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1

If centre to vi. Increase mic. setting :

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Date Sat/Sun Aug 12/13 1961 Observer Hy C1 - C1 Julian Day +J.P.

[illegible]

Dome Temp.

6

Clouded out: 01^h 22

Date Sun/Mon Aug 13/14, 1961 Observer Gg-Gg Julian Day

[illegible]

Met 30.14 - 23^h

Dome Temp. 60

Focus

Dome Temp.

V = 700 at 20^h 15^m
CO₂ " 20 25"

Transparency Conditions Clear all over.
(brightest lights are from new
golf-driving range to the SW).

8

Hour Angle -End <i>middle</i>	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 01 ^m W		3" fair	7.5	G ₀ V		RC better at 24 ?? - centering 3/4 from centre. - didn't check at end. <i>nil</i>	Scan 5160 to 3490 + back (close to pier)
0 ^h 23 W		poor 6" (so bright)					Scan 5460 to 3430 + back
2 ^h 23 W		<i>seems</i> Seeing <u>good</u> in 74" eyepiece				22 ^h thin cloud near Jupiter 22 ^h 01 <u>Echo I</u> same alt as 8 Peg. $\pm 10^\circ$ S in azi. 22 ^h 20 - scattered cloud high in SE. 22 ^h 30 scattered cirri in S.W. + S (22 ^h 50 + N)	
0 ^h 22 W		4" faint	3.24	B _{9.5} III		0 ^h 00 - cloud high in E NIGHT IS NOT OF BEST QUALITY. 0 ^h 15 stratus rising from south!! Return sweep - no good.	
0 ^h 45 W						Patches of cirri in SW 1 ^h 00 Cloud all over S - 1 ^h 05 - NOT-TRULY-PHOTOMETRIC. Clouds over Southern 1/2 of sky! - 1 ^h 30 Air feels damp CLOUDED-OUT	

Date Mon - Tue Aug 14/15, 1961 Observer UR & CL Julian Day

[illegible]

Dome Temp.

Transparency Conditions 1300

10

Hour Angle End	B.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8.30		10"	8.30	D5			4A/sec. L.S. are taken directly	
9.49			9.49	B.IV			1A/sec from scales. Clouds	
			MD	SD	ME			
Aug. 15			+85.0	+2.1	-6.0			

Tues.-Wed. Aug. 15-16/61
Date

Observer..... *— HV*

Julian Day 2437527.5

© 142 53 15.8 3461.5

[illegible]

13

MR, C1-50 Visitors & Rhodes Trust. Radio Astronomy, 74", 44", demonstrated

Date Wed/7th Aug 16/17 1961

Observer..... Hy - F

Julian Day 2437528.5

① 143 50 57.3 3462.6

[illegible]

Dome Temp. 60

Focus

Dome Temp. 57.....

Transparency Conditions

cirri at sunset :
seems good at 0:30
excellent 1:30

[illegible]

Date Thu/Fri Aug 17-18, 1961 Observer F - Hr Julian Day 2437529.5
0144 48 39.9 3463.7

[illegible]

Dome Temp. 67

Focus

Dome Temp.

Bands of Cirri all over sky (some extinction)
 Transparency Conditions Some cirri in South 2230 Gg. 16
 haze up to 40° alt in S - 23°

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 ^h 00 ^m W <i>check</i>						still twilight,	
2	1 ^h 59 E	-02 34	0	6.3	Bge	4½-2½	Be Program MWC 350 net 3 from arc fused	fine
	1 ^h 38 E	"	0	"	"	4½-4½	net 7	fine (guiding)
	1 ^h 28 E	—	0	4.5	Obe	9	Be net 3	good (guiding)
	1 ^h 33 E	—	0	"	"	9	net 6	Guiding poor
04	0 ^h 27 W	58 29	0	7.5	Ks	3-3-3	S&V Val Set 1	fine
L	0 ^h 47 W	58 29	0	7.5	Ks	3-3-3	" Set 5	fine
1	00 51 E	17 01	0	8.5	G8	3-3-3	S&V Val Set 3	fine
2	02 5 W	52 37	0.1	9.4	O7	3-3-3	OB. Set 3	fine
						10/8	" 8	centre sl to red
							2 P.H. finished,	
	Aug. 18			MD +86.0	SD +15	ME -4.0		
							Note - emulsion is scarred on some of above & previous page also.	

Date Fri-Sat Aug 18/19 1961 Observer Hy - Hy 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.
1402-172	R 402	16 52.2	+42 54		7,5,32	14		20:17		
1403-172	110 Her	18 44.0	+20 31		6,5,32	14		20:44		
1404-172	α Lyr	18 35.6	+38 45		4,5,8	14		21:10		
→ 1405-172	R 467	19 23.9	+24 51		7,4,32	14		21:36		
→ 1404-172	source	(38.6)	—		4,5,8	14		21:27		
1406-172	R 476	19 32.0	+33 07		7,5,32	14		21:57		
1407-172	110 Her	18 44.0	+20 31		6,4,32	50		22:18		
1408-172	61 Cyg A	21 04.8	+38 30		6,5,32	50		22:50		
1409-172	61 Cyg A	21 04.8	+38 30		7,4,32	14		23:08		
1410-172	α Lyr	18 35.6	+38 45		4,5,32!	14		23:31		
1410-172	source	(38.0)	—		4,5,8	14		23:48		
1411-172	R 513	21 10.2	+17 35		7,5,32	14		23:56		
1412-172	⊕ M 15	21 28.1	+12 00		7,6,40	28		00:22	sky negligible!	
1413-172	l Peg	22 05.2	+25 09		,32	14		00:46		
1414-172	α Lyr	18 35.6	+38 45		4,5,8	14		01:39		
1414-172	source	(29.0!!!)	—		4,5,8	14		01:45		

Dome Temp. 72

Focus —

Dome Temp. —

Transparency Conditions

18

Echo I: 20:40

Echo I: 22:45

00:50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 03 ^m W			7.5	G ₀ V		sky very <u>hazy</u> . Echo I (1 st)	
0 ^h 21 ^m E			4.7	F ₆ V		disappeared at 15° alt in East	
0 ^h 13 ^m W			0.04	A ₀ V		whether due to earth's shadow or	
0 ^h 09 ^m E			6.7	F ₆ V		great <u>haze</u> can't tell.	
—			—	—		— still extremely <u>hazy</u>	
0 ^h 04 ^m W			7.2	G ₀ V			
1 ^h 13 ^m W			4.7	F ₆ V			
0 ^h 35 ^m E			6.4	K ₅ V		←  slightly brighter	
0 ^h 17 ^m E			6.4	K ₅ V		61 Cyg	
2 ^h 34 ^m W			0.04	A ₀ V		← note wrong time constant	
—			—	—		<u>haze</u> is slightly less dense.	
0 ^h 28 ^m W			7.9	F ₉ V		sky is clear but <u>hazy</u> .	
0 ^h 33 ^m W						<u>haze</u> persists.	
0 ^h 21 ^m W			4.4	F ₅ V		01:30 haze very bad in south but	
—			0.04	A ₀ V		not too bad over-head.	
—			—	—		no good: telescope would not stay on object.	

OVER

Date Fri-Sat Aug 18/19 1961 Observer H. Y. Julian Day 24375.30.5
 @ 145 46 23.6 3464.8

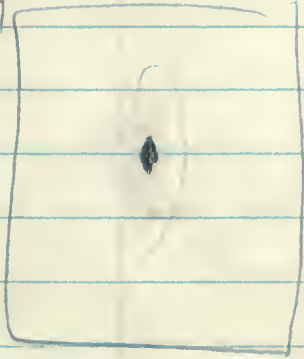
Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25757	SUSPECTED SUPERNOVA IN "M32"			I-12		100		02:06	02:26
Discovery Claim: 3 ^h U.T. Aug 15 J. P. Boudreau 650 Blud des Grandes Prairies Cap de la Madeleine Obs. Québec, P.Q.									
Attempt at Confirmation: 8 ^h U.T. Aug 19 R. C. Henry 3 AM Aug 19 20 minute plate shows (?) <u>also</u> the previous night (Aug 17-18) characteristic broad some condensation noted in 6" by M.R. and emission feature Dr. Fernie. between 4500, 4700 Å.									
(P.S. I don't bet my life on it! Hy)									
1414-172)	Source								

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						It appears as if it <u>might</u> be genuine S.N. <u>very weak</u>	
						Shy is <u>very</u> thick and hazy.	
						more + more haze - terrible - 02:27	
							
						Hy	
						1 PH loaded	
						<u>8+3</u> Plates in pri	
						Mon- Aug 14-15 Aug 14 22 ^h EST	
						Fri- Aug 18-19	
						Sat - Aug 19-20 152 Visitor F. ly.	
						Rain	

Date Tues - Wed Aug 22-23/61 Observer PL

..Julian Day...2437534.5.

⑤ 149 37 29.2 3469.4

[illegible]

Transparency Conditions *Scattered Cloud + Haze + thin fog later.*

Fog thickens. & Clouds 22:15

22

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 0 ^h 05 W	44° 56'	2	2.97	B9.5	7.0	MK Stols Set 2. 1 count 7008-9	
0 ^h 17 W	"	"	"	"	4-5	" Set 5 1 count 7011-7012	
					10/8		
						1. PH loaded	
						0 45 EST STILL fog - clouded over F	
Aug. 23		MC +88.0	SC +0.5	ME +0.5			

Date *Sun-Mon Aug 27-28/61* Observer *DL-H✓* Julian Day *2437539.5*
 ① 154 26 49.8 3476.8

⑤ 154 26 49.9 3476.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25759	HD 184467	19 ^h 29.5	+58° 24	I-12	IIaOB	.008	24.6	21:06	21:56	1
	Focus Test		OTB		(In Case!)					
25760	HD 212943	22 ^h 22.8	+04° 12	I-12	IIaOB	.008	24.6	23:09	23:27	2
25761	HD 213014	22 ^h 23.4	+16° 46	I-12	IIaOB	.008	24.6	23:46	23:47	3
	"	"	"	"	"	.016	"	23:51	01:27	3

Dome Temp. 71

Focus

Dome Temp.

Transparency Conditions

Scattered Cloud & Haze at Horizon ²⁴
 21:30 Clouds (light) closed over counts
 very slow - star vanishing & returning
 Clearing to South 22:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 35 ^m W	+58° 28'	0.5	7.5	K5	3-3-3	Std. Vel Set 3 Scale 7-8 Counts 7026.30 10-8 Set 8 7034	
0 ^h 53 ^m E	+04° 25'	1	5.9	K0	3-3-3	Std Vel Set 3 Scale 6-4 Counts 7035	
—	+17° 03'	0	8.5	G8	3—	Std Vel Set 3 Scale 8-25 Counts 7040 7065	
01 02 W	+17° 03'	0	8.5	G8	3-6	Std Vel Set 8 -1 -1 7041 7058	
2 P. H. Faded.							
0115 Haze + Cloud.							
Aug. 29		MO	SC	ME			
		+89.0	-1.2	+2.0			

25

Tue-Wed

Date Aug 29-30/1961

Observer Gg -

Julian Day 2437541.5

Plate No.	Object	R.A. 1900- (1961)	Declination -1900-	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
1415-173	α Lyr				4,5,8	14		19 58		
	Source				4,5+4,8			20 16		
1416-173	$\oplus$ M13	16 40.3	+36 32		7,6,40	28		20 27		
	sky once							20 54		
1417-173	$\oplus$ M92	17 15.9	+43 11		7,6,40	28		21 15		
	sky once							21 33		
1418-173	R402+sky	16 52.2	+42 54		7,5,32	14		21 55 + 22:17		
1420-173	α Lyr				4,5,8	14		23 02		
	Source	(60+16.3)						23 19		
1419-173	110 H ₂ o	18 44.0	+20 31		6,5,16	14		22 36		
1421-173	61 Peg	22 05.2	+25 09		6,5,24	14		23 37		
1422-173	51 Peg	22 55.6	+20 33		6,6,32	14		00 16		
1423-173	α Lyr				4,5,8	14		0 45		
	Source	(52+12)						1 03		
1424-173	R551+sky	23 15.2	-14 07		7,6,40	14		1 28 + 47		
1425-173	85 Peg	00 00.1	+26 50		6,6,24	14		2 17		

Dome Temp. 73

Focus

Dome Temp.

NB-NEW 1P21

Transparency Conditions

O.K. but haze on horizon all over

Oh - better - less haze. Gibbous D.

26

Hour Angle End middle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
016E		4" (yellowish) ← (Pl agrees)			V=700	$\lambda\lambda 5160$ to 3430 on dial centering 3/4 off. centering ok	
see trace							
						Moved back 21^m in R.A.	
2 ^h 21W						Moved back in RA to 3440	
3 ^h 25 + 3 ^h 29:			7.5	G ₀ V	Moved back 16^m in RA	Transparency is hazy. centering 1/2 off.	
2 ^h 49 W						I image unstable around considerably. centering 3/4 off - refocused	
2 ^h 14 W			4.7	F ₆ V	Use TC 24 next time.	centering 1/2 off.	
006E			4.4	F ₅ V		Tried 6, 4, 16 for 6 m.	
016E			6.2	G ₄ V		centering 1/3 off.	
4 ^h 32 W							
						(added Dry Ice)	
0 ^h 36 W + 0 ^h 38 W			8.6	sd/F ₈		Field checks (mostly so) Moon governs sky trace? Could've used (8, 5, 40). Sky not of good quality	
0 ^h 39 W			6.4	G ₀ V		Should use TC = 32? Possibly (7, 5, 32)	

cont'd

Observer.....Gg

Julian Day.

[illegible]

P 30.03 forecast. ³ⁿ

 $2 \text{ to } 3^h$

Some extinction evident.
Some haze still on horizon.

28

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

[illegible]

Wed-Thur
Date Aug 30-31

(Gg)

Observer..... *D*

- F

Julian Day

2437542.5

© 157 20 45.9

3482.4

[illegible]

Dome Temp.68°.....

Focus

Dome Temp.

Low fog + unusual haze + scattered cloud
 Transparency Conditions 23115 light patchy cloud over entire sky
 see below 30

Hour Angle -End <i>middle</i>	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 15 W		4"	0.0	A ₀ V		Very poor tracing! No Dry Ice. New 1P21 → #3	
A 3 ^h 05 W	+58° 29'	0	7.5	K ₅	3-3-3	Stol Vel Set 3 Scale 7-8 Counts 7066-7077 10-8 Set 8 panning all thru 7084-96 7077-81	
3 ^h 42 W	+17° 03'	0	8.5	G ₈	3-3-3	Set 3 St Vel Scale 8-30 Counts 7099-7117	
4 PHA loaded						00:30 sky now all but clear! 00:50 11.1 con. ign. ... 01:15 more clouds ... 02:00 cloud obscuring ... 02:30 some clearing ... 02:45 Clear! (Set 1) haze 03:01 clouded again! (7156) 03:50 (and) cloud rising along ... ∴ closing up.	
Now in yellow box							
The Plate in PH#1 <u>might</u> have been							
with 3 times							
Aug 31	MD +89.2	SD -1.7	ME 0.0				

31

Gg - Gg

Thurs - Fri
 Date Aug 31 - Sept 1 1961 Observer F Julian Day 2437543.5
0 158 18 48.3 3484.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25764	HD 212943	22 22.8	+04 12	7-12	IIA ₂₈	008	28.5	20 22	20 56	1
		<u>α (1961) 8</u>								
1429-174	α Lyr				4,5,8	14		21 32		
1430-174	α Lyr				"	"		21 49		
	Source	(22.5)			4,5,16 4,4,8			22 07		
1431-174	$\oplus$ M15+Sky	21 28.1	+12 00		7,5,40	28		22 24	+22 45	
1432-174	α Lyr				4,4,8	28		23:07		
1433-174	α Lyr				4,5,8	14		23 27		
	Source	(17)			4,4,8			23 44		
1434-174	110 Her	18 44.0	+20 31		6,5,24	"		23 53		
1435-174	α Lyr				4,5,8	"		0 43		
	Source	(11)			4,4,8			1 03:		
1436-174	85 Peg	00 00.1	+26 50		6,6,32	"		1 45		
1437-174	R30	1 05.6	+54 45		6,5,24	"		2 40		
1438-174	ξ^2 Cet	2 26.0	+08 17		6,5,24			3 18		
	Source	(12)			4,4,8			3 36		

forecast P 29.90/

21:30 - Clear with a little haze on horizon.

32

Dome Temp. 8.1

Returned to
1P21 #2

Transparency Conditions

Hazy

Focus

21:23 EST 27 sec. to Perseus high in NW to ...
moving quite fast (echo?) - probably

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 05 E (hr. mid)	+04 29	0	5.9	K0	4 1/2 -	Set-3 Std Vel Sec. 6-4 Count	7121 7125
1 26 W		5"				V=700 + CO ₂ - 21:15 baseline rises a little.	
1 43 W (hr. 1)						Thin band of cloud across S sky, just above 4 th alt.	
0 34 E (moved back in R.A.)							
3 02 W						meant to be slit 14. centering 1/2 off.	
3 22 W						centering 1/2 off	
3 40 W						From 1433 dLyr response of 1P21 has decreased. Source reading agrees	
4 38 W						centering 2/3 off 23 55 Bands of cirri high in SW & S, some above 4 th in E. ng.	
						0 30 - still cirri - mainly in E.	
						1 05 cirri in NE - also a general haze. - waited.	
						SECOND RATE PHOTOMETRIC NIGHT.	
						1 50 - general haze + stratus low in S.W. (or smog)	
						1 40 - added CO ₂	
						2 50 - Cirri in N. Considerable extinction in S, only Fornax visible.	
0 14 W			6.4	G ₃ V			
0 04 W			5.9	G ₀ VI			
0 39 E			4.3	B ₉ III		Use 6, 4, 16 centering 3/4 off	

(OVER)

Date Aug 31 - Sep 1, 1961 Observer Gg Julian Day

[illegible]

Dome Temp. ... 72

 $\approx 3^h 30$

O.K. but haze, esp in S, (unseen also)

Transparency Conditions

34

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 46 W (middle)			4.7	F ₈ V		3 ^h 55 - Cirri high in SE.	
Brief attempt to find Comet Wilson at α 3 ^h 20 +59, negative.							
Cirri up from SW							
			MC	SC	ME		
Sept. 1			+89.3	-1.8	+4.0		

[illegible]

Mon - Tue

Date Sep 4-5, 1961 Observer Gg - Julian Day 2437547.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
1440-175	α Lyr				4,4,8	28		20 08		
	Source	(22)			4,4,8			20 30:		
1441-175	α Lyr				4,4,8	"		21 02		
	Source	(22)			⑤					
1442-175	⊕ M92	17 ^h 15.9	+43° 11'		7,6,40	28		21 33		
	sky once							21 52		
1443-175	⊕ M30	21 38.1	-23 22		7,6,40	"		22 29		
	sky	⑥						22 49		
1444-175	⊕ M2+sky	21 31.4	-01 00		7,6,40	"		23 21 + 23 40		
1445-175	α Lyr.				4,4,8	"		00 17		
	Source	(16)						00 34		
1446-175	α Lyr					"		01 05 :	1 23 :	
	Source	(16.5)						1 25		
1447-175	M31-nucleus	0 40.6	+41 03		7,6,40	"		2 01		
	sky							2 21		
1448-175	ϵ^2 Cet	2 26.0	+08 17		6,4,24	"		2:46		

Malton P 30.06 - 23^h

Dome Temp. 76

Focus

Dome Temp.

Transparency Conditions 19^h 30 patches of cirri in zenith + in S.
20^h 30 - looks o.k., horizon o.k.
 21^h 30 Clear apt for some junk low in S + N.
 23^h 30 " " " " quick 5° to 15° alt in S + E.
 1^h 30 " " " patches of cirri + haze low in S

38

Hour Angle End mid	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 17W		9"-10"!				V=700+CO ₂ -19 ^h 30 trace evidences of thin cirri? centering 2/3 off. - waited	
1 ^h 12W		2 10"				22 5160 to 3430 (1440 ditto).	
3 ^h 03W						Noise seamless than usual. at 7,6 + 7,5. Seen two 2 nd mag. bolides in quick succession - Perseids?	
0 23 E						Had a check field to; NB - used to use (8,5,40)	
0 21 E						Added a little CO ₂ .	
0 ^h 35 W + 0 ^h 37 (end)						Allowed 40 ^s wait if TC=40. Cirri in N + Cirri in S.W. - 0 ^h 05 - rising?	
4 ^h 22W		- poor trace -				Clock drags instead of pulling telescope. Parked against spectrograph. centering 2/3 off. 0 ^h 40 - yes, cirri rising - a few degrees from α Lyr - patchy. - which killed 2 nd attempted trace of α Lyr.	
<u>5^h 16 W</u>							
0 07W							
0 08W						Crescent D above E horizon. Should use (6,3,16) ← scrapped	

[illegible]

41

Date Tue - Wed Sept 5/6 1961 Observer MR - Hy Julian Day 2437548.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
1453-176	α Lyr	18 ^h 35.6 ^m	+38° 45'	Hyx2	4, 4, 8	20		20 ^h 00		
1454-176	V 380 Cyg	19 ^h 49.3 ^m	+40° 29'	H8x1	6, 4, 32	"		20 37		
	"	"	"	H8x1	7, 3, 32	"		20 48		
	"	"	"	H8x2	7, 2, 32	"		20 54		
	"	"	"	"	6, 4, 32	"		21 27		
1455-176	HD 194839	20 24.9	+41 15	2xH8	7, 5, 40	"		22 13		
	"	"	"	"	7, 4, 40	"		23 13		
1456-176	HD 208947	21 56.2	+65 58	"	6, 4, 40	"		00 04		
1457-176	HD 212455	22 01.5	+55° 02'	Hyx4	7, 4, 32	"		00 48		
1458-176	BD +61° 411 = IC 1795	02 ^h 23.2 ^m	+61° 57'	H8x1 Scan	9, 4, 40	"		03 30?		

Dome Temp. 75

Transparency Conditions

42

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+38° 43'	—	0.04	A0V		hit A [Extensive cirri at sunset	
	+40° 29'.5		5.6	B3		hit B HX = 4342 on dial H ₂ O = 4840	
	"		"	"		H ₂ O = 4116] 2"/min, 1A/rev	
	"		"	"		scan 4260 - 4530	
	"		"	"			
			8.49	B0.5Fe		hit B NF of 2 stars of mag	
			"	"		" 1"/min, 1/2 A/rev, slit 40 4400-4260	Tc 40
	+65° 58'	5	6.3	B2V		" " " " "	Tc 32
	+55° 02'	5	8.25	B5Ia		" " " " "	"
	+61° 57'	5	—	—		cloud at 10° in south 3:40	
note: initial testing						very little dry ice left !!	
and 2 scans: 4750-5050.							

