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UBAF - GKM

①

3

Dome Temp.

ocus

Dome Temp.

Hour Angle
End

ome Temp.

Transparency Conditions

4

ocus

ome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						David Dunlap Observatory 74" Log book Vol # 31 Plate Nos. 26177 - 26730	

Dome Temp. 69 F

Transparency Conditions Good

6

Focus 16.46 (22.4 c)

15.61
15
15.46

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
022 E	-22° 14'	0	6.68	B8	6-6-6	Hd (SB) Y822 Aql. ret 2 sens 7 [?] (12) 8931 8936	l ok - g
01:00 E	+33° 31'	0	8.0	A3	6-6-6	F (SB) ret 2 sens 8 [?] (12) 8938 8950	l ok
01:59 E	+68° 09'	0 ⁺	7.8	B8	6-6-6	F (SB) ret 2 sens 8 [!] (12) 8952 8984	good
01:39 E	+62° 48'	1	7.8	B0 II	6-6-6	Hd (SB) Field count too fast! ret 2 sens 8 (12) 8966 8978	l ok guiding
00:32 E	+78° 00'	1-	6.5	B9	12-6	B8-B9 Prog ret 3 sens 6 (5) 8988 8991	fine
					20-16	ret 8	pl to re

1 PH loaded
2 plates + 4's in box

Note: Esouvan Meis scale seems to be 1 mag
out ; 12 counts used on sens 8 instead of 30
- based on time for HO 183794 from previous night

Jerry or Frank: Please check
setting match on exposure meter
I'm quite convinced it's not
set properly.

F

Jerry or Frank:
Vertical-Cross-hair-adjustment
on Finder is broken,
& Centre of * field is 5' N of
crosshairs — G.

7

Date Tu/Wa June 26/27 1962 Observer vob Julian 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.
1857-211	α CrB	15 33	+26 51		5/4/14	20		20 53	2x	
1858-211	α CrB	"	"		"	14		21 10	2x	
1859-211	α Boo	14 13 8	+19 23		4/5/28	14		21 30	44 → 34 2x	
1860-211	π 80	16 14.4	-22 53		8/5/40	28		21 50	2x + sky	
1861-211	π 4	16 20.9	-26 25		8/5/40	28		22 23	2x + sky	
1862-211	π 19	17 00.1	-26 12		8/5/40	28		22 55	2x + sky	
1863-211	NGC 6356	17 21.3	-17 46		8/5/40	28		23 27	2x + sky	
1864-211	NGC 6229	16 45.5	+47 36		8/5/40	28		00 03	2x + sky	
1865-211	α Lyr	18 35.6	+38 45		4/4/14	20		00 46	2x	
1866-211	π 56	19 14.5	+30 05		8/5/40	28		01 05	2x + sky	
1867-211	NGC 6934	20 31.9	+07 15		8/5/40	28		01 40	2x + sky	
1868-211	R 513	21 10.2	+17 35		7/4/21	28		02 15	2x sky 45-34	
1869-211	R 513	"	"		7/4/33	28		02 33	2x 45-34	
1870-211	R 480	19 50.3	+11 32		6/5/33	28		02 50	2x 45-34	
1871-211	R 480	"	"		"	"		02 50	2x 45-34	

Dome Temp.

Focus

Dome Temp.

CO₂ in 2015 EST

V 700V

Transparency Conditions very good, Wind strong, Polar air 8
2230 very fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0° 34 E		15"	2.21	AOV		Ext. ST.	NB
0 17 E		"	"	"		" "	<u>Auroral Lines</u>
1° 22 W		12" - 0.06		K2 II _p		MK ST	
0 15 E + 15 E			8.4	II		⊕ centring OK	
0 10 W + 0 10 W			7.4	IX		⊕ low STAS avoided	CO ₂ low
0 05 W) 0 02 W			8.3	VIII		⊕	
0 15 W + 15 W			9.2	II		⊕	
1 25 W + 1 45 W			10.3	IV		⊕ centring OK	
0 15 W			0.04	AOV		EXT. ST.	
0 00 + 0 20 W			9.6	X		⊕	
0 45 E + 0 25 E			10.0	XIII		⊕ secured	1/8 moon up 1:45
0 47 E			7.89	F9 VI		MK HV	
0 32 E			"	"		"	
1 04 W			5.78	S2 V		MK HV	
1 13 W			"	"		"	

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Date Wed June 27-28/62 Observer L - ^{Cn} ~~SB~~ Julian 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 Ang End
26182	HD 142301	15 48.7	-24 57	I-25	IIA0B	⁵⁴⁴ .008	23.3	21 40	22 10	2	0 23
26183	" 146001	16 08.8	-25 13	"	"	"	23.2	22 15	22 55	3	0 47
26184	" 165819	18 02.7	-25 29	"	"	"	23.1	23 20	00 04	4	0 03
26185	" 174853	18 47.5	+13 51	"	"	"	22.8	00 22	00 34	1	0 09
26186	" 183794	19 26.1	-2 19	"	"	"	22.6	00 43	01 15	2	0 09
26187	" 190030	19 57.9	+73 21	"	"	"	22.8	01 36	02 06	3	0 15
26188	217224	22 54.2	+67 52	"	"	"	22.8	02 19	3 27	3	1 13
Focus Test.											
at 3:30 EST ^{a satellite} into transited at declination +55°											

Dome Temp. +70°F

Focus 15.49

Dome Temp. +63°F

Transparency Conditions good

at ~ 1130 seeing poor
& very slow counting 10

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 23W	-25 09	0	6.2	B8	6-6-6	B8 B9 prog. Sens 7 { 8999 9013	fine
0 47W	-25 24	0	6.7	B9	6-6-6	" " " " " " { 9015 9029	fine
0 03W	-25 30	0	6.7	B8	6-6-6	" " " " " " { 9032 9046	fine
0 09E	+13 54	0-1	6.07	B9	6-6-6	" " " " " " { 9050 9064	fine
0 09E	-2 14	0-1	6.68	B8	6-6-6	V822 Aql. Hal. Ecl Bin " { 68 82	fine
0 15W	+73 27	0	8.5	F5	6-	Set 5 F Ecl. Bin. Too Slow to finish impossible to finish	ok
1 13 ^E	+68 07	0	7.8	B8	6-6-6	Set 8 F Ecl. Bin. Sens 8. 9090 9110	ok
						Set 2, Obtained only 20 counts instead of 30 due to dawn.	
						26187 is ok but unreliable	
						26189 is covered by Focus Test.	
						3PH loaded.	

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Thu - Fri

Date Jun 28-29/62

Observer F ^(Cm)
F ^(Gg) ^(I)
-F ^{Cn}

Julian 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.
—	L C B				5,4,32	28		21 33		
26189	HD 140283	15 37.8	-10 37	I-25	IIA ₀ B	set .008	25.4	22 17	23 25	4
26190	HD 190020	19 57.9	+73 21	I-25	IIA B	.008	25.3	23 44	01 50	1
26191 (	HD 217224	22 54.2	+67 52	I-25	IIa 0C	.008	25.4	02 17	02 55	E
26192 (	HD 204038	21 20.8	+33 16	I-25	IIa 0B	012	25.4	03:04	03 37	2
	FOCUS TEST									
<p>Echo 1? 00:35^h EST Dec 40° Travelling 10° N of E Mag 0 2:39^m 5^s Dec 48° " due E, W & E</p>										

Dome Temp. 71° FFocus 15.51

Dome Temp.

green + brown

Transparency Conditions

Fair (Spectrographically). 12.

22^h - a lot of [^] quack around the horizon, extinction in S.
0^h - excellent! above 200, - limit below (cannot see Milky Way)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
74W						CO ₂ - 20:30	
						Reversed Telescope.	
1 54 W	-10 45	0-1	7.68	F5 VI	6-6-6	le HV field checks. (30) set 3 lens 8	9115 9148 fine
0 02 W	73 26	0 ⁺	8.5	F5	6-6-6	F Edelbin. lens 9	9150 9270 fine - Laguerre
1 55 E	+68 07	1 ⁺	7.8	B8	6-6-6	F Edelbin. set 2 lens 8	9272 9302 fine
0 24 W	+33 28	2	8.0	A3	4 ^{1/2} -4 ^{1/2}	F Edel. Bin. field checks set 6 lens 8	9304 9308 fine etc to vi
						04:12 set on Jupiter 2 22 58.1 by righting 8 - 08 06 extremely clear. sketched in Field Book.	
						2 PH loaded. Flashlight almost burnt out.	

Dome Temp. 81°

Focus 15.55

Dome Temp.

Transparency Conditions Partly clear C.A. Str.
Alos. about 2 magⁿ in zenith

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ing Time
S.T.

R.F.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

34 3

23 37

0

5.9

B.9

6-12

B8-B9

lit 5 9348
series 6 9353

wh

2 counts in 1^m40^m - gave up!

3 PH loaded

15

Date Sat/Sun June 30/Jul 1

Observer ^{CN} _{PH} ^{vclB}

Julian Day

add 57^m
70 + these
Times

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
1872-212	LCrB	15 33.0	+26 51		4-6-14	14		21 15	2x	
1873	NGC 6229	16 45.9	+47 36		8-5-41	28		21 47	2x + sky	
1874	M14	17 35.5	-03 15		8-5-41	28		22 18	2x + sky	
1875	M28	18 21	-24 53		8-4-41	28		22 48	2x + sky	
1876	LCrB	18 33.8	+38 45		4-5-14	28		23 24	2x	
1877	"	"	"		"	20		23 40	2x	
1878	Saturn disk				4 5-14	28		00 22	2x	
1879	" br. satel.				7 5 21	28		00 40	2x + sky	
1880	NGC 6934	20 31.9	+07 13		8 5 41	28		01 27	2x + sky	
Echo seen approx 2400 EDT 1 - Pegasus										

Dome Temp.

700 V

Focus

CO₂ 1^h before obs

Dome Temp.



Transparency Conditions

22^h than 'gust' low in north, rest of sky good. Strong N. wind.

(16)

114 Visitors shamed E. Bod. & M.S.

21:45 sky looks much better
23:00 " " " OK2350 clouds to 30° alt in SE
Quality

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 03 ^m W		5"	2.21	A0		Star of century poor on return	
0 17 W	0 35 W		10.3	IV	⊕	C.	
0 00	0 10 W		9.4	VIII	⊕		
0 10 E	0 00 W		8.5	IV	⊕		
0 08 W		10"	0.04	A0	V	Star of century 2 ^d + true danger from two isolated cloud patches	
0 24 W		10"	"	"	"	" 4 th - clouds show on trace	
1 10 E	-15° 22'					 danger isolated 4 th cloud	
0 50 E							
0 20 W	0 35 W		10.0	VIII	⊕	sky looks fine, no more clouds sky some danger from twilight, but probably OK c.p. 1867 NB. Voltage left on EXP. M. cloudy ENTIRE NIGHT	

17

Sunday observed
add 57^m to T
and to T sid

3

These times
are correct.Date Sun. Mon., July 1-2, '62Observer JDFpu- F

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
26193	HD 159 358	17 29.2	-11 10	I-25	Ilco 0b	.008	24°	22:29	23:00	1	00° 12'
26194	161 701	17 41.9	-14 42	"	"	"	"	23:15	23:51	2	00 28'
26195	182 618	19 20.4	+27 53	"	"	"	24° 0	00:02	00:34	2	00 28'
26196	1900 20	19 57.9	+73 21	"	"	.016	24° 2	00:58	03:12	3	01 36'
26197	198 513	+20 45.7	+51 32	"	"	.008	"	03:23	03:31	4	-
26198	199 578	+20 53.1	+50 41	"	"	"	"	03 26	03:46	4	01 13'
	FOCUS TEST										
26197	has faint companion $\frac{1}{2}'$ away from it.										
	Bar for adjusting 8 slow motion is close to end. It should be run back before starting - only noticed it as I was leaving F.										

Dome Temp. 70° F

Focus 15.49

Dome Temp.

Transparency Conditions Very poor

Considerable cloud, especially in
south & west
00:15 improving esp in N & zenith.

