43	0	7.93	G5	1-1-1	K.A.	fine
W 142	27 00	0	8.65	K0	1-1-1	AG	fine
121W	27 16	0	8.42	K0	1-1- $\frac{1}{2}$	" scratched	fine
106W	25 08	0	8.72	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
109W	25 56	0-1	8.81	K5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" a poor guiding	good
010W	49 50	0-1	6.79	M2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Standard Velocity star	1 strong
149W	26 03	0-1	8.70	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	AG 25	fine
004W	26 17	0-1	7.99	K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
					$\frac{3}{2}$		
						3 PHs loaded. + 4. H on M.	

Date Sat-Sun Mar 10/11 Observer Hd - Gu Julian Day.....

[illegible]

Dome Temp.....+16°F

Good

98

Delayed by SW being wrong. Rsect. correction
now 0.0

0100 light cloud from SW; Aurora. ^{very}

[illegible]

Date Mon. Mar 12-13 1957 Observer L. Gu Julian Day 151.5

[illegible]

Dome Temp.....

Transparency Conditions

Gord

100.

have presence 01:00

About 45 Visitors Dr. Heard's night class. Showed moon with 74", Saturn with 5", various $4\frac{1}{2}$ " on loan.

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 38	1	1 08 W	24 58	0	8.61	K ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ A.G. 25		strong
21 13	2	1 17 W	27 01	0	8.65	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "		fine
21 35	3	1 41 W	29 04	0-1	8.95	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "		fine
21 54	4	2 12 W	28 02	0-1	8.77	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "		fine
22 15	1	2 02 W	24 42	0	8.73	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "		good
22 45	1	1 32 W	24 49	0-1	8.78	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "		weak
23 15	2	2 47 W	25 43	0-1	8.91	K ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "		too weak
							4/2		
								Photo deck, some films in box.	
								MC Mar. 19 ~ +10° SC ~ -13° SW ~ -10°	

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

Focus. 12.895

Dome Temp.

Transparency Conditions *Poor*

102

Clouds, clearing at 21^h15^m. S.W. stopped. - wound & reset.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 ^h 04 ^m W	26° 58'	0	8.65	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ AG 25	Bit of high cirrus cloud.	v good
0 20W	27 19	0	8.63	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "	spots spoiled	fine
1 14W	24 52	0	8.87	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "		fine
1 11W	25 18	0	8.27	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "		fine
1 08W	26 07	0	8.64	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ "		fine
					3-2		
						4 PH-2 loaded + 8	
						H on M.	

Dome Temp. +25°F

104

Bank of light cloud in West at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 19	1 32 W	26 07	0	8.86	Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 light haze	
2 13	0 46 W	27 59	0-1	8.49	Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " "	
3 10	1 28 W	25 32	1	8.75	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	
4 12	2 13 W	29 54	0-1	8.68	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" very poor.	
				8.05	Ko		" Haze + cloud from E.	fine
						4/2	9 Ph's bracketed, 4 in box.	
							MC Apr. 2 +18.2 BC -09.9 MTW 00 STW -0.1^m SW	

Dome Temp. +37° F

106

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 19 4	W 224	28 02	1	8.35	K ₂	1-1-1	SAE 1.25	fine
21 10 2	W 306	25 32	2	8.65	M ₀	1-1-1	" " "	✓ good
22 07 3	W 200	28 35	2-1	8.64	G ₀	1-1-1	" " "	strong
23 17 1	W 243	24 30	1	8.75	K ₀	1-1-1	" " "	fine
24 27 2	2 03W	27 25	0	8.63	K ₂	1-1-1	" " "	fine
25 30 3	2 05W	29 20	0	8.63	G ₅	1-1-1	" " "	good
26 40 4	2 22W	28 04	0	8.63	K ₀	1-1-1	" " much haze, wind changing.	fine
27 50 5	147W	25 18	0-1	8.79	G ₅	1-1-1	" " "	too weak
							4/2	
							4 Ph's loaded, 8 p.m. in box.	
							R.A. sticky (clamps)	

Date Fri April 6-7 1951 Observer L-qu Julian Day 171.5

[illegible]

Dome Temp. $+50^{\circ}\text{F}$
Focus 12.895
Dome Temp. $+42^{\circ}\text{F}$

Transparency Conditions *None at first... then good* 108

Delayed start because of cloud banks in South and West at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 16	114W	24 48	0	8.40	Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	too weak
23 17	133W	26 54	0	8.86	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
27 51	112W	26 53	0-1	8.93	Ke	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	weak
28 15	116W	27 53	0-	8.58	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " } increasing haze, very poor seeing	weak
28 18	203W	26 04	1-2	7.79	Mo	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " } numbered 18062	weak
28 25	118W	24 57	0-	8.77	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	weak
						4/2		
							2 Ph's loaded, 4 in box.	

Dome Temp.....45.....

Transparency Conditions Some cirrus
L & Wm showed about ~~10~~ 200 visitors
a Gem in 74", h in 5".

110

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 40 W	+28 02	0	8.61	KD	1-1- $\frac{1}{2}$	AG 2.5	fine
						4 PHV loaded + 12	

111

Date Thurs April 19-20, 1951 Observer HD - G. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
18066	HD 86680	09 55.0	28.39	I-12	E103aD	008	4.0-4.7	20 39	21 45	1	4112
18067	HD 94834	10 51.8	24 41	"	"	"	5.1-5.0	21 47	22 47	2	4124
18068	HD 104784	11 58.9	25 30	"	"	"	4.6	22 50	23 50	3	120
18069	HD 113094	12 56.2	24 51	"	"	"	+4.5	23 53	01 11	4	70
18070	HD 120 ⁰³	13 ^{46.6}	25 ²	"	"	"	+4.5	01 14	02 24	1	2
18071	HD 1279	15 51.4	29 48	"	"	"	+4.3	02 27	03 27	2	
18072	HD 152306	16 47.5	28 17	"	"	"	+4.3	03 20	04 40	3	
	FOCUS TEST		O.T. 18.								

Dome Temp. +36Focus 12 895Dome Temp. +37°FTransparency Conditions poor

112

Rain in early evening.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4119	28 24	0	8.26	G ₀	1-2-1	Error in setting temp control - Heat on 30 min.	fine
4124	24 24	0	8.16	K ₀	1-2-1	AG 25	fine
120W	25 11	0	8.18	G ₀	1-2-1	" "	good
145W	24 34	0	8.58	K ₀	1-1-1	" "	weak
208W	24 55	0-1	^{8.05} 8.54	K ₀	1-1-1	" " (correct star not marked on map)	weak
107W	27 38	0-1	7.66	A ₀	1-7-1	K.A.	good
	28 11	0-1	7.72	G ₅	1-1-1	AG 25	good
						4/2	
						1 rt loaded, 8 in box	

Dome Temp. 33 °F

Transparency Conditions *Poor - Then better*

114

Clouds in youth before opening.

[illegible]

Date Mon April 23-24/51 Observer L- Julian Day 171.5

[illegible]

Dome Temp.....

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

116

[illegible]

Dome Temp....+43°F

Transparency Conditions *Fair*

1181

Reading Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
20 41	1	W 1 10	28 14	0	7.95	G ₀	1-1-1	AQ-25	fine	good
21 55	2	W 2 15	28 11	0	8.32	G ₀	1-1-1	" "	"	fine
22 35	3	W 1 35	25 39	0	8.49	G ₀	1-1-1	" "	"	fine
23 14	4	1 38 W	28 00	0	8.30	G ₅	1-1-1	" "	"	good
24 4	4	2 27 W	24 56	0±	8.05	K ₀	1-1-1	" " some light cloud from W.	"	ok
25 2	2	1 34 W	31 42	C-1	7.68	K ₀	1-1-1	-? K. A. seeing improved no comp.	"	good
26 1	1		27 04	0	7.90	A ₃	1-1-1	" " comp VERY well	"	excellent
27 1	1							" "	"	
28 1	1							" "	"	
29 1	1							" "	"	
30 1	1							" "	"	
31 1	1							" "	"	
32 1	1							" "	"	
33 1	1							" "	"	
34 1	1							" "	"	
35 1	1							" "	"	
36 1	1							" "	"	
37 1	1							" "	"	
38 1	1							" "	"	
39 1	1							" "	"	
40 1	1							" "	"	
41 1	1							" "	"	
42 1	1							" "	"	
43 1	1							" "	"	
44 1	1							" "	"	
45 1	1							" "	"	
46 1	1							" "	"	
47 1	1							" "	"	
48 1	1							" "	"	
49 1	1							" "	"	
50 1	1							" "	"	
51 1	1							" "	"	
52 1	1							" "	"	
53 1	1							" "	"	
54 1	1							" "	"	
55 1	1							" "	"	
56 1	1							" "	"	
57 1	1							" "	"	
58 1	1							" "	"	
59 1	1							" "	"	
60 1	1							" "	"	
61 1	1							" "	"	
62 1	1							" "	"	
63 1	1							" "	"	
64 1	1							" "	"	
65 1	1							" "	"	
66 1	1							" "	"	
67 1	1							" "	"	
68 1	1							" "	"	
69 1	1							" "	"	
70 1	1							" "	"	
71 1	1							" "	"	
72 1	1							" "	"	

1 Plu loaded, 4 inches.

Date Apr 28-29

About 170 visitors. Showed 1/2 with 5", ♀ + 1/2 with 4" + 77's 3". Condensation prevented opening 74".

- Hcl, L.

Date Sun, April 29/30, 1951 Observer Wm. - E. G. Julian Day 243350

[illegible]

Dome Temp.....5.6.....

Focus.....12.895.....

Dome Temp.....+9.7 °F.....

Transparency Conditions Good

12:0

Poor towards morning

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^W 47	+27° 10'	0	8.75	G0	1-1-1	AG 25	weate
0 ^W 51	+38 04	0	7.24	G5	1-1-1	Standard	good
2 04W	+28 14	0	8.75	K0	1-1-1	AG 25 This * must be close to N.S.	good
2 22W	+25 56	0	-	M8	1-1-1	" "	much too weak
1 44W	+39 16	0	7.62	G8	1-1-1	STANDARD	good
0 33W	+26 39	0-	7.49	G5	1-1-1	AG 25 couldn't locate K4 etc.	good
						4/2	
						2nd - in bright *	
						centre to violet	
						3 ph's loaded, none in box.	

Date Mon April 30 May 1/51 Observer L. Gu Julian Day 151

[illegible]

Dome Temp. +54°F

Focus.....12.905..... Centre to Violet

Dome Temp...+49°F

Transparency Conditions

Fair

122

Delayed start because of clouds.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 43	2	1 18 W	24 42	0	8.70	K ₀	1- $\frac{1}{2}$ - $\frac{1}{2}$	A.G. 25	
00 12	0	1 14 W	28 59	0	8.77	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" "	
01 04	4	2 05 W	27 20	0	8.82	K ₀	1-1-1	" " light cloud $\rightarrow$ N.W. bright aura 4/2 weather clearing in at 01:15	
								4 Pl's loaded, 4 in box.	

Dome Temp. 61Focus 12.905

Dome Temp.

Transparency Conditions Good

124

Reading Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 57	4	W 1 14	29 29	0	8.21	G5	1-1-1		fine
21 54	1	W 1 01	25 59	1	8.35	K0	1-1-1		(fine)
23 06	2	W 1 42	25 23	1	8.75	G5	1-1-1	} guiding back off	(fine)
00 14	3	1 40W	26 00	1	8.78	G0	1-1- $\frac{1}{2}$		strong
02 38	4	2 36W	25 55	1	-	M8	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Like a drop of blood	fine
03 50	1	0 59W	26 52	1	8.88	G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		fine
04 25	2	0 20W	29 00	1	8.37	K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		fine
							3/2	1 P.H. loaded box of plates needed	

125

Date Wednesday May 2/2, 1957 Observer Ho-Gu Julian Day 155

[illegible]

Dome Temp.....540.....

126

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
05		0 38W	28° 04'	0	8.63	Ka	1-1-1	AG-25 4/2	Light Clouds. focus OK	h w h
								3 plus loaded, 8 whites in box.		

Date *Thurs May 31/57* Observer *L* Julian Day

[illegible]

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

128:

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 6	148W	25 39	0	8.96	K ₆	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG. 25		fine
3 41	130W	28 59	0	8.75	K ₂	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " "		good
4 29 3	101W	27 23	0	8.39	K ₂	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " "		lt wh.
						3/2	4 PHs Loaded + 4 focus OK	

Date Fri May 4-5, 1951 Observer Ad - Gu Julian Day.....

[illegible]

Dome Temp. 50 FFocus 12.905Dome Temp. +9.30 F

Transparency Conditions

Good

130

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 14 1	W 121	25 12	0	8.13	K ₀	1-1-1	AE 25	good
22 16 2	W 117	24 35	0	8.15	K ₂	1-1-1	" " " "	poor guiding
23 23 3	W 121	29 06	0-1	8.39	G ₀	1-1-1	" " " "	fine
02 4	1 37W	24 54	0-1	8.35	K ₀	1-1-1	" " " "	at a h
	0 44W	44 45	1	7.98	K ₀	1-1-1	K.A.	good
	0 31W	44 24	0-1	7.92	K ₀	1-1-1	"	fine
	1 55W	29 05	0	7.76	A ₃	1-1-1	" * looks very faint	at a h
	0 50W	29 03	0	7.84	K ₀	1-1-1	AE 25	good
							4/2	focus?
							4 Ph's loaded, 8 in box.	

Date Saturday, May 5/6, 1951 Observer Wm - L 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.H.	Hour Angle End
18 117	HD 117 023	13 22.5	+29 24	12.5	E 102a-0	SET 008	+13.6	22 23	00 28	X	140W
18 118	" 142 243	15 48.4	29 13	"	"	"	+13.6	00 34	02 04	1	0 50
18 119	" 155 675	17 08.0	25 22	"	"	"	+13.6	02 09	03 31	2	0 58
18 120	" 166 181	18 04.4	29 39	"	"	"	+13.6	03 35	04 21	5	0 5W
	Jensen's Jent					O T B					

Dome Temp.....47°F

Focus.....12.905

Dome Temp.....43°F

Transparency Conditionssome cloud & haze

132

Gu & Wm showed abt 200 visitors
 ♀ (4') & ♂ (4" & 74")

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 40W	+29 06	0	8.77	K0	1-1-1	AG25	V good
0 50W	29 03	0	8.76	K2	1-1-1	"	fine
0 58W	25 17	0	8.58	G0	1-1-1	"	fine
0 51W	29 41	0	8.16	G5	1-1-1	"	fine
					3/2	focus OK	
						4 PHS loaded + 4	

Date Sunday May 6-7, 1951 Observer Hel - Gu Julian Day 19510506.5

[illegible]

Dome Temp. 54 F

Focus 12905

Dome Temp.

Transparency Conditions Some light clouds.

134

Cloudy at sunset, clearing slowly.

Ending Time
L.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 32 27 36	1	8.60	G ₅	1-1-1	{beginning. Heat was not on mirror + seeing was good right at		strong
W 1 21 29 38	1	8.77	G ₀	1-1-1	Some haze.		fine
1 35 W 25 14	1-2	8.32	K ₀	1-1-1	A G 25		good
2 17 W 28 55	0-1	7.90	F ₂	1-1-1	K. A. (star gone at 01:20, cloud from N.) set on hunter, as pair at		note
		8.86	K ₂		A G 25 first, changed at 00:57		
					74" field 		
					H m M not marked as double one cloud.		
					heavy cloud from N.		
					Closing 02:20 E.S.T.		
					4 Ph's loaded, new box needed		

Date Tues, May 8/9, 1951 Observer Wm - Julian Day 151

[illegible]

Dome Temp.....

136

[illegible]

Date Wednesday May 9/10, 1957 Observer Ho - Cu Julian Day 154

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18126	HD 103614	11 ^h 50.8 ^m	+26° 03'	I12 ^h	F10320	008	+14.1	21 ^h 27 ^m	23 ^h 10 ^m	1
18127	HD 121149	13 48.6	28 09	"	"	"	+14.0	23 17	00 37	2
18128	HD 142108	15 47.6	42 52	"	"	"	+13.9	00 47	01 37	3
18129	HD 151256	16 41.2	24 46	"	"	"	+13.9	01 42	03 42	4
	FOCUS TEST		O.T. B.							

Dome Temp. 470Focus 12.905

Dome Temp.

Transparency Conditions Good

138

very bright aurora.

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
13 ^h 10 ^m	1	02 ^h 07 ^m W	+25° 46'	0-	8.75	G ₀	1-1-1	AG 25 (seeing very poor for alt. hour)	Link
0 37	2	1 37 W	+27 53	0	8.58	G ₀	1-1-1	AG 25 light cloud 00: 70 (11)	good
01 37	3	0 39 W	+42 42	0	7.64	F ₅	1-1-1	K.A. increased haze + cloud	Link
3 02	4		24 40	-0	8.86	K ₂	1-1-1	AE, 25 a/2.	too weak
								centre comp. on focus test too weak	
								3 PHS loaded, 8 in box	

Dome Temp.....

Transparency Conditions..... *Good*

140

About 200 winters. Showed ♂ with 74",
♂ with 5", ♀ with 4".

[illegible]

Date Sun-Mon May 13/14, 1951 Observer Wm - L Julian Day 19510513.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18135	HD 101 856	11 38.3	+28 07	I-12 $\frac{1}{2}$	E103a-2	SET 008	+13.0°	20 25	22 05	3
18136	HD 114 762	13 07.5	+18 02	"	"	"	12.9	22 16	23 16	2
18137	HD 128 095	14 29.9	+28 55	"	"	"	12.8	23 21	01 01	4
18138	" 149 132	16 27.7	29 49	"	"	"	12.6	01 05	02 25	1
18139	" 160 952	17 37.7	29 39	"	"	"	12.6	02 30	04 06	2
	Stars Saw				0 T 13					

Dome Temp.....5.3°F

Focus.....12.905

Dome Temp.....

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

142

19 DOZ PLATES IN FRIG

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^W 31	+27°50'	0	8.72	K0	1-1-1	AG 25 	good
1 ^W 12	+17°45'	0	8.2	F7	1-1-1	STD. VEL. * 	fine
1 35W	+28°41'	0	8.72	G5	1-1-1	AG 25	good
1 02 W	29 43	0-1	8.70	K0	1-1-1	" "	fine
1 33W	29 36	0-1	8.91	K0	1-1-1	" "	fine
					3/2	1 PH loaded + 12 OK	

Date Mon-Tue 1951 May 14-15 Observer LR - Gw 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.
18140	HD 102404	11 ^h 42 ^m .1	+24° 59'	T-12½	E10320	008	+17.4	20 ^h 26 ^m	22 ^h 06 ^m	3
18141	115 339	13 11.5	+28 17	"	"	"	+17.5	22 13	23 23	4
V8142	{ 126 327	14 19.7	+26 11	"	"	"	+17.5	23 28	01- 14	1
	{ FOCUS TEST		O.T.B.							

Dome Temp. 6
Focus 12.90
Dome Temp. 1

Dome Temp. 63°F

Focus 12.906

Dome Temp. +55°F

Transparency Conditions some haze

144

haze thickening with clouds from West & North. 01:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 33 ^m W	+24° 41'	0	8.70	KO	1-1-1	AG25 Clock running freely. Meter at 21:43 ^{1.2 sec.} mag. 2.5. 2 ¹ / ₂ quantities from 15:30 ^h to 16:00 ^h +29°	did not mark numbers strong
1-20 W	+28 00	0	8.49	KO	1-1-1	"	strong
2 03 W	+25 55	0-1	8.9	M8	1-1-1	" star about 1/2 mag. at 00:30	good
						4/2	
						H.M. 9 Ph's graded, 6 in box.	

Date # Tues-Wed May 15-16/51 Observer Ad - 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.H	Hour Angle End
18143	HD 103095	11 47.2	38 26	I-12.	E10300	008	24.2	20 19	20 39	1	N4m 3
18144	HD 102646	11 44.0	28 41	"	"	"	24.2	20 42	21 40	2	N1 08
18145	HD 112257	12 50.3	28 18	"	"	"	24.1	21 43	22 53	3	N1 18
18146	HD 120895	13 47.2	25 11	"	"	"	24.1	22 57	23 57	4	N1 22
18147	HD 125320	14 13.6	27 15	"	"	"	24.0	00 01	01 16	1	N2 15
18148	HD 153698	16 55.9	+27 29	"	"	"	24.0	01 22	02 37	2	N0 55
18149	HD 165589	18 01.6	+28 41	"	"	"	24.0	02 42	03 17	3	N0 29
18150	HD 161112	18 38.6	+26 36	"	"	"	24.0	03 29	04 11	4	N0 14
	FOCUS TEST	O.B.T.									
	Wed. May 16-17	cloudy, clearing during night			Tue. May 22-23	clear		Mon. May 28-29	broken		Lon. Sun.
	Thu. May 17-18	hazy but clear			Wed. 23-24	broken		Tue. 29-30	cloudy		Mon.
	Fri. May 18-19	clear			Thu. 24-25	clear		Wed. 30-31			Mon.
	Sat. May 19-20	clear	~200 visitors Wm G, N 4, 5 in. tabs.		Fri. 25-26	clear		Thu. 31 - 1			Wed.
	Sun. May 20-21	clear			Sat. 26-27	rain		Fri. Jun. 1-2	rain		Thurs
	Mon. 21-22	clear?			Sun. 27-28	rain		Sat. 2-3	cloudy		Fri

Dome Temp.....

Transparency Conditions *Poor*

146

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 39	1	W 4m	38 03	2	7.24	G5	1-1-1	Stavel. Bad haze	to strong
21 40	2	W 1 08	28 21	1	8.05	K0	1-1-1	AG	to strong
22 53	3	W 1 15	28 01	1-0	8.30	G0	1-1-1	AG Haze clearing	fine
23 57	4	W 1 22	24 55	1	8.56	K0	1-1-1	A.G. I think I have right star here but it is not circled on chart. Check for possible errors later.	good
24 16	1	W 2 15	+27 01	1	8.75	G5	1-1-1	AG-25	fine
25 37	2	W 0 55	+27 23	K0	8.58	M3	1-1-1	"	very good
26 17	3	W 0 29	+28 40	1	7.86	K2	1-1-1	"	start on plate start on plate
27 41	4	W 0 14	+26 34	1	8.43	K0	1-1-1	"	start on plate start on plate
							492 1/2		
								May 16 Fire in control panel. Discovered by L. Some damage to wiring	
8-29	London	Sun. Jun.	3-4	cloudy	Sat June	9-10	rain (no visitors)		
10-30	cloudy	Mon.	4-5	cloudy	Sun	10-11	broken		
11-3		Tue.	5-6	clear	Mon	11-12	"	En 15-16 mostly clear	Tues 19-20 cloudy
12-1		Wed.	6-7	clear	Tues	12-13	mostly cloudy	Sat 16-17 { Beautiful night Clear moon. 34 C. 6 D, H, Q in 2 till.	Wed 20-21 Rain
13-2	Mon	Thurs	7-8	clear	Wed	13-14	rain	Sun 17-18 Partly - some clouds.	Thurs 21-22 cloudy visitors and activities completed
14-3	cloudy	Fri	8-9	cloudy	Thurs	14-15	clear	Mon 18-19 Broken.	

Date Sat - Sun June 23/24 Observer Hd - Gu Julian Day

[illegible]

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

About 125 vintners. showed by with 74"
 ♀ with 4"

148

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 37	0 48W	+29 04	0+	8.44	G ₅	1-1-1	AC 25 This plate developed. Not numbered. marked X	L strong
23 37	0 51W	+27 48	0-1	8.79	K ₅	1-1-1	" "	L weak
23 51	1 36W	+32 16	1	7.62	G ₈	1-1-1	Std. vel.	L strong
23 53		+36 51	1	9.6	K _{3II}	3	Set 1 Yerkes Std. Lum.	
23 59		"	1	"	"	3	" 5 "	fine
00 30	0 36W	"	1	"	"	3	" 9 "	
01 17	1 16W	+24 47	0	8.68	G ₅	1-1-1	AC 25 Forgot toggle switch on temp. control. Reset now.	fine
01 23	1 11W	+25 33	0+	7.44	K ₀	1-1-1	" " clouds from SE.	good
				8.62	K₀		" " more cloud after clear spell.	L weak compton weak
							overcast 02:00	
							1 Ph banded, 4 in box.	

149

For exposure times I suggest subtract 1.5 from phot mag. & use table
88th.

Date 1951 Jun 24/25 Sun, Mon. Observer R 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.H.	Hour Angle End
18157	HA 143313	15 ^h 54 ^m 6	+25° 52'	F-12 $\frac{1}{2}$	103a0	0008	+23.0	22 ^h 14 ^m	23 ^h 00	3	11 ^h 55'
18158	II Her	17 11.6	+36 55	"	"	"	+23.1	23 08	23 01	4	EO 12-
—	HA 152032							—	—	/	
—	5 Her							—	—	/	
18159a	—									/	
18159b	HA 162901	17 48.3	+25 00	"	"	"	+23.1	02 14	—	2	—
18159b	HA 162901	17 48.3	+25 00	"	"	"	+23.1	02 14	02 49	—	12:10
	OTB							02 19			
8 18160	5 Cyg	21 08.7	+29 15	"	"	"	+22.8	03 19	03 34	3	11:11

Dome Temp. 70°F

Transparency Conditions ... Cloudy in early morning.
Rain ~~for~~ after sunset but clearing
in evening. Lightning in east before
midnight. S.S. 150

150

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W0 ^h 55 ^m	+25° 43'	0-1	8.9	K5	1-1-1	AG-25. Comp. area. widely scattered	comp too weak too strong
E 0 12	+36 52	1	4.6	K3II	3	^{up to 2.5} stand stars. Very cloudy, err. = several mags. AG 25 Invisible; cloud core = several mags. stand stars. Invisible; cloud core > 7 mag. Focus test OTB plate not kept.	nothing on one
12+ 59	0-1	8.54	K0	1		Hopeless weather, so am closing up at 1:15 P.M. 2 ph loaded, 8 in box, 4 in black box wrapped (in ref. and	18:59
W02 50	+24 59	0	8.54	K0	1-1-1	Weather improved later, recovered clear. Exposure 18:59 for 1/100 sec. 1/100 sec. 1/100 sec.	To see other stars
W0 06	+30 06	0	4.4	G6	1-1-1	thick clouds during later time. For 5 Cyg, cloud core = 3 mag. 4 PH	4 fine comp.