Wed - Thur

Date.....Sep 6-7, 1961.....

Observer *Gg* - F

Julian Day ^{2437549.5} ~~254~~

① 164 07 43.4 34.96.0

[illegible]

Dome Temp.

72

67

Transparency Conditions

20^h - Cirri + stratus in NW + haze on horizon

20^h 30 - cirri all over sky
23^h 50 - much cirrus - but clear!
01^h 00 - almost clear - excellent but for
02^h 15 - cloud from S.W. (but clear in N. & far north)

44

[illegible]

Date Thurs-Fri Sept 7/8, 1961 Observer Hy Julian Day 2437550.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
1459-177	α Lyr	18 ^h 35.6	+38° 45'		4/4/8	28		19 48		
1460-177	α Cr B	15 33.0	+26 51		4/6/8	28		20 21		
1461-177	$\oplus$ M 13	16 40.3	+36 32		7/6/40	28		20 37	21:59	
1462-177	Source	73.5			4/5/16	28		20 54		
1463-177	$\oplus$ M 75	20 03.5	-22 02		7/6/40	28		21:14	21:33	
			cloud							
1464-177	α Lyr	18 35.6	+38 45		4/4/8	28		22:30		
1465-177	Source	73.1			4/5/16	28		22:48		
1466-177	M 57	18 52.1	+32 59		6/6/40	28		23 01	and 23:12	
1467-177	$\oplus$ M 15	21 28.1	+12 00		7/5/40	28		23:24	23:42	
1468-177	M 31	00 40.5	+41 03		7/6/40	28		00:02	00:23	
1469-177	α Lyr	18 35.6	+38 45		4/4/8	28		00:50		
1470-177	Source	74.8 or 21			4/5/16	50		02:16	(done out of order, later)	
1471-177	16 Cyg A	19 40.5	+50 25		6/5/140	50		01:20		
1472-177	61 Cyg A	21 04.15	+38 27		6/4/40	50		01:50		
1473-177	i Peg	22 05.2	+25 09		5/5/16	50		02:19		

CONT'D !

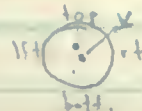
Dome Temp.

Transparency Conditions *good*

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 10 ^m W			0.04	A0 I		no clouds except low in west. centring good.	
3 ^h 36 ^m W			2.21	A0 V			
2 ^h 54 ^m W	2 ^h 47 ^m W	6.8				second half of tracing: did not return to same height	
-		-				in blue part. Changed zero. Still strange.	
0 ^h 09 ^m W	0 ^h 07 ^m W	9.5		back 20m		second $\frac{1}{2}$ considerably lower. Perhaps field drifted.	
2 ^h 53 ^m W						21:15: almost invisible clouds at 30° in S.	
						21:29: many more than <u>patchy</u> clouds all over sky.	
						(20:45 Dr Heard and 6 or 7 visitors)	
0 ^h 54 ^m W						22:30 cloud still in S.W. at 30°.	
1 ^h 39 ^m E	1 ^h 38 ^m E					23:11 tiny bit of cloud at 22° in S, otherwise clear. later: all clear.	
5 ^h 14 ^m W						centring fair ☉	
4 ^h 37 ^m W	centring good at end		6.26	G2 V		preceding star (stopped clock), slightly to N (SE)	
3 ^h 43 ^m W	" " "		6.38	K5 V		bottom brighter	
3 ^h 13 ^m W			4.4	F5 V		centring not checked. " N	



Date.

Observer.

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

fair-good

Focus

Dome Temp.

66

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
no good			3.5	G.V		small diaphragm used as <u>double</u> .	
1 ^h 02 ^m W	centring good at end in small						
1 ^h 39 ^m W	centring good at middle,	7.1	K.V			03:00 ^{still} all clear. stuff very low in SW.	
2 ^h 07 ^m W	2 08 ^m W					good at end. Sky test negative.	
too poor — → see trace.						a poor object centring poor at middle, good at end. 1 thin down-cloud just above Venus, 4:30	
0 ^h 40 ^m			4.17	M ₂ III		Very red (orange) visually.	
centring fair at middle)						down light reveals light clouds to S at 30°, 40°	
" (good)" and						long have they been there?	
→ Sky test negative						image of star was 5-7" at beginning of night, → 10" at end.	
						almost no much down near horizon, esp. at beginning of night. very good.	

Fri - SatDate Sep 8-9, 1961Observer GgJulian Day 2437551.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
1480-178	α Lyr				4,4,8	28		19 46		
1481-178	α CrB	15 33.0	+26 51		4,6,8	"		20 09		
	Source	(23)	T75		4,4,8+58			20 28		
	$\oplus$ M71	19 51.9	+18 41					20 40-50		
1482-178	$\oplus$ M75	20 03.5	-22 02		7,6,40	"		21 10 + 21 31		
1483-178	$\oplus$ M30	21 38.1	-23 22		7,6,40	"		22 01 + 20 21 to 22 51		
1484-178	$\oplus$ M2	21 31.4	-01 00		7,6,40	"		23 06 + 23 27		
1485-178	α Lyr	(23)	T72		4,4,8	"		00 00.5 to 00 18		
	Source				4,4,8			00 23		
1486-178	$\oplus$ M15	21 28.1	+12 00		7,5,40	"		1 07		
1487-178	85 Peg	00 00.1	+26 50		6,5,32	14		1 40		
1488-178	α Peg	23 02.8	+14 59		4,6,16	28		2 07		
	Source	(23.5)	T70		4,4,8					
1489-178	M31 Nucleus	00 40.6	+41 03		7,6,40	"		2 37		
1490-178	"				"			3 28		

Dome Temp.

19^h30 O.K. but cloud + haze on hori zon.
 Transparency Conditions 2100 - Clear
 22^h - Good - tho' cloud very low on hori zon. 50
 1^h - Excellent. (a bit of haze on hori zon)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	CO ₂ , V ₇₀₀ , GR 19 ^h 10	REMARKS	Quality
0 ^h 11W		7" <u>poor</u>						
3 ^h 38W		5"					by far the brightest lights from golf driving range	
0 08W + 0 09W							center is of faint stars, brighter ones on periphery. Cluster is so loose can see individual stars in photometer eyepiece. Dark current at 8,5,40 too lge - so decided not to take Spikes present. photometer box leaks more light than it did a mo. ago.	
0 34E + 0 36W							Searchlight in SSE.	
4 26W							23 ^h 40 - added CO ₂ Pushed Spectrograph.	
2 ^h 41W							break	
0 43 W		2"-3"	6.4	G ₃ V			It just goes off scale of GR at (6,6,32) centering good	
2 ^h 07 W		2.47	B _{9.5} III				Wisps of cirri in S., black stratus low in N. otherwise clear - 2 ^h 10 centering 1/2 off; centering 1/3 off ok.	
1 50W							trace is noisy? Most of cirri now in S.E. - back in S + SW also	
							2 ^h 40 - Patches of cirri overhead + beside M31.	
							NO - GOOD THIN CIRRI ALL OVER	
							- M31 seems too faint to take a spectrogram of.?	

51:

Date Sept 9/10 Sat/sun 1961Observer van B - FJulian Day 2437552.50167 02 38.8 3501.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25772	HD190658	20 00.8	+15° 13'	12"	Il.Ob	1008	27°C	21 ^m 30 ^m	22 ^m 15 ^m
25773	HO 213014	22 23.4	+16 46	I-12	"	"	27.1	22 29	00 01
25774	HOE 235783	22 13.4	+54 00	"	"	"	27.2	00 15	01 11
25775	HOE 235825	22 19.7	+54 49	"	"	"	26.8	01 19	03 51
25776.1	HD 28497	04 24.5	-13 17	"	"	"	26.8	04 08	04 22
.2	"	"	"	"	"	"	"	04 23	04 39
.3	"	"	"	"	"	"	26.8	04 39	04 47
	Focus Test	"	"	"	"	"			
								3PH ¹²	loaded in frig

Sep 10-11/61 -
 Very hazy - 19^h 40
 can only see 1st mag
 stars - Cg

21^h much
 haze - quite
 irregular

Dome Temp.

Transparency Conditions *then Canvas*

oo oo excellent!

03 45 haze seen in NW. v. difficult to guide

52

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	14 ^h 10 ^m W	+15°22'	0(1)	8.0	G72	1/2+1/2+1/2	284 - 314 vdB (SB) 17R 7680	
01	0 ^h 33W	+17°02'	0-1	8.5	G8	3-3-3	Set 7 dbL Set 8 30 counts 7320	
V.A.P.R.O.Y.							see below rebalanced EXP METER really counting! 7350	
3	01 41W	+54 18	0	8.8	B.I.V.	3-3-3	OB P20 Set 9 45 counts 7354	
S1	04 28W	+55° 03	0	9.1	Og V	3-3-3	OB P20 Set 3 Set 9 45 counts 7398	
2	01 06 E	-13° 09	-1	5.5	B.ne	9	Set 3 exposure meter found spot below 7410 - probably about 20 min = 45 counts 7432	
9	00 49 E	"	"	"	"	9	Set 6 MWC 86 7434	
7	00 41 E	"	"	"	"	9	Set 9 7436	
						10/8	Set 1 7438	
							03:45 R+asc slow motion camera pull light seeing MINUS ONE with thick haze forms - likewise leaving N side.	
							ME SC ME 25774: a.s. trouble checked - also field - thought something wrong with exposure meter but this is not home at 25775. F	
							Sept. 11 +90.0 -4.3 -2.0	
							Sept 13 +90.0 -3.0 0.0	
							180 VOLTAGE BS Cyg shown	

Date Wed Sep 13-14 1961

Observer *Hd. Thacker* Julian Day[illegible]

Transparency Conditions

Dome Temp.

54

[illegible]

55:

$F_e = 8 \text{ D. Fernie.}$

Date Fri Sept 15-16/61 Observer Hd - H 5 Julian Day 2437558.5
 0172 53 ~~5275~~ 11.6 3511.6

[illegible]

Dome Temp.

Changed to I-25
I-12 was Focus 12.69, Tilt 20.35
Net I-25 Focus 15.43, Tilt 23.18

Transparency Conditions Five

0035 Cloud from NW

56

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	0 ^h 57 ^m W	-2° 12'	0	6.68	B8	6+6-6	Set 5 Ecl. Bin (Hd) = V822 AqL	sim 7 7447 7454
2	2 ^h 08 ^m W	+15° 23'	0	8.0	gM2	6+10+6	1+2 7680 vd B (SB)	456-20
3	0106W	+62 52	0	7.8	B0-IV	6+6-6	Hd (SB) also III cep #87527-7562 15/10 Set. 9	7447 7454 456-20 7527-7562
1 P.H. in Frig. Dim Light on Exp. 17 does not work Need new Flashlight Battery								

Date Sat - Sun Sep 16-17, 1961 Observer (Gg) F - F Julian Day 2437559.5
 (Hd) 0 173 51 43.2 3513.3

[illegible]

Dome Temp. 50

Ggt F
190 Visitors
Showered BCygt M92

Transparency Conditions Clear

58

[illegible]

59.

1961

Date Sun - Mon Sept 17/18 Observer Hy - Hy Julian Day 2437560.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
1491-179	α Lyr	18 35.6	+38° 45'		4/4/8	28		19:45	20:01 ^{second} half.	
1492-179	α Cr B	15 33.0	+26° 51'		4/6/8	"		20:15		
1493-179	source	(88.0)			4/5/16	-		20:33		
1494-179	R 513	21 10.2	+17 35		7/5/32	14		20:47		
1495-179	51 Peg	22 55.6	+26 33		6/5/24	14		21:30		
1496-179	R 551	23 15.2	-14 07		1/1	14				
1497-179	α Lyr	18 35.6	+38 45		4/4/8	28 ¹⁴		22:26		
1498-179	source	(89.1)			4/5/16	28		22:45		
1499-179	R 536	22 15.3	+12 42		7/4/32	14		23:06		
1500-179	α Lyr	18 35.6	+38 45		4/4/8	28		23:36		
1501-179	source	(89.1)			4/5/32	-		00 02		
1502-179	α Lyr	18 35.6	+38.45		4/4/32	14		00 41		
1503-179	source				4/5/32	-		00 51		
1504-179	85 Peg	00 00.1	+26 50		6/5/24	14		01 02		
1505-179	R 30	1 05.6	+54 45		6/5/32	14		01:31		
1506-179	ν ν And	1 34.5	+41 13		6/4/32	14		02:10		

Dome Temp. 59

Focus

Dome Temp.

Transparency Conditions

Got dry ice Sun. evening - Hy.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 46 ^m W		7	0.04	AoI		some cirri in northern sky at sun-	
4 ^h 19 ^m W		7	2.21	AoI		set. south looks o.k.	
0 ^h 44 ^m E		7.89	F ₉ VI			HV ! guiding terrible at middle.	
1 ^h 47 ^m E		6.2	G ₄ V			MK ! " " ok " end.	
		8.6				← NOT DONE - TOO LOW AT THIS TIME	
3 ^h 28 ^m W						(The telescope would not clamp in RA and the tool was missing. Had a great time doing it with a wrench. Found (finally) and replaced, too.)	
0 ^h 28 ^m W		7.6	G ₂ V				
4 ^h 44 ^m W						error: 2 hrs taken at slit 14 second time instead of slit 28.	
5 ^h 43 ^m W						1499-179 finder field:	
0 ^h 39 ^m W		6.4	G ₃ V			HV !!	
0 ^h 04 ^m W		5.9	G ₈ VI			HV !!	
0 ^h 13 ^m W		4.7	F ₈ V			MK !!	
						01:30 all very clear - has been too, but murky in far south.	

Date cont'd Observer Hy Julian Day

[illegible]

Transparency Conditions

Dome Temp.

62

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 33 ^m W			GzV	5.6		MK !! lead clear	
0 ^h 00			G.V	7.92		HV !	
0 ^h 48 ^m W			G.V	5.6		HV !	
0 ^h 19 ^m W			dF7	8.52		LIV !!!!	
0 ^h 38 ^m W			G5V	5.7		MK	
			dF3	8.4		tried but poor - no tracing made.	
						Dawn + cirri	
						Sept 18	
						MC SC ME +90.2 -5.4 -4.0	

Ad

Date Mon Sep 18-19/61 Observer Ad Julian Day 1927

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25785	V.822 Aql. HD 183794	19 26.1	-2 19	I-25	IIaOB	016	20.0	1927	20 17	1
	Focus Test					008				
	" "					016				
1514-180	HD 196025	20 32.6	+6 45	48x4	6,4,32	set 20		21:04		
1515-180	HD 201254	21 06.1	+14 31	48x2+	"	"		21:33		
25786	HD 217312	22 54.8	+62 32	I-25	IIaOB	008	19.3	22 14	23 32	2

Dome Temp. 66 F

Focus 15.49

Dome Temp.

Transparency Conditions[illegible]

Wed-Thur

Date Sep 20-21/61 Observer Gg-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
—	α Lyr				448	28		19:24		
25787	HD 183794	19 26.1	-02 19	I25	IIaob	.016	22.3	19 49	20 45	3
	Focus Test					.016		ITB/OTA	← NB	
	"					.008	22.3	OTB		
1516-181	α Lyr	(1961)			4,5,8	14		21 58		
1517-181	Reg	22 05.2	+25 09		5,6,16	"		22 28		
X			linearity tests with slit				≈	22 50		
25788	HD 221914	23 31.0	+17 53	I-25	IIaob	.008	22.1	23 41	04 11	4
	Focus Test		OTB							

Dome Temp. 67

Focus 15.52

Dome Temp.

Gibbous)

19^h20 Cirri high in SE. Unenenguck in E. 66
 Transparency Conditions 20^h20 - cirri rising in SW.
 0150 Cloud & Fog 21^h - patches of cirri all over sky
 (thin)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						uneven : cirri. cut short.	
3 0 ^h 57 W		0 ⁺ 6.68	B ₈	4-3*	Set 3	Mid-Ecl-B [*-forgot] sans exp water	fine
				⊕ 15/10	Set 6	⊕ should be 1/2 this expos.	fine
				15/10	Set 9	21 ^h 45 dew forms + drips from dome. some haze in S + W, uneven.	
3 ^h 11 W (mid)	5"					centering poor 22 ^h 30 a little thin cirri in SW + SE. Not truly photometric.	
0 ^h 12 W						23 ^h - scattered cirri - over sky. - quite damp.	
4 0 ^h 19 W	+78 15	1	8.33	G ₃ ^V	6-6-6	Se-HV 508 { 7713 60 7711	fine K
					15/10	3 P.H. Loaded. Upper end of telescope dripping Very Humid!!!	

Date Thurs Sep. 21-22/61 Observer Kd - H5 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.	11
25789	HD 217312	22 54.8	62 32	I-25	Ilford	008	124.1	21 35	22 45	1
	Focus test		OTB							
25790	HD 218393	23 02.6	49 40	"	103a0	"	24.2	00 15	00 57	1
25791	HD 6343	00 59.4	65 26	"	"	"	24.2	01 09	02 17	4
25792	" 21650	03 24.6	41 25	"	"	"	24.1	03 16	04 14	1
	Focus test		OTB							

Dome Temp. 70°FFocus 15.55

Dome Temp.

Transparency Conditions Very poor, cloud at zenith 68
0220 Clouds

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5/1	W 33 ^m	62 50.	0-1	7.8	B0 IV	6-6-6	At 2 Hd Bin. Hazy run 8 7775 16/10. net 8 7825	fine ctw in
1	0137W	49 58	0-1	6.8	A ₄ e	4-4-4	" 5 Hd Be #7 7836 7847	good
7	0059W	65 44	0	7.1	Bsep	4-4-4	" 5 " " #7 7849 7860	weak
	0032W	41 33	0-1	7.2	Bsne	4-4-4	" 5 " " #7 7864 7875	weak
						12/8	" 9	
							P.H. #2+3 Loaded IIaOb (to be used by H.D. U)	
							1 Box (12) 103a0 in tray.	
							<u>Dirt on slit</u>	
							Frank fix the cross hairs lights on the upper frame	
							O.K.	
							[L cleaned slit Sep 22-pm. Gy took sky spectrogram as A-O.K.]	

Fri-Sat.
Date Sep 22-23/61

Observer Gg - F

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

20^h - Fair - horizontal clouds. 70

20^h50 { some thin stratus in SW + a little cirri overhead. but not haze
+ cirri in N.

21^h20 - bands of cirri high in N + W + most places - NON-PHOTOMETRIC

$CO_2, GA, V700 \approx 19h$

0:20 excellent apart from moon
REMARKS a little cirrus
2:00 cirrus from NW covers sky - then

Quality

centering ok

Should use 4, 5, 16

23^h - Muchcitti all over, 22° halo on).

0^h 32 W

C-1 7.8 B₀ IV 5-3-4 Setz Hd-Sp B

images, lioncyes around. 7907
field checks. ~ 29586

+ 18 12

1-0 8.3 G5V 6-6-6 Set 3 Se - 4V

200 much closed up joy in w 55 7961
 no. pins much better
 back, and very bright color. 8004

15/10 Sat 8

3:00 cells growing steadily cone to 8:00 23:00
leaves (2988 @ 1:30)

5:15 mostly one clearing v. heavy dec. regency - ve 1

3:30 rain clouds in W. fog rising fast

3:37 clouded over fog very bad: clearing up

2 PH loaded

103 a 0

NB

2 PH

IIa 06NB#2 has spectrum at set 2

Sept. 26

<u>MC</u>	<u>SC</u>	<u>ME</u>
+90.5	-17.3	-7.2

Note: PH#2 is loaded with plate having
H α 217312 at net 2 II aob
PH# 3 has also II aob
PH #194 have 103uO + loaded

Date July Sept 26-27/61 Observer Gg - Gg Julian Day L

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25795	<u>V 822 Aql.</u> HD. 183794	1926.1	-02 19	I-25	EIIA0 ^b	Set 016	16.2	19 08	19 44	2
1520-183	Source	(33)			4, 4, 8					
1520-183	110 Her				6, 4, 24	14		20 12		
1521-183	Source	(31)	(34.5)					20:32		
	α Lyr	Linearity tests			24600					
1522-183	α Lyr				4, 4, 8	14 ^{up} ↑		21 21		
1523-183	ϵ Peg	22 05.2 (1961)	+25 09		6, 4, 24	"		21 44 (deduced)	22 04	
1524-183	α Peg	23 02.8	+14 59		5, 4, 8		24600	linearity tests.		
1525-183	R 551	23 15.2	-14 07		7, 6, 40	"		23 15		
1526-183	ζ Peg	22 39.5	+10 31		5, 5, 8		24600	linearity tests		
1526-183	Source	(18)			4, 4, 8					
1527-183	K And	23 38.5	+44 07		5, 6, 16	28		00 22		
1528-183	"	"	"		5, 6, 16	14		00 41		
1529-183	85 Peg	00 00.1	+26 50		6, 6, 32	"		1 09		
1530-183	5" Cat	2 26.0	+08 17		6, 5, 16	"		2 02		
	Source	(18)						2 23		

Dome Temp. $+60^{\circ}\text{F}$, 55, 51

Focus 15.43

Dome Temp.

Transparency Conditions

Good

20^h - Clear all over & on horizon0^h - All clear. - damp - a little general haze

72

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20W	-02 13	0	6.68	B8	3-3-3	Set 6 Ecl. Bin Ad.	good. what's other sp?
1 ^h 41 W		poor 5"				At 6,6 - Seems to be many spikes. Dup. centering ok " 1/3 off - ok 25160 to 3440	
2 ^h 58W						chged light in desk lamp.	
—			2.47			centering ok.	
			8.6	sd F8		Noisy & bright gibbous ^{bri} - hence didn't take ← Dry Ice added	
			3.32				
0 ^h 57 W		poor 5"	4.33	A ₀		centering 1/2 off " ok (ok) 1/3 off - ok ok	went off scale use TC 243
1 ^h 15 W							
1 ^h 21 W			6.4	'			
0 11 E						{ Moon so near it lights up x hairs in Finder of 74"! { Sky due to Moon! - tho' sunl.	

Tue - Wed

Observer.....Gg

Julian Day

[illegible]

Dome Temp.

4^h30 - same as above + a little damp.

74

[illegible]

+ students IV yr. Div IV.

Observer. *Ad*

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Good

76

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 50 ^{56m}	-2 11	2-1	6.68	B8	4-6-4	Set 2 Gel. Bin Hd. sens 7 8025	} good
" 55 ^m	?	0	G2V	18	Set 1 East limb. sens 4 4cto		
(1) (4)				18	Set 4 West u sens 4 4cto		
focus test on this. not recorded. C to 12.							