18

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
00	00h 12m E	-11° 16'	0	5.51	B8	6+6+6	B8-B9 Program Both clocks advanced 57m	7 9369 9381	fine
01	00 28W	-14 45	0-	6.05	B9	6+6+6	ditto	7 9383 9395	fine
02	00 26E	+27 58.	0	6.31	B8	6+6+6	"	7 9398 9410	fine
03	01 36W	+73° 27'	0+	8.5	F5	4+2+3	F Ed Bin (SB)	9 9413 9533	fine
04	—	+51 47	1-	6.26	B9	6+6+6	B8-B9 Program	7 9539 9551	fine
06	01 13W	+50 54	1	6.30	B8	6+6+6	" " "	7 9554 66	fine
							set 8 1/2		OK
4 PHs loaded WITH 10300 Plates							only Fast match in faulty. Old wild work F.	R.A. clamping switch seems faulty - unclamping o.k. Usual manual adjustments made, but to no avail - JDF	
E.S.T 00 Echo reported seen in S.E. from Scarborough rising N.W. 22 Pu							Echo reported seen in S.E. from Scarborough at about 22:20 EST.		

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July

Date ~~JUNE~~ 3-4/62

Observer S-L-Sg-Hr Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
26199	NGC 6218	16 45.1	-01 53	NEWT	103aO			21 26	21 28	18 00 48E
26200	" 6254	16 55.0	-04 03	"	"			21 32 ¹⁰	21 34 ¹⁰	2 00 52E
26201	" 5634	14 27.5	-05 48					21 42	21 52	1 01 54W
26202	" 5897	15 15.2	-20 51	"	"			21 58 ³⁰	22 08	2 01 22W
26203	" 6402	17 35.5	-3 13	"	"			22 21 ³⁰	22 31	1 00 35E
26204	6356	17 21.3	-17 47	"	"					
26204	" 6402	17 35.5	-3 13	"	"			22 41 32	22 46 32	2 06 20E
	Seq 61	17 01.4	+29 55	"	"			22 51 44	22 56 44	2 00 25W
26205	61	17 01.4	+29 55	"	"			23 00 16	23 07 16	1 00 25E
	NGC 6402	17 35.5	-3 13	"	"			23 11 34	23 18 34	1 00 12W
26206	" 6356	17 21.3	-17 47	"	"			23 22 32	23 30 32	2 00 32W
26207	" 6402	17 35.5	-3 13	"	"			23 46 57	23 54 57	1 00 49
	Seq 61	17 01.4	+29 55	"	"			00 03 32	00 11 32	2 01 39
26208	NGC 6356	17 21.3	-17 47	"	"			00 18 50	00 26 50	1 01 30
26209	6649	18 31.2	-10 30	"	"			00 32 ³⁰	00 44 ³⁰	2 00 04
26210	6402	17 35.5	-3 13	"	"			00 48 ²⁰	00 58 ²⁰	1 01 50

Dome Temp.

ADD 6' TO DEC. READING

Transparency Conditions

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Focus

Dome Temp.

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXPT -Comp-	REMARKS	Quality
128	0048E					2 ^m	Focussed on α SER.	
34 ¹³	0052E					2 ^m		
52	0154W					10 ^m		
08	0122W							
31	0035E					10	Focussed on λ OPH. NOT CHANGED	
45 ²⁰	0020E					5 ^m	Golf lights out at $\sim 22^h 30^m$	
52	0025W					5 ^m		
0116	0025W					7 ^m		
3/234	0012W					7 ^m		
3052	0038W					8 ^m		
5457	0049W					8 ^m		
1132	0139W					8 ^m		
2652	0135W					8 ^m		
344 ²⁴	0043W					12 ^m		
058 ²⁹	0152W					10 ^m	Focussed on δ Aql (focussed improved)	

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JulyDate June 3-4/62 Observer S-L-Sg-H Julian Day.....

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
✓ 26211	Seq 61 NGC 6934	17 01.4	+29 55	NEWT	10360			01 14 50	01 22 50	2
		20 32.2	+ 7 16	"	"			01 28 10	01 36 10	2
' 26212	6838	19 51.7	+18 39	"	"			01 44 49	01 47 49	1
' 26213	6626	18 22.1	-24 54	"	"			01 54 36	02 00 36	6
' 26214	6656	18 33.9	-23 58	"	"			02 06 20	02 10 20	1
' 26215	6712	18 50.8	- 8 46	"	"			02 15 40	02 23 40	1
' 26216	6934	20 32.2	+ 7 16	"	"			02 28	02 40	1
' 26217	6838	19 51.7	+18 39	"	"			02 45 00	02 48 00	2
' 26218	7089	21 31.4	-01 00	"	"			02 55 15	02 55 45	1
' 26219	{ 21 ^h 46.3 29° 32'	21 46.3	+29 32	"	"			03 06	03 11	1

Add 6' to den rdg

Dome Temp.

Transparency Conditions

22

Focus

Dome Temp.

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXP T. -Comp.	REMARKS	Quality
22 50	02 52 W					8 ^m		
36 15	00 22 E					8 ^m		
47 49	00 25 W					3 ^m		
00 36	02 ^h 08 ^m W					6 ^m		
10 20	—					4 ^m		
22 23 40	02 ^h 03 ^m W					8 ^m		
02 40	00 38 W					12 ^m		
02 48 00	01 25 W					3 ^m		
25 54 5	00 05 E					1/2 ^m		
31	00 10 E					5 ^m		

This night is an excellent test for fogging from ground light. Transparency perfect and sky cloudless except for slight haze close to horizon. Seeing very good most of time. 175 #.

23

Date July 4-5/62 Observer S-Sq-Hr Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
'26220	NGC 6218	16 45.1	-01 53	NEWT	E103a0			22 37 ⁴⁰	22 41 ⁴⁰	1	00 30
'26221	6254	16 55.0	-04 03	"	"			22 46 ¹⁰	22 50 ¹⁰	2	00 28
'26222	6402	17 35.5	-3 13	"	"			22 55	23 07	1	00 58
'26223	6093	16 14.7	-22 54	"	"			23 15 ⁰⁰	23 21 ⁰⁰	2	0 39
'26224	6356	17 21.3	-17 47	"	"			23 25 ¹⁰	23 33 ¹⁰	1	—
'26225	6402	17 35.5	-3 13	"	"			23 37 ⁰⁰	23 45 ⁰⁰	2	00 ^h 38
	Seq 61	17 01.4	+29° 55	"	"			23 50 ⁴³	23 58 ⁴³		01 30
'26226	6356	17 21.3	-17 47	"	"			00 ^h 05	00 15	1	0. 23
26227	6544	18 05.4	-25 01	"	"						
'26227	6402	17 35.5	-3 13	"	"			00 21 ²⁵	00 35 ⁴⁵	2	—
'26228	6544	18 04.9	-25 01	"	"			00 42 ¹⁵	00 54 ¹⁵	1	0 19
'26229	6934	20 32.2	+7 16	"	"			00 59	01 11	2	00 52
'26230	6838	19 51.7	+18 39	"	"			01 15 ⁴⁰	01 19 ⁴⁰	1	00 02
'26231	6626	18 22.1	-24 54	"	"			01 25 ⁴⁰	01 31 ⁴⁰	2	01 38
'26232	6656	18 33.9	-23 58	"	"			01 36 ³⁰	01 40 ³⁰	1	01 40
'26233	6712	18 50.8	-8 46	"	"			01 48 ¹⁵	01 56 ¹⁵	2	01 35

Add 6' to dec readings

624

Dome Temp.

Transparency Conditions

Focus

FROM TIME OF 1ST PLATE GOLF LIGHTS OUT.

Dome Temp.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Ex.T. Comp.	REMARKS	Quality
41 ³⁰	00 30 W					4 ^m	FOCUSSED ON ARCTURUS; FOCUS	
50 ¹²	00 28 W					4 ^m	HARDLY CHANGED FROM LAST NIGHT	
07 ¹	00 05 W					12 ^m	Focussed on θ OPH (NO CHANGE)	
21 ⁰	01 39 W					6 ^m		
33 ¹	—					8 ^m		
45 ⁰	00 ^h 38 W					8 ^m		
53 ⁴	01 30 W					8 ^m	Lights at cement plant out at 23 58	
15	01 23 W					10 ^m		
035 ⁴	—					14 ^m		
54 ³	01 19 W					12 ^m	Possible aircraft in field?	
11	00 52 E					12 ^m	→ Sky in this region much darker than	
19 ⁴⁵	00 02 E					4 ^m	in previous region.	
31 ⁴⁰	01 39 W					6 ^m		
40 ³⁰	01 40 W					4 ^m	↳ Poor sky in this area	
56 ¹⁵	01 35 W					8 ^m	↳ Focus on θ Aql - no change (very good)	

Dome Temp.

Add 6' to dec readings

Transparency Conditions

26

Focus

Dome Temp.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Fx.T. Comp.	REMARKS	Quality
17	0105W					6 ^m	Guided - by Sq.	
35	0032W					12 ^m		
35	0126W					4 ^m		
3	0010E					10 ^m	Guided - by Sq.	
9	0008W					1/2 ^m		
							Totally cloudy first hour of night - then gradually clearing, but neither transparency nor seeing as good as last night. HSH.	

27

Date July 5-6/62 Observer S-Sg-Hr Julian Day

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Ang End
26239	NGC 6218	16 45.1	-1 53	NEWT.	103a0			21 54 55	21 56 55	1	00 15
26240	" 6254	16 55.0	-4 03	"	"			22 00 50	22 02 50	2	00 20 E
26241	" 6366	17 25.6	-05 02	"	"			22 52	23 04	1	00 17 W
26242	" 6535	18 01.8	-00 18	"	"			23 09 ³⁰	23 23 ³⁰	2	00 05 E
26243	Gaseous Neb Penner 28	20 16.3	+39 13					23 36	23 46	1	01 53 E
26244	Penner 27	20 11.1	+35 49					00 03	00 08	2	01 26 E

Add 6' to declination readings

Transparency Conditions

28

Dome Temp.

Focus

Dome Temp.

g Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Exp time Comp.	REMARKS	Quality
5655	00 15 E					2 ^m	Focussed on α Ser - focus very good	
0259	00 20 E					2 ^m	Heavy haze Ready to start at 21:15 but	
4	00 17 W					12 ^m	waited for cluster to come out of skylight	
2	00 25 E					14 ^m	Very poor night. and haze. 25 never really did.	
40	01 53 E					10 ^m	Guided by Sg	
04	01 26 E					5 ^m	Guided by Sg light got worse all the time, almost totally cloudy	

31

5-7

Date Fr/Sat July 8/9 1962 Observer VB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
1881-213	α Boo	14 13.8	+19 23		5/3/24	28		20 47		
1882	α Boo	14 13.8	+19 23		5/4/24	20		20 58		
1883	δ Boo A	15 14.0	+33 27		6/4/24	28		21 13		
1884	δ Boo A	15 14.0	+33 27		6/4/24	28		21 23		
1885	ρ Cr B	15 59.5	+33 26		6/5/24	28		21 30		
1886	ϵ Cr B	15 55.9	+27 00		6/5/24	20		21 50		
1887	ϵ Cr B	15 55.9	+27 00		6/5/24	28		22 00		
1888	R 394	16 28.6	+04 19		7/5/24	28		22 14		
1889	R 394	16 28.6	+04 19		7/5/36	28		22 26		
1890	72 Her	17 19.2	+32 32		7/3/24	28		22 41		
1891	99 Her	18 05.5	+30 33		7/3/24	28		22 55		
1892	99 Her	18 05.5	+30 33		7/3/24	28		23 06		
1893	R 441	18 14.7	-03 02		7/4/24	28		23 20		
1894	R 441	18 14.7	-03 02		7/4/24	28		23 30		
1895	16 Cyg B	14 40.9	+50 25		7/4/24	28		23 49		
1896	"	"	"		"	"		23 57		

Dome Temp.

Focus

Dome Temp.

NO CO₂ USED
700 V

Transparency Conditions

Not p.e but probably
good enough for photography 132g Time
ST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1'18 E		15"	0.06	K2III _p		HV Δ	
1'29 E		13"	"	"		"	
0'41 E		10"	3.50	S 8 III		MK Δ	
0'51 E		10"	"	"		"	
0'22 E		5"	6.0	S 2 V		MK Δ	
0'40 E		5"	4.15	K 3 III		MK Δ	
0'50 E		5"	"	"		"	
0'32 E		5"	7.3	F 9 V		HV Δ	
0'44 E		5"	"	"		"	
0'07 E			6.0	S 0 V		HV Δ	
0'22 E			5.0	F 7 V		MK Δ	
0'11 E			"	"		"	
0'10 E		4"	6.0	S 8 III		HV Δ	
0'00			"	"		"	⊕
1'06 E			6.20	S 5 V		MK Δ	
0'58 E			"	"		"	

35

July 7-8 ✓ ✓

Date Sat/Sun Time 9/10 1962 - Observer I v B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
1897-214	NGC 6229	16 45.9	+47 30		8/5/40	28	22 47	2x + 15m		0 53V
1898	1728	18 27.1	-24 54		8/5/40	28	23 21	2x + 15m		0 10E
1899	2 Lyr	18 35.6	+38 45		4/4/44	28	23 53	2x		0 10W
1900	1756	19 14.9	+30 05		8/6/40	28	00 18	2x + 15m		0 05E
1901	1771	19 51.7	+18 40		8/6/40	28	00 55	2x + 25m		0 05E
1902	1771	19 51.7	+18 40		8/6/40	28	01 35	2x [use 1901 SW]		0 35W
1903	NGC 6934	20 31.9	+07 15		8/5/40	28	01 59	⊙ SKY ⊙		0 29

Dome Temp.