151

Mon. Tues

Date June 25, 1951

Observer S-L-GZ

Julian Day 243

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 15161	NGC 6205	16 39.9	+36 33	Newton	E 103a0			22 19	22 22	2
8 15162	" 5904	15 16.0	+02 16		"			22 27	22 31	1
8 15163	" 5897	15 14.6	-20 44		"			22 35	22 45	2
8 15164	" { 6426	17 42.4	+03 12		"			22 52	23 06	1
	109	17 42.5	-00 11		"			23 10	23 24	
8 15165	IC 1276	18 07.5	-07 15		"			23 35	23 55	2
8 15166	NGC 6093	16 14.1	-22 52		"			00 06	24 12	1
8 15167	6235	16 50.4	-20 06		"			00 15	00 33	2
8 15168	6838	19 51.3	+18 38		"			00 54	00 59	1
8 15169	6712	18 50.3	+08 47		"			01 10	01 24	2
8 15170	6779	19 14.6	+30 05		"			01 28	01 34	1
	6426	17 42.4	+03 12							

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

0215

111W

017 E

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

Focus.....

Dome Temp. $+59^{\circ}\text{F}$ Transparency Conditions *Clear*

152

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 21 E	+36 33					Found on B	
1 11 W							
						Seeing poor	
						Sequence	
0 17 E						Focussing on B Cph	
						Guide star gone at 14 minutes due to clouds	
						Clouds Chasing clouds constantly	
						"	
						"	
						Couldn't see cluster for clouds + moonlight	
						Tues-Mon June 26-27 Cloudy	
						American just Eric Engineers	
						Wed-Thurs June 27-28 All hands on deck - S, L, G, G, M, H	
						4 1/2 hrs birds, 23 cars - Cloudy - slight break at 21:30 EST.	
						briefly	

Date Fri June 29/30 1951 Observer L - Wa Julian Day 181.5

[illegible]

Dome Temp. 6
Focus 12
Dome Temp.

Dome Temp. *66°F*Focus *12.905*

Dome Temp.

Transparency Conditions

Slight Haze

154

*Delayed start because of light clouds.*Ending Time
K.S.T.

P.E.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

23 26

1

1 00 W

25 37

0-1

8.82

K0

1-1-1

A.G. 25

*Haze!**clouds**weak.**sky alternately clear and cloudy
gave up.**3 P.H.s loaded + 8 boxes.**Saturday, June 30. ab't 30 visitors;**Cloudy; GZ AU in moved 74" for 'em.**Sunday - July 1,**5 afternoon visitors.*

Date Monday - Tuesday, July 2-3/51 Observer GZ Julian Day 175.5

[illegible]

Dome Temp.....+62° F

Delayed by thundershowers and some
light cloud.

Reading Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 +6	2	0 50 W	+27 05	0	8.91	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG-25 in R.A.	good Comp much
02 27	3	0 40 W	127 23	0	8.42	Go	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Fast Motion Hand guide ¹ not operating Slow motion O.K. Unable to set on stage accurately with hand wheel.	Comp much fine
								4 P.H. loaded. 5 plates in box	

Date Thurs. July 5-6/51 Observer L - Wa 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
18174	31 com	12 46.8	28 05	I-12 $\frac{1}{2}$	E-103 ₄₀	Set .008	+19.9	21:27	21:29	1	3 16W
								21:31	21:32		3.19W
								21:33	21:35		3.24W
18175	ξ Boo A	14 46.8	19 31	"	"	"	+19.9	21:48	21:48:50	2	
								21:52	21:53:40		
								21:55	21:58:20		1.45W
18176	HD. 151780	16 44.4	26 46	"	"	"	+19.9	22 09	22 47	3	0.36W
18177	" 156563	17 13.2	25 08	"	"	"	+19.9	22 50	23 32	4	0.63W
18178	" 166070	18 03.9	27 23	"	"	"	+19.9	23 54	00 24	1	0.55W
18179	AG. 9675	19 07.3	26 14	"	"	"	+19.8	00 53	01 17	2	0.45W
18180	" 10813	20 00.6	26 12	"	"	"	+19.9	01 21	02 01	3	0.35W
18181	" 11579	20 35.2	26 17	"	"	"	+19.9	02 20	02 54	4	0.54W
18182	" 12677	21 30.9	27 34	"	"	"	+19.8	02 59	03 31	1	0.75W
	Faintest				OTB						

Dome Temp. $+57^{\circ}\text{F}$

Transparency Conditions Good

158

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:29	1	3.16W	27 48	0	5.7	GoIII	3	Yerkes stand. lum.	good
1:32		3.19W		0			3		unclear
1:41		3.24W		0			3		guiding
2:48	2		19 17	0	5.4	G8V	3	Yerkes Stand. lum.	fine
2:51				0			3		
3:26		1.45W		0			3		
4:27	2	0.36W	26 41	0	8.83	Ko	1-1-1	A.G. 25	good
5:32	4	0.53W	25 04	0	8.91	G5	1-1-1	"	break
6:22	1	0.55W	27 23	0-1	8.65	Ko	1-1-1	"	break
7:17	2	0.45W	26 18	0-1	8.42	G	1-1-1	"	break
8:01	3	0.35W	26 20	0-1	8.90	Go	1-1-1	"	fair
8:54	4	0.54W	26 27	0-1	8.77	Ko	1-1-1	"	cloud
		0.35W	27 47	0-1	8.79	G _o	1-1-1	clouds on last few minutes	fine
							3/2		OK
								4 PHs loaded + 8	
								NE 5 MTW 5 SC 5 STW 5 SW 5	
								-17.5 +1 ^m 16.8 -26.7 +1.5 -42 ^s	

[illegible]

Dome Temp.....+68°F

Focus.....

Dome Temp.....+67°F

Transparency Conditions Fair.

160

Some light cloud at start.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 00 1	2 34 W +49 42	0	6.79	M2	1-1-1	Standard Velocity	1 wk.
2 28 2	1 06 W +39 17	0	7.62	G8	1-1-1	" "	1 wk.
3 32 3	0 52 W +24 56	0	8.85	K5	1-1-1	AG 25	completed two wk
						Some chuddering exposure.	
						Cloud ended exposure.	
						1 P.H. loaded, 3 in box.	
						July 9/5, HC ^s MTW SC STW SW	
						-28.6 +.2 ^s -23.7 ^s +4.9 ^s -57 ^s	
						See	
						See 8. 19 iterations	

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

Focus 12.905

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

Transparency Conditions. *O. overcast in early evening, clearing later, resulting in delayed start. Lat 1.3 mag. because of no slight haze. Haze around horizon all night.*

162

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		W 03 ^h 39 ^m	+27° 20'	0	8.82	K0	1-1-1	AG-25 <i>Finder & scope work</i>	<i>1 weak comp. wk</i>
3 2		W 01 51	+31 43	0-1	7.82	A2	1-1-1	Stand. Lunc. KA. <i>Close drive rather poor.</i>	<i>comp. wk</i>
2 2		W 01 53	+27 09	0-1	8.42	M0	1-1-1	AG-25.	<i>comp. wk</i>
2 6		W 01 59	+31 41	0-1	3.6	G0 IV	3	Stand. Lunc. 30, 60, 90 sec.	<i>fair</i>
		W 01 15	+27 12	0-1	7.9	A3	1-1-1	Stand. Lunc. KA.	<i>two</i>
		W 01 08	+28 02	0	8.69	K0	1-1-1	AG-25 (Poss. ¹⁷³⁴⁷¹ 173088) <i>Not K-Type Wrong*?</i>	<i>line of comp. wk</i>
1		W 02 16	-27 44	0	4.3	G5 IV	3	Stand. Lunc. 30, 60, 90 sec. <i>poor guiding</i>	<i>good</i>
		W 01 19	-27 46	0	8.54	K0	1-1-1	AG-25	<i>two crible strong comp. wk</i>
		W 01 22	+25 11	0-1	8.20	K2	1-1-1	AG-25	<i>grad</i>
		W 01 40	+28 35	0-1	7.70	K0	1-1-1	AG-25	<i>grad</i>
51		W 02 39	+27 59	0	8.95	M0	1-1-1	AG-25	<i>comp. wk</i>
							A-2½		<i>grad</i>
								2 PH loaded, 8 in loss.	

Date Tues July 10-11, 1951 Observer Ad & Wa 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.
18197	31 Com	12 46.8	28 05	I-12	E10320	008		20:58	20:59	3
								21:00	21:02	
							28.1	21:03	21:07	
18198	G Boo	14 30.3	30 11	I-12	"	"		21:17:30	21:18	4
								21:19	21:20	
								21:21	21:23	
18199	δ Boo	15 11.5	33 41	"	"	"	28.2	21:38:40	21:39	1
								21:40	21:40:40	
								21:41:30	21:43	
18200	γ Ser	15 51.8	15 59	"	"	"	28.1	22:00	22:00:40	2
								22:01:40	22:02	
								22:03	22:04:30	
18201	θ Ara	16 00.0	58 50	"	"	"	28.1	22:18	22:18:30	3
								22:20	22:21	
								22:22	22:24	

Dome Temp.
Focus 2.95
Dome Temp.

Hour Angle
End

W 3 13

N 45

1 24 3

1 06 15

1 17 5

Dome Temp. 69°F

Focus 12.905

Dome Temp. 67°F

Transparency Conditions *some clouds, haze*

164

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:59	3			0	5.7	G ₀ III	3	Set one Std. hum.	fine
21:02							3	Set five	
21:07		W 3 13	27 47				3	Set nine	
21:12	4				4.8	F ₂ V	3	Set 1 Std. hum.	fine
21:26							3	Set 5	
21:28		W 1 45					3	" 9	
21:39	1				4.5	G ₈ III	3	" 1 Std. hum.	fine
21:40							3	" 5	
21:53		W 1 24	33 30				3	" 9	
22:04	2				4.3	F ₆ IV	3	" 1 Std. hum.	fine
22:12							3	" 5	but emulsion torn
22:04:30		W 1 06	15 49				3	" 9	
22:13	3				4.7	F ₈ IV	3	" 1	fine
22:21							3	" 5	
22:24		W 1 17	58 40				3	" 9	

165

Continued

Date Tues July 10-11, 1951 Observer H. W. A. 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.
18202	β Dra	17 28.2	52 23	I-12	E10300	008		RR: 37:31	22: 37:41	4
								22: 38:25	22: 38:45	
							R8.1	22: 39:40	22: 40:20	
18203	ζ Her	16 37.5	31 47	"	"	"		RR: 54:50	RR: 55	1
								RR: 55:40	RR: 56	
							28.0	RR: 56:50	RR: 57:30	
18204	HD156774	17 14.4	27 03	"	"	"	28.0	RB: 14:	23 58	2

Dome Temp.
Focus
Dome Temp.

Hour Angle
End

H. 1 06

H. 1 13

H. 1 37

Dome Temp.....

Transparency Conditions.....

166

Focus.....

Dome Temp.....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:37.4	4			0	3.6	G2 IV	3	ret 1	fine.
2:38.45							3	5	
2:40.20		W 0 06	53 19				3	9	
2:55	1			0	3.6	G0 IV	3	" 1	fine.
2:56							3	5	
2:58		W 1 13	31 41	0			3	9	
3:58	2	W 1 37	26 59	0	8.72	K0	1-1-1	AG Prog. Think at 0 00 Closed 01 20, make July 11 $\begin{matrix} MC_s & SC & MIB & STW & SD \\ -18.7 & -22.1 & +9.8 & +.3^m & -76^S \end{matrix}$	

167

Date Thurs July 12/13, 1951 Observer Wm 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
18205	HD 147527	16 17.4	+29 13	I-12	E103a-0	SET 00.8	+20.1	21 04	22 04	3	0 ^m 48 ^s
18206	HD 155989	17 09.9	+26 18	"	"	"	+20.1	22 09	23 09	4	1 ^m 01 ^s
18207	HD 167782	18 11.7	+25 46	"	"	"	+20.1	23 16	00 16	1	1 ^m 06 ^s
18208	AG 10154	19 31.9	+26 16	"	"	"	+20.1	00 21	01 21	2	0 ^m 51 ^s
18209	HD 197261	20 37.5	+26 45	"	"	"	+20.0	01 26	02 20	3	1 ^m 45 ^s
18210	^{HD 163930} Z Her	17 53.6	+15 09	"	"	"	+20.0	02 29	02 59	4	4 ^m 00 ^s
18211	HD 210026	22 02.4	+26 08	"	"	"	+20.0	03 05	03 23	1	0 ^m 10 ^s
				Focus Test		OTB					

Dome Temp. $+64^{\circ}\text{F}$ Focus 12.905 Dome Temp. $+58$ Transparency Conditions *Fair*

168

Ending Time Z.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22.4		0 ^W 48	+29 06	0	8.98	GO	1-1-1	AG 25	<i>too wk</i>
23.1		1 ^W 01	+26 14	0	8.95	G5	1-1-1	" <i>comp. weak</i>	<i>weak</i>
23.15		1 ^W 06	+25 46	0	8.91	K0	1-1-1	"	<i>lwk.</i>
23.2		0 ^W 51	+26 23	0	8.93	K0	1-1-1	"	<i>good</i>
23.2		0 ^W 45	+26 56	0+	8.96	K0	1-1-1	"	<i>lwk.</i>
23.4		4 ^W 08	+15 08	0	8.3	F2	1-1-1	Bn Bi	<i>fine</i>
23.4		0 ^W 28	+26 23	0	7.83	K0	1-1-1	AG 25	<i>good</i>
							4/2		
								July 13 MC SC MTW STW SW -18.0 -15.8 +10.0 .3^m +9.8	
								<i>comparisons are l weak.</i>	

Date Feb. 13/14 1951 Observer Ba Julian Day 171.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18212	Z Her	17 53.6	15 09	12"	E 103m O	.008	24.5	21 32		5
	A							42		
								57	22 17	1
18213	AG 7774	16 38.0	25 37	"	"	"	24.5	22 22	23 22	3
18214	AD 159608	17 30.5	29 49	"	"	"	24.5	23 27	00 13	1
18215	163969	17 53.8	28 15	"	"	"		00 17	01 17	1
18215	AC 9594	19 03.0	29 02	"	"	"	24.2	01 11	02 01	1
18216	Z Her	17 53.6	15 09	"	"	"	24.2	02 16	02 31	2
18217	44 Cyg	20 27.2	36 36	"	"	"	24.2	02 37		3
								42		
								52	03 07	1
18218	AD 203733	21 19.0	29 22				24.2	03 11	03 41	4

Dome Temp. 7

Focus 15.8

Dome Temp. 6

Hour Angle
End

00 E

147 W

027W

0214W

Dome Temp.....64.....

170

Done relays fail every now & then

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
			15 08	L0	7.5	F2	3	② 10 minutes ⑤ 15 ② 20	Eclipsing binary	
		0032 E					1-1-1			fine
		0149 W	25 32	0	8.93	G0	1-1-1	AG 25		good
		0147 W	29 47	0	8.90	M0	1-1-1	"		good
		0217 W	28 15		8.81	G5	1-1-1	"	Forgot to pull plate	
		0214 W	29 05	0	8.99	G0	1-1-1	"	looks fainter than 9 ^m	fine
		15 08	0	7.5	F2		1-1-1	Binary.		good
		2647			6.9	F5 Ia	3	set 5 S standard luminosity, stars		
					"	"	1-1-1	set 7		2 exposures only
					"	"	1-1-1	set 2		
					8.30	G5	1-1-1	Cloud during last 10 min of exp.	No P-H loaded - what a bad 9 am!	poor garden (good)
								Agreed! - A.P.R.		

Date 1951 Jul 14/15 Stockholm Observer W. K. - W. A. - R. Julian Day 2,237.862

[illegible]

Dome Temp...

Dome Temp.....

on 74", moon on ecliptic, $\eta + 5$ UMa on 4." Clear seeing. 172
Subtract 1.5 mag.

[illegible]

Thurs - Fri.
Date July 19-20, 1951 Observer GZ Julian Day 243 3847

[illegible]

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

Focus.....

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

Transparency Conditions

Some cloud m. Horizontal etc.

174

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 32 W	+26 17	0	7.99	K0	2-2-2	AG 25	
00 08 E	+04 36	0	3.9	K2 III	6	Yerkes Stand. Luminosity	
00 05 E	"	"	"	"	6		
00 00	"	"	"	"	6		
00 10 W	+27 45	0	4.3	G5 IV	6	" " "	
00 15 W	"	"	"	"	6		
00 20 W	"	"	"	"	6		
01 17 W	+26 28	0	8.96	K2	2-2-2	AG 25	Some cloud clearing again.
00 34 W	+58 27	0	7.70	K5	2-2-2	Standard Velocity	
00 37 W	+20 54	0	8.09	G5	2-2-2	AG 25	
00 51 W	+25 51	0	8.51	G0	2-2-2	"	
00 08 W	+15 08	0	7.5	F2	2-2-2	Bagley's binary.	
00 43 W	+29 37	0	8.33	G5	2-2-2	AG 25	Seeing better by 100%
00 44 W	+29 39	0	8.26	K0	2-2-2	"	
					5/3	2 P.H. Loaded. 4 plates in box.	

Date 1951 Jul 20/21 Fri/Sat Observer R Julian Day 2433,848

[illegible]

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

Transparency Conditions.

Transparency Conditions..... Sub tract 1.5 mag. Clear,
with slight cloudiness.

176

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W01 ^h 01 ^m	+29°37'	0	9.0	G0	- -	AG-25. Light cloud under; cloudy sky.	
W00 17	+28 03	0	8.69	K0	- -	AG-25 Plate 18191 definitely HD 173471 (checked file).	
—	+51 30	0	3.6	K5III	3	Stand. Lum. 30, 60, 90 sec. no comp. Light in	
W01 50	+25 07	0-1	8.95	M0	- -	AG-25. [Northern hinde not working]	
W00 41	+4'0 17	0	5.78	F8	3	Stand V/L. 100 sec.	
W00 04	+30 28	0	8.91	K0	- -	AG-25. Binary. Preceding brighter, blue star. $\theta = 270^\circ$	
E 01 26	+38 26	0	6.4	B3me	3	MWC 395	
N 00 35	+29 00	0	7.58	K0	- -	AG-25. Cloudy.	
W 00 54	+26 29	0	8.70	G5	- -	AG-25 Subtract 1.4 mag.	
—	+20 00	0	6.1	KIV	3	Below T for well & obscure clouds. Subtract 0.7 mag.	
					4½, 2½	OTB.	
						3PH loaded, 4 in box.	
Sat - July 21-22	Sa-cr-mg	Cloudy + stormy,	4 visitors	(3 from Welland, 1 from Auburn)			

Dome Temp. +72°F

Focus +12.906

Dome Temp. +73°F

Transparency Conditions

Cloudy. Opened
up three times. Too cloudy for the jug
at first but gradually improving. 178

Ending Time
L.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	—	0	3.8	GOIb	—	Stand. Vel. ^{Luminos} For get camera. Taken in room.	
W03 ^h 33 ^m	+15° 08'	0	7.5	?	1-1-1	Baglow. Recommended 'up' some time	good
N04 16	+28 00	0	8.60	GO	1-1-1	AG-25. Relatively clear, subtended 1 mag.	good
—	—	—	8.56	GO	—	AG-25. Insufficient starlight in RA	
CW00 05)	+01 29	0-1	5.93	K0	3	Stand Vel. Subt. at 15 mag.	fine
W01 07	+57 30	0	7.0	Bome	3	MNC 376.	fine
W04 02	+28 36	0	8.49	K2	1-1-1	AG-25	poor guiding
W03 00	+30 27	0	8.86	GO	1-1-1	AG-25 Harv. C.I. = +0.56. ^{Wrong star taken} at 15 mag.	too weak
						BD + 30° 4258 = AG 11969.	
					4, 2 1/2	OTB.	
						PH loaded, 8 in. RA.	
July 23						me STW SW -21.3^s -2.2^s +12.2^s +3^m -6.5^s	

Dome Temp. $+6.6^{\circ}\text{F}$ Focus 15.746 Dome Temp. $+6.0^{\circ}\text{F}$ Transparency Conditions *Delayed by cloud at start 180*

*July 23/51 changed { 12" was 25" as
 to 25" camera { focus 12.905 15.749
 tilt 20.25 tilt 23.18*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 03 2	01 10 E	+27 37	0-1	8-12	G0	2-2-2 RGN binary West-tipping down better	1 weak
0 22 3	00 20 W	+10 17	0	5-78	F8	2-2-2 Standard Velocity causing delay in mid-exposure	fine
1 33 4	01 17 W	+25 55	0	8-09	G5	2-2-2 AG 25 from 22:50 to 23:10	fine
2 31 1	04 22 W	+15 08	0	7-5	F2	2-2-2 Boylow's binary Temp. control off - pointer not	1 weak
4 08 2	02 55 W	+27 37	0	8-12	G0	2-2-2 RGN binary making good contact on slide wire	1 weak
					6/4 focus ok		
						2 P.H. had 4 photos in box.	

Date Tuesday, July 24/25, 1951 Observer W/m Julian Day 2,433.857²

[illegible]

Dome Temp.....

Transparency Conditions *Some haze*.....

182

Ending Time E.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 2 3		0 ^E 4.6	+4° 23'	0	4.3	B5ne	6	Be Prog	vgood
0 1		0 ^E 10	+27° 37'	0+	8.12	GD	2-2-2	RJN Bin	good
1 3		1 ^W 3.0	+36° 13'	0+	7.7	B3e	2-2-2	Be Prog	good
2 0		2 ^W 0.1	+09° 13'	0+	5.93	KD	2-2-2	Std Vel	fine
1 36		1 ^W 36	+26° 10'	0+	7.71	KD	2-2-2	AG 25	vgood
							6/4	focus OK	
								3 PH loaded + 10	
								He SC MTW STW SPW July 25 -21.3^s +11.2^s +18.5^s +.4^m -21.0^s July 24 -21.2^s +6.7^s -26.2^s -.4^m -36.6^s MTW advanced 1 minute	

[Handwritten signature] OK

Dome Temp.
Focus.
Dome Temp.

[illegible]

Dome Temp. 70°F

Focus 15.725

Dome Temp.

Transparency Conditions 125

184

Clear night, seeing 0.7 mag. (1-2 sec) in 7-10 min. at 15.725

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15 02 05	+50 10'	0	8.3	F2	1-1-1	Caplan	fine
15 02 05	+18 33	0	7.70	K5	1-1-1	Stand Vel. North finder light + ...	v good
15 02 11	+27 36	0	8.12	G0	1-1-1	4G-25. 1 sec. ...	v good
15 02 35	+18 24	0	5.2	F2.1e	3	MWC 39. ...	poor guiding
15 00 25	+58 33	0	2.8	F2 III	3	Stand Lum. 10, 20 3 sec comp. missing on first 2 exp.	w
15 01 47	+54 18	0	8.6	B(3.1e)	1-1-1	MWC 29. ...	weak
					6-4	OTB	focus ok
						3 PH listed, 4 in box	

[illegible]

Dome Temp.....7.1°C

Focus.....15.806

Dome Temp.....

Found the Core Light on
Found Focus at 15.750

Transparency Conditions.....Some Cirrus

186

Cirrus cloud cover in first part of
the night

Ending Time
E.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^W 16	+27° 21'	0	5.13	KO	2-2-2	4.5.25	too weak
0 ^W 40	+21 27	0	5.13	KO	2-2-2	3rd Vsl	fine
0 ^W 37	+33 27	0	6.4	33ne	2-2-2	ke Prog	weak 8/8/66
1 ^W 59	+15 55	0+	6.51	G5	2-2-2	AG2	good
			O.T.B.	6/4		focus OK.	
						3 PH Loaded	
						New Box Plates Needed	
						to be used	
						July 30	
						MC	
						SC	
						MTW	
						STW	
						SW	
						-22.0 ^S	
						+11.4 ^S	
						-6.3 ^S	
						.0 ^m	
						+2.3 ^S	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

[illegible]

Dome Temp. $+80^{\circ}\text{F}$

Transparency Conditions

Cloudy

188

Focus.....

Dome Temp.....

Observed on 17 Oct.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1012 ^{h 2m}	$-04^{\circ}01'$						
1035	$+02^{\circ}18'$					guide * given at beginning of exposure.	developed
10104	$+18^{\circ}39'$					have no idea	
10007	$+30^{\circ}07'$					(lost class)	
10100	$-08^{\circ}46'$					good at first then fainter. 0 ^h 0 ^m 0 ^s 0 ^{ms}	cloudy
						This is getting plates the last way.	
						Hydro phone blew up in the tank	
						Unit, till hydro men came to repair it	
						Finally, closed 1:15 p.m. EST.	