Date Fri, Sep. 29-30/61 Observer vdB & Fe Julian Day 243950.5
vdB (Franklin)

[illegible]

Dome Temp.

Transparency Conditions thin Co. till cool
between

78

Mirror Worksheet

[illegible]

Date Sat Sept 30/31 1961 Observer F Hy Julian Day 196

[illegible]

Dome Temp. 66

Focus

Dome Temp.

160 Visitors:

Showed Film, "The
Solar Family" and slides.

Demonstrated the 74" telescope.

Transparency Conditions Extremely hazy

80

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Sky too thick now.

21:30 worse, closed up.

Oct. 3

MC

SC

ME

+6.0 -22.0 -0.2.

815

Date Aug Oct 3-4/61 Observer L-H ✓ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
28804	H.D. 217312	22 54.8	62 32	I-25	^{Emulsion} E II A0	set 008	+9.9	22 57	23 17	1
28805	MWC 13 HD 9105	01 24.6	62 51	"	"	"		23 45	02 41	2
25806	MWC 63 HD 20017	03 07.9	48 19	"	"	"	9.9	03 11	04 01	3
	Focus Test									
25806 F	Focus Test					008	8.5?	16:16		1
Oct 4						"	"			
HD 1.6.6						"	"			

Dome Temp. $+44^{\circ}\text{F}$ Focus 15.35

Dome Temp.

Transparency Conditions

82

 0145 CLOUDS 0335 MORE CLOUDS

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 053 W	62 50	0	7.8	BoII	6-6-6	Set 5 Dble Line Rin.	Lowish
2 0145 W	63 06	0	7.5	Bse	6-6-6	Set 5 Be pirog. Sm 8 { 8106 8145	
3 0122 W	48 32	00	7.9	B9ne	6-12	" 3 " 4 " 8 { 8149 8157	
					20/15	" 8	
						J.P.H. $+12^{\circ}$ IN DOME	
						Should Mirror Heat be ON??	
					16/12	Set 2 Focus 15.35 OTD	
						Set 6 Focus 15.31 "	
						Set 9 Focus 15.33 "	

Date Fri. OCT 6/7 1961Observer RS

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
1536-184	δ Cyg	19 43.7	+4502	5/4/7	28			18 ^h 46	2x
1537-184	Source			5/4/40	28			19 ^h 04	
1587-184	δ Cyg	19 43.7	+4502	5/5/7	14			19 10	2x
1588-184	Source			5/4/38	28			19 25	
1589-184	η 15	21 28.1	+1200	7/5/40	28			19 37	2x + 15x
1590-184	η 2	21 31.4	-0100	7/6/40	28			20 13	2x + 25x
1591-184	η 30	21 38.1	-2322	7/6/40	28			20 55	2x + 2x
1592-184	Source								
1592-184	Roman 513	21 10.2	+1735	7/5/32	14			21 54	2x + 15x
1594-184	51 Peg	22 55.6	+2033	6/5/24	14			22 30	2x
1595-184	δ Cyg	19 43.7	+4502	5/5/27	14			23 05	2x
1596-184	η 32	00 40.0	+4038	7/6/40	28			23 41	2x + 15x
1597-184	η 31	00 40.3	+4102	7/6/40	28			24 ^h 00 ^m	1x
1598-184	Source			5/4/40	28			00 ^h 15 ^m	2x
1599-184	ν And	01 24.1	+4111	5/5/7	50			00 50	2x
1600-184	ξ^2 Cet	02 26.0	+0817	5/5/7	28			01 ^h 15 ^m	2x
1601-184	Source			5/4/40	28			01 ^h 35 ^m	

Dome Temp. 68°F

Focus

Dome Temp.

Source reduced
I assumeTransparency Conditions *Pelet pe wntw!*

\$4.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	$0^{\text{h}}10^{\text{m}}\text{E}$			2.85	B9.5 III		ext. ST.	
	65.5°F							
	$0^{\text{h}}15^{\text{m}}\text{W}$							
	64°F							
	$1^{\text{h}}00^{\text{m}}\text{E} + 1^{\text{h}}00^{\text{m}}\text{E}$							
	$0^{\text{h}}26^{\text{m}}\text{E} + 0^{\text{h}}26^{\text{m}}\text{E}$							
	$0^{\text{h}}15^{\text{m}} + 0^{\text{h}}15^{\text{m}}\text{W}$	62°F						
	$1^{\text{h}}33^{\text{m}}\text{W} + 1^{\text{h}}35^{\text{m}}\text{W}$			7.89	F9 VI		poor centering	
	$0^{\text{h}}30^{\text{m}}\text{W}$			5.2	Sy IV			
	$4^{\text{h}}12^{\text{m}}\text{W}$			2.85	B9.5 III		ext. STW Faces away, NOT Durt!	
	$0^{\text{h}}15^{\text{m}}\text{E}$							
	$0^{\text{h}}11^{\text{m}}\text{W}$	sky						
	$0^{\text{h}}25^{\text{m}}\text{W}$							
			58°F					
	$0^{\text{h}}05^{\text{m}}\text{W}$			4.18	F8 V			
	$0^{\text{h}}20^{\text{m}}\text{E}$			4.27	A0 V			
			57°F					

← NBA jump of 50 in numbers.
Gp.

Date Fr/Sat Oct 6/7 cont Observer v. 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.	
1602-184	E ² C ₁ T	02 26.0	+08 17		5/6/7 14			01 ^h 35 ^m	2x	
1603-184	δ Tr.	02 14.5	+34 03		6/5/24 14			02 03	2x	
1604-184	R 73	03 06.1	+26 12		7/5/24 14			02 33	2x + 15 ^m	
1605-184	M 79	05 22.6	-24 33		14 0 28			03 12	2x + 25 ^m	
1606-184	E ² C ₅	02 26.0	+08 17		5/5/7 28			03 52	2x	
1607-184	Source				5/4/40 28			04 08		
1608-184	E ² C ₁ T	02 26.0	+08 17		5/6/7 14			04 03	2x	

Dome Temp.

Transparency Conditions

pet!

86

Focus

Dome Temp.

57°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 00 ^m			4.33	AOZ			
0 ^h 40 ^m W			5.6	SOZ		Zero changed during UV to get entire trace on scale.	
0 ^h 20 ^m W			8.52	Sci FZ			
1 ^h 20 ^m W + 1 ^h 20 ^m W							
2 ^h 15 ^m W			4.33	AOZ			
		57°F					
2 ^h 38 ^m W			4.32	AOZ			

Date Lat Oct 7-8 / 61 Observer Hol - F Julian Day 243980.5

[illegible]

+ 60° F

Excellent!

88

Showered Ring Neb

Gerry: the switch on the exposure meter light is not working

vi. Jaig

3

morning sunb

0:00 wave starts in brief - still at 0.5th 0.125 to M

Date Sun/Mon Oct 8/9 1961 Observer Hy - Hy 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.
1609-185	^{Lin.} 2 Lyr	18 35.6	+38 45			10-40	10-40	19 15		
1610-185	116 Her ^{+S}	18 44.0	+20 31		5/5/8	50		20 00		
1611-185	⊕ M 30	21 38.1	-23 22		7/6/40	28		20 35	20 54	
1612-185	⊕ M 2	21 31.4	-01 00		7/6/40	28		21 22	21 41	
1613-185	⊕ M 15	21 28.1	+12 00		7/5/40	28		22 09	22 28	
1614-185	K And ^{+S}	23 38.5	+44 07		5/5/8	28		22 47 50		
1615-185	L Peg	22 4.9	+25 07		5/5/8	50		23 13		
1616-185	61 Cyg A	21 4.5	+38 28		18	50		23 45		
1617-185	61 Cyg B	21 4.5 ^S	+38 28		6/5/24	50		00 07		
1618-185	S				4/6/30			00 27		
1619-185	M 32	00 40.6	+40 39		7/6/40	28		00 39	00 58	SKY ONE
1620-185	M 31	00 40.6	+41 03		7/6/40	28		01 12		
1621-185	K And	23 38.5	+44 07		5/5/8	28		01 37		
1622-185	ξ ² Cet	02 26.0	+08 17		5/5/8	28		02 01		
1623-185	S				4/6/30			02 43		
1624-185	54 Psc	00 37.1	+21 01		6/5/32	50		02 25		

Dome Temp. 66

Focus

Dome Temp.

 Transparency Conditions terrible at sunset. later: much⁹⁰
better but VdB says still not
photometric.

Hour Angle End M/D	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 33 W						Linearity test at 4600 Å	
2 ^h 16 W			4.7	F6 V		20:15 very clear above (gentle). Some stuff in SW. → S 1 at 4/5/8 = 18.0 and 4/6/16 = 61.3, 4/6/30 = 60.6 → S at 4/6/30 = not done. (Sky supernova near M30. 20:38) Looks pretty good at 23:00 S? top - 1616 N? bottom - 1617 ARROW SHOWS DIRN OF DRIFT WHEN CLOCK STOPPED. very clear + good 01:00	
0 ^h 02 E	0 ^h 05 E						
0 ^h 52 ^m W	0 ^h 50 W						
1 ^h 41 ^m W	1 ^h 43 W						
0 ^h 12 W			4.33	A0			
2 ^h 07 W			3.96	F5 V			
3 ^h 41 W			5.57	K5 V			
4 ^h 02 W			6.28	K7 V			
1 ^h 08 W	← END!!	mag dry = 0 ^h 58 ^m at end (one way)					
1 ^h 32 W	(middle)	← refocussed: (●) → (●) K And. Seeing is 2.3: excellent					
2 ^h 59 W							
0 ^h 35 W							
2 ^h 48 W			6.08	K0 V			

Date Sun / Mon Cont'd Observer Hy Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
1625-185	V And	01 34.1	+41 11		5/5/8	50		2 48	
	NGC 752	01 55.1	+37 27			28			
	NGC 7789	23 54.8	+56 29						
1626 -185	n Cas	00 46.4	+57 35		5/5/8	50		3 27	
1627 -185	O Cas	01 08.3	+54 45		5/5/8	50		3 47	
1628 -185	K And ^S	23 38.5	+44 07		5/5/8	28		4 10	
1629 -185	M79	05 22.6	-24 33		7/6/40	28		4 35	
1630 -185	s ² Ceti	02 26.0	+08 17		5/5/8	28		5 18	
1631 -185	p Gem	07 26.2	+31 52		5/5/8	50		5 40	
1632 -185	S				4/6/30			5 50	

M92 2nd f
start

one way
only

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 15W			4.18	F8 V		no traces made	
3 42W			3.64	G0 V		- too dispersed. Could get individual bright stars	
3 40W			4.52	A7 V		- disappointing. Wide scattering of faint stars. Negligible deflection at 7/6/40	
5 32W			4.33	A0 V		S at 4:26, Night perfect now 4:00.	
0 14W			8.4			at 4/6/30.	
3 54W			4.27	B9 III		L at start of sky, end of 1st 1/2 of M79.	
0 45W			4.18	F0 V		bank of cloud low in east 5:20	
						M79 done:	
						i) M79	5160-4450
						ii) sky	4450-5160
						iii) sky	5160-4450
						iv) M79	4450-5160
						v) sky at 5160	
						70° 22' W mid-sky M79	
						= 4:53 EST	
						0° 33' W at start of 2nd 1/2 of M79.	

Dome Temp.

Focus

Dome Temp.

- Considerable extinction, uneven.
 Transparency Conditions ... 19^h 05 - cirri - high in N.
 19^h 10 - clouded over + at 22^h 94

Cl- arrived 01⁰⁰ EST - left 0215 GMT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
25812	F4	Time = 16 ^s , 16 ^s				CONSIDERABLE cloud over 5/4 sky +. unresip.	
slit .008		Focus, Settings, as before, except in					
Oct 11/12 1961		reverse order: ④ dom 1 st , at setting 1, focus 15.58					
Tilt = 2325					4	15.54	
PH # 3					6 1/2	15.50	
25812	F3	Time = 16 ^s , 16 ^s				9 15.46	
slit .008		Focus = 15.46			Set = 1		
Oct 11/12 1961		etc as before.					
Tilt = 2325							
Ph # 2							
						set 9 has only 1/2 test or it.	
						set	
						at 2 1/2	

Blank.
 except for
 weak
 outside
 of one
 exposure.

Thu-Fri

Date Oct 12-13/61

Observer Hy Gg -

Julian Day

Plate No.	Object	R.A. -1900- (1960)	Declination 1900-	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
1633-186	S	(53.5)			4/6/30	28		19:21		
1634-186	⊕ M75+sky	20 03.5	-22 02		7/6/40	28		19:30 +	19:57	
1635-186	⊕ M2	21 31.4	-01 00		"	"		20 38 +	20 58	
1636-186	Source	(53.?)			4/6/30			21 18 ±		
1637-186	1 Peg	22 05.2	+25 09		5, 6, 16	14		21 ^h 35 ^m 41 ^s		
1638-186	R551+sky	23 15.2	-14 07		7, 5, 32	"		22 19 +	22 39	
1640-186	85 Peg	00 00.1	+26 50		6, 5, 16	"		23 16		
1639-186	R551				7, 6, 40	14		22 54		
1641-186	X And	23 38.5	+44 07		5, 6, 16	"		23 41		
	Source	(55)			4, 6, 32			23 59		
—	NGC 205				8, 6, 40	14		00 30 ±		
1642-186	M31	00 40.6	+41 03		7, 6, 40	28		1 00		
1643-186	M32	00 40.6	+40 39		"	"		1 28		
	sky - one way				"	"		1 59		
1644-186	ξ ² Ceb	2 26.0	+8 17		5, 6, 16	14		2 23		
	Source	(54)			4, 6, 32			2 42		

Dome Temp. 66

Focus

Dome Temp.

Fe - Astron-1a

Hd-3

Visitors

Transparency Conditions

Clear down to horizon

1^h30 - Improving

96

Hour Angle End <u>middle</u>	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		T=67°F				CO ₂ in.	
0 ^h 39 ^m W + 0 ^h 45 ^m W		9.5	G2			1.1.00 = I	
0 23 W 0 23 W						NB to λ 3320.	
0 ^h 52 W		T=62°				tried Nac 7006 : no good on 8/5/40.	
0 ^h 21 W		8" <u>lousy</u> .	4.4	F ₅ V		centering 1/3	
0 ^h 30 W		7-8" <u>poor</u>	8.6	sd F ₈		22:10 - added CO ₂ - it needed it - was in big lumps. Sky is quite small.	
see trace			6.4	G ₃ V		Could use 6, 6, 24.	
1 ^h 18 W						λλ 3450 to 5160 One way - ran into pier.	
		59°F					
1 ^h 36 W			4.3			Too noisy.	
2 ^h 04 W (2 ^h 14 ⁵⁰⁰ trace)			9.1			Can see a "nucleus" in photometer eyepiece	
1 ^h 59 W 5						centering 1/2 " ok	
1 13 W		V. poor 10" (irr.)				I find std source very near normal posn of Al slide So that a source reading at 36 occurs if one is not centering ok	
		57°F				Added CO ₂ 305 - it need lit.	

97

Thu-Fri

Date Oct 12-13 / 61

Observer

— Gg

Julian Day

Plate No.	Object	R.A. -1900 (1960)	Declination -1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
1645-186	K And	23 38.5	+44 07		5,6,16	14		3 18		
1646-186	R73	3 06.1	+26 12		7,5,24	"		3 54 +415		
1647-186	⊕ M79	5 22.6	-24 33		8,5,40	28		4,43		
1648-186	δ Gem				5,4,8			5 14		
	Source	(43)			4,6,30			5 39		
		Oct 16/61	14d.	5u.	Focus	Tests				
25812 F5				I-25	103a O	net. 008	+7.0			3
25812 F6				I-25	103a O	.008	+7.5			3
25812 F7				I-25	103a O	.008	+7.8			3

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

98

4^h45 thick fog - esp to east. Some droplets in air?
 5^h - " " all around. Dome dripping
 5^h30 - sky getting light - cirrus high in E. - stratus low in E & W

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^h 56 W		poor				centering 1/2	
2 06 W		better	sol F ₇ 8.52			to 23430 Sky is small - surprisingly. Noise is too great - stopped. Was going to get 5 ^h 2 ^m set - but too late. Off centre - refocused centering 1/2	
0 03 W		v. poor 10"					
			56°F				
OTB.					16/12	set 1 - 15.37 set 4 - 15.33 set 6 1/2 - 15.29 set 9 - 15.25	
OTB						set 1 - 15.37 set 4 - 15.33 set 6 1/2 - 15.29 set 9 - 15.25	
OTB.						set 1 - 15.37 set 4 - 15.33 set 6 1/2 - 15.29 set 9 - 15.25	

Frank: the slow motion button on dec control
 on E side of pier doesn't work all the time.

99.

Date

Mon Oct 16-17/61

Observer

Su/MR
Hd/Cl

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
25813.	Jupiter	20 01.8	-21 11	I-25	IIaD	008	+9.0	18 33	18 35	4
				IT.	[short slit?]			18 41	18 43	4
								18 47	18 48	4
25814	Jupiter							18 56	18 58.	1
								19 01	19 03	1
								19 05	19 06	1
25815	Jupiter							19 09	19 11	2
		(1961)	(1961)					19 14	19 15	2
								19 17	19 18	2
1649 - 187	HD 201254	21 ^h 06 ^m .1	+14 ^o 31'	Hx4	6,4,32	set 20	—	19 52 ^m		
1650 - 187	HD 207563	21 47.6	+20 17	"	5,5,32	...		20 23		
25816	"	21 ^h 44 ^m 8	+20 00	I-25	IIaOb	.008	+9.0	20 48	21 08	7
25817	HD 209008	21 ^h 55.1	+6 14	"	"	"	"	21 44	22 09	2
1651 - 187	" "	21 58.1	+6 31	Hx4	5,5,32	set 20	—	22 14 ^m		
25818	HD 219188	23 07.9	+4 27	I-25	IIaOb	.008	+9.0	22 05	00 00	4

Dome Temp. 50F.Focus 15.25

Dome Temp.

Transparency Conditions

100

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5					G2	18	RH limb. set 1	Probably spoiled
8						18	LH limb. set 6	OK
8						18	? RH limb set 9	with had 1 count of previous setting
8						18	RH limb. set 1	East limb
8						18	LH limb. set 6	West limb
8						18	centre of disk set 9	
8						18	RH limb. set 1	East limb
8						18	LH limb. set 6	West limb
8						18	centre of disk set 9	
8							DMO-RAD 1A/sec 2"/min	VOLTAGE 900 H ₂
8								VOLTAGE 850 H ₂
8								VOLTAGE 900V.
8	00 35W	"	1	"	"	6,6,6	8392-8407 set 2	fine
8	01 35W	+6 30	2	6.04	B3V	6,6,6	8412-8419 set 8	fine
8							DMO-RAD. 1A/sec 2"/min	voltage 900V
8	02 13W	+4 45	2	6.98	B2V	6,6	8421-8437 set 8/5	nothing on
							also used.	was on started at very slow

Date Mon Tue Oct. 16/17 '61 Observer MR cl Julian Day

(CONT)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
1652-187	ADS 3696	24 ^h 02.7 ^m	+58 18'	H _x 4	5,5,32	20	—	00 17		
1653-187	53 Cas	2 00.0	+64 12	H _x 2	" " "	"	—	00 59		
1654-187	HD 12953	2 05.8	+58 11	"	"	"	—	01 19		
1655-187	8 Cef.	2 37.5	+50 10	"	4,5,32	"	—	01 46		
1656-187	35 Ari	2 41.1	+27 32	"	5,4,32	"	—	02 07		
1657-187	HD 21291	3 25.8	+59 49	"	5,4,32	"	—	02 33		
1658-187	HD 21329	3 26.7	+58 45	"	"	"	—	02 51		
1659-187	HR 1046	3 27.0	+55 19	"	5,4,32	"	—	03 08		
1660-187	E Per	3 55.2	+39 54	"	4,4,32	"	—	03 27		
1661-187	T(94) Tau #029763	04 39.8	+22 53	"	4,5,32	"	—	03 51		
1662-187	γ(110) Aur #032630	5 03.7	+41 11	"	4,4,32	"	—	04 16		
1663-187	HD 32990	5 05.7	+24 13	"	6,3,32	"	—	04 35		
1664-187	105 Tau #032991	5 05.5	+21 39	"	6,3,32	"	—	04 58		

Dome Temp. 70

Transparency Conditions

V. good

102

[illegible]

103.

X

Date Wed Oct 18-19/61

Observer

Paul
Perry
Rasch
Zingales

Hd.

- H_v

Julian Day

BK

(BK)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25819	Jupiter				IlaoB			18:49 1848	1850	3
								1858	1900	
					"			1904	1905	
25820	"				"			19.11	19.13	1
								19.16	19.18	
								19.21	19.22	
25821.	HD 172712	18 36.6	+52 14	I-25	IlaoB	.008	+19.3	19 47	20 55	2
25822	HD 217312	22 54.8	+62 32	"	"	"	19.5	21 06	22 02	3
25823	HD 215218-9	22 39.2	+80 52	"	"	"	19.5	22 15	22 45	4
25824	HD 213470-1	22 26.5	+56 42	"	"	"	19.3	22 55	23 55	1
25825	HD 213310-1	22 25.4	+47 "	"	"	"	"	00 20	00 38	2
25826	HD 13474-5	02 06.6	+66 03	"	"	"	19.8	00 50	01 28	3
25827	" 16082-3	02 29.9	+51 32	"	"	"	"	01 38	05 20	4
25828	HD 50820	06 49.7	-1 38	"	"	"	19.5	05 30	06 00	1
	Focus Test	O.T.B.								

Date Thurs Oct 19-20/61 Observer L- Julian Day 174.5

[illegible]

Dome Temp.

106

Time	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	2	1 34W	27 02	1	6.6	Ko A ₀	6-6-6	Set 5 Olynks' Star Clouds. 1 P.H. loaded.	Low 7 { 8672 8701

107

20/21 ← Hy

BK

Date Fri Oct 19/20, 1961

Observer Gt - Hy

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.
25830	HD 174016-7	18 43.4	+61 51	I-25	Ilao-B	set .008	17.0	18 31	21 25	3
25831	HD 105114-5	21 28.1	+52 11	"	"	"	16.2	21 36	22 06	4
25832	HD 213310-1	22 25.4	+47 11	"	"	"	16.2	22 15	22 23	1
25833	HD 4615-6	0 43.0	+51 33	"	"	"	16.2	22 36	23 14	2
1665-188	θ Cas	01 08.3	+54 45		5/5/8	50		23 44		
1666-188	S	(70.5)			4/6/30	50		00 02		
1667-188	61 Cyg B	21 04.5	+38 28		6/5/24	50		00 17	SKY ONE WAY 00 35	
1668-188	54 Psc	00 37.1	+21 01		6/5/30	50		01 04	00 54	
1669-188	S	(70.1)			4/6/30	50		00 45		
1670-188	θ Per	02 41.1	+49 03		5/5/16	50		01:30		
1671-188	S	(69.2)			4/6/30	50		01:49		
1672-188	16 Per	02 47.8	+38 07		5/5/16	50		01:56		
1673-188	ε ² Cet	02 26.0	+08 17		5/5/16	50		02:25		
1673-188	36 Per	03 29.2	+45 54		5/6/16	50		02:50		
1674-188	S	(68.0)			4/6/30	50		03:13		

Dome Temp. 62

Focus 15.39

Dome Temp.