Focus

Dome Temp.

CO₂ in 2100

V = 700

Transparency Conditions

Tropical air, sky 'light', no clouds, looks pe (probably) 36

180 VISIONS of Herschel

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 53 W	+01 05		10.3	IV	--	⊕	
0 10 E	+02 E		8.5	IV		⊕	perhaps unwise to work this far south on 'light' nights
0 10 W		5"	0 04	ΔOV		Standard	0005 thin clouds 30° ALT in S.
0 05 E	+01 0 W		9.6	X		⊕	clouds due to second half of trace
0 05 E	+15 W		8.3	—		⊕	a few bright stars avoided (clouds seen to have gone away)
0 35 W			8.3	—		⊕	sky looks OK
0 20 W			10.0	VIII		⊕	

Dome Temp.
 Focus 15.44
 Dome Temp.

Transparency Conditions ^{good}
 00:05 clouds in NSW.
 00:40 " few, thin scattered over whole sky
 02:00 Perfect!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 3 33	+17 40	1-0	7.9	F ₉ V	6-6-6	SEHV sens 8 9604 9640	good
E 2 54	+33 29	1-0	8.0	A ₃	6-6-6	F Ecl. Bin. sens 8 9643	lwk
W 0 17	+73 29	0+	8.5	F5	2-4-3	F Ecl Bin ^{ret 3} (field as given) sens 8 9675 9705	fine.
W 0 152	+52 07	0+	5.8	B9	6-6-6	B8-9 Proj ret 3 sens 6 9708 9713	
W 02 06	+41 22	0+	5.9	B9	6-6-6	" ret 3 sens 6 9714 9719	strong
E 01 00	+68° 10	0+	7.8	B8	6-6-6	F Ecl Bin (field as given) ret 3 sens 8 9721 9753	strong
W 02 38	+38 17	0+	5.6	B9	9-9	B8-9 Proj (or star) ret 3 sens 6 9755 9760	strong
W 02 45	+47 35	0	6.6	B8	6-6-6	B8-B9 Proj (field checks) ret 6 sens 6 9761 9766	strong
					20-16	ret 10	
4 PH's loaded J a o 8 - 4 in box.						→ Harry #26269 broken unloading - it is at opposite end of box.	
						02:50 Meteor my 0 from NNE to S - 20° arc.	
						Ecl 21:33 EST WSW - ENE at 45	
						23:38 EST W - ESE at +47°	
						→ Harry from a little too side F	

39

Date Wed July 11-12/62 Observer Hpl - Jst Julian Day

Plate No.	Object	R.A. 1900 (1961)	Declination 1900 (1961)	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
26254	HD 114762	13 10.5	+17 44	I-25	IIA08	008	26.9	20:53 21:00	22 16	1	W 4
26255	HD 159358	17 29.2	-11 10	"	IIA0 B	008	26.9	22 23	22 41	2	W 10
26256	HD 161701	17 41.9	-14 42	"	IIA0 B	"	26.9	22 51	23 17	3	W 32
26257	HD 170200	18 23.1	+6 08	"	"	"	27.0	23 27	23 57	4	W 32
26258	HD 183227	19 23.4	+2 43					80 05		1	

Dome Temp. 78
 Focus 15.54
 Dome Temp.

Transparency Conditions *Very poor* 1 haze + clouds 40

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+17 43	-	7.9	Fg V	6	at 5 ³⁰ Ge HV. Focus not set, runs 8 9768 clouds runs 8 9771 9805	<i>fine</i>
W 4 06		2			6-6-6	set 8	
W 10 ^m	-11 15	-1	5.51	B8	6-6-6	" 5 B8-B9 perig. runs 6 9807	<i>strong</i>
W 32 ^m	-14 44	1	6.05	B9	6-6-6	" 5 B8-B9 " runs 6 9816	<i>strong</i>
W 32 ^m	+06 07	0	5.57	B8	6-6-6	" 5 B8-B9 runs 6 9822	<i>fine</i>
			5.90	B9	6	" 5 B8-B9 runs 6 9823 9828 9830	

0015 cloud front approached
 from N-W. - seemed like
 rain + cleared up.

3 PH's loaded.

Est I crossed meridian 9:58 EST WSV - ENE Ecut

41

Date *Th-Fri July 12/13/62* Observer *F - HV* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26258	H.D. 159358	17 29.2	-11 10	J-25	II-a90	008	25.3	21 47	22 03	2
26259	H.D. 161701	17 41.9	-14 42	"	"	"	"	22 13	22 37	3
26260	H.D. 204038	21 20.8	+33 16	"	"	"	25.2	22 50	01 12	4
26261	" 190020	19 57.9	73 21	"	"	016		01 35*	02 40	1
26262	" 209288	21 57.1	+10 29	"	"	008	25.0	03 11	03 37	2
} <i>Floures Test, O.T.B.</i>										

Dome Temp. 710 F

Focus 15.51

Dome Temp.

Transparency Conditions poor around horizon
OK for zenith - Moon very bright
23^h 0^m by atom in E

42

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 2 00 49 E?	-11 14	0-	5.5	B8	6-6-6	ret-3 B8-B9 Prog. #5 9836	Extremely
37 3 00 03 E	-14 44	0	6.0	B9	6-6-6	ret-5 B8-B9 Prog. #5 9841	fine
12 4 01 06 E	+33 30	0+	8.0	A3	6-6-6	ret-5 F Ecl Bin Field Check. #5 9851	fine
—	+73 29	1	8.5	F5	3-6	" 5 F-Ecl. BIN. AFWAP #9 9963	fine
37 2 00 42 W	+10 45	0-1	6.31	B8	6-6-6	" 5 B8-B9 Prog. #6 0020	Extremely
					20/16	" 9 #6 0025	pen on
2 P.H. loaded IIaOb. in frige							
NEW BATTERIES FOR DOME							
FLASHLIGHT NEEDED.							
26260 - looked red '11 23:10 the blue! 9868ch							
E. to see - by phone at ~ 9.10 2/1.13							

Dome Temp. 63°

Focus 15.46

Dome Temp.

Transparency Conditions

clouds low in south, 1244
 clear at dawn, west
 started to sound faster

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
00 31 E	+42 30	0	6.04	B8	6-66	B8-B9 Program	let's level 0031 43	good
00 21 E	-14 03	0	8.6	F8	4 1/2 - 4 - 4 1/2	side XV main field plotted	let's level 0046 190	fine WP. STAR
					20-16		let 9	trans OK
						STAR. in HD. 219702	2312.0 -1403	KO
						set on 217312 but couldn't lock guiding eyepiece		
						3PH's loaded		
						New batteries for dome flashlight needed.		

45

Date Sat-Sun July 14/15 Observer MP
F-F Julian 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.
26265	HD 17 ⁰²⁰⁰ 020	18 23.1	+06 08	I-25	UaOB	008	23.5C	22 57	23 11	1
26266	170973	18 27.1	+03 35	"	"	"	23.5C	23 16	23 46	2
26267	171247	18 28.6	+08 12	"	"	"	23.6C	23 50	00 14	3
26268	190020	19 57.9	+73 21	"	"	016	23.3C	00 26	02 26	4
26269	217312	22 54.8	+62 32	"	"	008	23.4C	02 37	03 15	1
26270	217 224	22 54.2	+67 52	"	"	016	23.3C	03 20	04 04	2
	FOCUS TEST					016				
						008				

Dome Temp. 66°F

Focus 15.48

Dome Temp. 59°F

23.5

63
45
48

Transparency Conditions

POIV - Heavy clouds
170 visitors showed 5 Here

7.46

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11	00 03W	+06 08	0 ⁻	5.57	B8	6-6-6	ret 3 B8-9 Proj (Field checks) sens 6 ⁵ 0203 0208 0209	fine
2	00 29W	+03 36	0	6.32	B9	6-6-6	ret 3 " sens 6-5 0214 0216	fine
4	00 55W	+08 13	0 ⁺	6.21	B8	6-6-6	ret 3 " sens 7 ¹² 0228 0232	fine
26	01 41W	+73 28	0 ⁺	8.5	F5	3-3-3	ret 3 F6L Bin (Field checks) sens 9 ²⁰ 0334 0338	fine
1	00 29 E	+62 49	0-1 ⁺	7.8	B ₀ IV	6-6-6	ret 3 Hd (SB) (" ") sens 8 ³⁰ 0368 0369	fine
2	00 20W	-68° 10	1-2 ⁻	7.8	B8	3-3-	ret 3 F6L Bin (" ") sens 8 ³⁰ 9373 10-8 ret 6 20-16 ret 9	fine (in work)
							3PH's loaded	
							Dome flashlight - needs new batteries, oh ends letter	

47

Sun

Date July 15-16/62

Observer - Hv

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	^{22.4} Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
262715	HD 204038	21 20.8	+33 16	I-25	IIaOb	008	22.2°	0049	0400	3
	Focus Test		0713							

Dome Ten

Focus

Dome Ten

Hour Angl
Epd

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

$$\begin{array}{r} 15.61 \\ 15 \\ \hline 5.46 \end{array}$$

Transparency Conditions OCCASIONAL PASSING CLOUDS

48

Focus 15.46

Dome Temp.

Time T.	P.H.	Hour Angle Epd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3		20 W	30 31	0	8.0	A3	6-6-6	Set. 5 Ecc. Bin. (F.) #9 ⁰⁴⁰³ #9 ⁰⁵⁰⁹	fine alt to v
							20/16	" "	
								2. P. H. loaded	

49

Date July 16-17/62 Observer Hd Pu - F Pu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26272	HD 144334	16 00.2	-23 20	F-25	IIA0B	.008	24.3	20:48	21:18	4
26273	HD 147850 ⁵⁴	16 17.5	-1 51	"	"	"	24.1	21 24	21 42	1
26274	HD 152909	16 51.2	-19 22	"	"	"	24.1	21:47	22 27	2
26275	HD 159358	17 29.2	-11 10	"	"	"	24.2	22:34	22 48	3
26276	HD 161701	17 41.9	-14 42	"	"	"		22 53	23 13	4
26277	HD 170200	18 27.1	+06 08	"	"	"	24.2	23 19	23 27	1
26278	HD 170975	18 27.1	+03 35	"	"	"	24.0	23 32	23 54	2
26279	HD 171247	18 28.6	+08 12	"	"	"	24.0	23 58	00 14	2
26280	HD 185330	19 33.5 ^{net 36.1}	+38 10	"	103a0	"	24.3	00 25	00 42	1
26281	HD 187235	19 43.9 ^{net 47.4}	+38 09	"	"	"		00 58	01 08	1
26281 F	FOCUS TEST			"	103a0	008	23.9	01 25		1
								2	IIA0B	PH
		4:20	Clouds <u>Solid</u> moving from N closing up							
								2220	P. 2220	
	Flashlight needs new batteries.									GFRRY: We need IIA0B plates

Dome Temp. 70F
 Focus 15.49
 Dome Temp. 63.0F

Transparency Conditions

50

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18	00:35	-23 31	0	5.8	B8	6-6-6	out 5 B8-B9 prog. sens 6	0518 0522 fine
42	W 0 40	-2 02	1	6.09	B9	6-6-6	Set 5 " " sens 6	0523 0527 fine
27	W 0 58	-19 31	1	7.0	B8	6-6-6	" 5 " " Brighten of pair, sens 7	0528 fine
48	W 0 36	-11 16	1	5.51	B8	6-6-6	" 5 " " sens 6	0541 0545 fine
13	W 0 48	-14 45	1-2	6.05	B9	6-6-6	" 5 " " sens 6	0546 0550 fine
27	W 0 22	+6 09	1	5.57	B8	6-6-6	Set 5 " " sens 6	0552 0556 fine
54	W 0:45	+03 36	1-2	6.32	B9	6-6-6	Set 5 sens 6	0558 0562 fine
14	W 1 03	+08 11	0-1	6.21	B8	6-6-6	Set 8 sens 6	0563 0567 fine
42	W 0 27	+38 17	1	6.3	B8	6-6-6	Set 3 NSE & set way off!! Full disk sens 6	0570 0578 fine
49	W 0 42	+38 17	2	5.6	B9	9-9	Set 6	0578 fine
						20/16	Set 5	fine OK

Loaded.