Date *Aug. 1951 Jul. 31 - Aug. 1* Observer *S. Gz. N* Julian Day *3859*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18277	NGC 5904	15 16.0	+02 16	Hevel.	103 a.c.	—	—	21 05	21 08	1
18278	6254	16 54.5	-04 02					21 11 ⁴⁰	21 15 ⁴⁰	2
18279	6093	16 14.1	-22 52					21 20 ³⁵	21 26 ³⁵	1
18280	6356	17 20.7	-17 46					21 33 ⁰⁵	21 45 ⁰⁵	2
18281	6838	19 51.3	+18 38					21 52 ³⁵	21 56 ³⁵	1
18282	6712	18 50.3	-08 47					22 01 ²⁰	22 08 ²⁰	1
18283	6535	18 01.3	-00 18					23 09 ¹⁵	23 18 ¹⁵	1
18284	6712	18 50.3	-08 47					23 32 ⁴⁰	23 37 ⁴⁰	2
18285	6838	19 51.3	+18 38					23 40 ⁴⁵	23 48 ⁴⁵	1
18286	6779	19 14.6	+30 05					23 48 ⁵⁰	23 54 ⁵⁰	2
18287	7089	21 30.9	-01 03					00 00 ⁴⁰	00 02 ⁴⁰	1
18288	6656	18 33.3	-23 58					00 06 ⁰⁵	00 12 ⁰⁵	2
18289	6712	18 50.3	-08 47					00 21 ⁵⁰	00 31 ⁵⁰	1
18290	6205	16 39.9	+36 32					00 36 ⁴⁰	00 38 ⁴⁰	2
18291	6238	19 51.3	+18 38					00 45 ¹⁵	00 51 ¹⁵	1

Dome Temp.....

Transparency Conditions.....

190

4 ocussed on K Oph.

[illegible]

Date 195 Aug 16 9:41 PM Observer S-N-R Julian Day 2433.860

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
18292	NGC 5904	15 ^h 16 ^m .0	+02° 16'	N	10320	—	—	21 05 ⁴⁰	21 07 ⁴⁰		02
18293	NGC 6254	16 54.5	-04 02					21 11 ¹⁰	21 13 ¹⁰	1	04
18294	NGC 6535	18 01.3	-00 18					21 19 ¹⁰	21 35 ¹⁰	2	00 04 E
18295	NGC 6093	16 14.1	-22 52					21 39 ⁴⁰	21 43 ⁴⁰	1	01 52
18296	NGC 6456	17 42.4	+03 17					21 47 ³⁰	22 01 ³⁰	2	00 41
18297	NGC 6235	16 50.4	-22 06					22 05 ⁰⁰	22 29 ⁰⁰	1	02 01 W
18298	NGC 6838	19 51.3	+18 38					22 40 ⁴⁵	22 44 ⁴⁵	2	01 16
18299	6712	18 50.3	-08 47					22 48 ³⁰	22 55 ³⁰	1	00 26 W
18300	6535	18 01.3	-00 18					22 57 ⁵⁶	23 13 ⁵⁰	2	01 35 W
18301	6538	19 51.2	+18 38					23 18 ¹⁰	23 22 ¹⁰	1	00 07 E
18302	6626	18 21.5	-24 54					23 27 ³⁰	23 33 ³⁰	2	03 41
18303	6638	18 27.9	-25 32					23 39 ⁴⁵	23 47 ⁴⁵	1	04 21
18304	6656	18 33.3	-23 58					23 50 ³⁵	23 54 ³⁵	2	05 44 W
18305	6717	18 52.1	-22 47					23 57 ¹⁵	00 21 ¹⁵	1	05 21
18306	6205	16 39.9	+36 33					00 33 ¹⁵	00 40 ¹⁵	2	02 23
18307	6712	18 50.3	-08 47					00 49 ³⁰	00 57 ⁰	1	03 30

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

Transparency Conditions

192

Focus.....

Dome Temp.....

4 occurred on 2 Apr.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 14 W			very poor				micro.	
00 41 W			"					
00 04 E			VERY POOR				5 pl.	
01 52 W							developed	
00 41 W								
02 01 W							cannot reach 6544 at this time.	
01 16 W							← focused on 6544	
00 26 W								
01 35 W							clock not following up	
00 07 E								
01 34 W								
01 42 W								
01 44 W								
01 52 W								
04 23 W								
02 30 W			improving				2 focused on 6544	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions

1941

Ending Time
L.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

02ⁿ W01 4ⁿ W

02 13W

00 48W

02 32W

00 58W

00 08W

00 40W

02 21W

02 29W

much
better

waited in a dark room for a while.

Beautiful night

Aug 2

MC	SC	MTW	STW	SW
-23.0°	+20.4°	+25.0°	+1.5°	-23.0°

Thurs Aug 2-3 hopelessly cloudy - rain after
midnight.

Aug 3

MC	SC	MTW	STW	SW
+22.0°	+24.0°	-22.2°	-3°	-24.8°

Dome Temp... +57°F

Focus... 15.695

Dome Temp... +53°F

Transparency Conditions *Very good.*

196

*About 100 miles. Slowed 11.9 miles - 1000000 miles
 400 miles with 79% Saturn 6.5 miles with 400 miles*

Ending Time
L.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 05W	+15 09	0	-	F2	2-2-2	Bright's binary.	
00 37W	+45 55	0	4.9	Based	2-2-2	MWC 353 Telescope coasting in declination.	<i>strong</i>
01 20W	+29 00	0	7.72	Ko	2-2-2	AG 25 Found S.T.W. out by -1.0	
02 47W	+19 55	0	6.8	Ave	2-2-2	MWC 397	
03 57W	+53 15	0	7.6	Ble	2-2-2	MWC 409 (unstable)	
					6/4		
						2 P.T. light. 4 in box.	

Date _____

Observer

Julian Day

21

Dome Temp.
Focus
Dome Temp.

Dome Temp.....
Focus..... (Temp close not higher)

Dome Temp.....

Transparency Conditions *Good*

198

[illegible]

Date Wed. Aug. 8-9 1957 Observer L Julian Day 2433.867

[illegible]

Dome Temp.....

200.

No.	Comp.	REMARKS
		Clouds at sunset and early evening. Clearing later.

Reading Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 23	-	0 42W	58 28	0	7.70	K ₀	2-2-2	Standard velocity	fine
23 55	1	0 15W	44 08	0	7.2	Bisc	2-2-2	Be prog.	good
00 12	2	0 25W	-02 34	0-1	6.3	B _{9c}	2-2-2	" "	fine
00 40	5	0 11E	57 30	0-1	7.0	B _{0ne}	2-2-2	" "	fine
01 22	-	0 52W	25 44	0-1	7.58	K ₂	2-2-2	AG. 25	good
01 51	-	0 53W	26 21	0	8.07	K ₂	2-2-2	" " Page, light clouds. (fading)	good
							6/4	Fog and haze increasing 3 PHs loaded, fresh box needed Heat on minor dome dewing up.	
								MC SC MTW STW SW Aug 10 -23.0° +28.6° +12.0° +2° -16.7°	
								Sat. Aug 11 Some clouds. About 100 visitors Showers & Haze with 74-inch; & with horizontal N, R.	
								Aug 13 -24.2° +40.3° -08.8° -4° -48.3°	

Date Fri Aug 17/18Observer Ra - RJulian Day 3876

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18338	2 Her	17 53.6	115.09	E-25"	B 103a0	.008	+21.7	2000	2145	2
18339	RS Vul	19 13.4	22 16	"	"	"	21.7	2215 2145	2309	3
18340	3 Her	17 53.6	115.09	"	"	"	+21.6	23 58	01 15	4
18341	H 7 138	01 24.9	105 38	"	"	"	+21.6	01 30	01 40	6
18342	H 12 23 50	23 46.0	161 39	"	"	"	+21.6	01 58	02 28	7
	Trident	01								

Dome Temp. 7

Focus 17.7

Dome Temp.

Dome Temp.....

Transparency Conditions Good. Streaks of Cloud

Are not striking.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0115W	15 08	0-1	(vis) 8.3	FZ	2-2-2	STB This spectrum widened. light cloud near end	
0119W	22 22	0-1	(vis) 7.0	B5	2-2-	" " " Considered ok at all legs	
						The last plate taken too small holes in big cloud.	
						Continues cloudy. Prisms returned to normal position	
0104 44	+15 07	0	8.3	FZ	2-2-2	Split spectrum. Still cloudy.	
0112 22	+05 55	0	8.19	K4	6	Good. But a very long wait	
0110 11	+61 56	0	8.2	B5E	2-4	0110 12. Good. But a very long wait	
						Too cloudy & cannot see	
						6.4 OTE. (Don't fit) just a faint trace.	

Aug 15th HC SC MTW STW SW

 -25.2° +50.3° +09.8° +0.2" +2.3°

" 17 -25.0° +52.9° -24.0° -.4" -18.0°

Dome Temp. 63

Focus 15.757

Dome Temp. 63.0°Pr

Transparency Conditions Cloud & Haze

204

About 150 visitors. Showed M13 with 74" Moon with 4" & Cook
 Clock losing very rapidly, the last two nights

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0300 W	15 08	1	7.5	F2	2-2-2	This spectrum broadened FeI. Bm.	
	05 52	1	8.5	BSNe	2-	Normal length of slit. Be Programme. Exposure ended by being shielded at about 00 ^h 20 ^m . Closing up at 00 ^h 20 ^m .	
						4 p.h. loaded. 80 p.h.	

Date Sun - Mon - Aug 19/20 Observer GZ- Julian Day 243 3878

[illegible]

Dome Temp. $+70^{\circ} \text{F}$
Focus 15.772
Dome Temp. $+66^{\circ} \text{F}$

Transparency Conditions..... *Page 5 Chud.*
Lighter in east.

206

Rising Time L.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		01 59 W ⁿ	+15 08	0	7.5	F2	2-2-2	Long sh... Clock still driving badly.	v good
		00 31 W ⁿ	+10 18	0	5.78	F8	2-2-2	No lightning Stable Velocity	strong
					5.9 - F4		M - 3.7	Befrog - Clouded over.	

207

Date. Wed Aug 22/23, 1951 Observer. L. G. z Julian Day 243 3821

[illegible]

Dome Temp. +52°F

Transparency Conditions.....

208

clouds early evening, clearing

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3		209W	15 09	0	7.5	F ₂	2-2-2	long slit. some light clouds	fine
4		1 05 W	17 02	0	8.52	G5	2-2-2	Standard Vel. Circled throughout exposure	fine
1		2 11 W	+49 57	0	6.8	Ave	2-2-2	Be Irp: MWC 397. Technical display in 8/5 declination. Found display in the with faint and wide stars again with the Heavy cloud embolysms.	fine
								3 P.H. loaded.	

Date Thurs Aug 23-34/57 Observer Ad - R Julian Day 2433.882

[illegible]

Dome Temp. +64 F

Focus 15.697

Dome Temp.

Transparency Conditions

Good

210

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 00	25 04	0	6.9	Bse	2-2-2	Be Prog.	fine
W 0 52	-10 16	0	8.1	Bse	2-2-2	" "	l wh
W 2 57	15 10	0	^{vis} 7.5	F2	2-2-2	Ecl Bin for Ba	fine
1 15	13 02	0	7.7	B3)re	2-2-2	Be Prog	fine
W 1 53	+26 50	0	7.7	B3e	2-2-2	MNC 346. W-1 mag.	wh
W 1 35	+27 01	0	7.5	B3e	2-2-2	MNC 346. W-1 mag.	l wh
W 1 36	+5 7 30	0	7.5	B3e	2-2-2	MNC 346. W-1 mag.	l wh
W 1 32	+15 05	0	5.8	B3e	6	MNC 346. W-1 mag.	fine
W 1 47	+59 25	0	7.2	B3e	2-2-2	MNC 346. W-1 mag.	l wh
W 02 34	+62 11	0	6.5	B3e	6	MNC 61. W-1 mag.	l wh
W 1 34	+70 44	0	7.5	B3e	2-2-2	MNC 49 I 15 P.H. W-1 mag.	wh
W 02 46	+41 59	0	7.5	B3e	6	MNC 49 I 15 P.H. W-1 mag.	too wh
W 01 33	+22 04	0	7.5	B3e	6	MNC 63. W-1 mag.	Too wh
W 02 33	+36 22	0	7.5	B3e	6	MNC 73. W-1 mag.	l wh
W 01 23	+46 07	0	7.5	B3e	2-2	MNC 73. W-1 mag.	too wh
"					6+	OTB. W-1 mag.	

211.

Date Fri Aug 24/25

Observer Ba. - GZ

..Julian Day.....3885

[illegible]

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

Good

212

[illegible]

Dome Temp. 46
Focus 15.7
Dome Temp.

Dome Temp. 46
Focus 15.7
Dome Temp.

Dome Temp. +68°F

Focus. 15.762

Dome Temp. +69°F

Transparency Conditions Excellent

214

Ending Time
E.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
224-	15 10	2	^{4.5} 7.8	Fe	2-2-2	Set 2.5° clipping Binary long slit	fine
4 15 W	-	2-3	8.3		2-2-2	Set 7 Windscreen cutting off	fine
0 47 W	17 01	2	8.52	G 8	2-2-2	Standard Velocity	fine
0 54 W	28 26	2-3	8.47	Ko	2-2-2	A.G. 25	fine
0 02 E	28 15	3	8.23	G	2-2-2	" " HF of double	break
1 06 W	25 36	3-2	8.99	G 5	2-2-2	" "	good
0 46 W	54 16	2-1	8.6	B 3 ne	2-2-2	Be prog.	<u>much too strong</u>
					6/4		
						2 PHS loaded + 8 in box	
						Aug 27	
						Mo	SW
						-25.8°	+20.9°
						Sc	
						+0.6.2°	
						HTW	
						106.5°	
						STW	
						+0.2°	

Date Tues Aug 28-29/51 Observer Ad - R Julian Day 2482.877

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
18376	MW 308 HD 175863	18.52.3	59.53	I-25	E03a0	008	29.7	21 18	22 38	5	W 153
18377	HD 195407	20 26.0	+26 29	"	"	"	+24.7	00 58	02 00		
18378	HD 9139	01 24.9	105 38	"	"	"	+24.8	02 07	03 21		
18379	HD 306723	21 21	+01 11	"	"	"	+24.9	02 33	03 03		
18380	HD 15182	02 21.2	+70 30	"	"	"	+24.8	03 15	04 30		
18381	HD 19243	03 00.7	+62 00	"	"	"	+24.8	04 50	05 06		
	Focus test										
	→ This star identified as HD 32784	05 00.5	+62 21								

Dome Temp.

Focus 15.79

Dome Temp.

Dome Temp.....

Focus.....15794

Dome Temp.....

Transparency Conditions *v poor.*

216

*Duty sky at sunset. later improving some.*Ending Time
E.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 38 W 1 53	59 56	0-1	6.9	B4E	2-2-2	Clouds 21 20-21 45, 9 repeatedly. Thick at 22 30 Clouded 23 30. Clear later	fine
23 00 03 41	+3 50	0	7.7	B3E	2-2-2	M.W.C. 346. Lat 0.0 mag. Some haze.	low
23 00 57	+5 55	0	6.7	B4E	6	See 23 00. Primarily clear. numbered 183378	fine
23 02 31	+57 30	0	7.0	POME	2-2-2	M.W.C. 576. Primarily clear. numbered 183379	fine
23 03 12	+70 14	0	9.0	B3E	2-2-2	M.W.C. 957. Primarily clear. numbered 18330	fine
23 03 19	+68 23	0	6.5	B2E	6	M.W.C. 816. Primarily clear.	fine
					6-4	OTB.	
			6.88	A75		4 PM. Lat 0.0 mag.	
						Aug 27) $\begin{matrix} MC & SC & MTW & SEW & SW \\ +24.0^s & +08.7^s & +24.0^s & +.5^m & 0.0^s \end{matrix}$	

Dome Temp. 72°F

Transparency Conditions *Yes*

218

Cal. vol. at sec. 1.

No dec. slow motion working. Set & guided
by hand.

[illegible]

Aug 31/50

HC	SC	HTW	STW	SW
-23.8 ^s	+21.3 ^s	-18.8 ^s	-.3 ^m	-19.8 ^s

Sat Sept 1-2, 1951. Hd-R.
about 20 visitors. Cloudy.

Date Mon Sept 3-4 1951 Observer Ad-R Julian Day 7 328.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
18384	MW 310 HD 177648	19 00.5	23 11	I-25	E10300	008	21.5	20 05	20 49	4	10.7
18385	MW 312 HD 180398	19 11.3	12 56	"	"	"	21.6	20 55	22 05	1	11.3
18386	MW 317 HD 183143	19 23.0	18 05	"	"	"	21.3	22 11	23 11	2	12.8
18387	MW 320	19 41.3	+5 44	"	"	"	+21.1	23 19	01 17	3	13.4
18388	HD 208682	21 52.9	+64 52	"	"	"	+21.5	01 32	01 42	4	14.0
18389	HD 87719	01 21.4	-00 55	"	"	"	+21.4	01 00	02 12	1	14.1
18390	HD 217050	22 52.7	+8 09	"	"	"	+21.4	02 53	03 59	2	14.3
18391	HD 15472	02 20.4	+70 30	"	"	"	+21.6	03 09	04 17	3	14.6
18392	HD 19243	03 00.7	+62 00	"	"	"	+21.7	04 33	04 53	4	14.9
	Focus test										
18392 F	Focus Test			I-12			18.5			1	

Dome Temp. 68°F

Focus 15.732

Dome Temp. +57°F

Transparency Conditions Good.

220

new cond to hand in with one way of dec. quicker motion works only sporadically.

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 17	23 15	0	6.9	B3e	2-2-2	Be Prog	fine
W 1 23	13 01	0-1	7.7	B3e	2-2-2	" spots spoiled	fine
W 2 18	18 14	1	6.9	B9sed	2-2-2	" *doesn't look as red as usual.	good
W 4 08	+05 55	0	8.5	B5ne	2-2-2	"	good
W 2 20	+65 06	0	5.7	B5ne	6	" W-381 Lib. 0.0 mag.	fine
W 2 08	-00 17	0	8.4	B5ne	2-2-2	" Lib.	fine
W 2 37	+18 26	0	5.2	B5ne	6	"	fine
W 0 31	+70 45	0	8.0	B5ne	2-2-2	"	fine
W 0 21	+62 12	0	6.5	B2e	2-2-2	" W/C 61.	good
					6-4	OTR	
						PH loaded, in box.	
						I-25 was set 1 focus 12.825	
						" 4 " 4 12.925	
						" 9 " 9 12.905	
						5/3 Hd Sept 4, 1951 Yarn 15.732	
						changed to I-12 Tilt 23.18 Tilt 20.25	
						Set focus at 12.930.	
						Sept 4 HCS SE HTW STW SW 9	
						-248 +21.1 +17.2 +2.2m -23.7	

Date Tues Sept 4/5, 1951 Observer Wm - GZ Julian Day 2133

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18-393	HD 147132	18 08.8	+25 37	I-125	103A-0	5LT 008	+22.7	19 ^h 42 ^m	20 02	1
18-394	AG 9659	19 26.6	+28 11	"	"	"	+22.7	20 46	22 06	3
18-395	HD 200546	20 59.0	+26 56	"	"	"	+22.6	22 11	23 51	4
18-396	HD 213014	22 23.4	+16 46	"	"	"	+22.4	23 27	00 27	1
18-397	HD 208700	21 53.0	+28 50	"	"	"	+22.2	00 34	01 14	2
18-398	AG 13863	22 59.4	+27 16	"	"	"	+22.2	01 21	02 51	3
18-399	AG 1264	02 16.1	+27 09	"	"	"	+22.2	03 02	04 12	4
18-400	{ AG 1265	02 16.1	+29 50	"	"	"	+22.2	04 05	05 15	1
	{ Focus Test	O.T.R.								

Dome Temp....+57°F

Transparency Conditions.....602

222

- ① Dec. setting slow motion defunct in one direction
- ② Flashlight batteries dead
- ③ No time to escape to locate this pencil unit!

Rising Time LST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1 ^w .06	+25° 57'	0+	8.51	K.O	½-1-1	AG 25	good
		1 ^m .34	+28° 17'	0	8.93	G.O	1-1-1	AG 25	fine
		0 ^w .56	+27 11	0	8.7A	K.5	1-1-1	AG 25	p.g. (good)
		0 38W	+ 17 02	0-1	8.52	G.B	1-1-1	V-1 St.	strong
		1 55W	+ 29 04	0	7.93	K.5	1-1-1	AG 25	too str
		2 26W	+ 27 33	0	8.93	G.5	1-1-1	AG 25	strong
		0 20W	+ 27 24	0	8.58	G-	1-1-1	AG 25	too str
		1 19W	+ 30 05	0	8.14	-	1-1-1	AG 25 <i>Circled near end of exposure.</i> 5/3	fine
									centre to violet
									center to violet
									Sept 7/51 - 37. m / 1020 h. 4 plates in box.
									MC SC MTW STW SW
									-24.5° +21.9 S -04.5° 0.0m 14.4

Date Sept 7/8 Fri/Sat 1961 Observer Ba, Ha — R Julian Day 3897

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How long Exp.
18401-	HD 172311	18 34.4	28 13	5-12"	E 103a O	Set .008	14.4	20 44 -	21 54.	2	W 2 05
18402	190470	20 00.0	25 30	"	"	"	14.4	22 13	23 09	3	W 1 55
18403	208987	21 55.0	29 25	"	"	"	14.3	23 16	00 16	4	06
18404	209994	22 02.2	27 51	-	-	-	+14.3	00 21	01 35	1	W 2 20
18405	HD 8779	01 21.4	-00 55	"	"	"	+14.3	01 43	02 03	2	W 1 45
18406	p Cas	00 03.8	+58 36	"	"	"	+14.3	02 15	02 20	3	W 1 03
18407	HD 15256	02 ^h 22. ^m 3	+29 26	"	"	"	+14.4	02 32	02 52	4	W 1 15
18408	HD 42397	06 05.4	+25 02	"	"	"	+14.4	03 04	03 56	1	W 1 24
18409	{ HD 49141 Focus test	06 41.9	+26 49	"	"	"	+14.5	04 08	05 18	2	W 1 38

Dome Temp. 52.
 Focus 12.932
 Dome Temp. +49.0 F

Transparency Conditions Variable Cloud

224

On opening up found controls had completely packed up Examined batteries
 found (a) Batteries completely dried out, (b) Ballast resistor
 in charger broken. Replaced resistor with heating element
 from warming room. All controls functioning OK & battery charged

Seeing Time LST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 54	2	V 2 05	28 14	0	8.91	K0	1-1-1	AG 25 Allowing 1 Mag	fine
3 09	3	V 1 55	25 39	0	8.51	K0	1-1-1	"	strong
5 01	4	V 1 06	29 39	0	8.68	K2	1-1-1	"	fine
6 35	1	W 02 20	+28 05	0	8.93	K0	2-2-2	AG 25 Good transparency. Flashlight definite	fine
12 53	2	E 00 22	+00 38	0	7.49	K0	1-1-1	Stand. vel. z. guiding	strong
12 50	2	V 01 03	+58 53	0	5.4	F2I	3	Stand. lum. 8, 16, 24 sec.	strong
12 52	4	E 00 45	+29 40	0	7.55	G0	1-1-1	AG 25	strong
03 56		E 03 24	+25 02	0	8.56	G5	1-1-1	AG 25	strong
05 18		E 02 38	+26 46	0	9.0	^{A0} G0	1-1-1	AG 25 A0 star, may be close A0. Go star is E and N of A0*. OTB	(good) OK
								2 PH loaded, 8 in loop	

Dome Temp. 76 F

Focus 12.930

Dome Temp.

Sat, Sept 8, 1951 - About

100 visitors; G2 & Wm

showed p Cygni with 74" & do.

through 4". All this thru haze & cloud.

Transparency Conditions

Good at first

226

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 33	26 05	0	5.9	F2 Ia	4 set 1	Std. Lum.	
9 38					4 " 5		good range
10 49					4 " 9		
1 13	28 03	0	8.69	K0	1-1-1	AG	spots, pimpled " good
1 44	28 28	0	8.19	G5	1-1-1	AG	fine
2 6	13 01	0	7.7	B3 ne	1-1-1	Be. Prog. Sky gradually filling in.	
2 50			2.9	F8 Ib	4 set 1	Std Lum.	
2 50					4 " 5		
2 50	40 06				4 " 9		
2 57	30 08		4.5	F5 II	4 set 1	Std Lum.	
23 00					4 " 5		
23 03					4 " 9		
23 08			4.1	F5 III	4 set 1	Std Lum.	
23 15					4 " 5		good range
23 43	14 25				4 " 9		

??

Dome Temp.
 Furns
 Dome Temp.

[illegible]

Dome Temp.....+57°r

Transparency Conditions.....

228

[illegible]

229

7 mls
Date Sept 11/12, 1951 Observer Wm. Ha - L Julian Day 3901

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
18419	H.D. 168622	18 15.6	27 28	I-12F103a-0		set 008	25.6	20 08	21 28	4
18420	HD 196034	20 29.7	25 17	"	"	"	25.5	21 36	22 36	1
18421	H.G. 12834	21 39.6	26 04	"	"	"	25.4	22 53	00 03	2
18422	" 13194	22 03.6	26 33	"	"	"	25.1	01 00	02 24	3
18423	M.W.C. 49	02 24.4	70 30	"	"	"	25.1	02 34	03 10	4
18424	H.D. 15853	02 27.9	46 16	"	"	"	25.3	03 18	03 54	1
18425	" 19551	03 03.6	12 29	"	"	"	25.3	03 59	04 31	2
18426	{ " 21112	03 19.7	12 09	"	"	"	25.3	04 35	05 05	3
	Focus Test					O T B				

Dome Temp. 72°F

Focus 12.930

Dome Temp.