Transparency Conditions Good

108

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 20 W	61 54	0	8.0	F5 A26-6-6	rel 5	Hynek's : : set 8	8709 8764
2 16 W	52 24	0	6.2	K0 A36-6-6	5	" : : set 7	8768 8788
1 35 W	47 30	1	4.6	K0 A06-6-6	5	" : : " 7	8790 8810
0 07 W	51 52	1	6.8	F8 A36-6-6	5	" : : 7	8811
0 ^h 23 ^m W			4.52	A7	T=51°C.	≤ Full Moon	
4 59 W			6.28	K7		not moved back at all for sky (now)	
2 14 ^m W	2 ^h 06		6.08	K0		sky done before object.	
					T=51°	← out of temporal order !!!	
0 ^h 36 ^m W			4.22	F7			
					T=49°		
0 ^h 55 W			4.27	F2		Moon set at 3:40 . a good,	
1 ^h 47 W			4.27	B0		photometric night.	
1 ^h 08 W			5.35	F4			
					T=48½°		

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 02 ^m W			5.35	F3			
0 ^h 17 ^m W	0 ^h 15 ^m W		8.4				
0 ^h 59 ^m W			7.69	F6		no test for sky made.	
			4.27	B9 III		→ NO GOOD !!	
						T = 47°	
0 ^h 20 ^m E			4.18	F0			
			3.65	F0 II		not done	
						T = 47½°	
						clouds rising in east : 05:30	

Date Oct-21-22, 1961

Observer Fe - BK

Julian Day

[illegible]

Dome Temp. 50°
 Focus 14.33
 Dome Temp. 50.33

Transparency Conditions Fair to good

1/12

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:34 W	+15 23	1	~8.0	GM2	6+6+6	Too far west to complete exposure. u.B. S.B.	no measure at all
3 43 W	+2 25	1	8.7	G5	6+4-4	SZ Psc set 7	8851 8868 fine
4 58 W	47 30	0	4.6	Kn 40	6-6-6	set 5 Hynek's set 7	8868 8888
5 40 W	46 25	0	7.6	F2	6-6-6	5 " 7	8892 8912
3 22 W	39 55	0	6.3	B8	6-6-6	2 " double, sf comp. 7	8912 8923
					18/12 8		
					4 PH +4		

113.

Date Sun Oct 22-23/61 Observer L-BK Julian Day

[illegible]

Dome Temp. 42°

Transparency Conditions *Good*

114

[illegible]

115

Thurs/Fri 26/27 Oct 61 - seemed about to clean them back to poor
- gave up at 10:00 pm EST NB →

Date Fri-Sat Oct 27/28, 61 Observer BK
GT - Julian Day

[illegible]

- all 4 PH's loaded!

Dome Temp.

Focus 15.28

Dome Temp.

Transparency Conditions *Clearing gradually*

116

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 49 W	+37 44	0	6.8	FOA36-6-6	set 5	Hymek's	set 7 9112
5 33 W	49 43	0	6.7	AOG 6-6-6	5	"	9133
4 00 W	47 30	1	4.6	KOAO 12	5	"	9134
0 44 W	23 00	1	6.4	ASG 4-4-4	5	"	9152
0 40 W			6.7	FSA 4-	5	" clouded out	9156
				12/8	8	plate marked 25848	9182
						PH No 2 - 103-a-0 + 8	9202
						PH 3.4 II a 0-B	9204

from OK

Date Tue - Wed Oct 3 / Nov 1, 1961 Observer B/K Julian Day 173.5

[illegible]

Focus 15:28

Dome Temp.

118

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 2	01 46 W	44 06	.0	6.7	FSA	4-8	set 5 clouded out 2PH with $\bar{\Pi}$ a 0 8 plates 103-a-0	9211 set 7

Date Wed-Thursd. Nov 1/2, 61 Observer ^{BK}Gg - BK Julian Day

[illegible]

Dome Temp. 42

Focus 15.27

Dome Temp. 34

3rd 26 755
165
36
201

Transparency Conditions

Clear except a patch of cirrus in S
+ another at 90° 30'

120

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7 1	0 56W	47 30	0	4.6	KO A	4-4-4	set 5 Hynek's	9221 9238
8 2	1 47W	9 40	0	2.5	KO	12	5 "	9240 9256
5 3	3 05W	+61 20	0	8.40	F ₉ V	4-8-6	set 2 Se HV (was counting every 2") field checks.	262 316 9317 9343
3	3 55W	56 55	0	6.5	F5 A2	4-4-4	set 5 Hynek's	7 9344 9358
2	2 16W	46 26	0	6.5	FO	4-4-4	5 12/8 9 clouded out	7 Plate discarded
1 PH with II a O-B, plates in dome								
				MC	SC	M.E		
				+21.4	-10.2	-4.6		

Date ^{Sat-Sun} Nov 4-5, 1961 Observer Fe-L Julian Day

[illegible]

Dome Temp. 40° F.

122

3 P.H.s loaded with
Baked IIAOs + 4

Date Tues Nov 7-8/61 Observer 14d-Hv Julian Day 243.5

Date Tues Nov 7-8/61 Observer 14d-Hv Julian Day 243.5

Dome Temp.

Transparency Conditions

Transparency Conditions

124

0115 CLOUDS

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0415W	62 53	0	7.8	Botu	3-3-3	wt 2 some clouds. pens 8 9484	fine
0-15W	62 14	00	6.5	Bge	6-12	" 3 Hd Be 9523	fine
					18/12	" 8 9544	cal to vi
						1 P.H. looked IIaOB.	
						Part 1 Box IIaOB in Dome	
						" 1 " 103a0 " "	

Date Thurs/Fri Nov 9/10⁶¹ Observer H. G. 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.
1683-189	8634	22 39.5	+10 37		4/6/8	50✓		19 53		
1684-189	S	(71.5)			4/6/30			20 10		
1685-189	8965	23 36.2	+43 03		5/5/30	50		20:29		
1686-189	"	"	"		"/8	28		20:49		
1687-189	S	(70.0)			4/6/30			21:09		
1688-189	Q And (¹⁵ 63)	0 15.1	+38 28		5/6/14	(14)		21:15		
1689-189	R 19	00 36.8	+02 52		6/5/40	50		22:11		
1690-189	"	"	) "		6/6/40	50		22:30	22:52	ONE WAY
1691-189	S	(68.0)			4/6/30			22:48		
1692-189	H.R. 483	01 38.9	+42 24		5/5/8	50		23:12		
1693-189	R 49	01 51.7	+16 24		6/5/30	50		23:35		
1694-189	ε ² Ceti	02 26.0	+08 17		5/5/16	50		00:05		
1695-189	S	(67.0)			4/6/30			00:23		
1696-189	8965	23 36.2	+43 03		5/5/30	50		00:30		
1697-189	8965	"	"		5/5/30	28		00:50		
1698-189	Q And	0 15.1	+38 28		5/6/14	14		01:15		

Dome Temp. 32

Focus

Dome Temp.

Evening was completely clear
from start (Day was entirely
cloudy) but sky didn't look
perfect - a bit 'pink'.

Transparency Conditions

fair

1.26

20:00 :

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 19 ^W			3.32	B ₈ V		Extinction star. 5 Peg T = 31°	
0 ^h 01 ^E				B ₈		And MK std.	
0 18 ^W						T = 30°	
0 07 ^W			4.5	A ₂			
0 40 ^W			7.3	G ₂			
0 59 ^W - ? -						sky deflection ~ 2 units. T = 28°5	
0 39 ^W			5.10	G ₂ V		MK	
0 50 ^W			6.78	F ₅		23:00 : low cloud in N thermosi very good	
0 46 ^W			4.27	B ₉ III		23:40 : " "	
4 03						T = 26°5	
4 03 ^W							
4 22 ^W							
4 06 ^W			4.5	A ₂			

127

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

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 29 ^w			4.22	F7		T = 24° 2 2:03 st. cloud!!	
		mc	sc	me			
		+27.2	-6.8	-6.2			
						Acufine film developer used henceforth instead of D19.	

Date Fr/Sat Nov 10/11 1961

Observer WBS+G+

Julian Day

[illegible]

Dome Temp.

Transparency Conditions party closed

130

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	1' 24" W	15 23	0-1	8.0	g172	3+6+4	vdB (SB) = HR 7680 9549-74	L wh
2	05 E	62 52	0	7.8	B0 III 16+6		Double-line Binary (Hd) 9584-9598 NO 4 comp. etc.	Too weak
	0254 W	47 30	1	4.6	K0+A0	18	5 Lac Hyuck program.	weak OK
							IPH loaded (IIaOb)	
							1 Box IIaOb } in drive	
							1 Box 103uo }	
							Flash light Low sun	

Date Sat/Sun 11/2 Nov '61 Observer -I Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25865	HD 34921	05 ^h 15.8	+37° 35'	I25	IIaOB	008	6.7°C	00 ^h 46	02 ^h 01
25866	HD 45995	06 ^h 25.6	+11° 19'	I25	IIaOB	008	7.0°C	02 ^h 17	02 ^h 34
25867	HD 60298	07 ^h 28.7	+25° 09'	I25	103aO	008	7.0°C	03 ^h 03	
	Focus Test				OTB/ITA (103aO)				

Dome Temp. 43°F

Focus 15.25

Dome Temp. 41°F

Transparency Conditions

-ground fog, otherwise OK 132

-opened up at 0010 EST

3:15 EST - clouded out, closed up.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 3	00 ^h 10 ^m W	+37° 38	+1.	7.4	B0me	6-6-6	Be Prog MWC 107 Lens 7 Set 5 9618 9645	fine
04 4	00 ^h 41 ^m E	+11° 15	0.	5.8	B2me	6-6-6	Be Prog MWC 146 Lens 6 Set 5 9647 9653	fine
1		+25° 04	0	8.01	G2V	4-	(ADB) SB Hi Vel Sp. Binary Lens 8 Set 5 9654 9661 incomplete	extra
							12/8 Set 8	
							1 PH loaded (103a0)	
							1 Box IIaOb in spotting room	
							-broke a 103a0 plate	
							-Spectrograph heat (bridge) requires constant adjustment	

Date June Nov 14-15/61 Observer Hd - Gg 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.
25868	HD 217312	22 54.8	+62 32	I-25	IIaO B	012 015	+8.1	18 35	20 25	1
25869	^{5 Lac} HD 213310-1	22 25.4	+47 11	"	103aD	008	+8.2	20 33	20 49	2
25870	MWC 394 HD 212050	22 52.7	+48 09	"	IIaO B	008	+8.1	20 53	21 15	3
25871	MWC 395 HD 217543	22 56.3	+38 10	"	"	008	+8.1	21 20	22 30	
25872	MWC 8 HD 4180	0 39.2	+47 44	"	"	008	+8.3	22 35	22 47	4
25873	MWC 86 HD 28497	04 24.5	-13 17	"	"	008	+8.2	22 55	23 23	
	200000-7		DTB							
			(1961)							
1701-190	5 ² Gt	02 26.0	+08 17		5,5,16	50		00:08		
	Source		(20)		5,4,16 3,			00 29		
1702-190	5 ² Gt				5,6,16	14		00 33		
1703-190	R73	03 06.1	+26 12		7,5,32	"		1 26		
	sky		negative - unexpected.							
1704-190	R120	5 16.3	+40 05		6,4,24	"		2 11		
1705-190	5 ² Gt				5,6,16	"		2 40		
	Source	(20)			5,3,16 4,			2 59		

Dome Temp. $+40^{\circ}\text{F}$ Focus 15.28 Dome Temp. 36.0°

Transparency Conditions

 0^{h} - fine (sl. hazy?)

134

 $1^{\text{h}}30$ sl. haze on horizon.
 $2^{\text{h}}45$ cirri low in S. $\text{V700} + \text{CO}_2 - 23^{\text{h}}30 - 50$

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	W 45 ³⁰	62 53	0-1	7.8	Bo III	5-5-5	Set 5. H ₂ O Sp. Bin. sens 8	9665 9715 fine
49	W 1 ^h 38 ³⁰	47 30	1	4.6	KO A0	4-4-4	" 5 Bk for Hynek. sens 5	9718 9726 wh
53	W 1 37	48 29	1	5.2	B3 ne	6-6-6	" 5 H ₂ Be prng. sens 5	9728 9736 fine
3	W 2 49	38 29	0	6.4	B3 ne	6-6-6	" 9 " " " sens 6	9737 9743 fine
1	W 1 22	43 04	0	4.7	B4 ne p	6-6-6	" 1 " " " sens 6	9744 9751 fine
2	E 1 46	-13 08	0	5.5	B3 ne	6-6-6	" 5 " " " sens 6	9752 9759 fine
						16/12	" 9	OK.
	(Humid)							
	1 ^h 08 W		Poor elongated.	4.27	B ₉ III		Gg - Found Al slide in normal posn. off scale.	
					35°F			
	1 ^h 33 W		Poor					
	1 ^h 46 W			8.52	sol F ₇		Noisy?	
	0 ^h 21		6"±	5.4			6.5 is just over scale refocused.	
	3 ^h 41 W				36°F		Franks: can you find a new bulb for Brown.	

Date Nov 14-15 / 61 Observer Gy Julian Day 174

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

Fairly Good.

hazy patch in NW

136

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 23 W		poor	1.52	B ₇ ^{III}		too bright? off scale.	
0 37 W			1.93	A ₀ ^{IV}			
					36°F		
0 25 W			7.7	G ₈ ^V		CO ₂ getting lower.	
						one way. refocused	
		foiled				Δ sec z prby not lge enough. ("	
					38°F		
						1 5 ^h 40 - filmy cloud all over sky.	
						(since 5 ^h 20).	

Date Wed/Thurs Nov 15/16 1961 Observer Hy Julian Day 175.5

[illegible]

Date Fri. Sat ²⁵ 24 Nov '61

Observer vdB St - Gg 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.
25875	= HD 219113 S2Psc	23 8.3	+2° 08'	25"	IIaOb	.008	6	19 40	21 ^h 03 ^m	4
25875	HD 19445	⁽¹⁹⁶¹⁾ 3 06.1	⁽¹⁹⁶¹⁾ +26 12	"	"	.016	6	21 35	21 59	1
25876	HD 13974	⁽¹⁹⁶¹⁾ 2 14.5	⁽¹⁹⁶¹⁾ +34 03	"	IIaOb	.008	6	22 18	22 24	2
25877	HD 16440	2 33.2	+68° 03'	"	IIaOb	.008	6	22 38	23 15	3
25878	HD 16066	2 29.8	+67° 38'	"	IIaOb	.008	6	23 24	23 ^h 55	4
25879	HD 15784	2 ^h 27.2	+67° 55'	"	"	"	6.0	00 02	00 48	11
25880	HD 43318	6 ^h 10.5	-00 28	"	"	"	"	1:16	1:48	1
25881	HD 37171	5 ^h 31.5	+10 58	"	"	"	"	2 09	4:01	2
25882	HD 69830	8 ^h 13.7	-12 18	"	"	"	"	4 26	5:02	3
25882F	Focus Test					0.7	13			1

Dome Temp. 40°F

Focus 15.24

Dome Temp. 36

Transparency Conditions partly cloudy

Oh - all clear.

4:45 Partly cloudy

1140

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 ^m	1 ^h 50 ^m W	+ 2° 28'	0 ⁺	8.7	SS	6+6+6	30 → 15 Exposed on Empty plateholder	
59	1 ^h 10 ^m E	+ 26° 09'	0-1	8.5	Ed F7	3+3+3	= Roman 73 18 - 32 Se HV	Too weak
24	0 06 ^m W	34° 01'	1	5.6	So II	18	STri. 39 - 43 Se HV	Weak
15	0 ^h 30 ^m W	68° 14'	0-1	8.0	B7 III	6+6+6	vdB Cepheid program 48 - 62	Too weak
55	1 ^h 15 ^m W	67 51	0-1	7.7	F2 II	6+6+6	vdB Cepheid program 63 - 77	Too weak
48	-	+ 68° 11'	0 _{poor}	6.77	F4 II	6-6-6	image wobbles! vdB - Ceph - at pier. 77-99	good
8	0 ^h 27 ^m E	- 00 30	0	6.15	F6 V	6-12	set3 Se HV 01 ^m 12 [Spotted dance] D Near	fine
01	2 ^h 25 ^m W	+ 11° 00	1 ⁺	7.59	K5 III	6-6-	set4 vd B-SB 70x2=140 9922 0032 fieldchecks counting too quickly	fine
22	0 44 ^m W	- 12° 30	1-30 ⁺	6.76	G8 V	6-12	set3 Se HV 39 ^{22 24} 63 only * in fld.	Weak
					16/12		set5	OK

3 PH + 4

Need more Sinder Field Forms

Found Prism assembly one notch too far South?

Date Sat-Sun 25⁻²⁶ Nov '61

Observer... Fe -

Julian Day.

[illegible]

Dome Temp.

Transparency Conditions Poor

142

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
103	3.07 W	+62 54	0-1	7.8	B0 IV	6+6+	21:00 Sky very poor. Dbl. line binary in III Cep. Hcl. Thick cirrus, increasing. clouded out	<i>break</i> <i>no comp.</i>

Date _____



Nov 26/27
1964 Obs

1961

Observer.

Hy

Julian Day.

[illegible]

Dome Temp.

Transparency Conditions

14.4

$$\begin{array}{r} .435 \\ .15 \\ \hline .285 \end{array}$$
[illegible]

Date Mon - Tue Nov 27/28 Observer MR - C. 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.
1710-191	II Agr	22 ^h 23.3	+01° 10'	Hx2	5,4,32	20	—	18 ^h 31 ^m		
1711-191	HD 215191	22 41.1	+37° 36'	Hx2	5,5,32	"	—	18 ^h 57 ^m		
1712-191	" 212863	22 25.0	+37° 14'	"	" "	"	—	19 ^h 18		
1713-191	217543	22 59.0	+38° 30'	"	" "	"	—	19 38		
1714-191	217101	22 55.8	+39° 06'	Hx4	" "	"	—	19 50		
1715-191	214167	22 34.1	+39° 25'	Hx2	" "	"	—	20 50		
{ 25884	HD 217543	22 56.3	+38° 10'	X-15	Ilao Bl	set .008	0.00°	21 41	22:45	3
{ 25885	53 Cas	01 ^h 55.6	+63° 54'	"	"	"	"	22:55	23:12	"
{ 25886	HD 12953	02 01.7	+57° 51'	"	"	"	"	23:35	23 52	4
{ 25887	α Cam	04 44.1	+66° 10'	"	"	"	"	00 ^h 10	00 ^h 14	"
{ 25888	X Aur	05 26.2	+32° 07'	"	"	"	"	00 ^h 34	00 42	2
{ 25889	X ² Ori	5 ^h 58.0	+20° 02'	"	"	"	"	00 ^h 54	01 01	"
{ 25890	X Aur	05 26.2	+32° 07'	"	"	"	"	01 ^h 16	01 27	3
{ 25891	X ² Ori	05 58.0	+20° 08'	"	"	"	"	01 ^h 31	01 39	"
25892	2 Ori	06 ^h 01.9	+14° 47'	"	"	"	"	01 ^h 50	01 ^h 57	4
25893	HD 50083 MWC 156	05 46.5	+55° 13'	"	"	"	"	02 08	03 33	1

Dome Temp. 30°Focus 15.16

Dome Temp.

Transparency Conditions

Good / Fair

146

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+01° 09'	3"	4.6	B ₁ NNE	30"	list: B 1A/sec. 4250 - 4500	<u>fair</u>
	+37° 34'	4	6.34	B ₁ V	"	" J 2"/min	
	+37 14	5	6.32	B ₂ V	"	" "	
	+38 30	5	6.43	B ₃ ?	"	" "	
	+39 06	5	6.02	B ₂ IV	"	" "	
	-	6	6.31	B ₂ V	"	" "	
3 5° W	+38° 30'	0	6.43	B ₃	6-6-6 set 2	7:101-16 QUIT REAL CLOUDS at 20:15 fine	
1 26° W	+64° 1'	0	5.62	B ₈ L	6-6-6 " 8	117-123	<u>fine</u>
1 55° W	+58° 14'	0	6.90	A ₁ Ia	6-6-6 " 2	131-137	<u>Blank</u>
00 26° E	+6° 14'	0-1?	4.88	O _{9.5} Ia	6-6-6 set 8	157-140	
00 38° E	+32 07	1	4.88	B ₅ Ia	6-6-6 Set 2	147-153	not there
00 40° E	+20 06	1	4.7	B ₂ Ia	6-6-6 Set 8	156-162	are suspected
00 07° W	+32 07	1	4.88	B ₅ Ia	6-6-6 Set 2	164-170	bad - so will repeat
00 14° E	+20 06	1	4.7	B ₂ Ia	6-6-6 Set 8	171-178	fine
00 02° W	+11 13	0	4.40	B ₃ V	6-6-6 Set 5	180-186	
00 54° W	+05 05	0	6.8	B ₂ e	6-6-6 Set 2	188-203	MWC B ₃ Sh.

Rpt life clus?? not visible
but inefficient
wait for settling down

sp. covered by no. fine

weak fine

fine

147

Date

Nov. 27/28 (cont)

Observer

N-C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I
1716-191	Moon			Scans on Green region	14,313? - 2		-	4 ^h 00	4 ^h 20	-
25894	HR 3314	08 ^h 20.7	-03 35	I-25	Ilab 6	.008	0.0°C	04 40	04 ^h 48	4
25895	γ Hyd	08 38.6	+03 45	"	"	"	"	04 57	05 02	1
25896	K Hyd	09 35.5	-13 53	"	"	"	"	05 17	05 40	3
	Focus Test		GTB.				2.0°C			"

Dome Temp. 24°F

Focus 15.16

Dome Temp. 24°P

Transparency Conditions *fair*

148

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	—					4A/sec 2" min Swift Clouds?	
?	-03°32	0	3.95	A0 V	6-12	3800-5165 Set 2 204-207	} fine
00 31 ^W	+03 31	"	4.32	B3 V	6-6-6	Set 8 208-211	
00 13 ^W	-14° 11	"	4.96	B5 V	6-6-	Set 2 0211-0217	} fine
				16/12	Set 8	Considerable cloud moving down from north.	
						plateholders: #1 & 2	
						64V loaded w/ cuphead in pier.	
						<i>Focus very bad < 2 mi.</i>	

Date Tues Dec 5-6/61 Observer Hd-Hr Julian Day 173.5

[illegible]

Dome Temp.