Dark Precision on HD 185330

due to meter.

FRANK!

Echo I seen ~ 9:55 W-E

Echo I seen ~ 11:55 W-ESE with

00 50 - Exposure Meter won't work.

NO 2500 CLEAN CE

from Mark

Dome Temp. 72° F

Focus 15.51

Dome Temp.

Transparency Conditions

Very poor 52
2:00 Bright moon at meridia

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 3	W 0:56	-23 31	0	5.8	B8	6-6-6	mt B8-B9 mag. sens 6 0860 0863	ok
09	E 053	+03 36	0	6.32	B9	6-6-6	mt 5 " " sens 6 0864 0868	fine
32	E 030	+08 11	0	6.21	B8	6-6-6	set 5 " " sens 6 0869 0874	good-fine
52	E 016	+52 08	2	5.83	B9	6-6-6	" 5 " " sens 6 0575 0380	fine
1	W 013	-02 14	0	6.68	B8	6-6-6	" 5 7 Ecl. Bin. sens 7 50882 0897	good fine
33	0 41 W	+02 49	0	5.90	B9	6-6-6	set 5 B8-B9 sens 6 898 903	fine
02	0 55 W	+38 16	0-1	6.33	B8	6-6-6	" 5 " (field checks) sens 6 904 909	fine
30	0 44 W	+47 36	0	6.55	B8	6-6-6	" 5 " " 1 sens 6 910 916	fine
2 59	0 28 E	+68 09	0	7.8	B8	6-6-6	" 5 F Ecl. Bin. Sens 7 919 934	good-fine
3 30	0 17 E	+45 14	0	6.30	B9p	6-6-6	" 5 B8-B9 20 sens 6 937 942	fine
58	0 28 E	+59 46	0	6.37	B8	6-6-6	" 5 " 20 sens 6 943 948	fine
						" 9		fine

Ecl I ~ 10:16 W - E not zenith

IPH loaded with HaO

Dome Temp. 71 FFocus 15.51

Dome Temp.

Transparency Conditions Scattered Cloud all over 54
better 23:30Worse 23:55, rising from W.
01:00 78°, Cloud (Thin) !
01:30 Improving !

02:30 clouds from N again.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 23 W	+03:36	0	6.32	B9	6-6-6	B8-9 Prog	Sanib 954 58 good
0 45 W	+08:12	0	6.21	B8	6-12	"	59 84.5 fine
0 28 W	+02 49	0	5.9	B9	6-6-6	"	85 70.5 good
1 05 W	+38 16	0-	6.3	B8	6-6-6	" field ok Set S	0972 77 fine
1 01 W	+47 36	0+	6.6	B8	6-6-6	" field checks Set S	0978 0973 fine
1 10 W	+70 33	1-2	8.5	F5	3-6	Fed by Field Checks <u>Revised Telescope</u>	Sanib 1017 0985 v. wk focus OK
						1.30	Pos. by star - all good in S. 11.
						2.40	Clouded out - looks like rain
		2 PH's	Loaded				1100
<div data-bbox="903 1286 1978 1507" data-label="Text"> <p><u>Thu July 19</u> Too Cloudy at 21:30. Opened up at 22h, Fuse for Shutters <u>blew</u>. <u>There is only ONE good Fuse Left</u> - Gg. 40% Cloud at 22h. f.</p> </div>							

Dome Temp. 60 OF
 Focus 15-49
 Dome Temp.

7^h 30^m Moonlight reveals
 light cloud moving in
 00^h seeing poor!
 transparency terrible!
 02^h heavy dew

Transparency Conditions Good.
 170 visitors: showed M13 to each
 group

56

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
014	E	+13° 53'	0	6.07	B9	6-6-6	B8-B9 program set 5. Sen 7 1028	fine
017	W	+17 55	0	6.39	B9	6-6-6	(field check) B8-B9 program set 5. Sen 7 1040	fine
010	W	+35 06	0-	6.24	B8	6-6-6	B8-B9 program set 5. Sen 6 1044	fine
036	W	+27 59	0-	6.31	B8	6-6-6	" " " " set 5. Sen 6 1057	fine
125	E	+10 46	0-	6.31	B8	6-6-6	" " " " set 5. Sen 7 1059	fine
014	E	+42 31	0-	6.04	B8	6-6-6	" " " " set 5. Sen 7 1063	fine
024	E	+78 01	0-	6.48	B9	6-6-6	" " " " set 5. Sen 7 1065	fine
043	E	+44 14	0-	6.30	B8	6-6-6	" " " " (field check) set 5. Sen 7 1067	fine
042	E	+59 46	0-	6.37	B8	6-6-6	" " " " set 5. Sen 7 1072	fine
						20/16		fine
							3 PH loaded	fine

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Date Mon July 23-24/62 Observer Hd ml Julian Day 234.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26308	HD 204038	21 20.8	33 16	I-25	ILAO B	.012	+16.0	22 ^h 38 ^m	23 44	2
1904-215	α Lyr.	18 35.6	+3845		4/4/33	28	00	00 08	27	
1905-215	16 Cyg B	19 40.9	+5025		6/5/33	28		00 26	27	
1906-215	16 Cyg B	19 40.9	+5025		6/5/33	28		00 46	27	
1907-215	16 Cyg A	19 40.9	+5025		6/5/33	28		00 57	27	
1908-215	16 Cyg A	19 40.9	+5025		6/5/33	28		00 07	27	
1909-215	M 30	21 37.7	-23 24		8/5/40	20		01 30	27	
1910-215	R 536	22 15.3	+12 41		6/6/33	28		02 04	27	
1911-215	R 536	22 15.3	+12 41		6/6/33	28		02 19	27	
1912-215	61 Cyg A	21 05.0	+38 30		6/5/33	28		02 35	27	
1913-215	61 Cyg A	21 05.0	+38 30		6/6/33	20		02 45	27	
1914-215	61 Cyg B	21 05.0	+38 30		6/6/33	28		02 55	27	
1915-215	61 Cyg B	21 05.0	+38 30		6/6/33	28		03 05	27	
1916-215	51 Peg	22 55.6	+20 30		6/5/33	28		03 16	27	
1917-215	51 Peg	22 55.6	+20 30		6/5/33	28		03 26	27	

Dome Temp. 56 F

Focus 15.37

Dome Temp.

CO₂ in 2300

700 V

Transparency Conditions

Very Fine, polwariv
D 21d old

58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 51	33 30	1	8.0	A3	4-4-4	set 5 F Ed. Bin.	1148 11:00
01 25 W		5"	0.0	A0V		2 Lyr standard	fine
04 48 W			6.20	g5V		Δ Pray - MV	
05 58 W			6.20	g5V		Δ Pray MV	
10 9 W			5.9	g2V		Δ Pray MV	
11 9 W			5.9	g2V		Δ Pray MK	
04 10 W			8.0	∇		⊕ recaptured (hit ladder)	
01 15 E			7.03	g2V		Δ Pray HV	
00 05 E			7.03	g2V		Δ Pray HV	
12 5 W			5.6	K V		Δ Pray MV	
13 5 W			5.6	K V		Δ Pray MK	
14 5 W			6.3	K V		Δ Pray MK	
15 5 W			6.3	K V		Δ Pray MK	
00 05 W			6.2	g4V		Δ Pray MK	
01 5 W			6.2	g4V		Δ Pray MK (Some twilight danger) probably ok.	

59

Date Tulsa, July 24/25 1922 Observer F. B. - 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.
26309	HD 144334	16 00.2	-23 20		7a0B	010	21.5	20 23	20 43	3
1918-216	780	16 14.4	-22 53		815/40	28		21 08	2x+5m	
1919-216	719	17 00.1	-26 12		815/40	28		21 43	2x+15m	
1920-216	717V	18 35.6	+38 45		514/14	28		22 57	2x	
1921-216	756	19 14.9	+30 05		815/40	28		23 20	2x+5m	
1922-216	771	19 51.7	+18 40		816/40	28		23 52	2x+No scr.	

Set on star HD 219617, then found slit at 040 + Prism Assembly out of place (3^hE), Rest on
ALSO - one of elastic straps for secondary

Echo I in AqL AT 23:23 EST

Dome Temp.

CO₂ in 20:00

Transparency Conditions

Fine except low cloud bank

Focus 15.45

700V

Low in West

2145 OK except low clouds low on lake

Dome Temp.

Low clouds moving in 23 55

60

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 31 W	-23 31	0	5.8	B8	4-44	B 8-9 Still daylight ^{PH loaded} _{near twilight}	fine
0 53 W	+108		8.4	II		⊕ Some twinkling at distance ^{! strange on lines}	Tel. o Pave sed
0 45 W	+045 W		8.3	VIII		⊕	
0 15 W			0.04	AOV		Extinct Star	
0:05 + 0:20			9.6	X		⊕	
000			8.3	-		⊕ cloud danger! clouded out	

stars - Then clouds all over sky. 1^h. Put cap on other finders + CLOSED-UP covers came off last time I was on, maybe they can be made less tight in future also - Gg.

- Wind at 40 km/hr. - Gg.
 The Jul 26 - Cloud banks over sky - 21^h

51

Date Fr/Sat 27/28 Jul 1962 Observer 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.I.
1923-217	JCRB	15 33 0	+26 51		5/4/14	20		20:40	2x	
1924-217	R416	17 19.2	+01 28		7/4/33	20		21:00	2x	
1925-217	R416	17 19 2	+01 28		7/4/33	28		21:10	2x	
1926-217	$\Pi 14$	17 35.5	-03 15		8/5/40	28		21:25	2x+sky	
1927-217	NGC 6229	16 45.9	+47 36		8/5/40	28		21:58	2x+sky	
1928-217	$\Pi 28$	18 22.1	-24 54		8/4/40	28		22:36	3x+sky	
1929-217	JLyr	18 35.6	+38 45		4/4/14	28		23:16	2x	
1930-217	$\Pi 56$	19 14.9	+30 05		8/5/40	28		23:44	2x+sky	
1931-217	$\Pi 71$	19 51.7	+18 40		8/5/40	28		00:15	2x+sky	
1932-217	NGC 6934	20 31.9	+07 15		8/5/40	28		00:50	2x+sky	
1933-217	$\Pi 30$	21 37.7	-23 24		8/4/40	28		01:23	2x+sky	
1934-217	NGC 7006	20 50.3	+16 01		8/6/40	28		01:57	2x+sky	

Dome Temp.

Focus

Dome Temp.

CO₂ in 19.30

700V

Transparency Conditions

very fine pdw air
a few stratocumulus low in W.

re 178 scattered clouds in zenith, but south pole (17800)

24:00 very fine

A VERY FINE NIGHT

62

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
14:15 ^W			2.2	AOV		Ext. ST. Some twilight damage to first 1/2	
0:11 ^E			6.9	SOV	⊕	ΔHV	
0:02 ^E			6.9	SOV	⊕	ΔHV	
0:05 + 0:05 ^E			9.4	VIII	⊕		
1:23 ^E + 1:23			10.3	IV	⊕	centring OK return run repeated.	
0:20 and 0:40 ^W SK, 0:30 ^W			8.5	IX	⊕	Drifted (clouds in zenith, south pole) 17800	
0:53 ^W			0.0	AOV		Ext. Star	
0:41 ^W + 0:41 ^W			9.6	X	⊕		
0:37 ^W + 0:50 ^W			8.3	-	⊕		
0:30 ^W + 0:45 ^W			10.0	VIII	⊕		
0:00 + 0:00			8.6	V	⊕	received	
01:10 ^W			11.5	I	⊕	received	

02:31 EST \int - Slow motion broke down

Sat. 28 July '62
~130 Vis. hrs. I. ST. to
Demonstration of "H"
"Universe"
X

63

Echo I of Pleiades 22:35 EDT

Date Tu/Wed July 31/Aug 1 1962 Observer 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.H.	Hour Angle End
1935-218	J CrB	15 33.0	+26 51	5/4/14		20		20 43	2x		137W
1936-218	E CrB	15 55.9	+27 00	6/4/133		28		21 05	2x		32W
1937-218	Z CrB	15 54.9	+27 00	6/4/133		28		21 13	2x		140W
1938-218	M14	17 35.5	-03 15	8/5/40		28		21 31	2x + 5x		029W
1939-218	M28	18 22.1	-24 54	8/4/40		28		22 02	2x + 5x		010W
1940-218	NGC 6229	16 45.9	+47 36	8/5/40		28		22 40	2x + 5x		028W
1941-218	M56	19 14.9	+30 05	8/5/40		28		23 10	2x + 5x		033W
1942-218	M71	19 51.7	+18 40	8/6/40		28		23 44	2x + 5x		012W
1943-218	NGC 6934	20 31.9	+10 15	8/5/40		28		00 22	2x + 5x		008W
1944-218	M30	21 37.7	-23 21	8/4/40		28		01 08	2x + 5x		010W
1945-218	NGC 7006	20 59.3	+16 01	8/6/40		28		01 50	2x + 5x		010W
1946-218	R 536	22 15.3	+12 41	7/4/33		28		02 25	2x		035W

Dome Temp.