Transparency Conditions fair

230

Starting delayed due to telescope drifting in Dec
 Now using dec clamp.

Expt. No.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 28	1 2 14	27 29	0	8.93	K0	1-1-1	AG 25 RA guiding motion sticking; temporarily cured by jamming planet arc gear with cardboard	fine
22 36	1 1 08	25 27	0	8.64	K5	1-1-1	AG 25	fine
23 03	1 1 25	26 18	0	8.89	G5	1-1-1	AG 25 R.A. guiding sticking almost constantly near	end fine
24 02	3 3 22 W	26 47	0	8.96	G5	1-1-1	" " R.A. repaired L. X-ray	good
25 03	4 0 15 E	70 43	0	8.0	B4ne	1-1-1	Be prog.	
26 03	10 27 W	46 28	0	8.0	A0	1-1-1	KA 22	1 star
27 04	20 29 W	12 41	0	7.84	G5	1-1-1	" 71	strong
28 05	30 47 W	12 19	0	7.6	A0	1-1-1	" "	too strong
						4/3	1 P.H. loaded, +4 plates.	

Wed Sept 12 - 13, 1951

Observer Ba-K

Julian Day.....3902

[illegible]

Domé Temp. 74.....

Focus.....12.932

Dome Temp.....

Transparency Conditions

Waye

232

[illegible]

Date Fri. Sept. 14-15, 1951 Observer (Hd). Ha Julian Day 3904

[illegible]

Dome Temp. 62 F

Focus 12.930

Dome Temp. 56 F

Transparency Conditions

Good between clouds. 234
Cloudy till 23.00 opened 23.15. Clouds again.Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 47	29 24	0	7.75	K0	1-1-1	K.A. side of plate fogged	fine
20 27	39 56	0	8.5	K2V	1-1-1	Standard ^{velocity} luminosity 01:00 clouds coming into field sporadic until 01:20	fine
20 24	-00 38	0	7.49	K0	1-1-1	Standard Velocity	fine
20 18	70 44	0	8.0	B4ne	1-1-1		strong
21 2 41	19 56	1	6.2	M2III	1 1/2 - 1 1/2	Standard luminosity guiding off	fine
21 0 31	16 37	0-1	7.9	A0	1-1-1	K.A.	fine
21 0 45	12 28	0	7.6	A0 ⁹⁵	1-1-1	K.A. wrong star taken later in loss?	strong
					43	No P.H. loaded and need a new box	

235

Sum

Date Sept 16/17 1951

Observer Ba-L

Julian Day.....3906

[illegible]

Dome Temp. 60
Focus 12.930
Dome Temp. 50°F

Transparency Conditions Good.

236

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
225 W	26 01	0-1	8.84	K0	1-1-1	no spots	1 strong
249 W	29 23	0-1	8.89	K0	1-1-1	Clouds coming over from 2040-2100	strong
3 48 W	27 00	0	8.91	K5	1-1-1	RA clamp failed. Interrupted by cloud 2245-2300	fine
2 28 W	25 15	0-1	8.75	K0	1-1-1	AG. 25	fine
3 03 W	17 02	0-1	8.52	G8	1-1-1	Standard Velocity	1. strong
0 47 W	60 37	0-1	7.88	F5	1-1-1	K.A. 8	too strong
0 16 W	13 12	0-1	7.90	A5	1-1-1	K.A. 70	strong
0 19 W	27 49	0-1	8.0	A2	1-1-1	" 46	strong
0 14 W	60 13	0-1	7.72	A2	1-1-1	" 9	strong
0 16 W	14 36	0-1	7.9	A2	1-1-1	" 72	fine

4/3

2 PAs loaded, plates needed.

Sept 15-16 ~ 75 visitors, cloudy; light burnt out? in lantern demonstrated to group
and showed weather beaten 4 in Sept 17 $\begin{matrix} \text{KE} & \text{SE} & \text{K-KE} & \text{SW} & \text{SE} \\ -23.8^{\circ} & -28.1^{\circ} & +13.8^{\circ} & -1.2^{\circ} & -37^{\circ} \end{matrix}$

on Sept 17-18 Hd Clouds coming up at sunset. rain at 2100

Date Sept 18/19, 1951 Observer H. L. Julian Day 243.3909

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Exposure Time	Dev.
18 154	AG 9109	18 35.3	+26 06	"	E100	"	+18.4	19 13	20 03	3	1	
18 455	AG 9949	19 21.3	+25 31	"	"	"	+19.3	20 27	21 47	4	1	
18 456	HD 201346	21 03.9	+28 14	"	"	"	+19.1	21 51	23 01	1	1	
18 457	HD 209457	21 50.4	+29 12	"	"	"	+19.0	23 04	00 14		1	W
18 458	" 214332	22 32.3	29 13	"	"	"	+18.8	00 25	01 25	3	1	W 2
18 459	" 3765	00 36.3	39 40	"	"	"	+18.9	01 42	02 12	4	1	W 39
18 460	" 11095	01 44.0	43 48	"	"	"	+18.9	02 15	02 37	1	1	W 44
18 461	" 15705	02 26.4	28 08	"	"	"	+19.0	02 49	03 11	2	1	W 32
18 462	" 17470	02 43.0	32 26	"	"	"	+19.0	03 22	03 44	3	1	W 32
18 463	" 20579	03 13.6	27 11	"	"	"	+19.0	03 55	04 17	4	1	W 32
18 464	" 27145	04 12.1	13 36	"	"	"	+19.0	04 25	04 47	1	1	W 32
Focus Test							O.T.B.					

Date Wed 19/2/84 Observer Pa - Ha Julian Day 399

[illegible]

Dome Temp. 6.8

Focus 12.970

Dome Temp. 6.2

Transparency Conditions Scattered clouds clearing 240
after sunset. Hazy00 50 - clouds coming up quickly
from north.01 10 sky 3/10 cloudy closing in quickly.
01 40 cloudy closed up.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2040 W 0154	-26 10	0	8.71	G0	1-1-1	ACZ5	strong
2200 W 0243	28 38	0	8.90	G0	1-1-1	Increasing haze	v. good
2300 W 0150	30 10	0.1	8.83	G0	1-1-1	Dec screw near end of run Transparency upris	strong
0000 W 02 05	26 42	0.4	8.70	K0	1-1-1		strong
0100 W 01 07	05 54	0	6.19	K4	1-1-1	Standard Velocity	too strong
					4/3		
						1 PH loaded	
						8 plates in box in darkroom in dome	

291

Date Thurs Sept 20-21/51 Observer Ed - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
18470	i Peg	22 02.4	24 51	I-12	E10320	008		22 52	22 52 30	4
								22 53 30	22 54 30	
							21.2	22 56	22 58	
18471	5 Peg	22 47.3	9 18	"	"	"		23 10	23 12	1
								23 13	23 17	
							21.2	23 18	23 26	
18472	HD 210 923	22 08.6	33 06	"	"	"		23 38	23 58	2
18473	" 223 892	23 48.3	44 44	"	"	"	21.1	00 06	00 31	1
18474	" 5049	00 47.3	46 35	"	"	"	21.1	00 54	01 20	4
18475	" 5373	00 50.5	46 07	"	"	"	21.1	01 28	01 54	1
18476	" 9224	01 25.7	28 54	"	"	"	21.0	02 22	02 42	2
	Focus Test					O.T.B.				

Dome Temp. 65 F
 Focus 12.932
 Dome Temp.

Transparency Conditions Poor

242

Thick again at first. Improving about 2200.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 52 30		0	4.4	F5V	4	Std hum.	fine
22 54 30		0			4	5	
23 00	N 0 32	25 07	0		4	9	
23 02		0	5.7	F6V	4	Set 1 Std hum.	fine
23 07		0			4	5	
23 16	N 0 15	+9 35	4		4	9	
23 25	126W	33. 22	1	7.88	G0	1-1-1 K.A. Sec fast guiding not working well.	good
00 01	0 20W	45 04	1	7.98	A0	1-1-1 KA 43 Haze, Light clouds.	good
01 10	0 10W	46 52	1	7.9	A0	1-1-1	fine
01 50	0 40W	46 24	1	7.9	F2	1-1-1	fine
02 00	0 59W	29 09	1	7.83	G0	1-1-1	fine
					4/3	Sky clouding over.	fine
						2 P.H.s loaded plates needed.	fine
						HC -21.8^S SE $+53.8^S$ MTW $+10.2$ STW $+0.2^m$ Corr SW $+20.9^S$	
Sat Sept 22-23						10 Visitors showed B Cyg with 74" 4 with 5" through breaks. Then thick again	
						Ad-L	

243

Date Sunday Sept 23-24, 1951 Observer Ba-Ha Julian Day 3913

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
18477	β Ori	17 38.5	4 37	"	E10P20	.09"	17.0	1845	1846.5	3
								1847.5	1850	
								1851	1855	
18478	θ Her	17 52.8	27 16	"	"	"	17.0	1906	1909	4
								1909.5	1914.5	
								1915	1923	
18479	HD 166620	18 06.4	38 38	"	"	"	17.0	1932	2018	1
	" " "							2018	2048	
18480	110 Her	18 41.4	20 27	"	"	"	17.0	2055.5	2057	
								2059	2102	
								2103	2108	
18481	θ Lyr	19 12.9	37 57	"	"	"	17.0	2118	2121	
								2122.5	2125	
								2127.5	2131.5	
18482	HD 201094	21 07.4	26 08	"	"	"	17.0	2145	2245	
18483	AB 13039	21 53.0	25 27	"	"	"	17.0	2248	00 20	1

Dome Temp. 6.3
 Focus 12.932
 Dome Temp.

Transparency Conditions Good — to begin with 244

Standard luminosity & prob overexposed
 since forgot to subtract mag factor.
 Hope 9 overestimated seeing

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
34 3	4 36	0	3.9	K2 III	4	Sit 2 Std beam Numbered 18777	good
35	"				4	5 "	
35	"				4	7 "	
19 4	37 16	0	5.0	K1 III	4	2 " Numbered 18778	good
19	"				4	5 "	
19	"				4	7 " Numbered 18779	
20 1	38 28	0-1	7.4	F1 V	1-1-1	5 " Clouds near end of exp Lost closed seeing spots	Strong
20	"	1-2			1-1-1	7 " left it uncovered	
20	20 30	2	4.7	F5 IV	4	2 " Numbered 18780	Strong
	"				4	5 "	
	"				4	7 "	
21	38 02	2	5.5	K0 II	4	2 " Numbered 18781	good
	"				4	5 "	
	"				4	7 "	
21 5	W0132	26 22	8.86	K2	1-1-1	5 " no comparison on this exposure Getting better	good
21 20	N 03 17	28 44	8.93	G5	1-1-1	5 " Haze & Cloud.	weak

245

(cont'd)

Date Sunday Sept 23/24 Observer -H a Julian Day 3913

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
18484	22 And	00 05.1	45 31	J-12"	E103a-D	1008	17.0	00 26	00 28	2
								00 29	00 33	
								00 33	00 39	
18485	8 And	00 34.0	30 19	"	"	"	17.0	00 46	00 46 40	3
								00 48	01 49 30	
								00 51	00 54	
18486	η Cas	00 43.0	57 17	"	"	"	17.0	01 08	01 08 30	4
								01 12	01 13 30	
								01 14	01 17	
18487	H.O. 9138	01 24.9	05 38	"	"	"	17.0	01 32	01 44	1
18488	μ Cet	02 39.5	09 42	"	"	"	17.0	01 53	01 54	2
								01 56	01 58	
								01 59	02 05	
18488 F	Focus test									3
									O.T.B.	

Dome Temp. -

Focus -

Dome Temp. 54

Bar Angle
Std

45

23

30

11.01

57

23

07.05

09

E 45

from Sept
1930 then

Dome Temp.....

Focus.....

Dome Temp... 54

Transparency Conditions

very hazy

246

closed 02 30, Jupiter barely visible in haze.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 28	45 48	0	5.4	F2 II	1 1/2 - 1 1/2	St. Lum	fine
00 33	"				1 1/2 - 1 1/2		
00 39	"				1 1/2 - 1 1/2		
00 40	30 37	0	4.6	K3 III	3	" "	fine
00 47	"				3		
00 54	"				3		
00 59	57 32	0	4.2	G0 IV	3	" "	Lines
01 03	"				3		
01 07	"				3		
01 14	05 54	0	6.19	K4	1-1-1	St. Velocity	too wk
01 54	09 56	0	4.7	F0 IV	3	St. Luminosity	too wk
01 58					3		
02 05					3		
					4/3		

Mon Sept 24-25 Hd. Clearing briefly
at 1930 then thick. Still thick at 21 00.

1 P.H. loaded, need plates
 HC SC MTW STW SW
 Sept 24 -24.2^s +57.6^s +27.5^s +5^m -5^s

Done Temp. 45
Time 124
Done Temp.

Dr Angle and	Dr
57 W 2	
7 W 2	
11 W 2	
14 W 2	
20 2	
50 W 2	
62 W 4	

Dome Temp.....

Transparency Conditions.....
Rain squalls and wind delayed opening

248

[illegible]

Date Sat, Sept 29³⁰, 1951Observer Wm - 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.I.
18 497	75 Cygni	21 36.3	+42 29	I-12 $\frac{1}{2}$	E103a-0	SET 008		21 25	21 31	
								21 33	21 45	
							+11.0°C	21 46	22 10	" 47 +4
18 498	AG 13070	21 54.7	+28 10	"	"	"	11.0	22 16	00 08	1 26 +2
18 499	HD 3531	00 33.2	+46 25	"	"	"	11.0	00 18	00 40	2 20 +4
18 500	B And	01 04.1	+35 05	"	"	"	11.0	00 47	00 48	3 13
								00 49	00 50	
								00 52	00 53	02
18500 F	focus test	OTB								

Dome Temp. ⁽²⁾ +45°F.
 Focus... +151032
 Dome Temp.....

Wm showed ~100
 visitors Ring Nebula
 & Albireo
 with 74"

Transparency Conditions Some cloud on horiz 250.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
31		0'	6.6	M1 III	4	Set 2	} strong
45					4	" 5	
22 10	0 ^W 47	+43°05'			1-1-1	" 9	
00 8	2 26	+28 24	0	8.89	G0	1-1-1 AG 25 Considerable thin cloud from about 2300 on	fine
00 12	0 20	+46 40	0	7.62	G5	1-1-1 R.A.	for 401
		+35 24	0	3.7	M0 III	3 20 secs Std Lumin.	
					3	40 "	OK
					3	80 "	
					4/3	from test 0100 haze thickening quickly	
						02 10. haze solid	
						4 PH loaded	
						3 plates in box in dome.	
						Mc SC MTW SW 20.2 ^S +5-8.9 ^S -12 ^S 0.8 ^m -6.5 ^S 20.3 ^S +5.4 ^S +4.8 ^m -3 ^S	

centre sl. to red.

Date Thurs Oct 4-5, 1951 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.
18501	MW 312 HD 180398	19 11.3	12 56	I-12	E10320	008	+23.3	18 51	19 21	4
18502	r Aql	19 21.4	00 08	"	"	"	+23.1	19 28	19 29 ¹ / ₂	1
								19 31	19 34	
								19 35	19 41	
18503	6 Dra	19 32.6	69 29	"	"	"	23.0	19 50 ³⁵	19 52 ³⁵	2
								19 54	19 58	
								19 59 ⁴⁰	20 07 ⁴⁰	
18504	35 Cyg	20 14.8	34 40	"	"	"	23.0	20 15	20 17	3
								20 17 ⁵⁰	20 21 ⁵⁰	
								20 23	20 31	
18505	H.D. 202521	21 11.3	27 35	"	"	"	23.0	20 36	21 10	4
18506	" 207470	21 44.1	28 15	"	"	"	22.9	21 13	22 07	1
18507	" 209680	22 00.1	29 28	"	"	"	22.9	22 12	23 42	2
18508	" 483	00 04.2	16 59	"	"	"	22.8	23 46	00 04	3
18509	" 3565	00 33.5	44 07	"	"	"	22.8	00 10	00 30	4
18510	" 7458	01 09.6	61 22	"	"	"	22.8	00 40	00 58	1

Dome Temp. 70 F

Transparency Conditions *poor*

252

Focus 12.932

Dome Temp.

all good 9 astron. 4 students. Showed 4 with 5."

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 21 4	W 0 41	13 02	0	7.7	K ₃ ne	1-1-1	Be Bin.	low
19 29 2				5.3	F ₂ Ib	4	27.1 Std lum.	fine
19 34						4	5	
19 41	W 0 50	+0 15				4	9	
19 45 2		69 34	0	5.8	K ₀ V	4	1st!	fine
19 51						4	5	
20 00	W 1 09					4	9	
20 03		34 49	0	5.6	F ₅ Ib	4	1st!	fine
						4	5	
	0 48 W					4	9	
20 04	0 30 W	27 48	0	8.54	K ₂	1-1-1	AG. 25	good
20 10	0 55 W	28 30	0	8.79	K ₀	1-1-1	"	fine
20 15	W 2 14	29 45	0.1	9.8	K ₅	1-1-1	"	good
20 21	W 0 32	17 16	1	7.73	G ₀	1-1-1	KA	fine
20 23	W 0 29	44 26	1	7.9	A ₀	1-1-1	KA.	low
20 28		61 40	1	7.78	F ₅	1-1-1	"	low

253

Date Cont. Observer -L Julian Day

[illegible]

Dome Temp.....

Transparency Conditions

254

Focus.....

Dome Temp. +62 F

Ending Time
E.L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 05W	59 27	1	8.0	B _{3e}	1-1-1	Be Binary	fine
00 01W	46 29	1	8.0	A ₀	1-1-1	K.A.	fine
00 23W	45 59	1	7.8	A ₀	1-1-1	"	fine
00 17W	59 53	1	7.9	A ₀	1-1-1	"	fine
01 03W	13 12	0	7.73	F ₈	1-1-1	"	fine
01 31W	74 29	1	8.0	A ₀	1-1-1	"	fine
01 47W	45 25	1	7.72	A ₀	1-1-1	"	fine
01 52W	16 32	0	7.8	A ₀	1-1-1	"	fine
					4-3	2 P.H.s loaded + 4 14 on M.	cent. & violet
						MC SE MRU STW SW -20.5° +67.2° -25.5° -0.6 m -38.1°	

Date Fri Oct 5/6, 1951 Observer Wm - Julian Day 2 43 3925

[illegible]

Dome Temp. $\pm 6.8^{\circ}F$ Transparency Conditions Some haze

256

Focus 12.9.31Dome Temp. Ending Time
L.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

4 Set 2 Std Lum

4 " 5

0^W 08 +17 56 0! 5.0 G0 II 4 " 91^W 35 +13 02 0 7.7 B3ne 1-1-1

Be B1 very hazy

4/3

Wind rising - lightning - thickening hazy

APH loaded + 12 in unopened box

Ha - 23 45 - 00:15 overcast

Sat Oct 6-7/51 Cloudy. No visitors. - Hd

Mon Oct 8-9 a few breaks, mostly cloudy. Thick stratus at 2300. - Hd

Avg

MC
-20s+ SC
78sSW
-5s

MTW broken

257.

Date Tues 9/10 Oct 51 Observer Ba - Ho Julian Day 3929

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
18521	β Sct.	12 41.9	-4 51	F-12"	E 103a0	.008	² 19.6	1940	1941	2
	"	"	"	"	"	"	² ↑	1942	1944	
								1946	1950	
18522	HD 216108	22 45.0	43 19	"	"	"	19.5	2302	2336	3
18523	217089	22 53.0	46 28	"	"	"	19.5	2341	00 11	4
18524	HD 8779	01 21.4	-00 55	"	"	"		00 22	00 28	1
	"	"	"	"	"	"	09.4	00 32	00 52	1
18525	H.D. 10673	01 39.1	+43 13	"	"	"	09.4	01 02	02 02	2
18526	HD 15853	02 27.9	+46 16	"	"	"	09.4	02 09	02 39	3
18527	η Per	02 43.4	+55 29	"	"	"		02 52	02 53	+
								02 55	02 57	
								02 58	03 02	
							09.3	03 03	03 07	
18528	H.D. 22719	03 34.1	+44 36	"	"	"	09.3	03 15	03 45	1
18529	HD 30221	04 40.6	45 18	"	"	"	09.3	03 54	04 18	2
18530	HD 46160	06 26.7	27 54	"	"	"	09.3	04 26	05 16	3

Dome Temp. 46

Focus 12.931

Dome Temp. 37

Transparency Conditions Broken cloud

50 Ans. good

258

About 60 miles - 1 PASC

Shanty 7 miles - 4", (w c) 5" fine, Noddy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1	5.1	GSII	→	2 Std Lum : East Pier	fine
					3	5	
1 59 W					3	7 suspect operation for PASC.	
01 42 W	43 34	1	8.0	AO	1-1-1	KA42	Fine
02 10 W	46 47	0-1	8.0	A2	1-1-1	"	Fine
		0	7.5	KO	1-	set 5 Std Vel. (wrong star, two ft.)	
0 23 W	-00 38	0	"	"	1-1-1	set 8 " "	Good
01 14 W	+43 30	0-1	8.0	FO	1-1-1	K A 21 (star taken the more westerly one) visual binary mostly resolved on slit	Fine
01 03 W	+46 30	0	8.0	AO	1-1-1	K A 22	Fine
		0-1	4.9	K3 Ib	3	set 2 Std Lumin. } R.A. not	Fine
		"			3	set 5 } processed as both	
1 10 W	55 42	"			3	← slide not drawn	
1 15 W	"	"			3	set 3	
1 02 W	44 47	0-1	8.0	AO	1-1-1	K.A. 23	Fine
0 29 W	45 24	0	7.7	AO	1-1-1	K A 24 (photographed through glass?) through	
0 18 E	27 54	1	8.7	K5	1-1-1	AG 25 spots spoiled	Good

Date Tues. Oct 9/10 1951 (cont'd) Observer -Ha Julian Day 3929

[illegible]

Focus.....

Transparency Conditions *perfect*

260

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5-23	01 01 W	-00 56	0	5.93	K0	$1\frac{1}{2} - 1\frac{1}{2}$ $\frac{4}{3}$	std. velocity 1 P.H. loaded 4 plates in box. Focus C slightly to red	Fine

261

Date Wed Oct 10/11 51 Observer Ba - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
18532	MWC 317.	19 11.3	12 56	5-12"	E103a0	1008	12.3	18 50	19 35	1
18533	WD 18512	19 48.5	28 17	"	"	"	12.3	19 39	20 49	2
18534	HD 195834	20 28.6	28 43	"	"	"	12.3	21 00	22 00	3
18535	WD 201094	21 02.4	26 08	"	"	"		22 10	23 26	4
	WD 3565	20 23.5	44 07					Sid. Time		
18536	HD 20656	03 14.4	13 01	"	"	"	12.1	31 17	3 37	1
18537	" 23690	03 42.0	46 30	"	"	"	12.1	03 56	05 19	2
18538	" 28236	04 22.2	15 49	"	"	"	11.9	04 56	05 59	3
18539	" 34811	05 15.0	15 32	"	"	"	12.0	05 14	06 36	11
18540	" 37352	05 32.1	30 56	"	"	"	12.1	05 44	06 51	1
18541	" 42955	06 03.1	14 32	"	"	"	12.0	06 13	07 25	2
	Focus Test				O.T.B.					

Dome Temp. 52

Focus 12.931

Dome Temp. 42°F

Transparency Conditions Scattered Cloud

262

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0117W	13 01	0	7.7	B(12)ne	1-1-1	Be Prop. Scattered cloud during exposure	good comp. wh
0155W	28 25	0	8.82	G-D	1-1-1	AG	fine comp. wh
0226W	28 53	0-1	8.82	K2	1-1-1	" Dec clamp failed	good comp. wh
0318W	26 22	0-1	8.86	K2	1-1-1	" interrupted by a local cloud MWC 312 now too far west	l wh
			7.9	A0		KA20 Heavy cloud, clearing later.	
0019W	13 11	0-1	7.73	F8	1-1-1	KA	fine
0035W	45 37	0-1	8.0	A0	1-1-1	KA	wrong star weak
0036W	15 50	0-1	8.0	M _a	1-1-1	KA	strong
0018W	15 35.5	0	7.8	A ₅	1-1-1	KA	fine
0022W	3 07.0	0	7.76	A0	1-1-1	KA	fine
0024W	14 31	0	7.8	A ₂	1-1-1	KA	fine
					4/3	Stage toward end. 3 P.H. Loaded 4 in Dome	focus ok.
						Oct 12	
						HC -18°	
						SC +130°	
						SW +23.6°	

Date Fri Oct 12-13, 1951 Observer Hd - Ha Julian Day 3932

[illegible]

Dome Temp. 48F

Focus 12.932

Dome Temp.