Transparency Conditions

Clearing after 2200.

0200 Thin Clouds 0400 Haze

150

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	0330W	44 47	1	7.8	B3ne	6-6-6	Sit 5 Be prng. sens 8 236 280	good
1	0329W	+14 55	00	7.1	B2ne	6-6-6	" 3 " " # 7 287 297	good
						20/15	" 8	C. & vi.
							3 P.H + 6 π aOb	

Date Fri/Sat Dec 8/9 1961

Observer W.B.-gt L Julian Day[illegible]

Dome Temp. 30°F

Focus 15.16

Dome Temp.

Transparency Conditions A few Canuli

152

ding Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
50	1 2 29 W	46° 39'	0	4.0	K0+B0	6+12	set 2. 3 5 counts 301 - 304	good
02	1					12+6	set 8. 4 8 counts 304	
14	2					12+6	310 - 314	fine
35	2					6+6+6		
40	3 3° 20" W	+2° 29'	0	8.7	B5	3+3+3	218 - 364 (3 counts short)	good
46	4 1° 03 W	+68° 53'	0-1	7.7	F2 II	3+3+3	Vd B Ceph 366 - 421	fine
03	2 2 17 W	68 16.	0-1	8.0	B7 III	3+3+3	Vd B Ceph 423 - 463.	fine
53	1 1 17 W	10 59	0-1	7.59	K5 III	4-4-4	Clouds Vd B Hi Vel. Bin. 470	fine
05	2 1 26 W	25 04	0-1	8.01	G2 V	3-3-3	Clouds Vd B " " " 494	fine
						10/8	" 8 503	fine
							" 8 558	OK
							1 PH loaded + 8.	

Date Mon Dec 11/12-61 Observer Hd, JST Julian Day 173.5

[illegible]

Dome Temp.

Transparency Conditions

154

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			0-1				4 stars ⁶⁵ - NG	

155

Date Wed Dec 13/14 61 Observer Hg Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions

1:56

Focus

Dome Temp.

ding Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
52	4 2'51" W.	46° 36'	0-1	4.0	Ko(B ₀)	6+	3 counts at 3 low comp!	569
17	3 17 W					6+12	8 counts at 7	572
								574
								582
	3 13 W	no sky		7.3	F2		20:00 closed down	

2. fine

Date Thurs/Fri Dec 14/15 '61 Observer -I Julian Day

[illegible]

Dome Temp.

transparency Conditions	fine
REMARKS	opened up at 0400 - low cloud in south & east; also a strong northerly wind - image jumps. Saw a lot
	Quality

158

Hour Angle End	Declination	Secing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+03° 06	+2	7.7	B3me	6-	Be Prog MWC 188. Set 5 Lens 8 1 ^h 10 - very sudden snow squall - closed up	587 590 Link C to R
						16/12 Set 9 1 PH clouded (H aob)	

Dome Temp.

Transparency Conditions Fine except SW
Ci (upto 250 in SW)
Scattered clouds

160

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29 } 30 }	2:36 W	46 38	0 ⁺	4.0	B8+K0	G+G+G F2		} fine
		"	"	"	"	G+G+G 82T 8		
160-3450	17 ^m W			4.33	A0	V		
	33 ^m W			4.33	A0	V		
	5 ^m G			5.10	G2	V		
17 3	6 ^h 00 ^m	68° 16'	0	0.0	B2/III	3+3+3	VdB Ceph clouded out at cont 622 / +94' -634 = 1+R 483 thin clouds stopped p. obs. 1 P/H loaded	weak focus OK
Light on 74" exp not working. photometer still in same poor shape!!								

Fr./Sat

Date.....Dec 22/23.....1961

Observer.....vels

Julian Day

[illegible]

Dome Temp.

Transparency Conditions OK

162

Star	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
39	3 ^h 14 ^m W	46 38	0	4.0	K0+B0	18	Ec1. B, SETZ 10 min	} Fine
59	3 ^h 33 ^m W	"	0-1	"	"	9+9	SETZ 20 min N.B. plain PolT rather loose PH	
2 PH + Many								

Date Dec 24-25/61 Observer V. H. d. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25911	31 Cyg.	20 10.5	46 26	I-25	EA0B	008	-5.9 -5.9	17 35 17 46	17 45 18 10	1
N.B. T ₉ REPLACED W/T ₁ DEC. 27/61										
25911F	Focus Test			I-12	EA0B	008				3

Dome Temp. 18 F

Focus 15.09

Dome Temp.

Transparency Conditions

Jan 2 / 62 *Changed to 12 1/2" camera* *25" Was tilt 23.25 tilt 20.35*
Focus 15.09 Focus 12.69

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
46 38	1	4.0 to 8	6-6-6	Set 2	Had Ed Bin	Ans 4 649	7
W 3 52			6-6-6	" 5		" 653	fine
Focus lost	OTB	16/12	" 8				cell to re.
					104		
	OTB	6/4	Set 2	12.80			
		" 5	12.60	← Best			
		" 9	12.70				

Date Jan 17-18 Wed/Thu 62 Observer Hy - 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.
MCW 29	unable to find.									
g ² Cet	" " "									
α Ari	" " "									
1721-195	g ² Cet	2 ^h 28 ^m	+08° 17		6/4/15	14		20:05		
1722-195	46 Tan					50		20:36		
								→ 47		
1723-195	R 120	5 ^h 16.3 ^m	+40° 05		6/5/16	14		21:46		
1724-195	g ² Cet				6/4/15	14		22:12		
1725-195	γ Dem	6 35.4	+16 26		5/4/15	14		22:41		
1726-195	ρ Dem	7 26.2	+31 52		6/3/15	50		23:09		
1727-195	γ Dem				5/4/15	14		23:32		
25912	HD 60298	07 28.7	25 09	I-12 ¹	IIaOb	.008	-8.5	0025	0513	
	Focus Test		0713				-9.0			

Dome Temp. 80!

Transparency Conditions Good

166

Focus 12.60

Dome Temp. -20 F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						what!	
						← finally found. Something is wrong! OK now!	
1 ^h 17 ^m W						no dry ice (new tube)	
0 ^h 14 ^m W						- century band	
0 ^h 08 ^m W				G0V		HV	
3 24							
0 15 E							
0 39 E							
0 37 W							
05 12 W	+2504	000	8.01	G2V	3-6	Set 5 vdB SB #9 0669 8/6 " 9 CLOUDS #9 0781	Strong clm.
						<u>NO</u> PH. loaded + 9 IIaOb	
						PH #1 Spatter won't go loaded. with IIaOb.	

ie the old one
#1

167

Date

Tue Jan 23/1962

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.
25913	23 Tan.	3 46.4	423 39	I-12	IIaOB	008	long	19 54	19 55	✓
						008	slit.	19 59 1/2	20 01	
						008		20 03	20 07	
						016		20 09	20 09	
						016		20 10	20 11	
						016		20 12	20 14	
25914	η Tan	3 41.5	23 48		11	016		20 19	20 19	2
						016		20 20	20 20	
						016		20 21	20 22	
						008		20 23	20 23	
						008		20 24	20 26	
						008	-5.0	20 27	20 28	
25915	27 Tan	3 43.2	23 45		11	008		20 37	20 37	3
								20 38	20 38	
								20 39	20 40	

Dome Temp. $+16^{\circ} F$

Transparency Conditions

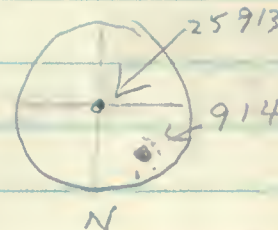
168

Focus

Dome Temp.

ding Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55			4.2	B6	8	ret 1 $\frac{1}{2}$ ct. JDF calibration stars	
01					8	" 5 1" sens 4	OK
07					8	" 9 2"	
09					—	" 3 $\frac{1}{2}$ } note no comps.	
11					—	" 7 1 } on 016 exposure	
14					—	" 10 $\frac{1}{2}$ 2 }	
19 2					—	ret 0 $\frac{1}{2}$ }	
20					—	" 4 1 } JDF cal. stars	OK
22					—	" 8 2 }	
23					6	" 2 $\frac{1}{2}$ }	
26					6	" 6 1 }	
28	W 37 ^m	23 56			6	" 10 2 }	
31 3					6	" 0 $\frac{1}{2}$ ct. } JDF cal *	OK
38					6	" 4 1 "	
40					6	" 8 2 "	



Date Jan 27/24 Contd Observer Hd Julian Day L

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
25915 Contd	27 Tan					016		20 45	20 45	
						016		20 45	20 45	
						016	-5.0	20 46	20 47	
25916	E Per	3 51.1	+39 43		Ha0B	016		20 55	20 55	4
						016		20 56	20 56	
						016		20 57	20 58	
						008		21 00	21 00	
						008		21 01	21 02	
						008		21 03	21 05	
25917	E Per	3 52.5	+35 30		11	008		21 16	21 17	1
						008		21 18	21 20	
						008	-5.0	21 20	21 22	
								21 26	21 26	
								21 27	21 28	
								21 29	21 31	

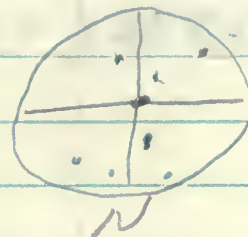
Dome Temp.

Transparency Conditions

Focus

Dome Temp.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45						—	net 2 1/2	
45						—	" 6 1"	
47	W 20 54	23 54				—	" 10 2"	OK
055						—	" 0 1/2	
056						—	" 4 1	
58						—	" 8 2	OK
00						6	" 2 1/2	
02						6	" 6 1	
05	W 1 ^h 03					6	" 10 2	
17				4.0	06.5	6	" 0 1/2 J DF color. *	OK
20						6	" 4 1	
23						6	" 8 2	
25						—	" 2 1/2	
28						—	" 5 7	
31	W 1 ^h 28					—	" 10 2	



Date. Jan 23-24/62

Observer

Ad

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
137	2			5.3	B2	—	at 0 min 4 1/2 ct. JDF Calib. star.	
140						—	4 1"	
147		50 50				—	8 2"	
50						6	" 2 1/2	
58	W 1 1/2 35					6	6 1	
						6	10 2 Clouded out	

Date Sat Jun 27-28/62 Observer Hol - Julian Day

[illegible]

Dome Temp.

Transparency Conditions

174

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0573	W 2 55 54 24	0	8.6	B ₂	1-3	Set 2 ^{field} checked stars 8 932 939 clouded out about 20:30. cloud 21 30.	fine

Date Thurs Feb. 1-2/62 Observer L- Julian Day 171

[illegible]

Dome Temp. -10°F

Transparency Conditions

176

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
41	1 42W 41 35	000!	7.2	B5.Nc	4-6-4	Be Prog. clouds.	Sins 7. 948 952	fine
43	0 47W 14 56	0	7.1	B2.Nc	4-6-4	" " clouds.	" 7 954 958	strong
						Clouds.		
						4 P H's loaded.		

177

Date Sun-Mon Feb 4-5 1961 Observer Hy-

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
25922	8 Ori	5 26.9	-00 22	I-12.5	Ilao-B.	.008		20:43	20:43 $\frac{1}{2}$	
						.008		20:45		
						.016		20:52		
						.016		20:54		
25923	3 DF H8 HD 46715	conduct frind				.016		21:16		
	λ Ori A					.016		21:18		
						.008		21:24		
						.008		21:26		
25924	HD 47129	5 32.0	+6 13			.008		22:05		
						.016				

Dome Temp. 30°F

Focus

Dome Temp.

Transparency Conditions

poor

178

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 05 ^m E			2.3	09	none	set 2 select 4 JDF H8 .4 of a count	
0 ^h 03 ^m E					9	set 4 " $\frac{3}{4}$ "	
0 ^h 04 W					9	set 6 " .4 "	OK
0 ^h 06 W					9	set 8 " 1 count	
0 25 W			2.3	07	9	set 2 couldn't find! JDF H8 .4	
0 27 W					9	4 select 4  74" field 1	OK
0 23 W					9	6 .6	
0 25 W					9	8 1 "	
	+6° 04'		6.1	06.5 P		4 select 6 field plotted JDF H8 2 count	
						negligible response from exp 2 count	
						note - reason: frost. closed down. plate discarded.	
						Jerry - door to balcony would not close. Tried to clear ice from bottom but still no go. Placed chain against door to make sure it wouldn't blow open.	

179.

Date Tues Feb 6-7/62 Observer Hd-Hv Julian Day 82.48

Think it should be 18.56

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T. 19.56	Ending Time E.S.T.	P
25924	HD 217312	22 54.8	62 32	I-25	II-OB	012	-12.0	19 56	21 28	4
25925	MWC 139 HD 44637	06 17.7	+15 09	"	"	016	-12.2	21 50	01 20	1
25926	HD 89363	10 13.6	18 13	"	"	008	"	01 30	04 02	2
	Focus Test		07 B							

Dome Temp.

— / F

Transparency Conditions

GOOD (0200)

180

Feb. 6
Changed to 25"
Camera

Focus 12.60 Focus
12 $\frac{1}{2}$ was Tilt 20.35 25 is Tilt 23.30

Star	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
28	W 7 ^h 20 ^m	62 53	0	7.8	B0V	4-4	Set 6 Hd Bin Telescope reversed lens 8	989 1030 fine ✓
1201	03 46 W	15 08	00	7.7	B3e	3-3	Bepry Set 5 A.F.W.A.P.	" 8 1032 1049 fine
402	02 51 W	17 54	0	6.62	A0	3-9-6	Set 5 Supp 8x8 # 7	1051 1062 fine
						20/15	" 9	OK
							2 P.H + 8 IIaOb	
							0330 Temp rising	
							0400 Clouds. ✓	

Date Wed Feb 7-8/62 Observer Hol - Hg Julian Day 1962000

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25927 1728-196	HD217312 6 Gem	22 54.8 06 ^h 35.4 (1960) + 1625	+62 32	I-25	II 90B 2X	008 14	- 4.5, 8	19 50 22 34	21 52	3
25928 25929 25930	R191 HD 91889 R248 { HD 107276 Fornax 7	8 13.7 10 31.6 12 14.9 X	-12 18 -11 42 29 01 07B	I-25 " " X	II 20B " " "	008 " " "	-12 -11.8 -12 "	23 13 00 32 03 00	00 09 02 00 06 30	4 1 2

Dome Temp.

Transpareney Conditions

Thin Patches of Cirri all ^{over} ~~the~~
S Clearing 20^h 50 - ok but thin haze
(23K)

182

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
52	718 +62°54'	2!	7.8	Bo II	6-66	Set 5 He Bin. cannot reach guiding eye piece (20) near 8 1066 0h 59W (mid) 25160 to 3420 V=900 - some grass	fine
09	-12 25	0	6.76	G8 V	6-12	Se HV 10-20 1087:	good
00	0020W -12 00	0	6.24	F8 V	6-6-6	Set 5 Se HV #7 1107	fine
50	0307W 28 44	0-1	6.59	A2	6-12	" " KA 8x8 MORE CLOUDS #7 1128 20/15 " 9 1139	fine
						1 P.H + 7 ↑ Spott-d <u>A POOR NIGHT !!!</u> What did Gg do w/ Arc Strikers??	c.v. alt. r.
						74" eye piece - no light. & Prism Assembly light. (Dec slow motion don't work)	

Date Tue/Sat Feb 8/9 1962 Observer Vol B-I Julian Day 161

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
25931	HD 37171	5 31.5	+10° 58'	25"	IIaOb	008	-7°C	20.13	22 ^h 05 ^m	3
25932	HD 60298	7 28.7	+25° 09'	25"	IIaOb	016	-7°C	22.24	23 40	4
25933	HD 91889	10 31.6	-11° 42'	25"	IIaOb	008	-7°C	23 ^h 53	1 ^h 45	1
25934	HD 122563	13 57.6	+10° 11'	25"	IIaOb	008	-4°C	2 ^h 17	6 ^h 18	2
	Foam Test		DTB							

Dome Temp. 150°F

Focus 22-15 = 07

Dome Temp. -40°F

Transparency Conditions partly cloudy

La Trucul

00:30 - fine

4h - variable - in lower sky

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 32 ^m	+11° 00'	0	7.59	K5 III	6+10	1143-63 vcl B (SB)	fine
1 ^h 08 ^m W	+25° 04'	0	8.01	82 V	6+3	1163-1183 vcl B (SB)	fine
0 ^h 12 ^m E	-12° 0'	0	6.24	F8 V	6-6-6	Roman # 248; (Se Hv) Set 5, Set 7 1185	fine
1 ^h 21 ^m W	+9° 52'	+1	7.10	G0 VI	6-6-6	Roman # 324; (Se Hv) Set 5, Set 7 1201 (counting incredibly slow!) Set 9 1228	fine
					20/5		
						PH 1384 loaded (II c06)	
						Frank! - remote control fell; broke fast button { dec control; Sorry! (Gounded in dec with table { dec setting switch.) (at 1 ^h 50 ^m) in dome after (but not incl) 25933	
						NB: plates were spotted <u>once</u> each -	

Date Sat-Sun Feb 10-11, 1962 Observer F₂, L - Julian Day 171.5

[illegible]

Dome Temp. $+4^{\circ}\text{F}$

Focus 15.00

Dome Temp.

Transparency Conditions Fair to good

186

iding Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

43

5:08

+62 50

0

7.8

B0144+4+4

Hol. Spec. Bin.

Sens 8 ¹²²⁴₁₂₄₃

fine

Dec slow motion broke down
& then clouded out 22:30.

JDF

187

Date Mon - Tues Feb 12-13 Observer MR - HV Julian Day (H4)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
25936	HD 217312	22 ^h 54.8 ^m	+62° 32'	I-25	Duo-L	^{set} .012	-6°C	18 48	20 12	2
25937	HD 62301	7 38.1	+39 49	"	"	^{set} .008	-5.5°C	20 37	22 11	3
25938	HD 69830	8 13.7	-12 18	"	"	"	-5.5°C	22 21	23 19	"
25939	HD 91948	10 31.9	+60 38	"	"	"	-5.7°C	23 37	01 15	4
25940	"	"	"	"	"	"		01 15	04 19	"
25941	HD 110897	12 43.1	39 29	"	"	"	-5.8	05 12	06 32	1
	Focus Test		073							

Dome Temp. 21°F
 Focus 15.24 - 15 = 15.09

Transparency Conditions very good (some low west, wS & W) 188

Dome Temp.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 2	6 ^h 29 ^m W	+62° 55'	1	7.8	BO IV	4-4-4	Set 5 4d Sp Bi Field checks Seas 8 {1265 1300	fine
11 3	0 18 E	+39 39	2	7.30	F8 V	6-6-6	Roman 174; sd 2 1) Where is Striker? " {1306 1361	fine
19 "	0 15 W	-12 30	"	6.76	98 V	6-6-6	" 191; .8 2) head one fuse inserts " {1362 1418	good
15 4	0008 E	+60 19	"	7.37	F8	6-12	N Sp Bi; .. 2 \$ fuses made up. " {1424 1480	fine
9	0 25.7 W	"	1	"	"	6-12	" 6 3) Yes, mirror shutter did flop shut 1542	fine
32 1	0303 W	39 29	1	6.5	G0 V	6-6-6	Set 4. Set +lv # 7 {1560 1575	fine
						20/15	" 9	fine
							1 P.H. + 4 +	<u>etc etc</u>
							Gerry - switch on pier would not shut off generator. Gen. sounds weird when running. F.	

Date 17⁻¹⁸ Feb, 1962

Observer... JDE,
Hcl

Julian Day

[illegible]

Dome Temp. 140 F.

190

ding Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	27:56 W	+62 53	0	7.8	B0 <u>IV</u>	4+4+4	Htd Sp. Bin. / <i>Cirrus thickening 21^h 8/1581</i> <i>Eye piece no longer available. Clouds very thick</i> 8/1592	<i>break</i>
							clouded out 21:30	

Date _____

Observer

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25943	HD60298	7 28.7	25 09	I-25	IIA0B	016	-3.0	21 17	23 29
25944 {	HD91948	10 31.9	60 38	"	"	012	-3.0	23 39	00 29
}	Focus Test -		0.7 B.						

Dome Temp. 18 F

Focus 15.28 - .15 = 15.13

Dome Temp. +17°F

Transparency Conditions Cloudy until 20.30 192

30 visitors from OAC Buelph.

23^h 59 Clouds

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 29	W1 41	25 02	0	7.34	G ₂ V	3-3-3	Set 5. Svd B Bin. uns 8 ¹⁵⁹⁹	
02 9	00 21 E	60 19		7.37	F8	4-8	" 5 N Bin, " 8 ¹⁶⁴¹	
						15/12	" 9	1655
							1 P.H + almost full box	

Date Sat-Sun Feb 24-25, 1962 Observer JDF - I Julian Day
(K2)

[illegible]

Dome Temp. 12° F

- fine $\frac{1}{2}$ moon in east

01:30 wisps of cloud in south

REMARKS	Quality
---------	---------

194

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:03 W	+62 53	0	7.8	B0 IV	4+4+4	1td. Spec. Bin. /	1658
~ 2:55 W	+43 44	1	3.5	F0 Ia	6+6	E Aur, Morris. Setting 4 { 2 counts 4 "	?
< 1:05 W	+39 37	0-1	7.3	F8 V	6+6+6	Se HV, Roman 174, Set 8, Lens 8	1695 81 1750
						20/K	
						Set 3	
						-are needs adjustment	
						3 PH's loaded	
						2 plates in box	

Date Wed-Thu Feb 28-29 1962 Observer Hy- Julian Day 173.5

[illegible]

Dome Temp.

15.30
109
15.21

Transparency Conditions *good at 20130*

196

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 07 ^m W	-00° 30'	1	6.15	F6 II	4-8	Set 5 Se H V forced to (idiot!) stop short 1756 → 2 ¹ / ₃ 1765	fine
1 ^h 13 ^m W			1.93	A0 V		OK E STD again centre 1/2 at end MK for ⊕'s - not done - too far west	
3 ^h 30 ^m W			3.0	F0 I _u		2nd 1/2 climbed out	

Date Thurs. Fri. Mar 1-2/62 Observer L-St Julian Day

[illegible]

Dome Temp. +6 F

Focus 15.04

Dome Temp. 0 F

Transparency Conditions Clear, high clouds (198)

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
R 30 2	3 15 W	11 02	0/	7.59	K5 III	6-6-6	Hi Vel Spect Bin. Lens 8 1766	strong
0 59 3	0 13 W	60 18	0	7.37	F8	6-6-6	N " " 1 1/2 " 7 1777	fine
5 30 4	3 43 W	+10 13	0	8.71	S8 V	6-6-6	R 284 Se HV Set 5 1781	fine
							Set 9	OK

1 PH loaded NOT SPOTTED.

Gerry
While using the slow motion,
sparks were flying everywhere
Is this customary?