Focus

Dome Temp.

CO₂ in 19.15

V = 700

N₂ Strong Pt. Aurora in N.

Transparency Conditions

Clew Polar air, a few
isolated cumulus sunset

27:00 very fine

22:50 clouds to 30° ALT in S. Also some lower N and E
(see N/C 0115)

24:00 isolated Ci banks, Aurora rather bright

00:15 Sky OK

REMARKS

01:30 clouds in N (1730 OK)

02:35 Altiocumulus moves in

1x centring per U

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:37W		5"	2.21	AOV	Standard		
1:32W			4.15	K3 III	MK Δ		
1:40W			4.15	K3 III	MK Δ		
0:24W + 024W			9.4	VIII	⊕		
0:10W + 010W			8.5	IV	⊕		
02:18W + 2:18W			10.3	IV	⊕	slight cloud danger	
00:23W + 0023W			9.6	V	⊕	" " "	6
00:21W + 00:35W			8.3	-	⊕	clouds!	
00:18W + 00:18W			10.0	VIII	⊕	Sky OK Aurora in N	
01:00W + 0100W			8.6	V	⊕	recentred sky OK?	
01:20W + 0120W			11.5	I	⊕	Some cloud danger, recentred	
00:35W			7.03	SOZ	HVD		

64

65: Echo I Ophiuchus 20.45 EST
 " Oph-Scor 22.45 EST

Date Waltham Aug 1/2 1962 Observer vdB - est. Julian 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.
1947-219	α CrB	15 33.0	+26°51'	5/4/14	20			20:40	2x	
1948-219	R416	17 19.2	+01 28	7/4/33	28			21:05	2x	
1949-219	R416	17 19.2	+01 28	7/4/33	28			21:15	2x	
1950-219	π14	17 35.5	-03 15	8/5/40	28			21:29	2x + Sky	
1951-219	NGC 6229	16 45.9	+47 36	8/5/40	28			22:03	2x + Sky	
1952-219	NGC 6712	18 50.6	-08 47	8/5/40	28			22:38	2x + Sky	
1953-219	π71	19 51.7	+18 40	8/5/40	28			23:18	2x + Sky	
1954-219	π72	20 51.0	-12 43	8/6/40	28			23:49	2x + Sky	
26310	HD 204038	21 20.8	+33 16	I-25	IIaOb	.008	20.0	00 40	01 50	4
26311	HD 217224	22 54.2	+67 52	"	"	"	18.9	02 04	02 48	1
	HD 219617	23 15.2	-14 07	"	"	"	19.3	2 59	3 15	2
	BD 47° 781	03 03.3	+47 33							
2021A	focus Test						19.3			1

Dome Temp. 63

Focus 15.58

Dome Temp. 15.43

CO₂ in 19:40 EST

V = 700

Transparency Conditions

 Ci low in NandW, vest of
 Sky looks OK, not AOK,
 22.00 Ci up to 250 in S.
 2240 looks fine now
 2340 Fine

68

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	01 38W		10"	2.21	AOV	EXT. ST		
	00 14W			6.9	SOV	HVΔ		
	00 24W			6.9	SOV	HVΔ		
	00 25 + 00 25W			9.4	VIII	⊕		
	01 48W + 01 48W			10.3	IV	⊕	recentred	
	00 19W + 00 19W			10.0	IX	⊕		
	00 03E + 00 03E			8.3	-	⊕	includes one of longish STARS	
	00 30E - 00 30E			10.2	IX	⊕		
	00 51W	+33 30	1	8.0	A3	6-6-6 Set 8.5	F Pel Rim	Sen 8. 197 3 extra counts 230
	00 16W	+68 11	1	7.8	B8	6-6-6 Set 5	F Pel. Rim	114-12" Sen 8. 232 20"
	14 03	0	0	8.6	sd F8	6-	Set 5	Sen 8. 265 # hot - completely
								69 too close to pole
							Couldn't identify field	
							Set 9.	
							2 PH's loaded.	

1st Star motion not working well!
 3rd Night now. See B

67

Echo: ~~the~~ Rose in west: Mendham at 9:58 EST.
 - moved from west to SW to S Alt +25° at Mendham

Date Thur/Fri 2/3 Aug 62 Observer I - Pu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	PH	Hour Angle End
26312	HD 165401	18 ^h 00.7	+04 39	I25	IIaOB	.008	+24°C	21 ^h 14 ^m	21 ^h 52	3	0 ^h 18 ^m
26313	HD 190020	19 57.9	+73 21	I25	IIaOB	.016	+22.8°C	22 ^h 30 ^m	00 ^h 03	4	0 ^h 35 ^m
		20	minute	look at	Saturn	-	reasonably	clear			
26314	HD 21967	(1961) 23 15.2	(1961) -14 07	I-25	IIaOB	.008	+20.8°C	00 ^h 54 ^m	03 ^h 34 ^m	1	0 ^h 48 ^m
26314 F	focus test										
26315	HD 202862	21 73.6	+42 16	I-25	IIaOB	.009	+20.4°C	04 ^h 20 ^m	04 ^h 34 ^m	2	3 ^h 48 ^m
26315 F	focus test										
						2 PH. loaded					
<p>Exposure meter has a tendency to become unbalanced - had to adjust it 2 or 3 times during the night - Pu</p>											

EST
17/18

Dome Temp. 70°F
Focus 15.49 - 15.44
Dome Temp. 60°F

Opened up
at 8:50 EST

Magnificent Sunset + 1/3 moon in west
Transparency Conditions OK to start; few clouds near horizon
9:30 EST: PERFECT
- can even see Milky Way clearly
1:16 light cloud covering image
1:20 " " disappeared

68

log Time
S.T.
52 3
03 4
34

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 18 ^m E	+04 39	1 → 0	7.42	G2V	6-6-6	Se HV (G ₂) || a little (6 counts) overexposed	1293 1340 fine
0 ^h 35 ^m E	+73 32	0	8.5	F5	6-6-6	F Eclipsing Binary	1348 1448 fine
0 ^h 48 ^m W	-14 04	1 → 0	8.6	sd F ₈	6-6-6	Se HV (G ₂) 1:37 exposure meter rebalanced. set 5 sens 9 set 9	1455 1609 1551 good
3 ^h 48 ^m W	+42 30	1	6.04	B ₂	6-6-6	B ₂ - B ₉ pyg set 9	1556 1560 Lstr d.s. to vi.
<p>* B₂ lens but - center of light to outside.</p> <p>Heat found to be off in spectrograph at 02:00 - heat turned on at 20.2°C but spectrograph not refocused till 3:50</p> <p>Note for 26314 1st 1/2 hour counts very slow - then exposure meter found to be quite unbalanced - Re-counting much better after rebalanced - P₂</p> <p>1) One of bolts of Iron Arc Knife Switch is missing - Switch arcs also 2) No Light in 25" Camera Chamber 3) Observers should take care not to walk into an operating sprinkler in the dark</p>							

69

Date

Frid-Sat Aug 3-4/1962

Observer

JF

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26316	169578	10 20.2	+05 02	I-25	IIaOB	∞000	24.6	22 17	23 01	

Aug 4/5

Sat-Sun 140 visitors

showed 'Universe'

Cl, Co, J.B.

Dome Temp. 76°F

Focus

Dome Temp.

 15.65
 1.5
 75.50
for 24.6°C .

22:00

Seems better

opened up.

 Very poor - scattered clouds at 70
 Transparency Conditions increased. VERY POOR.
g Time
S.T.

01

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 10W	+ 5 02	0 ⁻	6.54	B ₉ 6-		Set 5. B ₈ -B ₉ Sens 6. 571 22:50: clouds. 572 $\frac{1}{3}$. clouds fast moving from North CLOSED UP.	link

71 Echo 1 crossed meridian at 21:34 alt ~25°

Date Sun - Mon Aug 5-6 / 1962 Observer Cn - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26317	HD 169578	18 20.2	+05 02	I-25	Ilao B	1008	25.0	20:34	21:10	4
26318	HD 175744	18 51.7	+17 52	I-25	Ilao B	1008	25.0	21:21	21:49	1
26319	HD 192659	20 10.9	+41 48	I-25	Ilao B	1008	25.0	23:30	23:55	2
26320	HD 199892	20 59.9	+41 33	I-25	Ilao B	1008	24.9	00:05	00:13	3
26321	HD 202149	21 08.9	-11 01	I-25	Ilao B	1008	24.9	00:22	01:12	4
26322	HD 217224	22 54.2	67 52	"	"	"	25.0	01:28	02:44	1
	From <u>Trans. O. J. B.</u>									

Dome Temp. 76°

Focus 15.51

Dome Temp.

Transparency Conditions

poor!
 very thick haze up to 30° above horizon
 21^h extinction 1 mag.

g Time S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	+	0 34 W	+05 02	0	6.34	B8	6-6-6	set 5 B8-B9 Program In 7 1580	fine
49	1	0 26 W	+17 56	0	6.39	B9	6-6-6	set 5 " " " In 7 1594	fine
5	2	0 37 W	+41 58	0	6.37	B8	6-6-6	set 5 B8-B9 Program In 7 1606	fine
13	3	0 04 W	+41 46	3	6.01	B9	6-6-6	set 5 B8-B9 Program In 7 1615	fine
2	4	00 40 W	-10 47	2	6.26	B8	6-6-6	set 5 B8-B9 Program # 7 1627	fine
		01 28 W	68 10	2	7.8	B8	6-16	" 5 Ecl BIN (r) # 8 1632	fine
							20/15	" 9 1644	fine
									focus OK
								2 P.H. - Focused in the fog.	
								22 ^h set on 190020 couldn't identify feature	
								set on 2 B8-B9 stars " " " "	

Dome Temp. 80°
 Focus 15.5F (28°C)
 Dome Temp.

Transparency Conditions *good - high cirrus in places*

74

21^h Superb!

1:50 quite clear all over the sky. - milky way visible

2:40 clear

4:10 clear

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
20 2	00 44 W	+11 24	0-1	(7.0?) 8.0	A3	6-6-6	Set 3 KA 8x8 74" (lighted) two field drawn lens 9(120)	1757 1857 1987 1990 2002	blank
	02 02 E	+33 30	2+	8.0	A3	6-3-3	Set 3 FEd Bin V822 dgl field checks lens 9(120)	1857 1987	fine
23 4	00 38 W	-02 13	1+	6.7	B8	6-6-6	Set 3 Hd Ed Bin (F) field drawn lens 7(12)	1990 2002	fine
19 1	02 00 W	+73 30	2-3	8.5	F5	3-3-3	Set 3 FEd Bin field drawn lens 9(120)	2003 2100	fine
	00 10 E	+62 49	0.5	7.8	B0 IV	6-6-6	Set 3 Hd " " " lens 8(30)	2110 2141	fine
2 3	01 21 W	+68 09	2	7.8	B8	5-4-5	set 5 FEd Bin field drawn lens 9(120)	2151 2182	fine Fine
4 4	01 08 W	+59 46	2	6.37	B8	6-6-6	set 3 B8 - B9 prog lens 6(4)	2187	fine
						20/16 set 9			v. active

B.P.H. loaded

Star gets lost in 016 slit
 guiding difficult in R.A. - drifts v. fast.