Transparency Conditions Good

264

25 Visitors from Langstaff school. N showed
S with 5"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	53 18	0	5.0	K0 III	4: set 1	std lum Couldn't find MW 312. Watch corr. wrong?	fine (dust on slit)
		0			4 .. 5		
W0 51	+	0			4 .. 9		
W1 35	13 04		7.7	B3ne	1-1-1	Be Primary	good
W1 35		0	6.9	G2 V	1-2	std lum Sid watch corr = -30.5	strong
W1 50	50 25	0	6.9	G5 V	1-1-1	std lum	strong
W3 10	13 03	0	7.7	B3ne	1-1-1	Be Primary	fine
W1 23	29 40	0	8.33	G5	1-1-1	AG prog. * accno faint for 8:33	fine
V 2 58	29 45	0	8.98	K5	1-1-1	" " Corr to mean time - 1m to end of [this exp.]	fine
10 43	46 20	0	7.8	A0	1-1-1	KA. 20	strong
0 32	62 06	0	7.22	cB5e	1-1-1	Be binary no finder field and field has no al stars in field of view	wrong * too weak
1 03	59 26	0	8.0	B3e	1-1-1	Be binary Dec motion at end of run	fine
			4.7	F0 IV	3	Std Lumin 40 sec set 2	fine
			"	"	3	90 sec " 5	
10 33	+9 55	0	"	"	3	" 9	

265.

(cont'd)

Date *Fri Oct 12-13 1951* Observer *- Hq* Julian Day *3932*

[illegible]

Dome Temp.....

Transparency Conditions *perfect*.....

266

Focus.....

Dome Temp. *40°F*Ending Time
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-9 37	0	4.8	K2 IV	3	set 2 Std Lumin 40 sec	fine
					3	5 90 sec	
00 02					3	9 3 min	
02 10	28 02	1-2	8.35	K2	1-1-1	AG 25	fine
00 51	28 02	0	8.90	G5	1-1-1	AG 25	fine
00 21	-02 55	0	6.53	M1	1-1-1	Std Velocity	good
00 15	49 18	0	6.3	NO I _b	1-1-1	Std Lum.	lowish
00 23	22 57	0	7.5	M1 Ia	1-1-1	Std Lum.	good
00 53	25 56	0	6.86	K5	1-1-1	AG 25	fine
					4/3		
						1 P.H. loaded	
						No plates in dome	

Date Sat Oct 12/14 \$1

Observer.....Ba, L-L

Julian Day.....3933

[illegible]

268

(v 300)
- Hord. of visitors v Showed wth 11' 7" 27'
Co 3 with 5"

Photographs, C. P. ...
Field Notes ...

Plate needed.

269

Watch correction
-2m throughoutDate Sun Oct 14-15/51 Observer Hd- Julian Day 3934

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Angle and	Ded
18570	MW 312 HD 180398	19 11.3	12 56	I-12	E10300	008	13.3	18 22	19 02	2	58 ^m	13
18571	β Aql	19 50.4	+6 09	"	"	"		19 08	19 09	3		
								19 10	19 12			
							13.3	19 13	19 16		34 ^m	6
18572	HD 184719	19 30.7	28 56	"	"	"	13.0	19 23	20 03	4	1 41 ^m	27
18573	AG 10133	19 31.0	28 52	"	"	"	13.2	20 05	21 05	1	2 43 ^m	27
18574	MW 312 HD 180398	19 11.3	12 56	"	"	"	13.1	21 10	21 52	2	1 50 ^m	13
18575	ζ Cep	22 07.4	57 42	"	"	"	13.1	22 01	22 01 ³⁰	3		57
								22 03	22 04			
								22 05	22 07		1 09 ^m	
18576	ϵ Cep	22 11.4	56 33	"	"	"	13.0	22 14	22 14 ³⁰	4		56
								22 16	22 17			
								22 18	22 20		1 19 ^m	
18577	HR 8832	23 08.5	56 37	"	"	"	13.1	22 29	22 37	1		56
								22 38	22 42		42 ^m	

Dome Temp... +54.F

Transparency Conditions *Good*

270

Focus... 12.931

Dome Temp.....

Reading Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 24 58 ^m	13 03	0	7.7	B(3) _{mc}	1-1-1	Be Bin.	<i>fine</i>
22 29 3		1	4.9	G8 _{IV}	4	Set 1 Std lum.	<i>fine</i>
22 29 2		1			4	5	
22 29 6	W 34 ^m	1			4	9	
22 30 4	W 1 41 ^m	1	8.51	K2	1-1-1	AG prog.	<i>good</i>
22 31 5	W 2 43	1	8.79	G5	1-1-1	" " + faint.	<i>good</i>
22 32 2	W 3 50	0	7.7	B(3) _{mc}	1-1-1	Be Bin	<i>fine</i>
22 32 8	57 59	1	4.6	K1 I _b	4	Set 1 Std lum.	<i>fine</i>
22 32 4		1			4	5	
22 32 8	W 1 09	1			4	9	
22 32 0	56 50	1	4.5	F0 _V	4	1 Std lum	<i>fine</i>
22 32 7		1			4	5	
22 32 4	W 1 19	1			4	9	
22 32 9	56 55	1	6.7	K3 _V	4	set 5 Std lum.	<i>fine</i>
22 32 42	W 42 ^m	0			4	" 9	

273

Date Mon Oct 15-16 1951 Observer HL- Julian Day 3935

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Air Angle Incl	De
18580	MWC 312 HD 180398	19 11.3	12 56	I-12	E103a0	008	15.9	19 34	20 04	4	207	13
18581	β Aqr	21 26.3	-6 01	"	"	"		20 11 00	20 11 20	1		
								20 12 00	20 12 40			
							15.9	20 14 00	20 15 20			
18582	γ Cep	20 43.3	61 27	"	"	"		20 28	20 28 30	2		
								20 29	20 30			
							16.0	20 31	20 33		1105'	61
18583	61 Cyg B.	21 02.4	38 15	"	"	"		20 44	20 54	3		
							15.8	20 54	21 06		118	38
18584	61 Cyg A	21 02.4	38 15	"	"	"		21 08	21 10	4		
							15.9	21 11	21 15			38
								21 15	21 23		35	
18585	α Aqr.	^{00.6} 22 00.6	-0 48	"	"	"		21 28	21 28 15	1		
								21 29	21 29 30			
							15.9	21 31	21 32			
18586	A G 13639	22 36.8	29 31	"	"	"	15.9	21 41	23 01	2	139	25

Dome Temp. 58F

Focus 12.931

Dome Temp.

Transparency Conditions

fair

274

Late starting w/c lectures.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 07	13 03	1	7.7	B(3)pc	1-1-1	Be Bin.	fine
		1	37	G2 Ib	4	set 1 Std hum	fine
		1			4	5	
W 03 ^m	-5 45	1			4	9	
		2	4.6	K0 IV	4	1 Std hum	late
		2			4	5	
W 1 05	61 40	2			4	9	
		2	7.5	K6 V	1 1/2 - 1 1/2	" 5 Std hum	fine
W 1 18	38 30	2			1 1/2 - 1 1/2	" 9	
		3	6.8	K5 V	4	" 1 Std hum	fine
	38 31	3			4	" 5	
W 1 35		3			4	" 9	
		2	3.8	G2 Ib	4	" 1 Std hum note number on this plate like 18575	fine
		2			4	" 5	
V. 46 ^m	-0 32	2			4	" 9	
V 1 39	29 48	1-2	9?	K5	1-1-1	AB prog. Left star in 74" eyepiece	weak

275

Date *Mon. Apr 15-16 Contd.*Observer *Hd - L. H.*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Mr Angle End	De
18587	H 2 443	00 04.2	16 59	I-12	E103a0	008	15.9	23 06	23 24	3	034	1
18588	HD 3765	00 35.3	39 40	"	"	"	15.9	23 29	23 51	4	03	3
18589	HD 7563	01 10.6	15 40	"	"	"	15.9	23 57	00 07	1	11	15
18590	HD 7871	01 13.3	32 59	"	"	"	16.0	23 57 01 36	0 48	2	32	3
18591	" 9714	01 30.0	27 46	"	"	"	16.0	01 50	02 00	2	27W	28
18592	" 9861	01 31.2	45 57	"	"	"	15.9	02 04	02 16	4	42W	46
18593	MWC 13	01 24.6	62 51	"	"	"	15.9	02 35	02 45	1	71	73
18594	" 23	01 55.6	59 12	"	"	"	15.9	02 51	03 05	2	05W	59
18595	" 49	02 24.4	70 30	"	"	"	15.9	03 10	03 20	3	54	7
18596	H.D. 45336	06 21.7	29 19	"	"	"	15.9	03 30	04 20	4	5	2
18597	" 47960	06 36.0	25 34	"	"	"	15.9	04 131	05 13	1		
18598	AG 3441	06 36.0	29 32	"	"	"	16.0	05 21	06 15	2		
18599	HD 48591	06 39.1	29 28	"	"	"	16.0	06 24	07 10	1		
	(P. 1000 700)				O.T.B.							

277

Date Tues Oct 16/17 Observer Bo - Ha Julian Day 3936

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.	for Angle Find	De
18600	HD 16620	18 06.4	38 28	2-12"	F 100	.008	17.8	1835	18 59	1	12W	39
18601	HD 180 398 MWC 312	19 11.3	12 56	"	"	"	17.8	1902	19 46	2	15W	10
18602	31 Aug	20 10.5	46 26	"	"	"	17.8	1953	19 59			
								1955	19 57			
								1958	20 02			
18602	HD 208457	21 51.2	25 57	"	"	"	17.8	2013	21 23		15W	
18603	HD 180 398 MWC 312	19 11.3	12 56	"	"	"	17.8	2128	22 18		24W	1
18604	HD 208451	21 51.2	25 57	"	"	"	17.8	2221	23 36		312W	2
18605	HD 208951	21 54.7	30 0	"	"	"	17.8	2350	00 30		355	2
18606	H.O. 26162	04 03.3	+19 21	"	"	"	17.8	00 40	00 50		55	
18607	H.O. 25707	03 59.6	+13 02	"	"	"	17.8	00 59	01 09	4	91 13	
18608	" ^b Ori	04 53.4	+1 34	"	"	"	17.8	01 49	01 53		400	
							17.8	01 53	02 01		32	
18609	α Ori	05 49.8	+7 23	"	"	"	17.8	02 11	02 11			
								02 16	02 16			
								02 20	02 20			

Dome Temp. 6.2

Focus 12.931

Dome Temp.

Transparency Conditions

Fair Some haze 278
Delay in starting from hidden wire in
cond cutting of RA setting.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
212W	38 28	<0	7.4	K1V	1-1-1	Set 1 Std Lumin. Get on wrong * 1st trial	
153W	13 01	<0	7.7	B03	1-1-1	Be Prog	
		0	4.95	K0	4	Set 2 Scoping being 4 Air type	
					+	5	
0112W	-				4	7	
0051W	26 11	0	8.80	B5	1-1-1	AC Prog Forget to pull state	
0420W	13 01	0	7.7	P01	1-1-1	Be Prog	
312W	26 11	0	8.80	B5	1-1-1	AC Prog Heavy haze	
03 55	30 17	0	8.07	K2	1-1-1	AG Prog	
01 55	19 29	0	6.45	K1	1-1-1	Std Velocity	
31 01	+13 12	0	7.7	A2	1-1-1	KA 72 some trouble with R.A.	
31 40	+01 40	0	5.7	K2 II	1 1/2 - 1 1/2	Set 5 Std Lumin	
01 32	"	"	"	"	1 1/2 - 1 1/2	Set 8	
		0	1.5	M2 Ia6	3	Set 2 Std Lumin 5 sec	
					3	5	
02 11	+07 26				3	8	

Dome Temp.....

Focus.....

Dome Temp. 52

Transparency Conditions

quite hazy

280

MC

SC

KTH

STW

SW

-18^s+43^s-10^s+0.1^m11^s

Oct 17

{based on MC - no time signal given}

Reading Time
R.A.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

+18 35

1-2

6.1

M2-III

3

Set 2 ? or 0? Std. Lumin. (Petro)

3

Set 5 One R.A. setting motion

3

Set 8 works only when + half

-01 26

01 22

-05 28

1

8.93

90

1-1-1

AG 25

the time.

1-2

4.2

S5II

3

Set 2 Std Lumin. 3 sec

1-2

4.2

S5II

3

Set 5 Std Lumin. 1 min

01 31

+25 13

2

3.9

F2IV

3

Set 8 Std Lumin. 30 sec

2

3.9

F2IV

3

Set 2 Std Lumin. 15 sec

2

3.9

F2IV

3

Set 5 Std Lumin. 30 sec

01 34

+22 06

2-3

3.9

F2IV

3

Set 8 Std Lumin. 1 min

02 06

22 57

2

7.5

M1II

1-1-1

Std Lumin.

02 17

26 59

1

8.19

K0

1-1-1

AG 25

02 30

49 19

2

6.3

M0Ib

1-1-1

Std Lumin.

5.1

K3Ia

3

Set 2 Std Lumin.

02 21

-24 03

1

5.1

K3Ia

3

Set 5

(error in focus test)

4/3

3 PM 10/17/55

Date Wed 5/7/18 Observer Ar - L-Hr Julian Day 393.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
18618	A? 355	18 01.9	25 46	C-12"	E103aD	3.00B	18.8	13 13	14 08	2
18619	31 Cyg	20 10.5	47 26	"	"	"	18.8	19 14	19 15	3
								19 16	19 19	
								19 19	19 24	
18620	HD 180 398 MWC 312	17 11.3	12 56	"	"	"	18.8	19 29	20 19	4
18621	AG 10644	19 53.2	29 40	"	"	"	18.8	20 21	21 31	5
18622	AG 11579	20 32.7	26 03	"	"	"	18.8	21 34	22 44	2
18623	AC 13020	21 51.7	25 58	"	"	"	18.8	22 47	23 07	3
18624	HD 9714	01 30 ^{30.0}	27 46	"	"	"	18.8	00 14	00 51	4
18625	" 10673	01 39.1	43 13	"	"	"	18.8	00 56	01 49	1
18626	" 10673	"	"	"	"	"	18.8	01 50	02 45	2
18627	AG 3441	06 36.0	29 32	"	"	"	18.9	03 07	03 57	3
18628	HD 11571	26 37.1	29 28	"	"	"	18.8	04 00	04 16	4
18629	" 19365	06 43.0	28 39	"	"	"	18.9	04 51	05 51	1
	{ " from Test.					O.T.B.				

Dome Temp. 64

Focus. 12.931

Dome Temp.

Transparency Conditions Scattered cloud phase

282

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
229 W	25 40	0	8.49	G	1-1-1	AB Prog	
		0	4.95	KD	4	Set 2 Eclipse in prog 7 bar type	
					4	5	
205 W					4	7	
200 W	13 01	0	7.7	Bd ne	1-1-1	Be Prog	
301 W	29 43	0-1	8.88	GO	1-1-1	AG Prog.	fine
336 W	26 13	0-1	8.79	KD	1-1-1	" Increasing haze	dark
338 W	26 13	1-2	8.72	GO	1-1-1	"	fine
27 W	29 03	0-1	7.78	G5	1-1-1		too Trop
132 W	43 29	1	9.3	F0	1-1-1	Pres. day ST } Comb. May 8.0	strong
32 W	" "	0-1	9.3	"	1-1-1	" " } " "	v good
123 E	29 29	0-1	8.86	Go	1-1-1	A G Prog.	good
30 W	27 25	0	8.69	Go	1-1-1	" "	fine
30 W	28 37	0	8.75	G5	1-1-1	" " Increasing Haze. fogged at end	fine
					4/3	3 P.H. Loaded. 24 Habs in Dome	
						Histon in	

283

Date Thurs Oct 18-19, 1951 Observer (N) Hd- Julian Day 3938

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
18630	HD 180398	19 11.3	12 56	I-12	E10320	008	18.3	18 24	19 04	2
18631	31 Cyg	20 10.5	46 26	"	"	"		19 10	19 11	3
								19 12	19 14	
							18.6	19 15	19 20	3
18632	16 Cyg (Pa)	19 39.2	50 18	"	"	"	18.8	19 25	19 33	4
18633	16 Cyg (fol)	"	"	"	"	"		19 34	19 43	1
18634	8 Cyg	21 01.3	+43 32					19 48 ²⁵	19 49 ⁵	2
								19 50 ⁰⁵	19 52 ¹⁰	
								19 52 ⁵⁵	19 58	
18635	HD 203288	21 16.2	+25 49	"	"	"	+18.7	20 02	21 26	3
	208951	21 54.7	+30 03	"	"	"				
18636	V Prg	23 20.4	22 51	"	"	"	18.3	22 21	22 26	4
								22 27	22 35	
								22 35	22 37	

Dome Temp. 62 F

Focus 12.931

Dome Temp.

Transparency Conditions Hazy & some cirrus 284

10 Students of astron 4. showed 4, 8 with 5"
while N ran 74", & 8 hae with 74"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 04 2	11 18	13 04	0	7.7	B ₃ 2	1-1-1. Be Bin MWC 312.	fine
19 11 3			4.95	K0	4	Set 1	fine
19 12					4	5	
19 20	1 31	46 26				9	
19 33 4		50 25	0	6.9	G ₂ V	2-2 8th lum. Top left star in 74" field. ⊕	fine
19 43 1	1 1 31		0	6.9	G ₅ V	2-2 8th lum.	fine
19 44 2			0	5.1	K5 Ib	4 Det 1 8th lum.	fine
19 45					4	5	
19 48		+ 43 44			4	9	
21 46	1 37	+ 26 03	0	8.65	K5	1-1-1 AG 23 thin cloud, thinner at end	good
			8.07	K2			
22 23		23 10		5.2	F8 III	4 Set 1	fine
22 25					4	5	Through clouds.
22 37	1 0 44				4	9	
						4 PH loaded + 16 in dome.	
						H on M.	

285

285
Oct. 19

Me

-18.0³

50

 $+ 36 \cdot 4^5$

HTW

47.5^s

5rw

 $t = 5 \text{ m}$

50

-16⁵

Date Fri Oct 19-20, 1951 Observer HD- Julian Day 3939

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Angle and	D
18637	MW 312											
	1+12 180398	19 11.3	12 56	I-12	E10340	008		18 58.				
18637	31 Cygni	20 10.5	46 26	I-12	E10340	008		19 05	19 07	1		
								19 08	19 12			
							11.2	19 13	19 19		1/4 in 46	
18638	MW 312 HD 180398	19 11.3	12 56	I-12	E10340	008	11.2	19 23	20 57	2	13 1/2	13

Dome Temp. 47 F

Focus 12.931

Dome Temp. 40 F

Transparency Conditions Good between clouds.

286

Clouds at first.

Ending Time
R.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			7.7	Bine		Clouds	
1907		0	4.95	KO	4	set 1	
192		0			4	" 5	
192	W 40 ^m 46 35	0			4	" 9	
2007	N 3 16 13 03	0	7.7	Bs)ne 1-1-1		Bl. Bin clouds 1950-2030, clouds again at 2050. Closed 2210 2PH loaded 7/16 Hon M.	

287

Date Sat Oct 20/21Observer Bo, LJulian Day 3940

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle ind	De
18639	31 Cyg	20 10.5	46 26	L 12	E103a-D	.002	7.8	21 14	21 15			
	HD 206372	21 36.6	28 53					21 16	21 18			
								21 19	21 20			
18640	HD 206372	21 36.6	28 53				7.8	21 40	22 40			
18641	" 20658	21 52.7	28 21				7.7	22 43	23 33			
18642	" 208951	21 54.7	30 03	"	"	"	7.6	23 36	00 24	2		
18643	" 6286	00 58.7	26 04	"	"	"	7.4	01 08	01 54	3		
18644	" 26372	04 05.1	26 15	"	"	"	7.4	02 07	03 07	4		
18645	" 26766	04 08.9	29 39	"	"	"	7.4	03 13	03 44	1		
18646	" 45207	06 21.1	29 42	"	"	"	7.5	03 57	04 25	2		
18647	" 45336	06 21.7	29 19	"	"	"	7.5	05 18	06 10	4		
	Focus Test				O.T.B.							

Dome Temp. 42

Focus 12.931

Dome Temp. 40

Transparency Conditions Fair

Victor T. ... 183 ...
 Choked ... at 2100. ...
 ... horizontal telescope ...

288

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	249	0-1	4.95	K0+B	4	Set Eclipsing binary	Good
					4	5	
249W					<1	7	Too Strong
239W	29 08	0	8.40	G0	1-1-1	*Probably AG 25. STW was ... stopped	Fine
316W	28 35	0-1	8.49	K0	1-1-1	" driving, probably too pushed	Fine
405W	28 18	0	8.15	K0	1-1-1	"	(guiding) Good
231W	28 20	0	8.61	G0	1-1-1	"	Good
23W	28 23	0	8.93	G0	1-1-1	"	Fine
111W	28 17.5	0	8.22	K0	1-1-1	"	Fine
15E	29 71	0	8.21	G5	1-1-1	" Light Blue (Clouds) ...	1. Weak
124W	29 16	0	8.84	K5	1-1-1	" Clouded by Clouds ...	vi. Good
					4/3		Focus OK
						H. P. H. Loaded	
						Hon M. 5 Plates in Do	
						Plate #5 in Black Box	
						in Dark ...	

Thawed out
REW.

Date Sun. Oct 21⁻²², 1951 Observer Wm-L Julian Day 2 433 941

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle ind	D.
18 648	31 Cygni	20 10.5	+46°26'	I-12	E103a-0	SET 008	+11.7	20 07	20 08	1		4
								10	12			
								14	19		48	
18 649	HD 208 750	21 53.3	+26 45	"	"	"	+11.7	20 33	21 53	2	39	12
18 650	HD 208 987	21 55.0	+29 25	"	"	"	+11.6	21 57	23 27	3	12	12
18 651	HD 6 525	01 01.1	+29 10	"	"	"		23 32	00 32	4	11	22
	Focus Test					O.T.B.						

Home Temp.....+50°F

ocus.....12:931

Home Temp.....

Transparency Conditions.....Considerable Haze

290

Starting delayed by fogging tendency of secondary mirror.

Ending Time
E.T.

our Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2003

46° 37'

0

4.95

K0, B8

4

SET 2

MIRROR ASTIGMATIC

4

SET 5

W 48

4

SET 8

Fine

W 39

+27 01

0

8.70

G5

1-1-1

AG 25

Fine

W 12

+29 40

0

8.68

K2

1-1-1

"

✓ Good

10W

-29 26

0

8.33

G5

1-1-1

"

Light clouds trans

Fine

f/3

ent. haze.

Focus OK

4 P40 200W +12

H + M

Oct 22 MC SC MTW STW SW
-18.2° +42.9° -19.2° -18.2° -9°
Oct 24 -48.2° +44.6° -00.8° -5° -29°

291.

Date Thurs Oct 25-26/51 Observer Ad - Hr Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle End	D
- 18652	^{MW³¹²} HD 180398	19 11.3	+12 56	I-12	Exo340	008	12.1	18 17	18 53	1	1135	13
18653	31 Cygni	20 10.5	46 26	"	"	"	"	18 58	18 59	2		
								19 00	19 02			
							12.1	19 02	19 07		10 51	46
18654	AG 11970	20 54.2	30 14	"	"	"	12.1	19 12	20 08	3	1 07	30
18655	^{MW³¹²} HD 180398	19 11.3	+12 56	"	"	"	12.0	20 13	20 45	4	3 27	15
18656	HD 208276	21 50.1	29 47	"	"	"	12.1	20 48	21 24	1	1 28	30
18657	HD 208379	21 50.8	25 27	"	"	"	12.0	21 26	22 06	2	2 09	25
18658	HD 208415	21 51.0	30 21	"	"	"	12.0	22 08	22 38	3	2 41	30
18659	HD 207740	21 46.1	28 18	"	"	"	12.0	22 41	23 03	0	3 11	25
18660	HD 207379	21 43.4	29 16	"	"	"	12.0	23 06	23 36	3	46	24
18661	^{MW¹³} HD 9105	01 24.6	62 51	"	"	"	11.9	23 46	23 58	2	27W	13
- 18662	" 12302	01 55.6	59 12	"	"	"	11.9	00 02	00 20	1		
18663	" 15472	02 24.4	70 30	"	"	"	11.9	00 42	01 14			
18664	" 30353	04 41.3	43 06	"	"	"	12.0	01 32	02 14		E 43	
18665	" 47960	06 36.0	15 34	"	"	"	12.0	02 30	03 20		E 25	

Dome Temp. 54F

Focus 12.931

Dome Temp.

Transparency Conditions Good - in fact excellent

292

Starting Time LST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 53	W 1 35	13 01	1	7.7	B(3)2c	1-1-1	Be Bin	fine
18 54						4	Set 1	fine
19 02						4	" 5"	
19 57	N 0 51	46 37	1	4.95	K0	4	" 9"	
20 08	√ 1 07	30 27	1	(8.9)	G0	1-1-1	AG Southern of pair.	fine
20 45	√ 3 27	13 03	2	7.7	B3ne	1-1-1	Be Bin	Extremely
21 24	√ 1 28	30 02	2	8.63	K0	1-1-1	AG	fine
22 04	√ 2 09	25 43	2-1	8.64	G5	1-1-1	"	fine
22 38	√ 2 41	30 39	2	8.33	K0	1-1-1	"	fine
23 03	√ 3 11	28 34	2	8.20	G5	1-1-1	"	fine
23 36	√ 3 46	29 30	2	8.51	K0	1-1-1	"	fine
24 05	10 27 W	63 06	2	7.22	B5(e)	1-1-1	Be Bin.	fine
24 37	10 58 W	59 27	1	8.0	B3(e)	1-1-1	" "	fine
25 04	11 42 W	70 45	0	7.8	B4ne	1-1-1	" "	
25 34	12 34 E	43 13	0	8.3	G0p	1-1-1	Bedelman's * (partially obscured by ...?)	fine
26 02	12 22 E	25 31.5	0	8.65	M0	1-1-1	AG-25	fine

Date Oct 26 cont'd Observer - H v Julian Day 175

[illegible]

Dome Temp. 44°F

Transparency Conditions

294

ocus.....