199

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

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Mar 2. 1962 Changed
to 12 $\frac{1}{2}$ " Camera.

Form 15.04

Form 12.60

25" was Silt 23.15

12½

Filt 20.35

[illegible]

Date Fri Sat Nov 2/3 1962 Observer vdB+Fe-Ms 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.
25952	{ HD 36960	5 ^h 30 ^m .1	-06° 05'	12"	Ilcob	008	-8°C	19 30	19 45	1
	"	"	"	"	"	"	"	19 46	19 58	
25953	{ HD 47129	6 ^h 32.0	+06° 13'	12"	Ilcob	008	-8°C	20 10	20 42	2
	"	"	"	"	"	016	-7°C	20 47	20 52	2
	"	"	"	"	"	016	"	20 53	21 01	2
25954	HD 66798	7 28.7	+25 09	"	"	008	"	21 15	22 31	3
25955	BD+44° 1904	9 41.0	+44° 42'	"	"	016	"	22 45	00 : 50	3
25956	BD+45° 1859	10 38.3	+45 12	"	"	016	-7.2°C	01 : 11	03 : 29	1
25957	HD 123782	14 04.6	+49° 56'	"	"	008	-7.5	04 30	4 : 50	2
	"	"	"	"	"	"	"	04 : 50	5 22	

Focus test

Had trouble with dec. clamp, but managed to free it. When unlamped, however, QM would not work. So it was necessary to leave it partly clamped to get QM to run. It does not appear that the clamp is dragging at all with this arrangement.

Dome Temp. 10

Transparency Conditions Fine

Focus 12.50

Dome Temp. 5

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
37 ^m W		0	4.5	B0	9	5. bright W comp ul ADS 4182	1 count set 4
50 ^m W		-			9	8	5 counts set 7
30 ^m W	+6° 08'	0	6.1	06 Sp	9	2 (setting)	JDF 5 counts set 7
		0-1		"	5	4	2 1/2 " " "
50 ^m W		0-1		"	2 1/2	9	5 " " "
135	+25 02	0-1	8.01	S2	3+3+3	vel B (2B) <u>Part of last comp</u>	44 - 64
1:30 W	+44 23	0-1	9.39	A5	3+3+3	KAFS	65 - 06
3:10 W	+44 54	0-1	9.59	F4	3+3	KAFS	22 - 34
- cut off because of deteriorating seeing.							
1:09 W	+49 38	0	6.8	M2	3+3+3	Std. vel.	19 81 2061 set 3
1:42 W	"	00	"	"	3+3+	"	20 62-2182 set 7
							set 10
1 P.H. + 2 boxes							
Dec. slow motion sun very erratically.							

fine

fine

fine

fine

fine

fine

cti mi

Date Sat/Sun Mar 3/4, 62 Observer MR-I 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.
25958	^{see note} HD 36957-60	5 ^h 30.1	-6° 05'	I-12.5	IIaOB	^{set} .016	-7.5 ⁰	19 43	—	1
						16		44		
						16		45		
						^{set} .008		47		
						8		49		
						8		51	19 53	
25959	HD 47432	6 33.5	+1 42	"	"	.008	-7.5	20 27	20 38	2
						^{set} 8		20 38	21 01	
						.016		21 01	21 16	
						16		21 16	21 23	
25960	HD 84059	9 37.4	+45 11	"	"	^{set} .008	-7.7	21 48	1 ^h 50	3
25961	HD 115043	13 ^h 09.5	+57° 14'	I-12.5	IIaOB	.008	-7.5	2:07	2 ^h 51	4
25962	HD 134063	15 ^h 02.8	+22° 57'	I-12.5	IIaOB	.008	-7.5	3:08	5 ^h 45	1
	Focus Test	OTB								

Dome Temp. 12°F

Focus 12.50

Dome Temp. 10°F

Transparency Conditions

Fine

204

1:00 : seeing deteriorated (in west)
2:45 : strong odour of skunk -

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	-5° 59'	00	4:	B0-1	-	Set 0 at 2 1/2 sel 7 This is either the " 2 " 5 wrong star or the light " 4 " 7 1/2 7's " 8 " 2 1/2 10's " 10 " 5 " 6 " 7 1/2	Too strong not sufficient fixed	
0:47 W					9	" 2 at 5 sel 8 " 4 " 10 " 6 " 10 " 8 " 5 *at set 10	{ 2239 2244 2244 2254 2254 2264 2264 2270	} OK.
+1 38	00	6.0	09			" 5 KAFS p 2 Sel 10 MK STDS. Set 5 Lens 8 Sc G HV Roman 351 Set 5 Lens 10 Set 9 3 PH's loaded + 2 boxes (not full)	{ 2275 2390 2406 2432 2437 2567	
	+44 51	0	7.50	A8	3+3+3			strong
0 ^h 00 ^m E	+56 55	0	7.3	G1V	3+3+3			strong
1 ^h 09 ^m W	+22 43	1	8.74	G8III	3+3+3			fine c. 7 vi.

Date June 4.5/62 Observer Hd Hy 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.
25963	42 Ori	5-30.4	-4 54	J-12	IIA0B ^{long slit}	008	-6.0	19 28	19 32	2
						008		19 33	19 35	
						016		19 36	19 38	
								19 39	19 40	
25964	θ^2 Ori A	5 30.5	-5 29	"	"	016		19 45	19 48	
						008		19 49	19 54	
1733-198	M1 Crab	5 32.1	+22 06		8/5/46	50		20 24	20 47	
25965	HD 66141	07 57.1	+62 36	I-12	IIA0B	.008	-5.5	22 16	23 51	
25966	HD 89449	10 14.3	+19 59	"	"	"		23 01		

Dome Temp.

Transparency Conditions good late - poor

Exp. inter. not evaluating

206

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
32				4.5	B1	9	set 7	Brightest Fe Calibration just green.	OK but badly fogged on stained
35						" 3			
35						" 5			
40	W 39 ^m	-4 53				" 7			
45				5.0	D9	5	" 1	Brightest star in very close cluster of 4.	fine. strong
5	W 55 ^m					" 3			
47	1 32 W								
51	+02 35			5.5	K3	9	ad 1 sensib	Some slight danger of cloud.	strong
				5.3	F5		few objects available - thin clouds		
							STD VEL - 2579 ^u 2583 ^u		
							STD VEL - NO GOOD, CLOUDS		
							AFTER ~ 2 min. closed up.		
							what for?		

Date Thu - Fri Mar 8-9 Observer CL - 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.	
2596A6	HD 48215	6 ^h 37 ^m 2	-6° 0'	I-12	IlaoB	long 008	+2°	20 ^h 05 ^m	20 ^h 45 ^m	2
2596/7	BD +44° 1898	9 ^h 36.6	+44° 18'	I-12	IlaoB	hard 016	+2°	21 ^h 26	00 50	4

Dome Temp. 32° Transparency Conditions fair

208

Focus

Dome Temp.

Clouds on W. horizon

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 53 W	-06 03	0	6.9	B ₉	3.3-	Set 1 { 2599-2606 } ① decl. circle setting "slow motion" does not work. <i>Fz's prog?</i> ✓ → this plate has received <u>only</u> 4 counts and 2 comparisons.	<i>fine</i>
01 07 W	+44 00	0	9.45	F ₉	3.3-3.5	2605-2609 - Exposure meter KAFS <i>w/ prog?</i> drifts off balance increasing clouds today, has to be 1 P.H. Leaded rebalanced after.	<i>strong</i>

Dome Temp. .. 29°F

Fair

210

0^h30 - rising cloud in south

zhoo seeing poor in west

- General hi cloud

2:45 - integrator steps, so does observer

REMARKS

Quality

Bad contact to Iron arc
- needs reworking

Ex. meter erratic as last night. ✓✓✓

Date Wed-Thu Mar 14-15 1962 Observer Hy- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
25969	H.D.								
			clouded over						
25970F	Jovis test					OTB	T = +1°C		3

Dome Temp. 36

Focus

Dome Temp.

Transparency Conditions Cloudy in South 1/3 of Sky

212

ding Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Siderial clock is out: correction is
+ 1^m.5 to clock. This was determined by
finding Sirius. (Sirius does not seem to be
split by the 74").

8/6

Set 1 12.70
12.65

" 3 12.60

" 5 12.55

" 9 12.50

7 - error

9 - error

11 - 12.55

Best focus ~~12.58~~
12.62

Date Sat Mar 17-18/62 Observer Hd - I 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.
25971	MW C 190	7 55.8	-2 36	I-12	IIaOB	008	+2.1	19 56	20 12	2
25972	HD 65875 MW C 189	7 52.4	-1 20	"	"	"	+2.3	20 20	21 20	3
25973	BD +45° 176	9 40.2	+44 50	"	"	016	+2.1	21 39	23 39	4
					Focus	016	Test	07	3	
25974	HD 91114	10 33.1	+45 22	"	"	016	+2.5	23 50	2 ^h 30	1
25975	HD 144889	16 03.0	+22 06	I12	IIaOB	008	+2.8	3 ^h 11	3 ^h 47	2
25976	HD 154278	16 59.4	+13 42	I12	IIaOB	008	+2.8	4 ^h 00	4 ^h 34	3
25977	HD Set	18 51.7	-5 58	I12	IIaOB	008	+2.8	4 ^h 46	5 ^h 03	4
	Focus Test		OTB			008				

Dome Temp. $+34^{\circ}\text{F}$
 Focus 12.62 (re-set)
 Dome Temp. $+29^{\circ}\text{F}$

Transparency Conditions *Fair* ($\frac{3}{4}$ moon)
Clocks were wrong. have now corrected them

214

$00^{\text{h}}15$ - beautiful meteor due south; heading south

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 ^m	-2 47	0	6.4	B2e	2-2-2	Set 2. Beprov lens 7 799	l. strong
50 ^m	-1 31	0-1	8.1	B5ne	2-2-2	" 5 " " (lost some time) lens 8 803	fine
1 ^h 19	44 32	1	9.88	F7	1-1-1	" 5 KAFS lens 10 804	fine
					5/4 set 2	lens 10 809	OK
3 ^h 18 W	+45° 02	1	9.76	K5	1-1-1	" 5 KAFS lens 10 866	fine
0 ^h 53 E	+21° 56	1	7.51	K ₄ III	1-1-1	Set 5 Roman 389 SeGHV lens 8 974	fine
1 ^h 02 E	+13° 37	1	7.11	K ₁ III	1-1-1	Set 5 Roman 407 SeGHV lens 8 30107	fine
2 ^h 26 E	-5° 54	1	6.40	K ₂ III	1-1-1	Set 5 Roman 455 SeGHV lens 7 3024	fine
					5/4 Set 9	3025	fine
						3042	fine
						3043	fine
						3048	fine

1 PH loaded; No fresh plates at Dome
 - require another parcel in dome

Date Sun Mar 18-19 1962 Observer H₄ - H₅ 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.I.
25978	MWC 174 HD 57386	07 15.9	-08 15	I-125	DA0-B	.608	+6°	19 32	20 46	1
25979	BD +45° 1753	09 36.7	+45 30	"	"	.016	+5.5°	21 00	01 50	2
					LIGHT CLOUD			0300		
	EX. MTR. TESTS.							0300	05 30	
	Focus TEST.			OTB						

Dome Temp.

Transparency Conditions good but 3/4 moon

216

ing Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
46	!	-8° 22	0-1	8.1	B ₉ ne	9	Be Prog Set 5 Set 8 : exp meter works not	
57	0338W	+45 12	0-1	9.87	B ₈	2-1-2	KAFS Set 5 — 	
30						6/4	advise 3 1/2 hr (est) of a bit less (see plate only visible star in field (moonlight) 25967) Set 9.	
							3 p. + 1. + ?	

Date *Thurs. Mar. 22-23/62* Observer *L- 15* Julian Day

[illegible]

Dome Temp.

218

Start delayed by several difficulties

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	2 25 W	45 07	0-1	9.99	G ₂	2-1-2	KAFS 10 10 Set 10 { 3552 3600	CS

Date Fri Mar 23/24-62 Observer L - Ms Julian Day

[illegible]

Dome Temp. $+36^{\circ}\text{F}$ Transparency Conditions *Fine - but windy*

22.0

Focus

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

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26	1 18 W	03 03	0!	7.7	B3hc	3-3-3	Be Prog. lens 8	3614
15	2 35 W	30 12	0	10.09	B9	2-1-2	KAFS Prog. " 10	3621
148	0 36 E	59 37	0	9.45	F5	2-1-	KAFS " 10	3622
50	0 08 W	-06 06	0	8.0	09	3-3-3	Radcliffe OB " 10	3686
12	1 32 E	+33 25	0	5.4	B9	4-	Sta. vel. B star set 5	53
19			0	"	"	9	set 7	06
								38 17
								42
								42
							Thin clouds at end.	
							1 P.H. loaded + a box	

fine
l strong
strong
wh.

221

Date Sat/Sun Mar 24/25 '62 Observer W.B. - I 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.
1733-198	γ Gem	06 35.4	+16 26		5/4/8	28		1923	1x only	
1734-198	γ Gem	"	"		5/4/8	28		1954	2+	
1735-198	ρ Gem	07 28.2	+31 52		6/3/16	50		2022	2+	
1736-198	α Leo	10 06.2	+12 10		5/4/8	28		2050	2+	
1737-198	α Leo	"	"		5/3/8	28		2117	2+	
1738-198	γ Gem	06 35.4	+16 26		5/4/8	28		2131	2+	
1739-198	α Leo	10 06.2	+12 10		5/4/8	14		2153	2+	
1740-198	61 UMa	11 38.7	+34 28		6/5/24	50		2231	2+	
1741-198	BCVn	12 31.3	+41 38		6/4/24	50		2314	2+	
1742-198	α Leo	10 06.2	+12 10		5/4/8	14		2337	2+	
25986	76 UMa	12 46.4	+56 54	I125	IIaOB	008	+1.9°C	00 ^h 36	00 ^h 40	1
	✓						1.9	00 ^h 42	00 ^h 50	1
	✓						1.9	00 ^h 52	01 ^h 04	1
25987	HD 147379	16 16 ⁶ / ₇	+67 29.8	I125	IIaOB	008	+1.9	01 ^h 35	05 ^h 13	2
		Focus	Test	OTB						

Dome Temp. 36°F

Focus

Dome Temp. 32°F

Transparency Conditions

Polar except for C. 20 above
western Hbr. wind NW.

Dwp 22:15 perfect

2:30 seeing junk in north

wind too strong to move dome for North

ing Time
EST.

Only

x

x

5h40

5h50

5h04

5h13

2

Hour Angle End mid	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 45 ^m W						Scrap outboard, repaired by Frank	
1 ^h 17 ^m W						STnd	
0 ^h 55 ^m W		0	4.18	FOV		17V ST	
1 ^h 16 ^m E		0	1.25	B7V		STnd	
1 ^h 01 ^m E						STnd	
2 ^h 55 ^m W						STnd	
0 ^h 11 ^m E							
1 ^h 04 ^m E			5.46	58V			
1 ^h 19 ^m E			4.9	50V			
1 ^h 30 ^m W						STnd	
MK STANDARDS							
00 ^h 25 ^m E	+56 38	0	5.3	F2V	9	Rodcliffe OB Program	Set 2 Lns 6 3860 3862
00 ^h 18 ^m E	+56 38	0	✓	✓	9	✓	Set 5 Lns 6 3864 3868
05 ^h 03 ^m E	✓	0	✓	✓	3-3-3		Set 8 Lns 6 3870 3878
00 ^h 00 ^m W	167 21	0	10.01	M0 II	3-3-3	Rodcliffe OB Program	Set 5 Lns 10 3881 3951
					6/4	Set 9	2 PH loaded + 1 box

integrator playing
tricks (again)

Date Sun/Mon March 25/26, '62 Observer Fr - HJ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I
25988	HD 37202	5 31.7	+21 05	I-12	Ilford	.008	+5°	19:40	19:49	3
25989	HD 42233	6 4.5	+15 56	"	"	.008	+5°	20:09	22:45	4
25990	HD 89449	10 14.3	+19 59	"	"	.008	+5°	23:15	23:24	3
25991	HD 103095	11 47.2	+38 26	"	"	.008	+5°	23:43	00 23	1
25992	HD 114071	13 03.0	29 59	"	"	.016	5.0	01 04	05 12	2
	Focus Test	09B				"				

Dome Temp.

0/100 / Not in centre notch??
PRISMS

224

[illegible]

Date Mon - Tue, March 26/27 Observer MR - HV Julian Day

[illegible]

Dome Temp. +36°F
Focus 12.62 read
Dome Temp.

Transparency Conditions
Still loose contact on arc

ding Time
EST.

3 59

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
228 W	+29° 45'	1	9.73	FO	2-1-2	S+5? KAF5; KAS3.	10 { 4178 4278	Strong
					4/3	" 9		OK
						4 P.H. + 4?		
						<u>0030</u> <u>Too</u> Windy *won't stay on slit		
						WIND MOVES DOME.		
						<u>NEED MORE STARS</u>		

Date Tue/Wed Mar 27/28 '62

Observer

$$vdB - H\sqrt{}$$

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.
1743-199	8 Gem	06 35.4	+16 26	5/11	5/4/8	28		19 28 ^m	2x	
1744-199	8 Gem	07 26.2	+31 52		6/4/8	50		19 50 ^m	2x	
1745-199	NGC 2158	06 04.4	+24 06		8/6/50	50		20 30	51-34 34-51 1cl+1sky 51-34 34-51 sky 2cl+1cl	
it cannot see NGC 2419 in F. and over in 74"										
1746-199	♂ Leo	10 06.2	+12 10		5/4/8	28		21 15	2x	
1747-199	8 Gem	06 35.4	+16 26		5/4/8	28		21 38	2x	
1748-199	♂ Leo	10 06.2	+12 10		5/4/8	28		22 02	2x	
1749-199	61 UMa	11 38.7	+34 28		6/4/24	50		22 27	2x	
1750-199	BCVn	12 31.3	+41 38		6/4/24	50		22 51	2x	
1751-199	NGC 4147	12 07.6	+18 47		8/5/50	28		23 20	2x+sky	1x
1752-199	1753*	13 10.5	+18 26		8/5/50	28		23 55	2x+sky	1x
25994	{ BD +44° 2112 From Test	11 33.2	+44 39	I ^{12.5}	IIaOb	.016	+6	0050	0501	1
			0.7B.							
* M53 not 1753 (1753)										

Dome Temp. +43°F

680V

No CO₂

Transparency Conditions

C. up to 15° alt. in W
possibly slightly hazy
obs. probably OK

Focus

Dome Temp.

Hour Angle M. End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1°03'W		1				Stand	
0°34'W		51	4.18	FOV		MK Stand	
2°35'W		1	11.8			Very scattered but clearly recognizable.	
2°55'W						⊕? 200 drifts badly	
0°40'E		1	1.25	B7V		Stand	slightly hazy??
3°13'W		0				Stand	
0°07		1	1.25	B7V		MK Stand	
1°00'E		1	5.46	58V		MK Stand	
1°30'E		1	4.9	50V		MK Stand	23 10 A few isolated clouds appear
0°35'E			11.01			⊕	NOT
1°05'E			8.68			⊕	NOT
0530W	44 14	0-1	9.65	F ₇	2-3	Set 5 KAFS	probably OK
					4/3	Field checks	#10 4293 4384
						3 P.H. +4.	
						TEL. + Ex. MTR. both ran like Tops all night!	

MR

Date Mon/Tue April 2/3 1962 Observer Hj - Hj Julian Day

Plate No.	Object	R.A. 1900 ₆₁	Declination 1900 ₆₁	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
1753-200	x Dem	06 35.4	+16 26		4,6,8	30		20 ^h :48 ^m		
1754-200	"	"	"		"	"		21 11		
1755 -200	p Dem	07 26.2	+31 52		6/4/16	50		21 ⁴³ / ₄₀		
1756 -200	2 Leo	10 06.2	+12 10		5/3/16	50		22 06		
1757-200	"							22 28		
1758-200	β CVn	12 31.9	+41 34		6/4/24	50		22 57		
1759-200	61 U Ma							00 07		
1760 -200	M53 ⊕				8/5/40	50!		00 52	01 49	
1761 -200	M53 ⊕				8/5/40	28		01 16	01 49	
	—							01 44		

Dome Temp. 25

Transparency Conditions good

230

Focus

Dome Temp.

ing Time
EST.

Hour Angle End Mid	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 48 ^m W END				A0		one way only zero rises	
3 ^h 10 ^m W						centring only fair at end	
2 ^h 51 ^m W			4.18	F0		restarted due to overflow	
0 ^h 30 ^m W mid			1.25	B7V		all clear 21:30	
0 ^h 56 ^m W						went to 2000 due to phone call from Clarke	
1 ^h 00 E + 0 ^h 49 ^m E				G0		← (in Boston) ← Centring had 1 st scan	
1 ^h 02 W			5.46			centring. re-ran 2nd $\frac{1}{2}$.	
0 ^h 16 ^m W 1 ^h 12 ^m See trace						Scan back at 1240 ! 200 cloud rising in SW.	
						end. completely cloudy,	

Date Tue Wed Apr 3/4 '62 Observer Hy - Hy 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.
1762-201	γ Gem				4,6,8	30		19 ^h 38 ^m		
1763-201	NGC 2158	(Bright + Star) ^{see} map			7,5,32	30		20 10		
1764-201	"				"	30		20 45	21 09	
1765-201	α Leo	10 06.2	+12 10		5,4,25	30		21 24		
1766-201	61 uMa	11 38.7	+24 28			50		22 01		
1767-201	β CVn				5,6,25	50		22 24		
1768-201	α Leo (and ^{continuous} 1769-201 sl 30)				4,5,25	50		22 49		
	NGC 4147	12 10.2 ¹⁹⁶⁰ = +1831		Could not find						
1769-201	M53 ⊕				8,5,40	28		00 26	00 46	
1770-201	M3 ⊕				7,6,40	28		01 09		
1771-201	α Leo				4,5,8	50		01 44		
1772-201	α GB				5,4,8	50		01 59		
1773-201	σ Boo	14 32.5	+29 57		6,4,15	50		02 20		
1774-201	M5 ⊕	15 16.0	+02 15		7,6,40	28		02 45	3:03	

Dome Temp.