Add 1^{mm} S.T. & E.T. - power d))

21^h 40^m Flap down, closed on Mirror.
 22 40 Flap fixed

75

Date Thu / Fri 9 / 10 Aug Observer F - Cn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26330	HD 158263	17 25.3	+11 29	I-25	IIa0B	008	---	21 03		
26330	HD 170973	18 27.1	+03 35	F-25	IIa0B	008	22.50	21 03	21 31	1
26331	HD 204038	21 20.8	+33 16	"	"	016	23.00	21 31	23 21	2
26332	HD 182618	19 20.4	+27 53	"	"	008	22.60	23 28	00 24	3
26333	HD 209228	21 57.1	+10 29	I-25	IIa0B	008	22.60	00 35	01 03	4
26334	HD 215143	22 38.0	-07 29	I-25	IIa0B	008	22.60	01 14	01 28	1
26334	Focus Test	070	27A							

Dome Temp. 68° F 00^h 30 - much improved - occasional cloud
 Focus 15.47 22.8 C 01 20 - clouds moving in from NE
 Dome Temp. 63° F 15 62
 Transparency Conditions Fair only - much light cirrus cloud.
 Poor 20:50 9 improving
 22:00 Cloud - the V moving from NE - v. bad in S.E. & E
 23:00 v. light cirrus above - try except NW NE & E

76

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
				7.07 8.0	A3		Set 3 Too much absorption	(30) 2209 2213	
21	00 14E	+03 36	0	6.3	B9	6-6-6	Set 3 B8-9 (58) Field drawn	(29) 2209 2213	fine
21	01 07E	+33 30	0-2	8.0	A3	3-3-3	Set 4 F & D Bar Field Correct	(29) 2209 2213	fine
24	01 57W	+28 00	0	6.3	B8	6-6-6	Set 3 B8-9 only star thru cloud in field drawn	(29) 2330 2307	fine
03	0 03E	+10 46	0	6.3	B8	6-6-6	Set 5 B8-B9 "	(29) 2346 2358	fine
28	0 15E	+07 12	0	6.28	B9	6-6-6	Set 5 B8-B9 01 25 clouds!	(29) 2361 2368	1st - fine
						20/16	Set 9		slight
							01:30 clouds looked like rain - closed up		
							3 PH's Loaded		
							charts 21 ^m out, check them.		
							22 ^h Telescope drifting E badly in R.A. - 8 ^m at times -		

77

Sat/Sun

F

Date Aug 11/12 1962 Observer Gy - F Julian 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.
26335	HD 192659	20 10.9	+41 48	25"	<u>Ilab</u>	008	23.5	23:04	23:18	2
26336	HD 219617	23 15.2 ⁽¹⁹⁶¹⁾	-14 04	"	"	"		23:31	03:01	3
26337	HD 204038	21 20.8	+33 16	"	"	016	23.5	03:11	04:35	4
	Focus Test					016				

Dome Temp. 20C 67°F at 0^h

Focus 15.63-15 = 15.48

Dome Temp. 63°F at 04:30

Transparency Conditions Fair - 23^h (not so good earlier) 78

0^h30 - Stratus - esp in W.
 1:40 - Milky way clear! - Stratus moved to S & W
 2:00 Clouds moving fast from SW - decreasing
 2:05 Star clouded out (2503) - cloud all over sky
 2:25 Cloud has passed star

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18	2	0:09 W	+41 59	0-1	6.4	B8	6-6-6	B8-139 Prog	2404
01	3	0:50 W	-14 03	0-1	8.6	sd F8	6-6-6	Se-HV (Gg) 3 ^h E! 2 counts in 3 1/2 ^m 1 count in 85 ^B , 60 ^B , 55 ^S (Seeing is 2 for short periods)	2416 fine 2418 good. 2544 2546
05	4	04:17 W	+33 30	0-2	8.0	A3	3-3-3	Set5 Fld Bin Field Correct 10/8 Set9	2566 2632 not fine val obs vi
								3 PH's loaded in frig.	
								2:00 Cloud in N - out in W 3:30 Cloud again in W 3:45 Cleared in W 4:20 Heavy mist forming	
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <p>Sat Visitors <u>Gg & F - Ml</u></p> <p><u>190</u> — Showed Messier 92</p> </div>									

79

Tue/Wed

Date Aug 14/15 1962 Observer Gg - Pu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26338	HD158263	17 23.3	+11 29	25"	Dagob	.008	21C	20 37	21 09	1
26339 a	HD172187	18 33.7	+43 08	25"	"	"		21 19	21 27	2
26340	HD175190	18 49.1	-22 48	"	"	"		21 48	22 06	3
26341	HD183794	19 26.1	- 2 19	"	"	"		22 22	22 58	4
26342	HD204038	21 20.8	+33 16	"	"	.016		23 11	23 59	1
26339b	HD172187	18 33.7	+43 08	"	"	.008				
26343	HD219617	(1961) 23 15.2 (1900)	(1961) -14 04 (1900)	"	"	.008		00 16	02:50	3
26344	HD 209288	21 57.1	+10 29	"	"	"	20.7C	03 15	03:30	4
26345	HD 224404	23 52.5	+59 28	"	"	"	20.8C	03:53	04:01	1
26345 F	focus test									

2 PHs loaded

Dome Temp. 19.5 Celsius
 Focus 15.59 - 15 = 15.44
 Dome Temp.

Transparency Conditions Good Clear down to horizon. 80
 Nearly FM
 00: ~~2~~:50 clear down to horizon

g Time S.T.	PE	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
09	1	100W compute	+11 24	0+	8.?	A ₃	6-12	KA ^{8x8} in what hook? Atmosphere unsteady	Sens 8 2633 30 63	fine
27	2	0 ^h 07W	+43 11	0.1	6.4	A ₅	6-6-6	Set 2 [in 8 ^m] N-SB field checks	Sens 7 68 80 12	fine
6	3	0 ^h 28W	-22 45	0-1	6.4	sgK5	9-9	rdB-SB | Had trouble with field Dec slow-mot. | checks.	Sens 7 2692 2710 16	fine
8	4	0 ^h 44W	-2 14	0+	6.68	B ₈	6-6-6	Hd-EB Set 2 1822 Agl	Sens 7 2213 2225 12	fine
59	1	0 ^h 09E	+33 30	0-1	8.0	A ₃	6-6-6	F-EB Set 5 Field ✓	Sens 8 2732 30	fine
				6.4 A₅		Set 5 N-SB		2769		
50	3	0 ^h 50'W	-14 04	0-1	8.6	set F ₈	6-6-6	Se HV (Gg) Field ✓	Sens 9 2769 2872	good
20	4	02 ^h 46'W	+10 46	1	6.31	B ₈	6-6-6	B ₈ -B ₉ ppm sets 5	sens 6 2884 2882	fine
		01 ^h 23'W	+59 47	1-2	6.37	B ₈	6-12 20/16	B ₈ -B ₉ ppm set 2 set 9	sens 6 2892 2897	fine alc to vi

I forgot to pull the plunger for the 1st 20 sec. of iron arc on the focus track - Pu

- 1) Declination slow motion quips rather badly - probably the screw is at the end of the track - Pu
- 2) There is no cross-hairs illumination in the victors eyepiece - Pu

81

Date Aug 15-16/62 Wed-Thurs Observer CW - Jst Julian 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.
26346	HD 169578	18 20.2	+05 02	I-25	Daob	.008	23.9 ⁰	20:17	20:33	2
26347	HD 183794	19 26.1	-02 19	I-25	Daob	.008	23.0 ⁰	20:44	21:04	3
26348	HD 198020	19 57.9	73 21	I-25	Daob	.016	22.9	22:59	00:43	4
	HD 217284	22 54.2	67 53							
26348 a	sky							3 ^h	Gg	

7 exposures.

Aug 16/62

Dome Temp. 69°
 Focus 15.49
 Dome Temp. 61

20 30 low cloud bank in West - bright full moon in East, otherwise good
 Transparency Conditions
 00 30 light clouds moving in from W

(82)

g Time S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
33	2	0 32 E	05 02	0	6.54	B9	6-6-6	lit 5 B8-B9 Program lens 7 2907	
44	3	1 06 E	-02 14	1	6.68	B8	6-6-6	lit 5 Ad. Cal. Bin field checks. lens 7 2923	good
43	4	2 07 E	+73 33	0	8.5	F5	3-3-	lit 5 F Ed Bin telescope mount lens 9 2936 30 32	fine good
<p>PH PH recorded.</p> <p>fine to strong</p> <p>00^{hr} telescope drifts badly in RA</p> <p>21:30 slow motion control box caught on ladder? - called</p> <p>1:00 Blaw 2 flares with slow motions also clanded up & hence clanded up.</p>									

Dome Temp. 64°

Focus $15.58 - 0.15 = 15.43$.

Dome Temp.

21:40 some low clouds at horizon. otherwise clear. 84
 Transparency Conditions Bright moon
 2310 Clouds in West. & Broken Clouds in NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
						Set 5		
56.2	1 38W	+25 45	1	698	SAE	6-6-6 Set 5	3096 3111	fine
39.3	0 37W	-2 14	0-1	668	BD	6-6-6 Set 5	3113 3125	fine
00.4	1 31W	+73 34	0-1	8.5	F5	3-3-3 Set 5	3127 (100)	fine
0005 CLOUDS.								
3 P.H. in fring.								
21 hrs. opened up, set one star & started blowing fuses with dec. hand switch. Called Frank. Slow dec. switch stuck. Short in HndSw, I think.								

85

Date Sat/Sun Aug 18/19 Observer M-L F-F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26352	HD 192579	20 10.5	+46 23	F-25	II-008	008		00 13	00 29	1
26353	HD 204035	21 20.8	+33 16	"	"	016	17.9	00 36	01 22	2
26354	HD 217224	22 54.2	+67 52	"	"	012	18.2	01 39	02 20	3
	Focus Test						18.6			
26354 F2	Focus Test	Settings	Set 0	2 1/2	5 7 1/2	70	21.8	(.008)		4
F3			.36	.38	40 42	44	21.8	(.008)		1
			46	48	50 52	54	21.8	(.008)		
			Set 10	7 1/2	5 2 1/2	0				
F-M-L-N	150	Variation								
	Stowed M 92	to	first group							
	Clouded over	for second group	- Closed Up	- about slides						
23:00	looking	clearer in zenith	- about 1 ^{mag} cloud in N W S E							
23:30	looking over	again								
0 ^h	opened up									
0:30	CL FPP!									
2:10	Thin cloud	moving in	fast from NW	- gap at 23 ^h + 68°!						
2:20	clouded out	(looks) like	air.							

Dome Temp. 63° 0^h

Focus 15.41

Dome Temp. 60 22½^h

18.6°C

15.56
15
15.41

Transparency Conditions Excellent when no clouds ! = 86

Clouds from 21^h to 0^h - absorption 1-2 mag

Clouded right out - 2:30

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29	1 40W	+46 35	0+	6.92	B9	6-6-6	net 3 sens 8 drawn Field correct B8-9 (30)	3243 fine
22	1 30W	+33 30	2-1	8.0	A3	3-3-3	net 5 sens 8 F Ecl Bin Field Checks (30)	3277 3307 fine
20	0.50W	+68 10	1	7.8	B8	5-4-5	net 3 sens 8 F Ecl Bin " " (30)	3309 3327 good
						14/10	Set 8	etc to r
							Clouded out at 2:20	
							Gives NEW focus Corr'n - d) "Subtract 0.11"	
							PH's loaded 1	
Aug 20	11 ^h	21.8°C			(1.45)		→ Jerry - Finder eyepiece cross hairs need adjustment Vuiton " " " " " "	
							The Guiding & Vuiton eyepieces are NOT in focus in same pos'n. Cross Hairs fair in Vuiton for correct focus in Guiding Eyepiece	BADLY

Dome Temp. 76°

Focus 15.51

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.5	Z53		1st F. Ed. Pin. 1000 3334	
20 ^L						low black cloud bank in N & W	
20 ^L 30 ^m						low black clouds apparently stationary - opened up	
20 ^L 45 ^m						delayed with phone calls - object of probable mag 1 went across sky from SW to NE. in about 2 minutes - left no trail - observers seemed reliable amid phone calls tried to open up	
						① clocks about 2 minutes slow	
						② "Instruction to observers" was <u>not</u> in box	
21 ^L						finally set on star - visitors appear badly out of focus	
21 ^L 10 ^m						"stationary" clouds obscure star - looked like rain - cloud up, loaded 2 plate holders & went home	
MORAL: If there's a cloud in the sky, stay home!							