Dome Temp. 43°F

End Time
E.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
012 E	2928	0	8.86	G ₀	1-1-1	A.G. 25 Light Haze on horizon	weak from ground
055 W	2525	0	8.93	G ₀	1-1-1	" " " "	from ground
0127 W	2444	0-1	8.16	K ₂	1-1-1	" " " "	from ground
					4/3	3 P. H. Loaded.	
						8 plates in Dome.	
						Hon. M.	
						Mc Sc HW SW S	
						Q126 -14.2^S +50.9^S -19.2^S -5^m -10^S	

Date _____

Observer

Ad -

Julian Day

[illegible]

Dome Temp. 38°C at 2130

Focus. 12.931

Dome Temp.

Transparency Conditions Excellent

296

About 200 visitors from 1830 to 2130. Hd, H₂ showed
M₁₅ with 74", H with 5."

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12-12	29 00	0	8.58	K0	1-1-1	AG. prog. Becoming hazy.	
23-29	63 05	0	7.22	Bs(e)	1-1-1	Be Bin. Star all but lost in haze.	
	OTB.				6/4	1 PH + 8 H on M	
						Dec. 29	
						HC ^s -49.2 ^s	
						SC +54.0 ^s	
						MTW +28.2 ^s	
						STW -1 ^m	
						SW -9 ^s	

297

Date Tues Oct. 30/31 1951 Observer Ha - Julian Day 3950

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End	D.
18671	31 Cygni	20 10.5	+46 26	I-12	E103-20	^{set} 008	10.0	18 02	18 03	4		
								18 05	18 07			
								18 06	18 13		0 3	46
18672	MWC 312 M.O. 180 398	19 11.3	+12 56	"	"	"	10.3	18 21	19 01	1	2 30	10
18673	θ Herc	17 52.8	+37 16	"	"	"	10.3	19 37	19 08	2		
								19 10	19 12			
								19 13	19 17		3 4	17
18674	110 Herc	18 41.4	+20 27	"	"	"	10.3	19 24	19 25	3		
								19 27	19 29			
								19 30	19 34		3 57	5
18675	M.O. 192263	20 37.5	+27 55	"	"	"	10.2	19 39	20 29	4	2 46	5
18676	ν Peg.	23 20.4	+22 51	"	"	"	10.2	20 35	20 36			
								20 37	20 39			
								20 39	20 43		22 23	
18677	γ Cep.	23 35.2	+77 04	"	"	"	10.2	20 57	20 58	5		
								21 00	21 01			
								21 03	21 05		5	

Dome Temp. 51°F

Focus 12.931

Dome Temp.

Transparency Conditions

Hazy with clouds all around
Moon clear overhead.

298

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0-1	4.95	K0-B8	4	Set 2	fine
					4	" 5	
0 18	46 35				4	" 9	
2 04	13 02	0	7.7	B9nc	1-1-1	Be binary	fine
		0	5.0	K1-II	4	Std Lumin. Set 2	fine
					4	5	
3 40	37 18				4	9	
		0	4.7	F5-IV	4	Set 2 Std Lumin.	fine
					4	5	
3 07	20 30				4	9	
2 06	23 06	0	8.94	G0	1-1-1	AG 25	fine
			5.2	F8 III	4	Set 2 Std Lumin.	fine
					4	5	
0 22	23 10	1			+	9	
	77 21	1	4.4	K1 IV	4	Set 2 Std Lumin.	fine
					4	5	
0 15					4	1	

299

Date Sept 24 30-31 1951 Observer H. H. Julian Day 243.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle Incl	De
18678	1 Psc	23 34.8	45 05	7 2	L 93-00	0.2	10.2	21 13	21 14	3		75
								21 17	21 19			
								21 20	21 24			03
18679	H.D. 208700	21 53.0	+28 50	"	"	"	10.2	21 33	21 57	4	22	21
18680	H.D. 203415	21 51.0	+30 21	"	"	"	10.2	22 02	22 40	1		
18681	P. 205	01 13.8	57 42	"	"	"	10.2	22 53	22 58	2		
								22 56	23 02			
18682	107 Psc	01 37.1	14 47	"	"	"	10.2	23 11	23 15			
								23 15	23 23			
18683	H.R. 1327	04 11.3	64 54	"	"	"	10.2	23 36	23 40	3		
								23 40	24 00			
18684	HD 9138	01 24.7	25 38	"	"	"	10.2	01 13	01 13			
18685	HD 15747	02 26.7	12 14	"	"	"	10.2	01 35	01 50			
18686	" 19666	03 04.7	15 37	"	"	"	10.2	01 59	01 59			
18687	" 20511	03 12.9	35 19	"	"	"	10.2	01 40	01 40			
	Focus Test				O.T. B-				0200			

Dome Temp.....

Transparency Conditions

good

300

Focus.....

22.30

long fog outside

Dome Temp.....

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	75 22	2	4.9	F3 II	4	2nd 2nd Lumin	fine
					4	5	
0 03					4	9	
2 22	+29 05	1-2	7.93	K5	1-1-1	AG 25	fine
3 06	+30 37	1	8.33	K0	1-1-1	AG 25	fine
4 23	+57 57	0	5.6	F0 Ia	4	3rd 2nd Lumin	fine
5 03					4	2nd 7	
		1-2	6.1	K1 II	2-2	3rd 2nd Lumin	fine
0 01	20 03				2-2	" 7	
	65 00	0	6.2	K5 Ia	2-2	3rd 2nd Lumin	fine
2 08	- - -				2-2	2nd 7	
4W	05 55	0	6.9	K4	2-2		fine
4W	12 29	0	7.7	A ₂	1-1-1	KA, 70	l weak
4W	15 49	0	8.0	A ₅	1-1-1	KA, 71	fine
	32 30	0	7.9	A ₁	1-1	KA, 47	l weak
					4/3	Ex - are stop	

3
~~4~~ P. H. Loaded.
 12 Plates in Dome.
 H. on M.

from S.W. 2nd 4th
 use impossible to find
 anything in guiding eyepiece

Dome Temp. 23° F

Focus 12.93.1

Dome Temp. 22° F

Transparency Conditions *Some clouds low in south + west
but hazy*

302

20:00 haze quite bad

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 47	38 04	0	5.5	Ko. II	4	Set 3 Std Lum.	fine
3 4	2 12				4	7	
3 7	1 05	0	8.67	KO	1-1-1	AG 25	ok
	0 T.B.				4/3	considerable cloud + haze. during exposure. stopped cleared of haze	ok
						20:30 haze covering everything, took focus plate and closed up.	ok
						4 RH loaded, 8 in dome t. on M	
						Cleaned in of rails, cloud OK L	

3955

Date Dec 4-5, 1951 Observer Hd - Hr Julian Day 355

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Angle End	De
18680	HD 180398 MWC 312	19 11.3	12 56	7-12	E103+0	cut 008	-0.8	18 32	19 20	1	2 42	1
18691	HD 201669	21 06.0	26 53	"	"	"	-0.8	19 24	20 16	2	1 45	1
18692	HD 203171	21 15.5	27 04	"	"	"	-0.8	20 19	21 29	3	2 47	2
18693	HD 212943	22 22.8	+ 4 12	"	"	"	-0.8	21 35	21 41	4	4 53	3
18694	HD 219800	23 13.6 13.5	27 04 28 5 3	"	"	"	-0.9	21 46	22 16	1	1 37	2
18695	HD 2713	0 25.6	27 34	"	"	"	-0.8	22 19	23 29	2	1 38	2
18696	HD 5585	0 52.5	28 59	"	"	"		23 32	00 10	3	5 45	3
18697	HD 7300	01 08.1	25 55	"	"	"		00 35	01 05	4		4
18698	HD 17382	02 42.2	26 10	"	"	"		01 37	02 17	5		5
18699	HD 30353	04 41.8	43 06	1	"	"		02 27	03 01	6		6
18700	" 48591	06 39.1	29 28	"	"	"		03 19	04 15	7		7
18701	" 49141	00 41.9	26 49	"	"	"		04 24	05 11	8		8
Focus Test				D.T.B.				↑ Not recorded				

304

Delayed by snow (road & Telescope)

Dome Temp. 16°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 2 42	13 04	0	7.7	B ₃ nc	1-1-1	Be Bin.	fine
W 1 45	27 07	0	8.36	Ko	1-1-1	AG	fine
W 2 48	27 19	0	8.43	G5	1-1-1	" Park button on a potter needs cleaning	fine
W 1 53	4 26	0	5.93	Ko	1-1-1	Std Vel	fine
V 1 37	27 20	.0	7.91	Ko	1-1-1	A/S:	fine
V 1 38	27 51	0	8.60	G ₀	1-1-1	"	fine
157°N	29 16	0	8.22	Ko	1-1-1	" Flashlight kinked out. Couldn't find an the bulb In Machine Shop	fine
50°W	26 11	0	8.56	Ko	1-1-1	"	grad
11°W	26 53	0	3.33	Ko	1-1-1	"	fine
102°W	43 12.5	0	8.13	Gop	1-1-1	Bidelman's Star.	fine
111°W	27 23	0	8.14	G ₀	1-1-1	AG	fine
145°W	26 15.5	0	7.10	G ₀	1-1-1	A/S wrong star of pair in finder	ok guiding lwk
					4/3	4 P.H. loaded -	
						8 Pl. in D-	
						H on M.	
						ME Sc H T a S W SW	
						-50.0° +64.2° +42.0° 7.3 m -9°	

305

Date Mon., Nov. 5/6, 1951 Observer Wm - Hr Julian Day 2 433 956

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End	Dec
18702	HD 203 288	21 16.2	+25 49	I-12½	E103a-0	SET 008	-2.4	17 55	18 57	1	17	+26
18703	HD 205 287	21 29.2	+27 10	"	"	"	-2.6	19 01	20 21	2	31	+27
18704	HD 212 943	22 22.8	+04 12	"	"	"	-2.6	20 28	20 33	3	-	+04
18705	HD 214 332	22 32.3	+29 13	"	"	"	-2.8	20 41	22 41	2	48	+29
18706	AG 710	01 08.5	+25 45	"	"	"	-2.8	22 48	01 12	1	49	+25
18707	HD 49365	06 43.0	28 39	"	"	"	-2.8	01 35	02 35	2	35	28
18708	" H9500	06 43.6	25 36	"	"	"	-2.5	03 08	03 53	3	37	25
18709	" 516 ⁸⁹ 76	06 53.3	25 22	"	"	"	-2.6	04 14	05 14	4	38	25
	" 52071											
	Focus	Test			O.T.B.							

Dome Temp. $\pm 23^{\circ}\text{F}$

Focus.....12:03.1.....

Dome Temp.....

Transparency Conditions OK

Cloud on W horizon

306

Ending Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 59 1	0 ^W 17	+26 03	0!	8.65	K5	1-1-1 AG 25	wk
19 2 2	1 ^W 31	+27 24	0!	8.89	K5	1-1-1 AG 25 FREQ'Y REGULATION POOR.	wk
19 33 3	—	+04 28	0!	5.93	K0	4 Vel 548	comp. wk
19 41 3	2 ^W 48	+29 29	0	8.91	G5	1-1-1 AG 25	fine
19 49 3	2 49W	26 03	0	8.99	K0	1-1-1 AG 25	fine
19 50 3	130E	28 36	0	8.75	G5	1-1-1 11 11 Light cloud from SW	fine
19 51 3	007E	25 33	0	8.51	K2	1-1-1 AG 25 02:20. Quite overcast in SW. 2 visible but very hazy.	wk
19 52 3	100W	25 18	0	8.51	G2	1-1-1 AG 25 Becoming slightly hazy overhead.	fine
						02:40 Hazy spreading from in which I am working. An delay in next exposure a few minutes to see what happens.	
					4/3	03:40 Hazy & cloudy. Clearing away behind.	centre to red
						04:50 Hazy & cloud confining themselves to western horizon.	
						05:23 R. in horizon. 16	
						05:30 Too hazy to see any thing in finder.	
						Closing up.	
						NE SC MTW STW SW	
						Navg -46.0° +69.3° -14.0° -0.8° -42.5°	

4 P.H. Loaded.
Plates Needed.
Hon Mr.

307

Date Fri. Nov. 9-10 / 1951 Observer Ha - Hr Julian Day 3960

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Star Angle End	Dw.
18710	η Cep	20 43.3	61 27	I-12K	E103-a-0	^{20x} 2008	+4.0	17 49	17 49	1		
								17 51	17 52			
								17 53	17 54		1 05	51
18711	μ Cep	21 40.4	58 19	"	"	"	+4.0	18 05	18 06	2		
								18 07	18 10			
								18 11	18 11		1 21	
18712	75 Cyg	21 36.3	42 49	"	"	"	+4.0	18 26	18 27	3		
								18 29	18 32			
								18 33	18 41		1 32	3
18713	H.P. 206385	21 36.7	+29 51	"	"	"	+4.0	18 49	19 17			
18714	16 Cyg (Pa)	19 39.2	50 18	"	"	"	4.0	19 31	19 35			
								19 38	19 46		1 40	
18715	16 Cyg (Fo)	19 39.2	50 18	"	"	"	4.0	19 48	19 52	2		
								19 52	20 00		1 50	
18716	9 Peg	21 39.8	16 53	"	"	"	4.0	20 06	20 07			
								20 08	20 10			
								20 11	20 15			

Dome Temp. +37°F

Focus.....12.925

Dome Temp.....

Transparency Conditions clouds low in south + west.
at first - clearing later

308

Ending Time
R.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		2	4.6	KO IV	4	Set 2 15 sec. Std Lumin.	fine
					4	5 40 sec.	
0 05	61 39				4	9 40 sec.	
		2	var 5.3	M2 Ia	4	Set 2 Std Lumin.	guiding?
					4	5	
0 28	58 33				4	9	
		2	6.6	M1 III	4	Set 2 Std Lumin.	fine
					4	5	
0 02	43 03		8.15		4	9	Only two exposures on plate - possibly last two exposures superseded. first exposure missing
0 34	+50 02	2	8.05	K2	1-1-1	AG 25 Telescope drifted rapidly in dec while setting on star and during exposure sometimes dropped through slanted in etc. (some 2. out of exposure while loading etc. p. 20)	good fine
		2	6.9	G2 II	4	Set 3	fine
3 01	+50 24	2	'		4	Set 7	fine
		2	6.9	G5 II	4	Set 3	fine
3 15	+50 24	2			4	Set 7	
		2	5.3	G5 II	4	Set 3	fine
					4	6	
1 18	+17 07				4	9	guid.

309

(cont'd)

Date Fri Nov. 9-10 / 1951 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	Angle Ind	Dec
18717	A G 12385	21 16.5	+29 42	1-12	E 103-a-0	^{ut} 1008	4.0	21 23	21 3	4	50	
18718	E Peg	21 39.3	+9 25	"	"	"	4.0	21 20	21 20			
								21 21	21 22			
								21 23	21 24			
18719	H.D. 212943	22 22.8	+04 12	"	"	"	4.0	21 32	21 38	2	23	4
18720	H.D. 6132	00 57.4	+29 27	"	"	"	4.0	21 45	22 23	1	18	5
18721	H.D. 6525	01 01.1	+29 10	"	"	"	4.0	22 28	22 58	4	5	2
18722	H.D. 7308	01 08.2	+25 42	"	"	"	3.9	23 02	23 42			
18723	H.D. 14918	02 19.3	+25 02	"	"	"	3.7	23 47	00 14	3	20	15
18724	H.D. 30353	04 41.8	+43 06	"	"	"	3.9	00 54	01 20	1	5	5
18725	" " 45427	06 22.2	+27 42	"	"	"	3.9	01 34	02 18			
18726	" " 49141	06 41.9	+26 49	"	"	"	3.9	02 30	03 50			
18727	" " 51689	06 53.3	+25 23	"	"	"	3.9	03 39	04 1			
18728	" " 51834	06 53.8	+29 55	"	"	"	3.2	05 07	05 1			
	From Test				O.T.B.							

Transparency Conditions *good*

310

Home Temp.

Focus

Home Temp.

Reading Time
L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 50	29 56	2	8.86	K0	1-1-1	AG 25 Dec OK.	good
		2	3.5	K2 Ib	4	Set 2 15 sec Std Lum.	guiding
					4	5 30 sec	
2 37	+ 9 39				4	9 1 min	
2 08	+ 4 26	2	5.93	K0	2-2	Std Velocity	strong, guiding
0 18	29 44	2	8.62	K0	1-1-1	AG 25	fine
0 50	29 25	2	8.33	G5	1-1-1	AG 25 winky, guiding difficult	good
1 27	25 59	2	8.33	K2	1-1-1	AG 25	v. good
48W	25 16	2	8.37	G0	1-1-1	AG 25 2013 clouding up rapidly from N.W.	fine
29E	43 13	2	8.3	G0p	1-1-1	Bridgman	1 star, guiding
10E	27 40	2-1	8.77	K2	1-1-1	AG 2	strong
31E	26 46	1	9.0?	G0	1-1-1	" "	wk
20W	25 18	1	9.4	G0	1-1-1	" "	fine
56W	29 51	0-1	8.68	K0	1-1-1	" "	fine
					4/3	Set, Nov 10/11 '51. Solid overcast; some rain. Clear focus somewhat at dawn - Wm.	ok

Dome Temp. 40.....

Focus 12.925.....

Dome Temp.....

Transparency Conditions

Clouds clearing

312

Watched faint stopped

after sunset.

Transparency 100%

Reset roughly from clock. ST is now 1.3 min slow, MT. O.K.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
348W	13 01	10	17.7	Be	1-1-1	Be Prog? - Clock rate 1.2121	1.2121
209W	25 41	10	8.64	G5	1-1-1	AC Prog? - Numerical 18731 in error 1.2121	1.2121
309W	30 01	0-1	8.63	100	1-1-1	" Clock rate very low	
358W	28 32	0	8.20	G5	1-1-1	" (Numerical 18734 in error) 1.2121	
			870	G5	1-1-1	" Considerable cloud 2315 on	
			8.33	G5		Down to shells at 0004	
						No and bell drawn to	
						closed down	
						MC SC MTW STW SW 7.4012 0.05 -1.5 -8.25 +0.0m -9.5 Arrived at 5.5 about 1.65 +6.55 +1.8m 1.225 it was going to remain overcast.	
Mon, Nov 12/15	Solid overcast; drizzle w.m.						Found circle lights left on. Cap off spectrosc. per. " Two plates in black box in Dome Believe fogged when Dome lights turned on. Threw it away.
Thurs Nov 15/16	Broken cloud cirrus - too thick to work w.m.						2 P.H. Loaded. SPL in. Dome. H. on M.  0110 Quite Overcast. 0130 Still Quite Overcast. More coming from S.W. Going Home.

Date Wed Nov 14-15/51 Observer L- Julian Day 2,433965

[illegible]

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

314.

Strong winds, passing clouds, delayed opening.

Sat., Nov 17/18. Solid overcast. W m

Date Mon., Nov. 19/20, 1951 Observer Wm - Hr Julian Day 2433.970

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End	D
18 736	MWC 312 HD 180 398	19 ^h 11 ^m 3	+12° 56'	7-12 1/2	E103a-0	SET 008	-3° 0 C	18 16	19 06	1	W 27	+
18 737	HD 204 079	21 21.1	+26 46	"	" 1 1	"	-3.1	19 12	21 12	2	W 23	+
18 738	HD 217 576	22 56.6	+28 10	"	"	"	-3.2	21 16	22 16	3	N 53	+
18 739	AG 814	01 21.3	+26 59	"	"	"	-3.1	22 21	00 21	4	N 11	+
18740	HD 29587	04 34.5	H 157	"	"	"	-3.1	00 30	0 52	1	0 57	11
18741	" 51689	06 53.3	25 23	"	"	"	-3.1	01 08	0 32	2	0 52	11
18742	" 51834	06 53.8	29 55	"	"	"	-3.1	02 35	03 15	3	0 32	11
18743	" 55578	07 08.4	28 38	"	"	"	-3.1	03 59	05 34 ^{5 34}	4	15	11
18744	" 67544	08 3.4	25 05	"	"	"	-3.2	05 42	06 13	1	0 32	11
{		Focus	Just	O.T.B.								

Dome Temp. +24°F

Focus.....+2.927.....(setting not changed!)

Dome Temp.....

Transparency Conditions Good

316

Starting delayed by imminent clouds in W & E.

Exposure Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^W 27	+13° 01'	0	7.7	B3ne	1-1-1	Be Bin Considerable cloud in SE	weak
3 ^W 23	+27 01	0	8.96	G5	1-1-1	AG 25 Still some cloud in SE	weak
2 ^W 53	+28 27	0	8.47	K0	1-1-1	AG 25 " " " " Tel not guiding well in RA. - moves without window in ~60° is NOT planetary gears	weak
2 33 W	+27 16	0	8.89	K2	1-1-1	AG 25 Scattered cloud	weak
0005 E	42 03	0	7.85	G2	1-1-1	Standard Velocity Guiding satisfactory Just now.	fine
0052 E	25 19	0	9.4	G0	1-1-1	AG 25 small amt. of cloud. confined to S.E. horizon. This is probably HD 51690	good
0025 W	29 50	0	8.68	K0	1-1-1	" Guiding becoming difficult	good
0158 W	25 31	0	8.96	K0	1-1-1	Guiding very poor " Exposure time 15 min	good
0112 W	24 57	0	7.98	G5	1-1-1	" " " "	good
					4/3	3 P.H. found.	
						8 Pl. in Dome	
						H. on M.	
						Difficulty in closing Shutters Because of clutch slipping	

Date Tues Nov. 20-21 / 1951 Observer Ha - H. r Julian Day 2 433 971

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End	Dev
18745	H.O. 180398 MWC 312	19 11.3	+12 56	J-12 $\frac{1}{2}$	E 103-2-0	set 1008	-3.7	17 37	18 51	2	12 13	
18746	AG 12398	21 17.0	+29 51	"	"	"	-3.8	18 33	20 03	3	2 23 13	
18747	H.O. 211884	22 15.2	+25 13	"	"	"	-3.8	20 08	21 18		2 40 13	
18748	H.O. 216465	22 48.0	+28 54	"	"	"	-3.5	21 22	22 14	1	3 13 14	
18749	H.O. 18779	01 21.4	-00 55	"	"	"	-3.8	22 22	22 56	4	1 12 11	
18750	H.D. 11464	01 47.6	+25 31	"	"	"	-3.9	22 51	23 41	3	1 30 25	
18751	H.O. 44637 MWC 139	06 17.7	+15 09	"	"	"	-3.8	23 51	00 01		1 51 15	
18152	HD 51690	06 53.3	25 22	"	"	"	-3.8	00 32	01 15	1	5 15 15	
18153	" 51689	" " "	25 23	"	"	"	-3.9	01 45	04 15	2	1 15 15	
18754	HD 65176	07 52.4	-01 20	"	"	"	-3.9	04 35	05 05	3	1 15 15	
18755	{ " 73509	0 33.7	28 51	"	"	"	-4.0	05 20	06 00	2	1 15 15	
	{ Focus Test				O.T.B.							

318

Dome Temp. +18 F.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
2 52	+13 02	0	7.7	B3ne	1-1-1	Be binary	all comps and * spectra very weak. Something wrong.	weak
2 23	+30 04	0	8.98	K0	1-1-1	AG 25		weak
2 40	+25 29	0	8.68	K2	1-1-1	AG 25	later found slit set at 001.	weak
3 03	-29 13	0	8.49	G0	1-1-1	AG 25	Hd.	too weak
1 02	-00 40	0	7.49	K0	1-1-1	Std Vel.		weak
1 30	+25 49	0	8.33	G5	1-1-1	AG 25	A.A. guiding erratic spot n.s.g.	too weak
220 E	15 08	0	7.6	B3c	1-1-1	Be binary		" "
35 -	0 19	0	8.2?	G0	1-1-1	AG 25	0200 Clouded up quite rapidly from N.W. covers greater portion of sky but very light & very broad	" "
100 W	25 18	0	9.4?	G0	1-1-1	AG 25	0200 I'm at in guiding eyepiece. n-exists	" "
05 W	-01 30	0	7.9	B(s)ne	1-1-1	Be Binary	0257 clouds clearing	" "
124 W	28 40.5	0	8.83	G0	1-1-1	AG 25.	0310 more light clouds clearing	" "
					4/3			
						4 P.H. finished. Plan for		
						from M		
						NE SC HTW STW SW		
						Nw 2. +4.8 ^s +14.7 ^s +4.8 ^s T.2 ^m +7 ^s		

320

Dome Temp.....