Transparency Conditions good

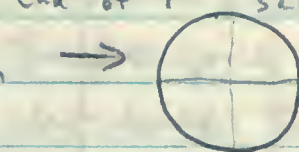
Focus

perhaps just slightly "light"

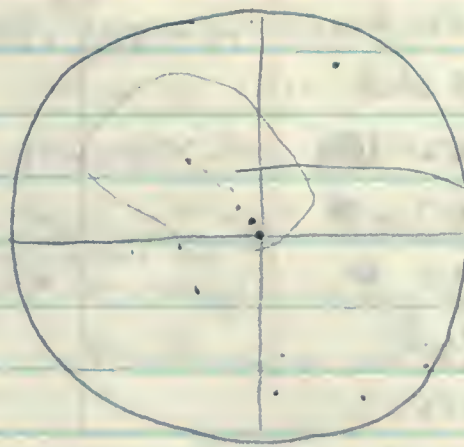
Dome Temp. 28

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 41 ^m						centring bad end of 1 st scan	
2 ^h 43 ^m & 2 ^h 57 ^m	back					small diaphragm →	
3 19						sky one way only	
0 ^h 03 ^m E end of 1	0 ^h 08 ^m W begin 2 nd					first scan back spoiled due to centring	
1 ^h 00 ^m E							
1 ^h 28 E							
1 ^h 21 ^m W							
0 06 E	00 14 ^m W						
0 08 W							
4 17 W						sky one way	
0 54 E						← " " !	
0 27 W						← I hope this is not in eclipse!	
0 07 W							



N



finder

N

2158

3:45 : clouded over!

— tried to do M80 at ~ 3:15 but
it is too faint*. Same for M4, M19! *or sky is bad.

Date Wed Thu Apr 4/5 1962 Observer 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.
1775-202	γ Gem				4,6,8	28		20 42		
1776-202	"				"	"		21 00		
1777-202	α Leo				4,6,8	28		22 09		
1778-202	21 χ mu				5,6,16	50		22 34		
1779-202	σ Boo				5,6,16	50		23 06		
1780-202	45 Boo	15 05.3	^{14 60} +25 03		6,6,30	50		23 33		
1781-202	β Vir				5,6,30	50		00 02		
1782-202	M 53 $\oplus$				8,5,35	50		00 33	00 53	
1783-202	M 3 $\oplus$				7,6,40	28		01 22		
	M 5 $\oplus$	not sufficient response even at 8,5,40 ; will not ^{not} be ^{be} stars								
1784-202	α Cr B				5,4,8	50		02 55		
1785-202	$\oplus$ M 13				8,5,40	28		3:20	3:41	
1786-202	α Cr B				5,4,8	50		4:07		
1787-202	110 Her				6,4,16	50		4:31		

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 50 ^m						Zero a bit unstable	
no good	call from	Clarke in Boston				Evening started partly cloudy. Tried to find KAFS Hins 307 but failed! the star at the given position seems too bright (one count at sens 10 in 20 seconds).	
0 ^h 45 ^m W							
1 ^h 15 ^m W	but Sootroce			A7			
2 ^h 43 ^m E				F2			
2 ^h 47 ^m E				F5	-	Tracing looks more like KO	
00 58 W				F8		→ looked at NGC 2158 again, comparing finder field with Harvard Annals 106 #2 (Coffey 1927) to identify star taken last night. No go!	
00 05 W	00 24 W						
00 28 W	00 46 W						
00 07 W							
06 35 E	0 14 E					light is far from perfect though there are no clouds	
1 17 W							
1 29 E							
		SKY test	negative			Dawn. 46 Boo is at 15 04.1 +26 41 (1991) and is Kop (ver?) so maybe I took this.	

Date Fri/Sat Apr 6/7 '62 Observer veB - Ms 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.
25994 ⁵	HD 60298	7 28.7	+2509	12"	IIaOb	008	+09	1955	21:30	2
25995 ⁶	BD +45° 1859	10 38.4 ³	+45 12	12"	IIaOb	016	+04	2145	00:45	3
25996 ⁷	^{Hins 138} HD 136244	15 14.5	+60 29	"	"	"	+9.0	02 34	03:52	4
Focus test										

A pin in the Dec. S.M. drive sheared while setting on a star when the tangent nut reached the end of the screw. About an hour was spent repairing this, plus 20 minutes setting the nut to the middle of the tangent screw. Could G.F.L. have a look at this? The replacement pin is not the same as the original. The pin which sheared is just below the upper universal joint. - Ms.

Dome Temp. 48°F
 Focus Unchanged
 Dome Temp. 40°F

Transparency Conditions: 1. Partly cloudy (C1 - rather thick)
 2. clear, slightly hazy
 3. cloudy at end.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 40 ^m W	+75 02	2	8.01	S2V	3+3+3	vdB (88) 4400 4420	Strong
2 ^h 46 W	+74 54	2	9.59	F4	2+1+2	KA 30 Hins 317 4422 - 4442	fine
1 ^h 21 W	+60 13	2	9.08	K3	2+2	KAFS Hins 138 ^{sees.} _{1.0} 4432-74 = 42 counts	fine
- exposure terminated by clouds.							OK
1 P.H. + boxes							

Rat apr 7
 1 Hd - L

150 Visitors - Rain at first. Movie talk demonstrated 74 - inch. Latex showed dies.

δ Slow motion in poor shape!
 Expo Meter does not work on S-100

237.



Seki-Lines m 4
Stellar nud. m nucleus m 5 50 tail

Date Su/110 Apr 8/12 Observer RB Julian Day 110

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
1788-203	γ Gem	06354	+16 26		5/4/18	28		1948	2x	
1789	Source				5/5/18	5/4/18	20 05			
1790	21 L Pi	1004.8	+3527		5/6/16	50	20 22		2x	
1791	2 Leo	1006.2	+12 10		5/3/18	28	20 46		2x	
1792	Source				5/4/16	5/5/18	21 05			
1793	2 Leo	9 43.6	+2358		5/5/16	50	21 18		2x	
1794	β Vir	11 48.4	+02 02		5/5/16	50	21 42		2x	
1795	⊕ NGC 4147	12 07.8	+1847		8/5/40	28	22 16		⊕ sky sky ⊕	
1796	⊕ M 53	13 10.7	+18 24		8/5/40	28	23 01		2x + 1 sky	
1797	⊕ M 3	13 40.1	+28 37		8/4/40	28	23 35		2x + 1 sky	
1798	2 Leo	1006.2	+12 10		5/3/18	28	00 12		2x	
1799	Source				5/4/16		00 27			
	NGC 5466	cannot be found in eye piece								
1800	⊕ M 2	15 16.3	+07 15'		8/4/40	28	01 07		2x + no sky	
	⊕ 5?				Many thin clouds gave up 1:30					

Dome Temp. V 700

Transparency Conditions Ci to 100 in W to 250 in S. 238
Sky a bit hazy. Not a
very good p.e. night; night
just be OK.

[illegible]

Date Tues-Wed, April 10-11, '62 Observer Fe - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour & Min. Exp.
25997	BD +45° 1758	38.7	+45 24 12	L-12	Ilco-B	.016	+6°	20:16	22:58	1	2:16
25998	HINS 138 HD 136244 Focus Test	15 14.5	60 29	"	"	"	+7°	0017	0311	4	005

Dome Temp.

Transparency Conditions Fair

21:50 Thickening haze
22:30 Haze turns to light cirrus.

240

[illegible]

241. see previous page for note re: visitors

Date Sat-Sun April 14/15 1960 Observer MS 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.
25999	Hins 625 H.D. 133965 <i>Focus Test</i>	15 02.2	+29 35	I-12 $\frac{1}{2}$	^{bahel} D.O.	:016	43.4 +3.2	01:34	04 08	1

Transparency Conditions

Dome Temp. + 28.....

242

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 08	02 18W	+29 20	0-1	9.42	F6	2-2	sets KAFS sens. 10 4677 726 48 counts	fine C to me
2 P.H. + 4 cut off by clouds.								

243

Date 1962 April 15/16 Sun-Mon Observer MR - 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.
26000	HINS 117 HD 95866	10 ^h 58.6 ^m	+59° 27'	I-12 1/2	Daob	set .016	+1.6	20:44	23:50	3
26001	HINS 344 BD +45° 2137	13 50.1	45 13	11	11	11	+1.2°	00 07	04 41	2
	Flows 9 est.			0.75						

Dome Temp.

Comet Seki-hime
4° NW of Pleiades
with 1° tail

Transparency Conditions *good - few wisps*

244

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
150	32 ^h 06 ^m W	+59° 06'	52	9.86	G3	2-1-2	KAFS p.1 #1	Set 5; ^{fill} check, 10. { 4745 (1 hr. + 10 min) 4845 fine
141	20404W	44 54	0-1	9.57	F6	2-3	KAFS Set 5	#9 4854 fine
						4/3	" 9	OK
							1 P. H. + 10	

245

Date 1962 April 16/17 Mon Tue Observer MR-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
26002	^{Hins 569} BD+29°1907	9 ^h 24.6 ^m	+29°33'	12 1/2	Trac	^{set} .016	+1.9°C	20:03	23:48	1
26003	^{HINS 635} BD+29°2751	15 ^h 57.6	+29°42'	"	"	"	+1.6°	0016	0408	2
	^{Hins} Tent.		0.9.B.							

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

Comet Saki-Linus
3° N 1 P. 10. 10. 10.

Transparency Conditions

246

a little cloud in West at 0300.

Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
3:48	3h 42m W	+29° 16'	50	9.89	F5	2-2	KAFSp. 4. ^{field} checks ^{set 8} (Take start in set 8)	10 { 4918 4990	fine
4:08	3h 13m W	29 39	0-1	9.99	F5	2-3	" Set 5	#10 { 4995 5080	weak
						4/3	" 9		OK
							1 P.H. + 8		

247

Wed-Thurs.

Date APR 18-19/62

Observer vdB-L-Hv Julian Day

Plate No.	Object	R.A. 1900 1962	Declination 1900 1962	Inst.	Emulsion	Slit	SPOTS Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26004	MOON	13 14.3	-03 30	NEWT.	I-Z		—	20 59		
26005	"				"		—	21 02		
26006	"				"		—	21 12		
26007	"				"		—	21 13		
26008	"				I-N		—	21 29		1
26009	"				"		—	21 30		2
26010	"				103a-D		YELLOW 405?	21 56		1
26011	"				"		YELLOW 45	21 57		2
26012	"				103a0		UV 3m	22 22		1
26013	"				"		"	22 23		2
26014	"				"		GG-13 25	22 35		1
26015	"	①			I-N		—	00 07		1
26016	"	②			103aD		GG-11 105	00 16		2
26017	"	3			103a0		GG-13 25	00 22		1
26018	"	4			103a0		UG-2 6m	00 38		2
26019	"	5			103a0		NORMAL FILTER 3m	00 45		1

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

Focus

Dome Temp.

Partly cloudy at first
Transparency Conditions *Hazy later*

248

ALL I-Z PLATES PARTLY FOGGED

Filter $\frac{1}{4}$ " in front of plate $\rightarrow$
dust marks

ing Time EST.	Hour Angle End	Declination	FILTER Seeing	Ptg. Mag.	DIA. "	EXP. Comp.	REMARKS	Quality
1	0246E	-03 36	—	—	—	10 ^s	Focussed on α Leo. PLATE DISCARDED	
			—	—	—	50 ^s	" "	
			89-B	—	—	10 ^s	RED FILTER } darkest of two is longest exposure O.K.	
			89-B	—	—	50 ^s		V. STRONG
			"		4"	5 ^s		X. STRONG
2			"		"	25 ^s		BLACK
1			GG-11		2"	15 ^s	YELLOW FILTER	SPOTS O.K. V. STRONG
2			"		"	3 ^s		" WEAK PERFECT
1			UG-2		"	20 ^s	UV FILTER	" V. WEAK LITTLE WEAK
2			"		"	2 ^s		" " " VERY WEAK
	0112E		GG-13		"	1 ^s	BLUE FILTER	" " " GOOD
	0018W		89B		1"	10 ^s		
2	0027W		GG11		1"	10 ^s	Through v. Thin clouds.	
	0034W		GG13		1"	5 ^s		
	0049W		UG2		4"	10 ^s		
	0056W		"		4"	10 ^s		

Date APR 18-19/62 CONTD Observer vdB-L-H Julian Day 184

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	SPOTS Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26020	MOON	⑥		NEWT.	103a0		GG 13 25	0052		2
26021	"	⑦		"	103aD		GG 11 105	0057		1
26022	"	⑧		"	I-N		—	0101		2
26023		①		"	"		—			1
		②			103aD		GG 11 105			

Dome Temp.

Transparency Conditions

Focus

Dome Temp. $+3.3$ ing Time
EST.

Hour Angle End	Declination	FILTER Serie	Ptg. Mag.	DIA. Sp.	EXP. Comp.	REMARKS	Quality
0102 W		GG13		1"	5 ^s	ALL PLATES DEVELOPED.	
0108 W		GG11		1"	10 ^s	Double exp	
0112 W		89B		1"	10 ^s	0100. CLOUDS.	
		"		1"	10^s		
		GG11		1"	10^s	P.H. #1 Loaded. I-N. No Spots.	

Date Thurs. Fri. Apr. 19-20/62 Observer vdB-L-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	SPOTS Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26023	Moon ①			NEWT	I-N		89B 105	21 20		1
26024	②			"	103aD		GG11 105	21 27		2
26025	③			"	103aO		NORMAL	21 38		1
26026	④			"	103aO		N	21 44		2
26027	⑤			"	103aO		N	21 50		1
26028	⑥				103aO		N	21 58		2
26029	⑦				103aD		GG11 105	22 02		1
26030	⑧				I-N		89B 105	22 08		2
26031	①				I-N		89B 105	22 17		1
26032	②				103aD		GG11 105	22 24		2
26033	③				103aO		N	22 33		1
26034	④				103aO		N	22 38		2
26035	⑤				103aO		N	22 43		1
26036	⑥				103aO		N	22 47		2
26037	⑦				103aD		GG11 105	22 48 55		1
26038	⑧				I-N		89B 105	23 00		2

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

Focus

Dome Temp.

FILTERS in diagram
NOT optical $\rightarrow$
fuzzy images

Transparency Conditions Fine, except for small
altocumulus clouds over a while
these can be avoided during exposure
From # 26026 on very fine weather

252

25 to
26026

Hour Angle EST.	Hour Angle End	Declination	FILTER Coating	Ptg. Mag.	DIA. in	EXP. Comp.	REMARKS	Quality
	0308E	-0840	89B		1"	15 ^s		
	0300E		GG11		1"	10 ^s		
	0250E		GG13		1"	10 ^s		
	0245E		UG2		4"	8 ^s		
	0238E		UG2		4"	8 ^s		
	0231E		GG13		1"	10 ^s		
	0226E		GG11		1"	10 ^s		
	0221E		89B		1"	15 ^s		
	0212E		89B		1"	10 ^s		
	0205E		GG11		1"	7 ^s		
	0156E		GG13		1"	7 ^s		
	0151E		UG2		4"	6 ^s		
	0146E		UG2		4"	6 ^s		
	0143E		GG13		1"	7 ^s		
	0136E		GG11		1"	7 ^s		
	0130E		89B		1"	10 ^s		

253.

Date Apr 19-20 CONTD Observer vdb-L-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	SPOTS Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26039	Moon ①			NEWT	I-N		89B 105	2309		1
26040	②			"	103aD		GG11 105	2316		2
26041	③			"	103a0		*N	2336		2
26042	④				103a0		N	2342		1
26043	⑤				103a0		N	2347		1
26044	⑥				103a0		N	2352		1
26045	⑦				103aD		GG11 105	2358		2
26046	⑧				I-N		89B 105	0005		1
26047	①				I-N		89B 105	0012		2
26048	②				103aD		GG11 105	0018		1
26049	③				103a0		N	0030		2
26050	④				"		"	0036		1
26051	⑤				"		"	0040		2
26052	⑥				"		"	0046		1
26053	⑦				103aD		GG11 105	0051		2
26054	⑧				I-N		89B 105	0057		1

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle EST.	Hour Angle End	Declination	FILTER Setting	Ptg. Mag.	DIA INCH	EXP Secs.	REMARKS	Quality
	0121E		89B		1"	22 ^s		
	0115E		GG11		1"	15 ^s		
	0054E		GG13		1"	15 ^s	* = NORMAL SPOTTING	
	0048E		4G2		4"	15 ^s		
	0044E		4G2		4"	12 ^s		
	0038E		GG13		1"	15 ^s		
	0033E		GG11		1"	15 ^s		
	0026E		89B		1"	22 ^s		
	0019E		89B		1"	15 ^s		
			GG11		1"	10 ^s		
	0002E		GG13		1"	10 ^s		
	0005W		4G2		4"	8 ^s		
	0009W		"		4"	8 ^s		
	0015W		GG13		1"	10 ^s		
	0020W		GG11		1"	10 ^s		
	0025W		89B		1"	15 ^s		

Date APR 19-20 CONTO Observer vdb-L-Hv Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	FILTER Setting	Ptg. Mag.	DIA. Exp.	REMARKS	Quality
		89B		Full 7 ^s	Focussed on α Boo	
20057W		"	"	14 ^s		
		"	"	7 ^s		
20105W		"	"	14 ^s		
		"	"	7 ^s		
20112W		"	"	14 ^s		

257

Date Apr 20/21 1962Observer vdB - L - Hr

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	SPOTS F	Starting Time E.S.T.	Ending Time E.S.T.	P
26061	MOON ①			NEWT.	I-N		89B 105	22 44		1
26062	②			"	103aD		GG11 105	22 49		2
26063	③				103aO		N*	22 52		1
26064	④				103aO		N	22 55		2
26065	⑤				103aO		N	22 57		1
26066	⑥				103aO		N	23 00		2
26067	⑦				103aD		GG11 105	23 04		1
26068	⑧				I-N		89B 105	23 06		2
26069	①				I-N		"	00 00		1
26070	②				103aD		GG11 105	00 08		2
26071	③				103aO		N	00 14		1
26072	④				"		"	00 19		2
26073	⑤				"		"	00 22		1
26074	⑥				"		"	02 29		2
26075	⑦				103aD		GG11 105	00 33 30		1
26076	⑧				I-N		89B 105	00 43		2

Dome Temp.

Focus

Dome Temp.

Filter 1 foot in
front of plates

Transparency Conditions

Perfect!

258

Hour Angle End	Declination	FILTER Setting	Ptg. Mag.	DIA. "	EXP. Sec.	REMARKS	Quality
0230E	-11 44	89B		1"	15 ^s		
0225E		GG11		1"	10 ^s		
0222E		GG13		1"	10 ^s	* NORMAL SPOTTING	
0219E		UG2		4"	10 ^s		
0217E		UG2		4"	10 ^s		
0214E		GG13		1"	10 ^s		
0210E		GG11		1"	10 ^s		
0208E		89B		1"	15 ^s		
0115E		"		"	10 ^s		
0107.5E		GG11		"	7 ^s		
0102E		GG13		"	7 ^s		
0057E		UG2		4"	7 ^s		
0054E		"		4"	7 ^s		
0047E		GG13		1"	7 ^s		
0042.5E		GG11		1"	7 ^s		
0033E		89B		1"	10 ^s		

259

Date Apr. 20-21/62 CONTD Observer VdB-L-Hv Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	SPOR Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26077	MOON ①			NEWT	I-N		89B 103	0045		1
26078	②			"	103aD		GG11 103	0051		2
26079	③				103aO		N	0100		1
26080	④				"		"	0107		2
26081	⑤				"		"	0109		1
26082	⑥				"		"	0116		2
26083	⑦				103aD		GG11 103	0121		1
26084	⑧				I-N		89B 103	0125		2
26085	"				I-Z		—	0200 ⁰⁵		1
26086					"			020045		2
26087					"			020712		1
26088					"			0207 ⁵⁰		2
26089					"			0213 ²⁸		1
26090					"			0214 ⁰⁵		2
26091					"			0219 ²²		1
26092					"			021951		2

Dome Temp. 41°F

Transparency Conditions EXCELLENT

260

Focus

Dome Temp.

Hour Angle End	Declination	FILTER Selling	Ptg. Mag.	DIA Sq.	EXP. Group.	REMARKS	Quality
1 0031E		89B		1"	22 ^s		
2 0025E		GG11		1"	15 ^s		
1 0017E		GG13		1"	15 ^s		
2 0010E		UG2		4"	15 ^s		
1 0008E		"		"	"		
2 0001E		GG13		1"	"		
1 0004W		GG11		1"	"		
2 0008W		89B		1"	22 ^s		
		89B		Full	7 ^s	Focussed on β Lib.	
2 0042W		"			14 ^s		
1		"			7 ^s		
2 0050W		"			14 ^s		
1		"			7 ^s		
2		"			14 ^s		
1		"			7 ^s		
2 0102W		"			14 ^s		

Date Mon. - Tue 1962 Apr 23/24 Observer MR-H5 Julian Day 174.5

[illegible]

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

Focus 12.62 read

Dome Temp.

Sat Apr 21-22/62 Cloudy

Hd. Hy. showed "Universe"
and demonstrated 74"
to 160 visitors.

Transparency Conditions

Cld. at sunset blew off to N

262

Delay start a/c focus chain came
off.ing Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

26

3 0404W

 $+59^{\circ}56'$

0

9.81

A8 2-1-2

Set 5 KAFS p. 1

P.H. Back on
upside down

#10

5119

5182

fine

30

0018E

 $-09^{\circ}10'$

00

9.28

B₉I_b 2-3

" 5 O.B.

Cutoff by dawn.

#10

5186

5241

fine

4/3

" 9

OK.

1 P. H. + 6

Windy, telescope unsteady all
night.

Date Tues Apr 24 25 / 62 Observer Nel Julian Day 172.5

[illegible]

264

Dome Temp.

[illegible]

Date Wed Apr 25-26/62 Observer Gg-H5 Julian Day 175

[illegible]

Dome Temp. $+47^{\circ}\text{F}$

Transparency Conditions *OK, but thin clouds in S at $\approx 20^h$
sl hazy* 266

0330 Seeing Awful!!! 00000

[illegible]

Date Fri-Sat, April 27-28, 1962 Observer Fe - L Julian Day 1962050

[illegible]

268

Dome Temp.