Dome Temp. 72°

Focus 15.52

23.7°C

NEW Conn'n

Dome Temp. 60°C

Transparency Conditions Very Poor - (50% of the cloud all over) 90
 Bad in North
 22^h good except on horizon
 02:20 " " " " especially N horizon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:50 E	-02 14	0 ⁺	6.7	B8	6-6-6	Set 3 H&EB Field Correct Sens 7 (13) 3381 3393	fine
01:24 E	+33 30	0-1'	8.0	A3	3-3-3	Set 6 FEB " " Sens 9 (120) 3398 3518	fine
1 52 W 55 W	+73 30	0-2	8.5	F5	3-3-3 10-8	Set 3 FEB " " Sens 9 (110) 3522 3622	fine
00 04 E	+72 09	1-2	7.8	B8	6-6-6	Set 5 FEB " " Sens 8 (10) 3623 3654	fine
					20/16	Set 9	
02 17 E	+47 56	1-2	8.5	?	6-6-6	set 3 FEB Field drawn Sens 9 (120) 3655 3776	fine
					20/16	set 9	
05 20 W	+33 31	1-2	8.0	A ₃	B-6	set 5 FEB Field checks Sens 9? (10) 3794 3841 guiding - very difficult telescope seems to be unstable in R.A.	good 6 to 8
					10/4	set 9	
2 PH's loaded						Heads not working	
						GERRY	
						1. Finder Cross-hairs way out of focus	
						2. Focus in Victor eyepiece atrocious	
						3. Spectrograph heater not working properly (21 ^h 30 ^m)	
						4. Clocks out 2 min on all time & temp dropping	
						5. 9. The	
						6.	

Dome Temp.

Focus 15.48

Dome Temp.

CO₂ in 19:15

V = 750

WATU Strong Aurora in N.

20:00 - 21:30

Transparency Conditions

Cl in West up to 200 } 20:00 11:92
 Striking in S up to 5°
 rest of SW Fine
 Seeing at 6000 - 8000 (CNE) may affect 6000
 2:00 clouds around horizon
 esp in West.
 3:45 light clouds all over sky.

g Time
ST.

P.M.

g Time
ST.

P.M.

g Time
ST.

P.M.

g Time
ST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0:44 E		3"	0.04	A0V		E+T-ST		
0:02 E		5"	6.00	G8 III		ΔHV		
0:06 W		5"	6.00	G8 II		ΔHV		
0:15 W + 0:15 W			10.2	VI		⊕ aurora weak during sky trace		
0:21 W + 0:21 W			10.0	IX		⊕ aurora almost invisible, (CNE Searchlights)		
0:30 W + 0:45 W			9.6	X		⊕		
0:30 W + 0:45 W			8.3	-		⊕ No Aurora		
0:07			10.2	IX		⊕ " "		
			11.5	I		⊕		
0 20 E + 62 50		0	7.8	B0 IV	6-6-6	Set 5. Hq. Bin.	32878 Sens 8. 3930	fine
0 58 W + 68 09		0	7.8	B8.	6-6-6	Set 5 Fed. Bin.	4=54 Sens 8. 3931 3962	fine
4 29 W + 33 29		0	8.0	A3	3-3-	Set 5 " Telescope accept usable	Sens 9 4650	fine
					20/16.	Set 9		can (faint) lens!

Penin Brown not working!

3PH's loaded

Please Fix this

4:17 decl. stopped working. Checked
 fuses. While turning on lights,
 touched the switch besides the old
 R.A. clamp switch. This may be the cause of
 decl. failure. M.B. Telescope is still standing
 at decl. 33°

93

Date Aug. 23-24/62 Observer Ed - Cn Julian 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.
26364	HD 177410	18 59.5	69 23	I-25	IIa0B	008	23.0	21 48	22 06	2
26365	HD 192579	20 10.5	46 23	"	"	"	23.0	22 15	22 45	3
26366	HD 192659	20 10.9	46 48	"	"	"	23.0	22 48	23 10	2
26367	HD 193722	20 16.7	46 31	"	"	"	22.0	23 15	23 25	1
26368	HD 194668	20 21.8	53 11	"	"	"	21.0	23 32	23 41	2
26369	HD 212943	22 22.8	+04 12	"	"	"	21.4	23 52	23 59	3
26369	HD 212943	" "	" "	"	"	"		23 59	00 09	3
26369	HD 212943	" "	" "	"	"	"	21.2	00 10	00 24	3
26370	HD 217312	22 54.8	+62 32	I-25	IIa0B	008	20.9	00 39	01 13	4
26371	HD 217224	22 54.2	+67 52	I-25	IIa0B	008	20.4	01 38		1
26371	HD 217224	22 54.2	+67 52	I-25	IIa0B	012	20.4	01 39	02 33	1
26372	BD +47° 781	03 03.3	+47 33	I-25	IIa0B	012	19.6	02 46	04 20	2
26373	HD 16727	02 35.8	+54 41	"	"	008	18.9	04 33	04 37	3
26374	HD 21661	03 24.7	+49 04	"	"	008	18.6	04 49	05 05	3
	Focus Test	07B								
		SPECTROGRAPH			HEATER			NOT WORK		

Dome Temp. 66F

Focus 15.51

Dome Temp. 64°

Transparency Conditions

Cloudy until 2100 3:94

00^h good01^h by moon - sky brighter

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
W 51 ^m	69 26	0	6.35	B9	6-6-6	B8-B9 Prog	4051 4052	fine
W 23 ^m	46 33	0	6.92	B9	6-6-6	B8-B9 "	4057 4069	fine
W 45 ^m	48 58	0	6.27	B9	6-6-6	B8-B9 "	4070 4072	fine
W 53 ^m	46 43	1	6.13	B9	6-6-6	B8-B9 "	4075 4079	fine
W 1 11	53 25	2	6.43	B9	6-6-6	B8-B9 "	4080 4084	fine
= 0 36	+04 30	2	5.9	K0	6-6-6	at 5 std vel. star	4086 4093	fine
= 0 26	+04 30	2	5.9	K0	6-6-6	" 2 guided on blue part of star	4094 4101	fine
= 0 11	" "	2	"	"	6-6-6	at 9 guided on red part of star	4102 4109	good-fine
0 06 W	+62 51	1-2	7.8	B0 IV	6-6-6	at 5 Hk Ed Bin	4113 4143	fine
	+68 10	0-1	7.8	B8	6-6-6	at 5 F Ed Bin	4145	
01 27 W	+68 10	0-1	7.8	B8	4-4-4	at 8 F Ed Bin	4148 4178	fine - l poor quicker
00 59 E	+47 55	0-1	8.5	K?	4-6-4	at 2 F Ed Bin	4180 4300	fine
00 12 E	+54 55	1-2	5.61	B8	6-12	at 2 B8-B9 Prog	4301 4305	fine
0 32 E	+49 17	1	6.3	B9	6	at 5 " " 4 min? I don't believe it!	4306 8	(KX) l wk
					at 9	light cloud at bin?		electronic
						01:45 telescope guiding badly		

TALK W! 2 PH loaded

95

Date Frid-Sat Aug 24/25 1962 Observer SH-HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26375	165814	18 02.7	-25 29	I-25	HaG6	.000	25.2	20 01	—	4
26375	HD 174853	18 47.5	+13 51	"	"	"		20 30	20 43	4
26376	HD 175744	18 51.7	+17 52	"	"	"	25.0	20 51	21 11	1
26377	HD 186553	19 11.9	+27 17	"	"	"	25.0	21 16	21 34	2
26378	HD 181828	19 16.9	+35 00	"	"	"	25.0	21 38	21 52	3
26379	HD 182618	19 20.4	+27 53	"	"	"	25.0	21 58	22 30	4
26380	HD 185330	19 33.5	+38 10	"	"	"	25.0	22 40	23 08	1
26381	HD 199892	20 54.9	+41 33	"	"	"	24.9	23 17	23 35	2
26382	HD 202866	21 13.6	+42 16	"	"	"	24.9	23 40	23 54	3
26383	HD 209288	21 57.1	+10 29	"	"	"	24.9	00 45	02 13	4
	7									
Sat Aug 25 1962 - I, SH, Pu - 143 visitors showed Saturn to first group + showed out for second group										

Dome Temp. 75

Focus 15.55

Dome Temp.

Transparency Conditions

Hazy

22:00

22:20

22:40

broken clouds north + west.
clouds increase.
clouds break.

17 96

Time I.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
			-25 30	0	6.7	B8	6-	Set 5 B8-B9 Top slant stopped	4310	
43	4	0 14 E	+13 54	0-1	6.07	B9	6-6-6	Set 9 B8-B9	4312 16	fine
11	1	0 04 E	+17 55	0	6.39	B9	6-6-6	Set 5 B8-B9	19 23	fine
34	2	0 14 W	+27 21	0	6.24	B9	6-6-6	Set 5 B8-B9	24 28	fine*
52	3	0 26 W	+35 06	0-1	6.24	B8	6-6-6	" B8-B9	29 33	fine
2	4	1 01 W	+28 00	0	6.31	B8	6-6-6	"	34 38	fine
08	1	1 27 W	+30 16	0	6.33	B8	6-6-6	"	39 43	fine
35	2	0 32 W	+41 46	0	6.01	B9	6-6-6	"	44 48	fine
54	3	0 33 W	+42 30	0	6.04	B8	6-6-6	"	49 53	fine
13		2 07 W	+10 47	H	6.31	B8	6-12	" " " "	#7 4357 4364	good
							10/16	" 9		OK

2 P.H. + 2 in Trig.

Almost continuous cloud after
midnight.

* plate broken

97

Date *Mon. Tues - Aug 27/28 1962* Observer *Cu - Pu* Julian 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.
26384	HD 196504	20 32.8	+26 07	I-25	Ilford B	.008	22.4	22 00	22 10	1
26385	HD 204039	21 20.8	+33 16	I-25	Ilford B	.016		22 25	23 09	2
26386	HD 202862	21 13.6	+42 16	I-25	Ilford B	.008		23 20	23 26	3
26387	HD 204754	21 25.7	+54 59	I-25	Ilford B	.008		23 34	23 42	4
26388	HD 217312	22 54.8	+62 32	I-25	Ilford B	.008	22.3	23 57	00:35	1
26389	HD 217224									2
26389 F	focus test									2
clouded out at 00:50 - also but general										
Note The L's are probably not accurate as flashlight was dead - Cu										

Dome Temp. 66°

Focus 15.50

Dome Temp. 66°

Transparency Conditions cloudy till 21° 98
 21:45 occasional cloud.
 22:15 good.
 00:25 cloud low in SE, otherwise good.
 00:50 clouded out - closed shutters

log Time S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	10	20 E	+26 18	0	5.50	B9	6-6-	set 5 : B8-B9 Program (4) 6 1372	fine
09	20	08 E	+33 31	0	8.0	A3	3-3-3	set 5 - F Ed Binary (30) 8 4326	fine
26	30	34 W	+42 31	1	6.04	B8	6-6-6	set 5 B8-B9 Program (4) 6 4379	fine
42	40	40 W	+55 15	1	6.04	B9	6-6-6	set 5 B8-B9 Program (4) 6 4409	fine
25	10	16 E	+62 50	1-2	7.8	B0 IV	6-6-6	set 5 4d Ed Bin (30) 8 4412	fine
							20/16 set 3		ok clean
<p>closed up at 1:30 - parts of the sky cleared temporarily weather picture looked unstable with a chance of rain.</p>									
<div style="border: 1px solid black; padding: 5px; display: inline-block;">2 P.H. loaded</div>									
<p><u>NB</u> <u>Need</u> flashlight batteries - absolutely no light from flashlight in the meanwhile this observer suggests that other obs. bring their own means of illumination - Pu</p>									

99

Date Aug 28/29 1962 tu/we Observer v.B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
1963-221	α Lyr	1835.6	+38 45		4/4/14	28		1950	
1964-221	ρ Her	18055	+30 33		6/4/33	28		2010	
1965-221	R 394	16 28.6	+04 19		7/4/33	28		2028	
1966-221	R 394	16 28.6	+04 19		7/4/33	28		1944	
1967-221	α Lyr	18 35.6	+38 45		4/4/14	28		2112	
1968-221	π 56	19 14.9	+30 05		8/5/40	28		2135	2x + 15m
1969-221	16 Cyg A	1940.9	+50 25		6/5/33	28		2208	
1970-221	16 Cyg A	1940.9	+50 25		6/5/33	28		2218	
1971-221	16 Cyg B	1940.9	+50 25		6/5/33	28		2228	
1972-221	R 505	20 52.1	+54 22		7/4/33	28		2250	
1973-221	R 505	20 52.1	+54 22		7/4/33	28		2300	
1974-221	NGC 7006	20 50.3	+16 01		8/5/40	28		2318	2x + 15m

Dome Temp.