[illegible]

Date Sat Nov 24-25, 1951 Observer Wm - Hd - L Julian Day 174

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle Ind	Do
18758	Cygnus A - 9m	19 57.0	40 28	Newt	I-N + A25	filter		18 29	19 29	1	27W	4
18759	"	"	" 33	"	E-103A0			19 55	19 45	2	W 44	5
18760	" + 9m	19 58.8	"	"	E-103A0			19 56	20 06		W 42	4
18761	"	"	"	"	I N	+ A25 filter		20 33	20 48	2	W 44	
18762	Cas A + 10'	23 21.2	+58 42	"	I N + A25	filter		23 21	23 51		W 26	53
18763	"	"	"	"	E103A0	no filter		00 00	00 20	2	W 35	53
	Cas A - 10'	"	+58 22									58
18764	Tau A - 10'	05 31.6	+21 46	"	I N	A25 filter		02 05	02 21		W	
18765	"	"	"	"	E103A0	no filter		02 29	02 39		W	
18766	" + 10	"	+22 06	"	E103A0	"		02 51	03 01		W 2	22
18767	" + 10	"	"	"	I N	A25 Filter		03 08	03 22		W 47	53
18768	" - 10	"	+21 45	"	E-103A0	no filter		03 27	03 37		W 01	21

Dome Temp. 26 F

Transparency Conditions Excellent

322

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 27 W	40 28	0				Wm guiding	Focussed on η Cyg
3 ^W 44	40 28	0				Hd guiding	Plate holder on S side.
4 ^W 02	40 28	0				Wm guiding.	
4 44 W		0				Hd guiding	
4 ^W 26	58 47	0				Hd guiding	Focussed on 4 Cas
4 55 W	58 47	0				Wm "	Plate holder on W side.
	58 27	0					Had to give up - couldn't reach. Better on S side
← W 0 45		0				Wm "	Plate holder on E side This plate emulsion wrong way.
← W 1 03 ^{2' 45"}		0				" "	
1 ^W 25	22 06	0				Hd "	
1 47 W	22 06					Hd.	
2 01 W	21 45					Wm	Repeat of 18765

Date Tues 27 Nov 51Observer Wm Ba L Hr

Julian Day

Plate No.	Object	E.A. 1900 1950	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.	Angle Ind	Do
18769	{ Area 39	19 48.5	44 57	N	E103a0			1837 ³ 18 ^S	1838 18 ^S			
	{ Cyg A - .9"	19 57.0	40 33	"	"			1842 40 ^S	1847 40 ^S			
18770	Cyg A - .9"	19 57.0	40 33	"	E 103a0			1851	19 07			
18771	Cyg A - .9"	"	"	"	IN + A25 Filter			1914	1938			
18772	Cyg A - .9"	"	"	"	E 103a0			1945	20 15		45W	
18773	{ Area 19	23 25.2	+60 16	N	"			21 45 40	21 50 40		43	
	{ Cas A + 1.3	23 22.5	+58 32	"	"			21 55 12	22 00 12			

Dome Temp. 15

Transparency Conditions

Good

324

Focus

Dome Temp.

Ending Time
A.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

44 54 0

Wm Guide

40 30 0

" "

46 30 0

Wm Guide

40 28 0

L Guide

4 25W

40 28 0

Wm Guide

slightly drift in & due to
guiding

2W 33

60 13 0

L guiding

+58 29 0

" "

guide # getting lost
Light patches of haze

by 22 10 Cloud — Solid

Warm front moving in

gave up at 23 10

	HC	SC	HTW	STW	SW
Nav 28 10	+10.5 ^s	+19.1 ^s	+5.5 ^s	+1.2 ^m	+22.2 ^s
Nav 30	+13.0 ^s	+20.7 ^s	-13.5 ^s	-1.2 ^m	+2.5 ^s

Date Fri Nov 30 - Dec 1/51 Observer HD - L - /42 Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End	Ded.
18774	{ Kaptay Area 39	19 48.5	44 57	N	103a0		.	19 03 10	19 08 10	1	385	4
	{ Cyg A + 0.9	19 58.8	40 33	"	"			19 13 20	19 18 20	1		4
18775	Cyg A + 0.9	"	"	"	"			19 21	19 37	2	57	9
18776	"	"	"	"	I-N	Filter		19 41	19 55	1		
18777	{ Kaptay Area 19	23 25.2	60 16	"	E-103a0			21 24	21 37	2	33	
	{ Cass. A + 1.3"	23 22.5	58 32	"	"			21 36	21 41 12	1	31	3
18778	"	"	"	"	"			21 45	22 01	1		
18779	"	"	"	"	I-N	Filter		22 07	22 31	1		
18780	Cas A - 1.3"	23 19.5	"	"	E-103a0			23 09	23 25	1		
18781	"	"	"	"	I-N	Filter		23 28	23 52	2		
18782	{ "	"	"	"	E-103a0			23 54 40	23 59 40	1		
	{ K. Area 19	23 25.2	60 16	"	"			00 03 42	00 08 42	1	5	
18783	{ K Area 73	05 16.8	15 03	"	E-103a0			00 52 07	00 57 07	1	01E	11
	{ Jov A - 10'	05 31.6	21 56	"	"			01 04 34	01 09 34	1	03E	11
18784	"	"	"	"	"			01 15	01 31	1		
18785	"	"	"	"	I-N	Filter		01 36	01 50	1		

Dome Temp. 41 F

Transparency Conditions Poor

326

Focus.....

Dome Temp.....

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	W 3 38.5	44 54					L guiding	
12		40 30.5					L "	
37	35 7W	40 30.5					L "	
1	42 5W	41 15.5					Hd "	
2	2 23W	50 18					Hd "	
2	2 38W	58 34					Hd "	
2	2 58W	58 34					Hd "	
2	3 28W	"					Hd "	
2	4 24W	"					L "	
2	4 52W	"					L "	
2		"					L "	
2	W 5 03	"						
2	0 01E	15 06					Hd "	
2	0 03E	21 58					Hd "	
2	1 18W	"					Hd "	
2	4 48W	"					Hd "	

Date Nov 30 Dec 12 Cont. Observer Hd-L-Hr Julian Day

[illegible]

328

Home Temp. 37.5

[illegible]

329

Saturday
Date Dec 1/2 1951 Observer Ha- Julian Day 2433982

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Angle and	Dist.
18789	HD 212567	22 20.2	+28 11	F12's	E103-a-0	set .003	+6.8	18 18	19 18	118	120
18790	HD 213025	22 23.5	+26 31	"	"	"	+7.0	19 23	19 39	136	126
18791	AG 13862	22 59.4	+28 17	"	"	"	7.0	19 42	20 38	159	137
18792	(HD 223424 from test	23 44.3	+26 29	"	"	"		20 * 42	21 40		
18793	H.D. 11592	1 48.7	+10 08	"	E103-a-0	"	+6.8	22 24	22 46	118	120
18794	MWC 49 HD 15472	2 24.4	+70 30	"	"	"	+6.5	22 55	23 21	157	127
					O.T.A.	? - no focus				on 187-4	

331 (Sun-Mon Dec 2-3 ? Rd)

Date. Mon Dec 3 ↙

Observer.....Hr

Julian Day

[illegible]

Dome Temp. +37°F

ocus. 12-925

Dome Temp.

Transparency Conditions fair

332

Hazy near Horizons

Some ground fog

Ending Time
E.S.T.

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	29 50 W	0!!!	8.68	Ko	1- 4/3	AG 25. { Late in starting because I had to fix hook on mirror section. Difficulty in focusing etc. No first half observation!! 0142 Suddenly become <u>very!!</u> hazy. Cannot see <u>anything</u> in guiding eye piece. 0148 <u>☆!!??!! HAZY!!</u> → Stopped exposing. 0208 Quite hapelss. Closing up. — 11 — 1 P. H. loaded. 4 + 12 plates in D. H. on M. Dec. 3 Hc +13.2 SC +22.8 MTW +14.2 JTW +3.2 SW -20.5	

Date Monday, Dec. 3/1, 1951 Observer Wm. - H. V. Julian Day 2433984

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle and	Dr
18 796	HD 209 680	22 00.1	+29°28'	I-12½	E103A-0	SET 008	+5.0	18 01	20 01		2" 29	+2
18 797	HD 8779	01 21.4	-00 55	"	"	"	+5.0	20 08	20 38		0" 10	-0
18 798	HD 223 424	23 44.3	+26 29	"	"	"	+5.0	20 44	22 01		2" 49	+2
18 799	HD 19618	03 04.4	+15 01	"	"	"	+5.0	22 11	01 11		3" 4	+1
18 800	" 51534	06 58.8	29 55	"	"	"	5.0	01 21	01 21 02 05		2" 2	+1
Focus lost					G.T.B.							

Dome Temp.....40.°F..

Focus.....12.226.....

Dome Temp.....

Transparency Conditions *Considerable Haze*

334:

*Starting delayed by sudden late clearing.*Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^W 29	+29°45'	0	9.98	K5	1-1-1	AG 25 MIRROR ASTIGMATIC	1 wk
0 ^E 10	- 0°38'	0	7.49	K0	1-1-1	Std Vel	good
2 ^W 49	+26 48	0	8.50	K0	1-1-1	AG 25 Less haze - but some cloud in W	fine
235W	+15°14'	0	9.7	F8	1-1-1	Hi Vel	good
020E	+2150.5	0	8.68	K0	1-1-1	AG 25. 0137 Clouds? Approach from W. 0150 Becoming quite overcast in all regions we see in. 0200 Cannot see anything!! in either eye piece. 0205 Exposure cut short by 16m. 0218 No signs of breaking closing up.	good?
					4/3.		
						4 P.H. loaded.	
						8 Pl in D.	
						H. on 1M.	
						I was Dec 4 Rain afternoon and early evening. Clearing about 8-9, found telescope wet and dome dripping did not open. L. spec 5 +17.5 ^s 5c +23.4 ^s Hru -5.0 ^s 5tu +.1 m 5w +29 ^s	

Date Thurs Dec 5-6, 1951 Observer Ad- Julian Day 173.5

[illegible]

Dome Temp. 43 FFocus 12.925

Dome Temp.

Transparency Conditions

Poor.

336

Clearing with fog + haze after sunset.Reading Time
R.T.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 2 41	27 45	1-0	7.72	G0	1-1-1	Very poor this'out. Thick 1740-1755 Very thick fog higher than dome. Closing. Clear & cloudy at intervals thereafter.	fine
						HE SC NTW STW SW Nov 7 +19.5° +24.3° -27.5° -.6" +10°	

Date Fri. Dec 7/3, 1951 Observer Wm - Hr Julian Day

this should
 be 2047,
 probably
 R.C.W.
 2016 152

[illegible]

Dome Temp. +50°F

Focus 12.8.25

Dome Temp.

Transparency Conditions Same cloud on horiz; haze

338

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^W 08	-00 38	0!	7.49	K0	1-1-1	High wind Std Vel ← The ultimate in poor seeing Showed 13 Air Force types (in 74")	Too weak
0 ^W 18	-06 41	0	8.7	G0	1-1-1	Hi Vel	weak
0058W	+06 17	0	8.8	A5	1-1-1	Hi Vel	good
0142W	1546.5	0	9.3	F8	1-1	Hi Vel. 0102 Cloud very heavy in N. Light cloud coming from W. Passing continually overhead. (guiding)	good
	1600	0!!	8.99	K ₂	1	AG 25 0134 Cloud clearing off. 0211 Wind increasing. 0220 Image very jumpy. forgot last sec. of comp.	Too weak
					4/3	0249 Heavy cloud w. NW, N. 0300 Much heavy cloud all around horizon. Wind has moved Dome slightly 4? times. 0306 STAR gone in both eye pieces. 0309 SKY completely overcast. 0351 Still quite solid - Phoned weather office & they said only 1 chance in 3 of clearing so closing up.	
Dec. 10	+21.8°	+25.5°	-7.2	-0.1 ^m	-4°		
12	+22.2°	+23.9	+29.2°	+0.6 ⁿ	-18°		
						2 P.H. loaded 4P/ in p. H on 1M.	

0311

Date Wed Dec 12/13 1951 Observer Ba. Julian Day 3773

[illegible]

340

Dome Temp.....

[illegible]

Date Sat Dec 15-16, 1951 Observer Ad- Julian Day 3996

[illegible]

Transparency Conditions *Good*

342

Dome Temp.....

[illegible]

from red ink.

343

1820?

Date Jan Dec 11/17 1951 Observer Pa Ho - L Julian Day 3117

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End
18810	HD 212943	22 22.8	04 12	7-12"	E10-0	.008	-11.0	1754	1804 ^{04?}	-	
	BR 159 28	0 11.8	16 65								
18811	HD 1368	0 12.7	-00 11	"	"	"	-11.0	1920	2000	-	31.0
18812	HD 3556	0 33.4	105 29	"	"	"	-11.0	2010	2100	1	24
18813	HD 10097	1 33.7	04 37	"	"	"	-11.0	2203	0001		244
18814	L 52147	06 55.0	29 22	"	"	"	-11.0	00 11	01 27	5	35
18814	AG 3682	06 55.3	26 22	"	"	"	-11.1	01 31	03 01	4	30W
18815	HD 73160	08 31.8	26 36	"	"	"	-11.1	03 08	04 34	1	27W
18816	" 88008	10 03.7	25 02	"	"	"	-11.1	04 39	06 05	2	26W
18817	{ " 95363	10 55.5	27 40	"	"	"	-11.1	06 10	07 04	3	33W
	Focus Test				O T B						

Dome Temp.....5.....

Focus.....12.125

Dome Temp. $-1^{\circ}F$

Transparency Conditions

Charles

344

Experimenting with post. 11/12/57 and H₂

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 21		4 27	<0	5.93	KO	3	Star Vel. Exp. well seen 78 in	good.
		100 06		0.1	-0		Set on X band for 24.2 in 56 min	
01 00	00 06	40	7.7	G0	1-1-1	Hvel	Reset Watch after 1 hr. 10 min. Row in spec.	too weak
01 52 49	05 46	<0	9.2	F5	1-1-1	"	Watch stopped again	too weak
01 03 44	04 52	<0	9.6	G0	1-1-1	"	"	Too weak
01 03 50	03 5E	29 18	0	8.54	G5	1-1-1	AG. 25 - found plate broken in holder.	
01 04 1	1 30 W	26 18	0	8.82	G5	1-1-1	" "	weak
01 04 1	1 27 W	26 24	0	8.70	K0	1-1-1	" " Too cold for spotter to	Too weak
06 05 2	1 26 W	24 46	0	8.72	G5	1-1-1	" " work satisfactorily.	Too weak
07 04 1	1 33 W	27 23	0	7.93	G0	1-1-1	" "	Too weak
						4/3		Centre of beam that missing
							HC 27.3 S +23.0 S Dec. 17 " 19 +30 S SC +23.2 S +23.6 S MTW +14.0 S - STW -9.2 S - BW +33.3 S +10.3 S	
Mon Dec 17/18: Clouds at sunset; Filling in steadily Wm Tues. Wed, Dec 18/19. 00 30 Light snow falling in spite of apparently clear sky. Light cloud in north. H.V.								

51678 from road in i.

十一

Date Wed Dec 19-20/51 Observer Hd (Ho) Julian Day 173

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End
18817 F	Focus Test						O.T.B. -11°C				
18818	τ Cet	1 39.4	-16 28	I-12	E10320	008	-10.9	18 28	18 56	1	116-

Dome Temp. +6. F
 Focus 15.307
 Dome Temp.

Transparency Conditions

346

Dec 19 changed to 25" camera 12 1/2" was { Focus 12.925 Tilt 20.28 } { Focus 15.307 Tilt 23.18 }

Ending Time
 R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Std Vel. Exp with counter. 24 meter	
					6/4	Six 1 15.207	
					" 4	15.407	
					" 10	15.307, correct by chart. OK.	
						Opened about 1715. Ho testing integrator on 3 Peg	
18 56	Σ 1 16 -16 10	0	4.65	G8V	3-3-3	Have several mags. * nearly gone at end Too weak	
						HC SC HTW STW SW Dec. 21 +32^S +22^S — — -5^S	
						Where is arc strikes?	
						Did watch 1 hour in error.	
						3 P.H. in dome loaded but not spotted.	
						Need plates.	
						4 PH washed from new box - R	
	Fri Dec 21/22, 1951 - Solid Wm. Sun Dec 23/24, 1951 - Solid until 22:30, then broken Wm.						

18121 - 51630
 51690
 for 1000 ml.
 18741

Date Mon/Tue. Dec. 24/25/51 Observer R Julian Day 2, 434, 005

[illegible]

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

ocus. 15.382

Dome Temp.

Transparency Conditions

Cloudy at first near horizon
 so delayed opening; dome shutters not opening properly.
 Dome ice over rollers, would not move
 Sidewalk took 3 HOURS 54 minutes fact! Ad to 5 mag.

348

Exposure Time
E.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

53m

2^h 41m $+16^{\circ} 27'$

O

2.24

K5 III

12

30,60,20 in. Clearing first! 1st
 plate, weak; will add 2.5 mag.

Too
weak

3.2

5^h 15m $+65^{\circ} 03'$

O

5.96

G5 III

4-4A

Fourth finder badly misaligned. Page. 
 Too hazy & continues. 20 H loaded,
 8 in box. Developed plate, but weak.

Too weak

10-7 OTB.

no centre comp.

18727 - 51690

18741 - 51690

Temp. _____

Angle	End	Dev
10	10	10
20	20	20
30	30	30
40	40	40
50	50	50
60	60	60
70	70	70
80	80	80
90	90	90
100	100	100
110	110	110
120	120	120
130	130	130
140	140	140
150	150	150
160	160	160
170	170	170
180	180	180
190	190	190
200	200	200
210	210	210
220	220	220
230	230	230
240	240	240
250	250	250
260	260	260
270	270	270
280	280	280
290	290	290
300	300	300
310	310	310
320	320	320
330	330	330
340	340	340
350	350	350
360	360	360

ome Temp. $+20^{\circ}\text{F}$
 ocus. 15.389
 ome Temp.

Transparency Conditions

Cloudy at first, but
 in delayed series, but improving later. Sidereal
 clock used, but stopped.

350

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
501' 05	-16° 10'	0	4.65	G8V	12	add 1.0 mag. Add 01 h 28 ^m to sidereal	
					10-7	OTB. Developed plate. Add 2.0 mag. comp 8-8-8	
0 15	-16 10	0	4.65	G8V	8-8-8		
5-08	+03 13	0	5.74	G5V	8-8-0		
					20-14	OTB.	
0 20	-09 37	0	4.81	K2V	8-8-8		
0 30	-09 56	0	4.72	K0V	8-8-8		
0 04	+16 25	0	2.24	K5III	24	75, 150, 300 μ .	
E 0 07)	+01 51	0	6.01	K2V	8-8	At large 2nd. Cloud 23 + 2	
					20-14	OTB.	
						3PH (cloud) + 1000 μ in box.	
						Comp too weak.	

18727 - 51690
 18741 51690

Date 1951 Dec. 30/31 Sun Mon Observer R - Hr Julian Day 2,434.011

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	PA	Angle End	Dist
18828	71 Per	2 ^h 43 ^m .4	+55° 29'	T-25	E10300	008	+2.3C	19 ^h 46 ^m	20 ^h 02 ^m	2	42	5
18829	u Cas	01 01.6	+54 26	"	"	"	+2.3	20 17	21 13	3	2	5
18830	HR 1327	04 11.2	+64 54	"	"	"	+2.3	21 24	22 18	4	2	5
18831	1 Gem	05 58.0	+23 16	"	"	1	+2.4	22 26	23 00	5	8	2
18832	G Kern	06 37.8	+25 14	"	"	"	+2.5	22 55	23 05	6	1	5
18833	O' C' 712	26 49.9	-24 04	"	"	1	+2.5	23 14	23 44	7	2	5
18834	MWC 139	06 17.7	+15 09	"	"	"	+2.5	23 51	02 05	8	3	5
	<i>Stars</i>		<i>West</i>			<i>O. T. B.</i>						

Dome Temp. +32°F

Focus 15.477

Dome Temp.

Transparency Conditions

Cloudy at first resulting in delayed opening. MTW stopped, so did not use. Add 1.7 mag. comp. 15-15-15

Ending Time
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ^h 21 ^m	+55° 41'	0-1	4.93	K3V	15-15-15	Visible star.	Some
00 24	+54 40	0-1	6.04	?	15-15-15		1 strong
00 20	+65 01	2-1	5.96	G5 III	15-15-15		1 strong
00 32	+23 15	0	5.08	4p	15-15-15		1 strong
01 17	+25 11	0-1	3.95	G8 Ib	45		fine
00 50	+24 05	0-1	?	K3Iab	15-15-15		1 weak
03 25W	+15 10	0-1	7.6	B3e	15-15-15	See Bin.	fine
0310 Becoming quite cloudy East.							
0322 Strong wind from East.							
0326. Sky very cloudy.							
0345 Weather office says not much chance of clearing. Closing up.							
49/28.							
4 P.H. Loaded.							
4 P.H. in D.							
Horn M.							
Heat off Ck-K.							
MC SC MTW STW Corr							
Jan 2, 1952 +46.8° +22.8° -7.2° +3.3° +4.4°							

49/28

18727 - 21675
10751

Date _____

Observer

L

Julian Day

[illegible]

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp.....

Sky completely overcast

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Settings 0 2 4 6 8 10 Developed in D19	
						" " " " " " " in Morgans'	
						" " " " " " " in D19	
						Exposures 2 4 6 8 10 12 sec.	
						2 Pts loaded.	
						<u>Note on these plates.</u>	
						B has better grain and contrast than A.	
						But B is less dense than A and is	
						in all respects inferior to C. In fact,	
						the improvement in grain and	
						cleanliness of C may make it preferable	
						to A in spite of the loss of density.	
						J.F.H.	

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End
18835	M Cas HD 6582	1 01.6	+54 26	J-25	E103-a-0	.008	-2.0°C	18 16	18 40	4	0 08
18836	HR 8832 HD 219134	23 08.5	+56 37	"	"	"	-2.0	18 55	19 41	2	-
18837	T Cet	1 39.4	-16 28	"	"	"	-2.0	19 55	20 01	3	0 53
18838	HR 1327	04 11.2	+64 54	"	"	"	-2.0	20 10	20 30	1	1 12
18839	56 Ori	05 47.3	+01 50	"	"	"	-2.0	20 42	21 06	4	2 10
18840	I Gem	05 53.0	+23 16	"	"	"	-2.0	21 17	21 25	1	2 03
18841	MWC 181 HD 44637	06 17.7	+15 09	"	"	"	-2.0	21 47	22 57	1	0 40
18842	O' CMa HD 50877	06 49.9	-24 04	"	"	"	-2.1	23 33	00 22	1	0 54
18843	HD 62285	07 32.1	+26 01	"	"	"	-2.1	00 35	01 21	2	1 14
18844	" " 67402	08 02.7	+27 47	"	"	"	-2.2	01 39	01 44	2	-
	Faint star				O.F.B.						

Dome Temp. 23° F

Focus.....15,422

Dome Temp.....22°F

Transparency Conditions

Transparency Conditions *Opening delayed by light, no* 356

match for a large note!

HC

5c

14 The

572

Sw

+ 19.25

+22.6 S

-25.6

7.1

 $+34^5$

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
V 0 08	+54 40	0	6.04	^{subdwarf} ?	1-1-1	Developed, after being taken, R. Have a. le not read in red & eat it at the while still possible.	strong
—	+56 53	0	6.72	K3 V	1-1-2		fine
0 53	-16 12	0	4.65	G8 V	2-2		weak
1 13	+65 01	0	5.96	G5 III	1-1-1		good
2 10	01 51	0	6.01	K2 II	1-1-1	R.A. guiding erratic	weak
2 03	+23 15	0	5.08	Composite	1-1-1		fine
0 20	+15 09	0	7.6	B3 e	1-1-1	Be binary (Sat on of C Ma, -telescope clear but a th fringes don't at large)	opening H.A.) fine
0 5W	-24 06	0	5?	K3 Tab	1-1-1		weak
0 13W	+25 54	0!	6.86	K5	1-1-1	AG. 25.	good
—	27 37	0!!	7.72	K ₀	1-	" "	Too weak
					4/3	0135 suddenly, strong, quite a bit 3m fine, " "	
						0200 Absolutely Solid!! Weatherman won't admit it.	
						0211 closing up, but	
						2 PH	
						4 PR	
						"N" on "M"	
						"K" on "L"	

Date Jan 6/7 1952 Observer Ba-L Julian Day

Bar Angle End	De
04 7 W	-
04 2	-
01	-
00 25	-
2 16 W	26
30	26
	26
4 16	46
	+3.8
10	+7.3

Dome Temp. 41.2.....

Transparency Conditions

358

Jan 4. 1952

2. Changed to 12 $\frac{1}{2}$ Camera

Forms 15.422

Box 12.925

Silt 23.18

12 $\frac{1}{2}$ is
Silt 20.28

[illegible]

Date ¹⁹⁵² Wed 23 ~~1951~~ Observer Ba - L Julian Day

[illegible]

Dome Temp..... 6

Focus..... 12.925

Dome Temp..... +2.°F

Transparency Conditions

Cloud, clear at sunset

360

Fri Jan 17

Rails iced. No Soap. RLB

Jan. 21
23
He 5c 11.5^s 12.3^s -27.5^s 13.0^s 10.8^s -4.2^s 0.6^m -34^s

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0115W	15 09	!	7.7	B3e	1-1-1	44470 35V 49492 Be Prog	weak
1 55W	26 58	0	8.19	K0	1-1-1	AC Prog Haze, sky thickening slowly during exposure	2 weak
					4/3	1 P.H. loaded + E	
						H on M	
						Called it off at 3.00 AM.	

... ..

me Temp. + 11
16.25
me Temp. 1

me Temp. 1

me Temp. 1

Dome Temp. $+11^{\circ}\text{F}$

20 11 63

Poor

362

Everything going wrong. Clouds. Watch 2nd slow. Lamp not working.