[illegible]

Date Fri/Sat May 4/5 1962Observer Hd vdB

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
26100	HD 30353 (Focus Test)	0441.8	+4306	12"	IIaOb	008	+17.0	2027	2127	
1801-204	α Leo	10 06.2	+1210	5/4/8		14		2213	2x	
1802-204	NGC 4147	12 07.8	+1845	8/6/41		28		2239	2x+25u	
1803-204	η 53	13 10.7	+1824	8/5/41		28		2320	2x+15u	
1804-204	η 5	15 16.3	+0215	8/4/41		28		0004	2x+15u	
1805-204	α CrB	15 33.0	+2651	5/5/14		14		0035	2x	
1806-204	R 373	15 41.1	-10 49	7/5/24		14		0057	2x+15u	
1807-204	η 80	16 14.4	-2253	8/5/41		28		0122	2x+15u	
1808-204	η 12	16 45.1	-0153	8/6/41		28		0155	2x+15u	
1809-204	η 19	17 00.1	-2612	8/5/41		28		0229	2x+15u	
1810-204	η 92	17 15.8	+4312	8/4/41		28		0303	2x+15u	
1811-204	α Lyr	18 35.6	+3845	4/4/7		28		0337	2x	

Dome Temp.

CO₂ in 20⁴00^m
700V

Transparency Conditions Fine

270

2245 Scattered cumulus in West (low)
2300 all clear
still fine at dawn.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
127	7 ^h 13 W !	+43° 16'	-1-2	8.3	A6,	2+4+2	nt 1 Bidelman's Star sens 8 SS - 97 nt 6.	
x	2 ^m 48 W			1.25	B7		Standard	
x + 25μ	1 ^m 10 W r 1 ^m 10 W						FINDER  4147	
x + 5μ	0 ^h 50 W						⊕	
x + 15μ	0 ^h 30 E						⊕	
x	0 ^h 17 E						Standard	
x + 15μ	0 ^h 05 E						isolated cloudbank drifts by in front	
x + 15μ	0 ^h 10 E + 0 ^h 10 E						Roman HV star Sov Sverg	
x + 11 μ	0 ^h 12 E + 0 ^h 07 E						Very interesting! Almost no lines in spectrum	
x + 15 μ	0 ^h 10 W + 0 ^h 05 W						⊕	
x + 15μ	0 ^h 27 W						⊕	
Lx	0 ^h 27 E						Standard	
							slow motion not working	

Dome Temp.

Transparency Conditions

21:30 very thin cloud over whole sky

২৭২

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
08	W 802	43 17	8.3	A6	2-2-2	Sut 3 Bidelman's Star - Hd. near 8 5627 5626 ₂	
						test for seeing : <u>not</u> photometric, Also: very thin clouds well up in south.	
103	0321 W	+60° 00	0	9.98	F8	2-3 at 5 and 10 KAFS ~75 counts #10 5642 5696 4/3 " 9 23:40 - sky much improved 23:50 - more very thin cloud, well up in south.	
						2 P.H. Loaded.	

Date Wed.-Thurs, May 9-10, 1962 Observer Fe - Gg Julian Day 171.5

[illegible]

Dome Temp.

Transparency Conditions *mediocre*

23^h hazy - esp in S., cloud in SE.
2^h improving & fairly good -

274

Setting Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:51	1:00 W	+65° 18'	0	6.22	B9	3+3+3	B8-B9 program (thick haze) 9 5705 5746	fine
2:25	00:50 E	+38 39	0	6.20	B9	3+3+3	B8-B9 " 9 5776 5819	fine
2:30	2:30 E	+18 42	0	6.20	B9	3+3+3	" " " 9 5845 5895	fine
2:40	1:47 E	-2 00	0	6.09	B9	3+3+3	" " " 9 5907 5958	fine
2:04	0:58 E	-19 29	0-	7.0	B8	3+3+6	" " " (10) 8 59606 77	fine
2:46		+17 44	0=1	7.56	A0	3+	KA 6X6 fld agress. (40) 8 5684	fine
				4/3				OK
							2 Pthin fig + 2	
							Melre light in warming room has burnt out	
							Dec motion on E. side of pier don't always work.	

275

Date Fri-Sat May 11/12 Observer MS-Hv Julian Day 172.5

[illegible]

Dome Temp.

Poor at times after midnight.

276

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	3:21W	+57°21'	0	5.77	B9	3-3-3	B8-B9 prog sets sens 8 6036	
29	3:48W	57 21	0	"	"	3-3-3	" " set 9 46	
19	0009W	-23 52	0	6.6	B9	3-3-3	" " set 5 sens 8 6078	
08	0006E	-21 15	0	6.3	B9	3-3-3	Set 4 B8-B9 Prog. #8 6079	
51	0003E	-19 30	0	7.0	B8	3-3-3	" 5 " " " #8 6090	
29	0054E	+05 04	0	6.54	B9	3-3-3	" 5 " " " #8 6103	
23	0006E	+03 35	0	6.32	B9	9	" 5 " " " #8 6121	
14	0021W	+17 54	0	6.39	B9	3-6	" 5 " " " #8 6137	
						8/6	" 9	6148
							1 P. H. + 8	
							focussed on E Virginis	

Date Sat/Sun May 12/13.

Observer rdB - I

Julian Day

[illegible]

Date Mon-Tues May 14/15

Observer MR.
(Ble)

Julian Day

[illegible]

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

Focus $15.64 - 1.5 = 15.49$ Left at 15.50

Dome Temp.

Transparency Conditions

280

May 14 Changed to 25" Camera

12 $\frac{1}{2}$ was Focus 12.624 F 15.50
Silt 20.35 25" T 23.15

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:49 W	$+30^{\circ} 28'$	1	6.42	FS-A2	6-6-6	Hynek's stars Set	News 8 { 6204. 6250
1:52 W	$+41^{\circ} 33'$	2	7.27	FS-A3	6-12	" " Set	" 8 { 6253 6280±
<u>stopped by clouds.</u>						4 PH. in refrig.	

Date Tues May 15-16/62 Observer ^{Hd}F - BK Julian Day 155.5

[illegible]

Dome Temp.64.....

Transparency Conditions *Hazy & partly cloudy*

282

[illegible]

Crampton

Cv

12

42

— Bk

Julian Day

[illegible]

Dome Temp. 80° F

Focus 15.57

Dome Temp.

Transparency Conditions Poor

284

ding Time
EST.

23

44

18

20

04

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 17 W	+41° 34'	0	7.27	FSA3	G+G+b	Huge star ... 9/ 6407	
2 42 W	+16° 26'	0-1	7.19	FSA0	G+b-b	" " plate found loose 9/ 6570	
0 46 E	0 08	0	5.33	A0G	G-b-b	" " in the PH!! 9/ 6597	
0 18 W	8 00	0	6.25	G0A3	G-b-b	" " set 5 7/ 6782	
0 08 E	29 20	0	5.84	FSA0	G-b-	" " set 5 8/ 6805	
					12/18	" " 8/ 6845	
						set 9	
						4PH +4 in refng.	

Date Thurs May 17-18 /62 Observer GT-L-BK Julian Day 171

[illegible]

Dome Temp.

Transparency Conditions Hazy

286

Transparency Conditions		Remarks
3	Lost $\frac{1}{2}$ hr because someone had played with the breech end of finder ! ! ! ! !	

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 36	3 22 W	14 30	1	8.07	A39	3-3-3	Restarted on set 8 Azynechos star	Sen 8 6928 6970 6972
2 48	1 12 W	40 05	1	8.01	A5	3-3-3	" set 5	
4 05	0 28 W	47 12	0	7.9	A06	3-3-3	" " "	2014 2054
						12/14	9	
							1 PH in refrig.	

Date Fri/Sat May 18/19 1967 Observer vdN } - Bk Julian Day

[illegible]

Dome Temp. 85°F Focus 1561 Dome Temp. 72° Transparency Conditions Time clear NW
thin cl 2200-2400

288

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 53 E	+45 48	1	8.3	F2p	6+6+6	OG8 - 108 Hynek Program Spectrum is that of the brightest component of the double star sep 8"	
0 46 E	-10 51'	0-1	7.68	F6VI	6+6+6	R373 SHV progr. N.B. very close to moon (dis = 1.5 count 6 sec)	
1 00 W	-25 40'	0	7.1	B8	6+12	HR 5614 B8/B9 Progr ✓ 49-54	
3 45 W	9 48	0	6.70	A2G	6-6-6	Hynek's set 5	8 7154 7191
0 18 E	10 17	0	5.8	F8	6-6-6	" 5	7 7192 7206
					12/18	9	
						4 PH in refrig.	
						RA drive very irregular	

Date Sun / Mon May 20 / 21 Observer F Julian Day

[illegible]

Transparency Conditions *much cloud* *Pool* 290
 22^h *sky improved - still much cirrus*
 23^h *clouding over from N fast - cloud bank black*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 45W	68° 35'	0	6.04 B9	G-6-6	Sat 3	B8-B9	Sens 6 7259
—	-10° 41'	0	7.68 FS VI	G-6-6	Sat 3	See HV Clouded out	Sens 8 2265
					20-16	Sat 8	2267
						23:20 down rain	
						2 PH's loaded in fridge	
						At 10:45 ^{PM} EDT Object in about 0 right ascension - T.O from N 45 + tail. Travelled uniformly. Tail vigorous & quite short.	
						Saw object noted earlier in Thornhill - Check here.	

Date May 26/27 Sat/Sun Observer MR Me } - F Julian Day

[illegible]

Dome Temp.

$$\begin{array}{r} 15.52 \\ - .15 \\ \hline 15.37 \end{array}$$

Transparency Conditions *good*

२५२

175 visitors - showed frames 151 gups, 143 second gups.

Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:29	00 47W	-10° 51'	0	7-68	F5VI	6-6-6	Set 2 So UV 120-9 { 7286 7406	
1:10	01 40 W	+48° 02'	1+	7.58	G0II	6-6-6	Set 6 So UV 40 8 { 7408 7450 7518	
1:00	S4W	+12° 08'*	1-0	8.28	GSAZ	3-3-3	Set 2 Hynek's - counting faint stuff to bedrock Set 8 * decliner twice thru reusible tho stars! 03:10 Curves moving from S - becoming v. bad in south. 3 PH loaded	
							08:30 Declinator just motor not working - called Frank fixed 01:20 1 unexposed plate exposed to light	

Date Twelve May 29/30 1967 Observer W.D. Julian Day 171

[illegible]

Dome Temp. 67°F

Focus

Dome Temp.

Now Realuminized

V = 750 VOLTS

CO₂ in 20:15

Transparency Conditions

sky hazy, mag thin C: at sunset
looks better after sundown, probably not
good however

1120 sky still murky, C:??

Some improvement to transparency, worse
again later

294

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 00 ^m E		9=15"	1.25	B7V		Standard drifted out on 2d x	
1 ^h 59 ^m E		15"	2.21	AOV		Standard just off scale use 28's/5's cannot find 50's-3	9147
0 ^h 05 ^m E			10.8	IV		recaptured between scans	
0 ^h 35 ^m E		15"	2.21	AOV		Standard	
0 ^h 51 ^m E			8.4	II			
0 ^h 34 ^m W		5"	2.21	AOV		Standard	
0 ^h 06 ^m W			10.1	X		barry visible in 74" ident (possibly) OK	
0 ^h 33 ^m W			8.0	IX		Very open, bright stars avoided	
1 ^h 05 ^m W			10.3	IV			
0 ^h 05 ^m E		3"	0.04	AOV		Standard not well centered 2d time (33→52)	
0 ^h 11 ^m W		1"	0.04	AOV		Standard	

Date Th/Fr May 30/31 Observer veB-I Julian Day _____

[illegible]

Dome Temp. 65°F CO₂ - 2255

Focus 15.45 (21.5) V = 700 volts

Dome Temp. 62°F

Transparency Conditions ... polawan, isolated Cumulonimbus
looks good, very clear at horizon.

12:30 scattered cloud

2h - cloud rising in NW

2:05 clouded out

296

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 01 ^m W		7"	2.21	AOV		Standard	
			10.3	IV		⊕ Clouds tracing discarded	
0 ^h 14 ^m E	-11° 13	+1	5.51	B8	G-6-6	B8-B9 Pg. Set 5 Seno 6	7697 7702
1 ^h 18 ^m E	-20 12	0	6.68	B8	G-6-6	Hd. Eclipsing binary VB 22 Aql Set 5 Seno 8 has faint comp. in visitor's eyepiece	7704 7734
					11/12	Set 9	
						4PH's loaded +/ Very pleasant observing!	

Dome Temp.

Transparency Conditions

Good

298

$$\begin{array}{r} 15.54 \\ \underline{15} \end{array}$$

ding Time
E.S.T.

[illegible]

299

160 visitors saw M3

Date June 2/3 Sept 62

Observer

V17
F_c
F_{av}

V273

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
1826-208	LCrB	15 33.0	+26 51		4-6-16	14		22 17	2x	
1827-208	NGC 5634	14 27.5	-05 48		8-5-41	28		22 43	2x + 15m	
1828-208	M80	16 14.4	-22 53		8-4-41	28		23 10	2x + 15m	
1829-208	M4	16 20.9	-26 25		8-5-41	28		23 43	2x + 15m	
1830-208	M19	17 00.1	-26 12		8-4-41	28		00 14	2x + 15m	
1831-208	NGC 6356	17 21.3	-17 46		8-5-41	28		00 46	2x + 15m	
1832-208	M28	18 22.1	-24 54		8-4-41	28		01 19	2x + 15m	
1833-208	NGC 6638	18 28.2	-25 32		8-5-41	28		01 50	2x + 15m	
1834-208	M22	18 33.9	-25 58		8-4-41	28		02 21	2x + 15m	
1835-208	Antennae	18 35.6	+38 45		4-4-16	14		02 55	2x	

Dome Temp.

Focus

Dome Temp.

700 V

CO₂ in 2100

Transparency Conditions

Fine clear air mass
particularly good low in S

PERFECT!

300

ing Time
EST.Hour Angle
End

Declination

Seeing

Rtg.
Mag.

Sp.

Comp.

REMARKS

Quality

0°42'E

8=7"

2.21

AOV

Standard

0°47'W + 0°44'W

10.8

IV

⊕ (to 3600 only) almost against pier (cut off by pier)

0°28'E + 0°15'E

8.4

II

⊕

0°03'E + 0°04'E

7.4

IX

Very open (more so than 1722) bright XX avoided

0°14'E + 0°04'E

8.3

VIII

⊕

0°03'E + 0°15'W

9.7

II

⊕

0°30'E + 0°15'E

8.5

IV

⊕ (cluster core probably drifted)

0°05'E + 0°10'W

10.2

VI

⊕

0°20'W +

6.5

VII

⊕ br. XX avoided

0°54'W

0.04

AOV

Standard

Sen-Mans 3-4
Date June 4-5/62

Observer Gg - F

Julian Day

[illegible]

Dome Temp.

Not even spectrographic 20:25 wispy cloud all over 302
Transparency Conditions 21:20 thin cloud esp in S!
22:05 thin cloud just sits in S. & 22:30
(after Spica) causes Indecision
23^h Fairly good overhead, but still cloud in S
0^h more cloud in S.

Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
39	0 ^h 06 W	+39 14	0-1	7.4	G ₈ V	6-6-6	Se HV (Gg) Sens 8 (20) 7755 7799	Fine
12	1 ^h S3 E	+43 08	1.	6.4	A ₅	6-6-6	Sp Bin N. Set 2 (12) Sens 7 7805 7817	poor/good
17	2 ^h 24 E	+46 34	1+	6.9	B ₉	6-6-6	B8-B ₉ Set 2 Sens 8 (30) 7822 7852	fine
50 4	00 14 E	+43 09	0	6.4	A ₅	6-6-6	Sp Bin N. Set 4 1/2 (12) Sens 7 7858 7871	fine
20	00 28 E	+35 04	0	6.2	B ₈	6-6-6	B8-B ₉ Set 5 (5) Sens 6 7874 7879	fine
43	00 38 W	+43 08	0	6.4	A ₅	6-6-6	Sp Bin N Set 7 (12) Sens 7 7881 7893	fine
23	01 21 W	+52 03	0	6.4	B ₉	6-6-6	B8-B ₉ Set 8 (12) Sens 7 7895 7907	fine
							Set 10	
3:00	→ Jerry: Slow motion in declination not working - not by using coarse controls - instr. is running but don't see any results - left alone w/ this.							
3:20	RAIN COMING FAST - clouds from N.W. thick							
	NOTE: Only 1 PH was located & 1 plate in box at 00h. NO PLATE MISCODERS LO 10 ED !!							

Date Wed - Thurs. June 6-7/62 Observer Hd me - Gg ^(Cn) Julian Day _____

[illegible]

Dome Temp. 7

Oh - Very Good. - L. windy

304

[illegible]

Date Thurs^{Fri} June 7-8/62 Observer L-Cn/I Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
26155	HD 140283	15 39.8	-10 37	I-25	E103A0	set .008		21 27		4
26155	HD 145792	16 07.7	-24 10	I-25	E103A0	.008	22.8	23 16	00 ^h 38	1
26156	HD 172187	18 33.7	+43° 08'	I-25	E103A0	.008	22.6	00 ^h 50	1 ^h 27	2
26157	HD 190658	20 00.8	+15° 13'	I-25	E103A0	.008	22.5	01 ^h 49	2 ^h 42	3
26158	HD 183794	19 26.1	-2° 19'	I-25	E103A0	.008	22.5	02 ^h 53	3 ^h 21	4
	Focus	lost	PA/OTB							

Dome Temp. +68°F

Focus 15.47

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

Transparency Conditions *Clouds*

see * { ∞^{15} counting very slow at low declinations
below { Δ above 15

below } Δ also of 15

1^h/5 improving - few wasps

[illegible]

Date Fri-Sat, June 8-9, '62 Observer Fe - Jlt. Julian Day Cn

[illegible]

Dome Temp. ... 66°

Focus ... 15.49

Dome Temp. ... 60°

Transparency Conditions Poor... Thin cirrus

308

23:00 Uniform thin cirrus over sky

1:00 good except clouds at North.

2:00 became large at horizon.

ding Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:12	1:00 W	-25 40	0	7.1	B8	6+6+6	B8-B9 Program 9 8272 8369	
3:59	0:30 W	-01 57	0	6.09	B9	6+6+6	B8-B9 Program 9 8374 8494	
47	0 08 E	-14 46	0.4	6.05	B9	6+6+6	B8-B9 Set 5 Sen 6. 0 8510 8518	
17	0 28 E	+43 08	0-1	6.40	A5	6+6+6	N Spec Bin. Set 5 Sen 7 8522 8535	fine
09	0 29 E	-2 15	0-1	6.68	B8	6+6+6	Hd. Ecl. Bin. <u>forgot to set at sens 7</u> Set 5 Sen 7 38 43.	fine
08	0 53 W	-24 45	0	6.2	B9	6+6+6	B8-B9 Set 5 Sen 7 45 57	
33	1 38 W	+43 10	1	6.40	A5	6+6+6	N Spec Bin. Set 3. Sen 7 59 71.	fine
						16/20	Set 8.	OK
							Sherry. Flashlight needs new batteries & light in camera box does not work. 2 PH's loaded Plates too narrow to fit tightly in PH's. - doesn't matter.	

Date *Thurs/Fri 14/15* Observer *- Pa F* Julian Day

[illegible]

Dome Temp. 53

Sat-9th

Transparency Conditions

Post

310

175 Visitors.

showed slides due to cloudy weather.

[illegible]

Date Fri/Sat June 4/5 1962 Observer vdB-Pu/L Julian Day

[illegible]

Dome Temp. 68° 700V no CO₂

Focus 15.49

Dome Temp.

Transparency Conditions Fine except Saw c: Low

high cloud in north at 0h30

in N. (moving up?)
almost full moon
2330 { Fine till now
then cloud moving in

Good night
unfaded
came

312

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	5					Natural c _g	trace disturbed
1 ^h 35E	-11°55'					Natural c _g	
1 ^h 25E						Smallest c _g	
1 10G						"	
0 35G						"	
0 35E						Natural c _g	
0 25G						"	
0 13E						"	
0 02G						"	
0 05W			60	g2v		MK standard	
0 23W			"			"	
0 23E			7.5	g0v		HV	
0 00			"			"	
00 ^h 33'E	-22°44'	0	~6.0	gK5	6-6-6	rdB hi vel. spectrosc. binary set 5' lens 7	8655 8671
01 ^h 02'E	+33°32'	0	8.0	A3	6-6-6	F Eclipsing binary set 5' lens 9	8672 8792
					20/16	set 9	

Solar J (u-B)

3PH's
Loaded

clouds danger to trace, prob. 0

c.v. 6 vi

[illegible]

Dome Temp. 71

Focus 15.54

Dome Temp.

Sat 16th.

150 Vuiton

Transparency Conditions Poor - very.

clouds & Bores

8 M3

314

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 3 00 42W	-23 30	0--	5.8	B8	6-6-6	set 5 - reverse clouds - too close to pin 88-89	8793 8796.3 fine
31 4 00 51E	+41 22	0--	5.9	B9	5-6-6	set 2 1/2 88-89	8798 8803 fine
08 4 00 40W	+41 22	0--	6.2	B9	6-6-6	set 6 88-89 (check under field)	8805 8810 fine
					20/16	set 9	OH
			8.3	K0		wrong field also to 14 00 7 7 late type	
						3 PH loaded.	
						0 ^h - clouds heavy except in zenith where less haze.	
						1 ^h - sky atrocious	
						2 ^h - clouds thickening in N & moving S.	
						- will close up.	

Observer

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26175	HD139160	15 31.5	-25 57	25"	IlaOb	oob	23	21:18	2158	1
26176	HD1551101	17 06.1	-27 38	25"	IlaOb	oob	23	22:13	2246	2
(26177)	HO 176318	18 54.6	+38 07	25"	"	"	22°	01:26	01:40	3
26176 F1	Focus Test									
F2 (OTA)										
Lat June 23-24 Cloudy - limited operation of telescope & slides ~ 130 visitors F, ME, C.										

Date Seen - Jun 24/62

Observer. *Gg*

Julian Day

[illegible]

Dome Temp.

All Clear - but some extinction? (Stratus NW horizon)
 Transparency Conditions b. windy.
 Stratus - low in S. - $22\frac{1}{2}^h$
 Good - 23^h

[illegible]

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

[illegible]

320

8043 20^h 44^m

8047 20^h 48^m

8048 20^h 50^m 20^s

8052 20^h 54^m 20^s

Ending Time
EST.

Focus tests

10 Right ① all the way 20° 25" 008
Prism in normal position

00
20

20 Move prism all the way N.
Move ① halfway up 16° 25" 008

Lucas

"Donut" push
Tuzzy pull

Hr - Hawker
vdb - van der Bergh
I - Innemann
MR - Mac Rae
Bk - Baker
Hd - Heard
F - Fitzgerald
Cr - Crampton
Fe - Ferrie
Mh - Macdonough
L - Longworth

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