[illegible]

Dome Temp. $+10^{\circ}\text{F}$ Focus 12.927 Dome Temp. -10°F

Transparency Conditions

Opening delayed first set on HD214434
 which was already over H^h West. West was very
 Mucky

Clear in West

364

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 48W	29 50	0!!	8.86	G5	1-1-1	Seeing <u>VERY</u> Poor. A.G. ^{proposed}	weak
01 53W	29 18	0!!	8.88	G0	1-2	A.G. ^{proposed}	1945 watch stopped. L weak
1 05W*	-01 29	0!!	7.9	B(s)re	1-1-1	Be Bin, * as far west as possible	Rewound & Reset. 2100 watch stopped. L weak
2 15W	28 12	0	8.91	K0	1-1-1	AG. 25	Reset. 2147 watch stopped. L weak
2 10W	26 43	0	8.95	Ke	1-1-1	2207 R.A. ^{proposed}	Reset. L weak
1 40W	17 46	0	8.2	F7	1-1-1	Ad. Vel.	2208 R.A. ^{proposed} fine
					4/3	R.A. will NOT	
						4 P.H.s loater + 8 UNCLAMP	
						Mon M	WATCH STOPPED
							Again.

Date Tues Jan 29/80 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.	Angle End	Dw
18865	HD 2343	0 22.2	+30 21	I-12	E 103-a-0	set 1008	-12.4	18 59*	21 19	1	55 10	-30
18866	MWC 139 HD 44637	6 17.7	+15 09	"	"	"	-12.5	21 35	22 39	2	0 34	15
18867	MWC 189 HD 65176	7 52.4	-01 20	"	"	"	-12.5	22 50	23 55	3	1 10	-10
18868	HD 79318	09 08.3	25 43	"	"	"	-12.7	09 10	11 30	4	2 20	10
18869	" " 103095	11 47.2	38 26	"	"	"	-12.7	11 40	12 20	5	3 30	20
18870	" " 109282	12 28.5	25 00	"	"	"	-12.7	12 32	14 10	6	4 40	10
Focus Test				O.F.B								

Dome Temp. $+3^{\circ}\text{F}$

Focus 12927

Dome Temp. $+3.5^{\circ}\text{F}$ Must be stuck.

Transparency Conditions clear

366

Starting delayed by adjustment to trullies
and blaine fuse on post dec motion

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 9	V 5 10	+30 39	0	8.90	G5	1-1-1 AG25 Correction to E.S.T. such that when watch read 12 ^h 59 ^m E.S.T., sid time 3 ^h 13 ^m 30 ^s	low
22 9	V 0 34	+15 09	0	7.6	83e	1-1-1 Be binary	good
23 9	0 1 0 W	-01 30	0	7.9	85ne	1-1-1 " 0846 Cloud in N, W, & S.	weak
24 9	0 2 19 W	25 27.5	0	8.82	K0	1-1-1 AG 25 0935 Cloud	fine
25 9	0 3 0 W	38 03	0	7.24	G5	1-1-1 Std. Vel.	st
26 9	0 4 W	24 43	0	8.70	M0	1-1-1 AG 25 1345 Cloud in. N, W, & S.	good
					4/3	1410 Sky completely clear - closing up.	
2 P.H. loaded.							
4 Pl in J.							
H. M.							
						+37 ^s +12 ^s	
						+33 ^s +24 ^s	
						NO 50 SW	
						+23 ^s +7.1 ^s +8.1 ^s	
						+25 ^s +1 ^s -7 ^s	
						+29 ^s +3.4 ^s +6.4 ^s	
						6 +32 ^s +4 ^s -14 ^s	

Date Mon Feb 12/13 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. Angle End
18871	MWC 13 HD 9105	01 24.6	62 51	F-12	E 103-2-0	set .008	-4.4C	all note → x 18 20	18 48	2 30
18872	HD 17396	02 42.3	29 56	"	"	"	-4.6	19 20	20 50	4 35
18873	MWC 139 HD 44637	06 17.7	+15 09	"	"	"	-4.9	21 01	21 45	0 35
18874	MWC 189 HD 65176	07 52.4	-01 20	"	"	"	-4.8	21 57	22 57	2 03
18875	HD 56224	07 11.1	+26 33	"	"	"	-4.9	23 08	23 50	5 50
18876	HD 79318	09 08.3	25 43	"	"	"	-5.0	SID. TIME 09 45	11 48	4 15
18877	HD 114762	13 07.5	18 02	"	"	"	-5.0	12 16	13 12	5 17
18878	HD 115103	13 09.9	29 55	"	"	"	-5.0	13 17	14 18	6 10
	Focus Test			O.T.B.						

Dome Temp. + 2° F

Transparency Conditions *clouds low in S-W.*

368

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1-9	2 30	63° 05'	0	7.22	CB5c	1-1-1	Be binary * Cor. time to EST such that 18h 20m EST $\approx$ 3h 30m local	fine
0-5	3 15	30 08	0	8.65	G5	1-1-1	AG 25 Dec. Getting buttons don't work	work
1-4	0 35	15 08	0	7.6	B3c	1-1-1	Be binary Only Dec slow motion buttons	good
5-7	0 13	-01 29	0	7.9	B5ne	1-1-1	Be binary	good
1-2	15W	26 27	0	8.51	K0	1-1-1	AG 25	work
1-7	36N	25 27	0	8.82	K0	1-1-1	AG 25	work
1-3	23E	1745.5	0	8.2	F7	1-1-1	Stl. Vel.	good
1-7	2 5W	938.5	0	8.79	G0	1-1-1	1317 Dec. Quick Motion Now Working. 1500 quite windy	work focus center 1 sec and
						4/4	2 P.H. Loaded. 8 Pl. in D. H. 1000 M.	
							Feb. 14	
							MC + 40 ^S	
							SW - 6 ^S	
							SC - 1 ^S	

Dome Temp.....8.....

Focus.....12-927.....

Dome Temp.....0°F.....

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

370

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 27 W	29 25	0	8.5	G1	1-1-1	AG 25- <i>Crater trouble</i>	<i>starry</i>
2 50 W		0	5.9	A3	3	<i>Crater plates seem loose in plate holder</i> Visual Binary. Broadened spectrum.	<i>No comp</i>
2 22	29 22	0	8.78	K0	1-1-1	AG 25- <i>Done work turn</i>	<i>Good</i>
2 26 W	27 15	0	8.87	K0	1-1-1	AG 25- <i>Done ok now.</i>	<i>Good</i>
1 03 W	24 37	0	8.47	K2	1-1-1	" <i>Wind increasing</i>	<i>Good</i>
2 12 W	25 09	0	8.72	K0	1-1-1	" <i>image becoming</i>	<i>Good</i>
					4/4	2 PH's loaded + 4.	

21690

15387.

Date Thurs Feb 14-15 1952 Observer Hd - 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	Hour Angle End	De
18885	HD 12302 mwc 23	01 55.6	59 12	1-12	Harpard	008	-10.4	18 54	19 34	1	42 52	39
18886	HD 23141	03 37.7	26 04	"	E10320	"	-10.4	19 43	20 43	3	42 22	21
18887	HD 44637 mu 137	06 17.7	15 09	"	Harpard	"	-10.4	20 54	21 44	2	50 41	19
18888	HD 52071	06 54.7	27 18	"	E10320	"	-10.4	21 55	22 35	4	20 58	25
18889	HD 65176 MW 189	07 52.4	-1 20	"	Harpard	"	-10.2	22 48	23 38	1	W 101	-
18890	HD 67544	08 03.4	25 05	"	"	"	-10.5	23 45	09 15	2	133	1
18891	" 83340	09 32.6	28 28	"	E10320	"	-10.4	09 58	10 48	1	50 48	28
18892	" 95978	10 59.2	29 44	"	"	"	-10.4	11 01	12 01	1	13	29
18893	" 114762	13 07.5	18 02	"	"	"	-10.4	13 16	14 16	1	17	17
18894	" 121319	13 49.7	28 50	"	"	"	-10.4	14 24	15 30	2	17	17
	Focus Test			O.T. B.								

Dome Temp. 13.1° F

Focus 12.927

Dome Temp. +70° F

Oct 0000 EST

Secd Time is 9 19

Transparency Conditions Good

372

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9341 W 2 52	-9 27	1	8.0	B3e	1-1-1	Dec setting motion not working (motor turning) Be Prim.	fine
9343 W 2 20	26 13	1	8.49	K0	1-1-1	AG	fine
9342 W 0 41	15 17	1	7.6	B3e	1-1-1	Be Prim.	fine
9344 W 0 55	27 15	1-2	8.19	K2	1-1-1	AG	fine
9345 W 1 01	-1 30	1	7.9	B3e	1-1-1	Be Prim. Much time lost on changes because of dec setting.	good
0133W	4 58	1-0	7.98	G5	1-1-1	AG	fine (good)
0114W	28 13.5	1-0	7.95	G0	1-1-1	AG. sid. 0950 Dec. Motion Working After a Fashion	fine
0203W	29 24	0	8.84	K0	1-1-1	AG.	fine
0110W	17 16	0	8.2	F7	1-1-1	Std. Vel. 1316 Dec. Motion Working Not too Badly	fine
0138W	28 33	0	8.19	K0	1-1-1	AG.	fine
					4/3.5	4PH. Loaded.	
						8 Pl in J.	
						H. in M.	

51690

15331-
15387.

me Temp. 16
12 92
me Temp.

Date Fri Feb 15/16 Observer Ba Julian Day 150

[illegible]

Dome Temp. 18

Focus 12.927

Dome Temp.

Transparency Conditions

Good

Cloud in 374
early evening.

Heavy cloud appearing as starting up
extensive cloud. Closing down 2140

Ending Time
L.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

15331-
15337
51690

Date Sun Feb 17-18 1952 Observer Hd-Hz Julian Day 172.5

[illegible]

Dome Temp. 26 F
 Focus 12.927
 Dome Temp. +26 F

Transparency Conditions Good

376

Clearing suddenly 12.15.

Reading Time
L.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
130 138W	2555	0	8.07	K ₂	1-1-1 AG. 4/3.5	1025 Haze Overhead & in S. Considerable light cloud coming from N, NW. 1056 Sky Overcast. Wind Rising 1115 Weather Says No Clearing for any length of Time. 1129 Image gone from slit. Closing up. Dec. Motion O.K. 3 P.H. & coded. 8 Plin D. H. on M.	
						Feb. 18 MC 744^s SC -3^s SW +19^s	

1331

Room Temp. 25°
Time.....12.31
me Temp. +

Room Temp. 25°
Time.....12.31
me Temp. +

Dome Temp....+17°F

$$EST = ST + 2^h 25 \frac{1}{2}^m \text{ (for reference only)}$$

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 ^W 49	+29° 43'	0	8.70	G0	2-1-1	AG 25 Long 1 st comp due to unfamiliarity with new arc switch.	good
02 ^W 23	+26 42	0	8.72	K0	1-1-1	One hour lost trying to get the tel. to focus. Suspected vibration in RA. OK now.	fine
04 14W	26 47	0	9.0	G0	1-1-1	"	Weak
1 45W	26 00	0	8.79	G5	1-1-1	"	fine
1 34W	24 34	0	8.58	K0	1-1-1	"	fine
0 43W	25 14	0	8.19	G5	1-1-1	"	fine
					4/4	1 P.H. loaded + 4	center to red
						Tues Feb 19 changed focus to 12.910	

Temp. 41.9
Pulse 129
Temp. 18

Temp. 41.9
Pulse 129
Temp. 18

380

Dome Temp.....18.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 49	30 09	0-1	8.65	G5	1-1-1	AG 25	faint
0 10	15 07	0	7.6	B3e	1-1-1	Be binary	faint
0 03	27 40	0	7.69	KO	1-1-1	AG 25	faint
	26 15	0	8.28	G0	1-2	AG 25 Hazed over just after starting	too much
					4/3	Clearing quickly around 08:20 sunrise.	
	27 46	0	7.79	KO	1-1-1	AG 25 09:00 - light clouds, very little exposure	v faint
					4/3		
						4 P-I loaded 8 in done	
						H on M	what is this?
						Feb. 20 MC SC MW	
						+47 ^s -3 ^s +5.3 ^s	
						72 +49 ^s -8 ^s -20 ^s	
						25 +22 ^s -8 ^s +3 ^s	

Date Mon, Feb 25/26, 1952 Observer Wm - L Julian Day 1952055

[illegible]

Dome Temp.....

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

Late start caused by difficulty with the setting motion. Got L, who unstuck solenoid. All now ok.

382

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^W 47	+26° 23'	0	8.93	G0	1-1-1	AG 25	comp. weak. too weak
1 55 W	+27 15	0	8.86	K0	1-1-1	"	l wk
1 37 W	27 40	0	8.70	G5	1-1-1	"	✓ good
1 36 W	24 42	0	8.73	K6	1-1-1	light clouds at 305° sky filling in.	
						41-11 = 25.42 + 4	
						Feb. 27	
						MC +25°	
						SC -3.5 -12.6	
						3W -12.6	

Date Wed Feb 7/28

Observer B. H.

..Julian Day

[illegible]

Dome Temp. 20

Focus 12.912

Dome Temp.

Transparency Conditions

Good

384

2354 ST = 1005 ST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
416W	57 27	0	8.2	B2C	1-1-1	Be	
250W	2- 21	0+	5.4	A3	3	vis Bin.	strong
035W	18 45	0+	7.7	B0	1-1-1	"	fine
0414W	26 46	0+	9.0	G5	1-1-1	(P.H. 2) A.G. 51-1035 Spectacular Aurora.	weak
130W	27 26.5	0+	8.63	K ₂	1-1-1	" 105- A. on Br. 178	good
0231W	25 24	0	8.99	K ₂	1-1-1	" 1130 " Fading.	weak
					4/3	1540 Very Fine Precipitation Falling So Closed Up. Sky Mostly Clear Clouds & Haze Near Horizons	O.K.
						2 P.H. Loaded +4 Hon M.	

Date _____

28-29/52

Observer.

— Ar

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
18917	HD 95188	1054.4	2550	I-12 $\frac{1}{2}$	Cr Hi-S	.008	+0.2	SID. TIME 10 58	SID. TIME 12 40	2	"
18918	" 111842	1247.0	2613	"	"	"	0.0	12 47	14 40	2	"
	Forus Test					O.T.B.					

Dome Temp. $+26^{\circ}\text{F}$

Focus. 12.911

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

Transparency Conditions

Good.

386

Scared by Bat Between Shutters & Nearly Fell off Catwalk.

Ending Time
2000

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0142W	2534	0	8.75	G5	1-1-1	A.G. 1120 Faint Aurora. Mucky over City 1200 Guiding Dandy.	v good
0149W	2556	0	8.81	K5	1-1-1	A.G. 1408 Guiding not so Dandy clouds & Haze in S.W. & S.	lwk.
					4/3	<u>c to red</u> 1435 Sky Quite O'cast. star gone from slit. 1440 Hopeless. Closing up.	
						H. on M.	
						4 P.H. loaded.	
						Plates Needed.	
						Motor Gen. making weird noises.	
						Feb. 29 $\begin{matrix} \text{MC} & \text{SC} & \text{SW} \\ +28^{\circ} & -2^{\circ} & +26^{\circ} \end{matrix}$	
						<u>N.B.</u> STU <u>not</u> set.	

2

Hispeed?

Observer... *Wm*

Julian Day

[illegible]

388

Room Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^h 20	+30° 10'	0	8.51	G5	1-1-1	AG 25 Filling in - East wind	Two weak
						3 pti + (12 E103a-0)	
						∴ box Cramers needed	

Date Sat Mar 1-2, 1952 Observer Hd-L Julian Day 173.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Angle End
18920	HD 51101	06 50.9	24 47	1-12	Harpad?	008	-1.0	21 11	22 11	2	138
18921	MW 2139 HD 44637	06 17.7	15 09	"	" ?	"	-1.0	22 14	23 08	3	130
18922	HD 77313	08 56.7	26 16	"	"	"	-1.2	23 13	00 03	4	125
18923	" 86460	09 53.6	27 59	"	"	"	-1.3	00 05	01 05	1	30
18924	" 98562	11 15.3	24 09	"	"	"	-1.3	01 09	03 20	2	25W
	Focus Serv				O.T.B.						

Home Temp.....

Transparency Conditions

390

Cloudy at sunset. Clearing with patches
of cloud 1930 —

[illegible]

Date Wed 10/29/91 Observer Pa Julian Day 2457113.5

[illegible]

Dome Temp. 20

Focus

Dome Temp.

Transparency Conditions Scattered Cloud 1.

392

Full Moon 2030-11

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			10	60		AG 760	
	240		271	20		AG Cannot see the light in the corner of the field	
119W	29 16	0+	8.63	145	1-1-1	Set AG Fine snow coming down	
			8.72			Putting telescope down for a while	
						Heavy cloud Closing down. 2245	

Date Sat. Mar 8/9 1952 Observer Ha - Hr Julian Day 243980.5

[illegible]

Dome Temp. +22°F

Focus 12.910

Dome Temp. +19°F

Transparency Conditions Good, clouds earlier in evening

394

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 N 1 01	29 17	0-1	8.05	G5	1-1-1	AG 25 Loaded plate found in telescope, might have previous focus test, not used - but numbered 18925 A.	fine
2 + V 1 44	25 29	0-1	8.58	K2	1-1-1	AG 25 22:50 light clouds in S and W.	good
1 00 W	29 10	0	7.79	K0	1-1-1	AG 25 23:30 light clouds everywhere	fine
3 10 V	23 40	0	8.05	M0	1-1-1	AG 25 0039 Hazy, Ring around Moon cloud in S. + W.	good
2 15 W	21 00	0	8.68	G0	1-2	" " 0125 Not Guiding, visual	excellent
1 05 W	25 20	0	8.06	K0	1-1-1	A. G. 25	strong
2 10 E	15 08.5	0-1*	8.0	F2	1-1-1	Ecl. Bin. * Seeing Variable 0-2	fine
					4/3		OK
						1 P.H. loaded. +12	
						H. on M.	
						MTW STW MC SC SW S	
						Mar 10. -16.8° -6.6° +40.2° -15.7° -38.5°	

Date June 27. 11-12 / 52 Observer - Hr Julian Day 171

[illegible]

Dome Temp. $+30^{\circ}\text{F}$

Focus. 12.910

Dome Temp.

Transparency Conditions Good at 2345

396

By 0045 Much Broken Cloud

0053 Cannot get a clear interval long enough to focus telescope.

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						0127 Still Hopeless	
						Much Broken Cloud	
						More coming. Quite Windy	
						1 P.H. +12.	
						H on M.	
						1 chain on NOTICE BOARD	
						in Dome broken.	
						Mar. 12	
						HC $+42.0^{\circ}$	
						SC -3.1°	
						HTW $+26.0^{\circ}$	
						STW $+3^{\circ}$	
						SW $+6^{\circ}$	

Date Wed 12/13 May 56 Observer Bo-L Julian Day 175

[illegible]

Dome Temp.... + 21.0°F

Transparency Conditions

Good.

398

Note Spectrograph Temp. thermostat was left on by last night's observer. Should provide an interesting dispersion curve

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
226	512 W	30 04	0	8.9 ?	C-5	1-1-1	AB	weak
226	503W	26 23	0	8.9	G0	1-1-1	"	weak
227	4 40 W	26 46	0	9.0	G0	1-1-1	" Star lost in haze at end. + P.H.s loaded + 8 18m M Sky hopeless, closed at 1.00 AM.	weak
March 14							HC ^s +14.3 SC ^s -6.9 MYW ^S +7.8 STW ^m -.2 SW ^s -18	

Date Fri 14/15 Feb 1952 Observer Ba - Hr Julian Day 174.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
18936	" D 30353	04 41.8	43 06	12"	Hyperl.	.008	-2.8	19 04	2054	1
18937	" 49141	06 41.9	26 49	"	"	"	-3.0	21 00	0010	2
18938	HD 100947	11 32.0	25 14	"	"	"	-3.0	02 2	03 02	3
18939	" 117062	^{22.7} 13 27.7	24 50	"	"	"	-3.0	02 11	04 41	4
18940	{ Z Her.	1753.6	1508.9	"	"	"	-3.0	0453	0543	1
	{ <i>Lower Left</i>				O.T.B.					

Dome Temp... 25

Focus... 12.910

Dome Temp... +17°F

Transparency Conditions ... Good

400

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
322W	43 12	0	8.3	GOP	1-1-1	P. delm. 25	fine
0438W	6 46	0	9.0	GO	1-1-1	AG 25	upper by scattered 1 strong
3014W	2802	0	8.61	K2	1-1-1	A.G. 25.	Where i. finder field back
40230W	2433	0	9.0?	G5	1-1-1	AG. 25	0425 Odd wisps of lit cloud from N.W. gal. Moving quickly. - have G5
10058E	1505.5	0	8.0	F2	1-1-1	Ecl. Bin.	fine to strong
					4/3		
						4 P.H. +1	
						H. on M.	
						MC SC MTW STW SD 18.25 -6.9^s +12.2^s +1 -13^s	
						Jan. 17 Sum Mar 16-17. Partly clear about 20.45 but much too windy to open. - Had 2345 Most clear since then time. but now filling in from N.W. still very windy. B. H. J.	

Date Mon., Mar. 17/12, 1952 Observer Wm. - 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.E.
18941	HD 52765	06 57.4	+25 14	I-12½	CRAMER HI-SPEED	SFT 008	-1.2C	19 10	21 10	1
18942	HD 74 925	08 41.8	+28 21	"	"	"	-1.3	21 15	23 45	2
18943	HD 103 095	11 47.2	+38 26	"	"	"	-1.3	23 52	00 12	3
18944	" 105020	12 00.4	29 04	"	"	"	-1.3	00 23	02 53	4
18945	" 130766	14 44.9	25 35	"	"	"	-1.3	03 32	04 22	1
18946	" 156360	17 12.0	27 16	"	"	"	-1.3	04 30	05 06	2
18947	{ Z Her	17 53.6	15 08.9	"	"	"	-1.3	05 12	05 46	3
Form Test					O.T.B.					

Dome Temp. +28°F.

Focus.....12.910.....

Dome Temp.....

Transparency Conditions

Fair...considerable haze 492

Reading Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^W 35	+25°10'	0	8.86	K0	1-1-1	AG25	luck
2 ^W 26	+28 09	0+	8.98	G0	1-1-1	" Considerable haze	good
0012E	3807	0-1	7.24	G5	1-2	Standard Velocity Star	strong
0216W	2846	0	8.91	K0	1-1-1	AG25 0115 Seeing Worse. Grilling Poor	fine
0101W	1500	0-1	8.06	K0	1-1-1	A.G. starting delayed light precip. seemed to go away (grinding)	strong
0142E	2711	0	7.53	K0	1-1-1	" 0445 Grilling Poor	strong
0444E	1508	0	8.0	F2	1-1-1	Ec. Bin. 0500 Considerable light dust + haze in W.S.	
					4/3	0541 SK, 24th light	
						0544 Haze Cutting exposure	
Thurs Mar 20-21 partly clear a few turners coming up at 2305 -1/4						4 P.H. + 18 H. on M.	
Mar 21-22 Partly clear at midnight. some haze quite thick by 0200. 5/4 H						March 19 MC SC 4NW 5NW 5W +21.0° -6.4° -19.0° -4m +6° 1 set of Dome Lights Upstairs do not light March 20 MC SC 4NW 5NW 5W +22.5° -6.0° +.5° -.1m -3° " 21 +28.0° -2.8° -27.5° -.7m -16°	

Date Mon., Mar. 24/25, 1952..... Observer W.m...... Julian Day.....

[illegible]

Dome Temp.....

404

- Clouds from sunset to opening time, delayed opening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2055	W 26	+29° 59'	0	8.8g	K 2	1-1-1	Clouds W 2055 How M 2/PH + 18	too weak.

Date Tues March 25/26, 52 Observer L-Hr Julian Day.....

[illegible]

Dome Temp. $+32^{\circ}\text{F}$

Focus. 12.910

Dome Temp. $+27^{\circ}\text{F}$

Transparency Conditions

Fair

406

Clouds at sunset and in early evening.
 About 30 of H.S. Hogg's students, showed 3 cancri with 74"

Reading Time
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 47 2	1.41 W	29 27	0	8.72 Me	1-1-1	A.G. 25	v wk.
24 31 3	01 44 W	25 52	0	8.78 G5	1-1-1	" "	l wk
0 50 0	01 22 W	29 20	0	8.63 G5	1-1-1	" "	fine
					4/3	0210 Clouding up quite suddenly from S.W.	
						0225 Met. office says No chance of clearing Probability of Snow Closing up.	
						4 P.H. +12	
						How M.	
						Also showed Saturn with horizontal telescope	
						March 26	
						HC S SC S MTW STW m SC	
						+29.5 -7.5 -7.0 S -2 -11 S	

Date Thurs Mar 27-28, 1952 Observer Ad-Hr Julian Day 243980.5

[illegible]

408

Mar. 28
* New T

Date...Sat., Mar 29/30, 1952...

Observer.....Wm...../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
18959	HD 65 583	07 54.3	+29 31	I-12½	E103a-O	SET 008	+5°2 C	19 22	19 52	1	0 ^m 06 +2
18960	HD 75 935	08 47.9	+27 18	"	"	"	+5°2	19 57	21 57	2	1 ^m 18 +2
18961	HD 89 415	10 14.1	+29 51	"	"	"	+5.0	22 08	00 08	3	2 03V +2
18962	" 107132	12 14.0	25 24	"	"	"	+5.0	00 13	01 52	4	+53V 25
18963	AG. 6705	14 00.3	26 19	"	"	"	+5.0	02 03	03 43	1	1 53 26
18964	H.D. 150665	16 37.4	26 17	"	"	"	+5.0	03 49	05 19	2	3 53V 26
	Focus Test			O.T.B.							

ome Temp....130°F

410

[illegible]

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

[illegible]

412

Ending Time
E.S.T.