V 75%
CO₂ in 19:15

Transparency Conditions

Tropical Air, Hazy at Low altitudes
probably not a very good night
2120 Alto cum in SW 30° ALT
Night probably not P.E.
Looks quite good after 2300 EST

100

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29 ^m E		10"	0.04	A0V	EXT ST		
20 W			5.0	F7V	MUΔ		
2 11 W			7.3	F9V	Δ HV	} sky = 0	
2 27 W			7.3	F9V	Δ HV		
0 52 W			0.04	A0V.	EXT. ST		
0 39 W	+0:50 W		9.6	X	⊕		
0 44 W			5.96	S2V	MUΔ		
0 54 W			5.96	S2V	MUΔ		
1 04 W			6.20	S5V	MUΔ		
0 14 W			7.17	K0 III	HVA	} check identification R 505 = HD 199191	
0 23 W			7.17	K0 III	HVA		
0 40 W	+1:00 W		11.5	I	⊕		



101

Date Aug 28/29 Observer - F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26390	HD 217312	22 54.8	+62 32	I-25	Ilford	008	23.0	00 07	00 35	3
26391	HD 217224	22 54.2	+67 52	"	"	"	23.1	00 41	01 19	4
26312	HD 217348	22 55.0	+59 16	"	"	"		01 28	01 38	1
26393	HD 217835	22 58.4	+54 42	"	"	"	23.2	01 41	01 49	2
26394	BD 147 781	(1855) 03 03.3	(1855) +47 33	"	"	"	23.3	02 04	03 04	3
26395	HD 21661	03 21.7	+49 04	"	"	"	23.2	03 11	03 21	4
26396	HD 10260	01 35.3	+60 32	"	"	"	22.9	03 48	04 00	1
26397	HD 10293	01 35.6	+58 08	"	"	"	23.0	04 04	04 12	2
26398	HD 11857	01 51.4	+61 12	"	"	"		04 18	04 24	3
26399	HD 11005	01 51.9	+41 12	"	"	"	22.9	04 30	04 40	4
26400	HD 14272	02 13.4	+39 23	"	"	"	23.2	04 43	04 53	1
Focus Test										

Dome Temp. 60° at 0h

Focus 15.51

15.62 - 0.11 = 15.51 (23.2)

Transparency Conditions *good - excellent*

102

Dome Temp.

04:55 dawn

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12 E	+62 50	1-2	7.8	B0 II	6-6-6	Hd SB Field checks down Set 3 Sens 8 (3) 4076 4506	<i>fine</i>
0 32 W	+68 11	2-3	7.8	B8	6-6-6	FEB " " " Set 6 Sens 8 (3) 4519 4539	<i>fine</i>
0 48 W	+59 34	3-2	6.4	B9	6-6-6	B8-9 Prog " " " set 3 Sens 7 (12) 4540 4552	<i>fine</i>
0 58 W	+55 00	1-2	6.5	B9	6-6-6	B8-9 ^{B₇ + 276" D alt 10 *'s} " Draw " set 6 Sens 7 (12) 4555 4567	<i>fine</i>
1 56 E	+47 56	3-	8.5	~K	6-6-6	FEB Field checks drawn set 3 Sens 9 (12) 4571 4691	<i>fine</i>
1 58 E	+49 14	3	6.3	B9	6-6-6	B8-9 " " " Set 6 Sens 7 (12) 4692 4705	<i>guiding fine</i>
0 31 W	+60 48	2+	6.6	B9	6-6-6	B8-9 " " " Set 3 Sens 7 (3) 4710 4722	<i>fine</i>
0 43 W	+58 24	3	6.2	B9	6-6-6	B8-9 " " " Set 6 Sens 7 (12) 4725 4737	<i>fine</i>
0 78 W?	+61 28	3	6.0	B8	9-9	B8-9 " " " Set 6 Sens 7 (3) 4744 4759	<i>fine</i>
0 56 W	+41 27	3	6.6	B9	9-9	B8-9 " " " Set 8 " 4760 4772	<i>fine</i>
0 47 W	+39 38	2	6.5	B8	9-9	B8-9 " " " Set 2 " 4774 4786	<i>fine</i>
					20/16	2:35 11 min stat N w + 45 → + 70 mag 4x4 Superb photographically! 3:20 7 red HD-204050 low jitter w. 3 PH's loaded in frig fence adjust FLASH LIGHT NEEDS BATTERIES	<i>OK - val etc vi</i>

Dome Temp. 78°F
 Focus 15.59
 Dome Temp. 74°F

Transparency Conditions *cls low in N. at sunset* 104
 00:52 beautiful night - seeing very good.
 ~03:00 haze around horizon
 04:10 generally clear - haze lessened

ing Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19	2:06 W	+11° 24'	2	7?	A	6-6-6	Set 3 <i>cls 20:20-21:00</i> Field checks KAXX8 (30) 8 { 4833 4863	<i>fine</i>
14	1:30 W	+73° 28'	2	8.5	F5	3-3-3	Set 3 " " Ecl B, F (120) 9 { 4875 4999	<i>fine</i>
15	1:06 W	+33 30	2	8.0	A3	3-3-3	Set 5 " " Ecl B, F (30) 8 { 5018 5050	<i>fine</i>
09	0:25 W	+62 50	2	7.8	B0IV	6-6-6	Set 5 Field drawn SB, Hd (30) 8 { 5055 5087	<i>fine</i> <i>esp guide</i>
02	1:20 W	+68 09	1-2	7.8	B8	6-6-6	Set 5 Field checks Ecl B, F (30) 8 { 5097 5129	<i>good</i>
11	0:45 E	+47 56	0-1	8.5	K	6-6-6	Set 5 Field drawn Ecl B, F (120) 9 { 5133 5230 5247	<i>fine</i>
37	0:35 E	+49 14	0	6.30	B9	6-6-6	Set 5 Field checks B8-B9 (30) 8 { 5275 5279 5262 121	<i>fine</i> <i>OK</i>
						20/16	Set 9	

+ P.H.'s loaded

Fainter Bulb for the exposure meter has burnt out.

105

Date Thu 1962 Aug 30/31 Observer W.B. Julian 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.
1975-222	α Lyr	18 ^h 35 ^m .6	+38 ^d 45'	4/4/14		28		19:45		
1976-222	δ Boo A	15 14.0	+33 27	6/4/33		28		20:05		
1977-222	δ Boo B	15 14.0	+33 27	6/4/33		28		20:15		
1978-222	72 Her	17 19.2	+32 32	6/5/33		28		20:28		
1979-222	M 56	19 14.9	+30 05	8/6/40		28		20:52	2x15y	
1980-222	M 71	19 51.7	+18 40	8/6/40		28		21:25	2x15y	
1981-222	α Lyr	18 35.6	+38 45	4/4/14		28		21:58		
1982-222	M 72	20 51.0	-12 43	8/6/40		28		22:22	2x15y	
1983-222	NGC 7006	20 53.3	+16 01	8/6/40		28		22:54	2x15y	
1984-222	R 513	21 10.2	+17 35	7/4/33		28		23:26		
1985-222	R 513	21 10.2	+17 35	7/4/33		28		23:36		

Dome Temp. ... 81°F

CO₂ in 19:00
V=700Transparency Conditions ... Tropical air, very Hazy
Night probably not very good

106

Focus

Sky somewhat improved after 22:00

Dome Temp. ... 75° at 0^hSeeing too good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^b 27 ^h E		3"	0.04	A0V		E+T. ST. centering prior 2 ^d time	
3:15 W			3.50	98 ^{III}		DMK	
3:25 W			3.50	98 ^{III}		DMK	
1:30 W			60	90 ^V		ΔHV	
0:01 + 0:20 W			8.6	I		⊕	
0:01 + 0:13 W			8.3	—		⊕	
1:44 W		4"	0.04	A0V		E+T. ST	
0:04 + 0:04			10.2	I		⊕	
0:18 W + 0:33 W			11.5	I		⊕	
0:37 W			7.89	F9 ^V		ΔHV	
0:47 W			7.89	F9 ^V		ΔHV	

107

Date Th/Fri Aug 30/31 Observer -F Julian 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
26408	HD 204038	21 ^h 20.8	+33° 16	I-25	IIaOB	008 016	26.7	00 00	00 22	1
26409	HD 172187	18 ^h 33.7	+43° 08	"	"	008	26.8	00 31	00 53	2
26410	HD 217224	23 ^h 54.2	+67° 52	"	"	008	26.5	01 03	01 47	3
26411	HD 204038	21^h 20.8	+33° 16	"	"	016		01 5		4
26411	HD 204754	21 ^h 25.7	+54° 59	"	"	008	26.8	01 55	02 03	4
26412	HD 204038	21 ^h 20.8	+33° 16	"	"	016	26.6	02 10	03 06	1
26413	BD +47° 781	03 ^h 27.3 ^{06.4}	+47° 33 ^{43.5}	"	"	008	26.9	03 20	0 ⁴ / ₇ 22	2
26414	HD 21661	03 ^h 24.7	+49° 04	"	"	"	26.8	0 ⁴ / ₇ 28	0 ⁴ / ₇ 34	3
26415	HD 11905	01 ^h 51.9	+41° 12	"	"	"	26.7	0 ⁴ / ₇ 41	0 ⁴ / ₇ 53	4
F1	Focus Test									
F2	" "									
	Sat.	180	Visitas		showed Saturn to both					
					Ml & Cn					

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Date Jun-Mon Sept 2-3 1962 Observer CW-HS Julian 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.
26416	HD 174853	18 47.5	+13 51	I-25	Daob	.008	24.5	19 43	19 53	1
26417	HD 172187	18 33.7	+43 08	"	"	"	24.7	20 01	20 19	2
26418	(a) HD 191020	19 57.9	+73 21	I-25	Daob	.016	24.9	20 36	21 04	3
26418	HD 191243	20 03.8	+34 08	I-25	Daob	.008	24.7	21 14	21 30	3
26419	HD 192659	20 10.9	+41 48	I-25	Daob	.008	24.3	21 38	22 02	4
26420	HD 199892	20 54.9	+41 33	I-25	Daob	.008	24.4	22 06	22 18	1
26421	HD 202862	21 13.6	+42 16	I-25	Daob	.008	24.5	22 23	23 03	2
26422	HD 209288	21 57.1	+10 29	I-25	Daob	.008	24.6	23 11	23 29	3
26423	HD 215143	22 38.0	-02 29	I-25	Daob	.008				4

Dome Temp. 73°

Focus 15.53

Dome Temp.

clouds 20° above horizon | E10
 Transparency Conditions everywhere except SE
 20 45 light cloud starting to move up
 from NW
 21 10 clearing slightly

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
53	0	22E+13	54	0-16	07	B9	9-9 lit 5 738-B9 Program	④ 5576 5580 fine
19	2	0	12W+43	10	0	6.40	A5 6-6-6 lit 5 N SB	⑫ 5581 5593 fine
04	3		173 32	0	8.5	F5 3-	lit 5 FEB 20 50 cloud	⑩ 5596 5610 v. wh
30	3	0	07E+34	16	0	6.02	B8 6-6-6 lit 8 88-B9 Program	⑫ 5613 5625 fine
02	0	18W+42	58	0	6.37	B8	6-6-6 lit 5 88-B9	⑫ 5628 5638 fine
18	1	0	09E+41	46	0-1	6.01	B9 6-6-6 lit 5 738-B9	⑫ 5640 5652 fine
07	2	0	16W+42	30	0	6.04	B8 6-6-6 lit 5 738-B9 22 25 clouds	⑫ 5654 5666 fine
29	0	0	02E+18	45	0	6.31	B8 6-6-6 lit 5 738-B9	⑫ 5668 5680 fine
							lit 5 738-B9	

0015 COMPLETELY OVERCAST

3 P. H. Parallel.

111

Mo/Tu.

(Gg) (me)

Date Sep 3/4 1962 Observer F - F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26423	35 Sgr	18 49.1	-22 48	I-25	IIoOB	008	23.8	19:56	20:10	4
26424	HD172187	18 33.7	+43 08	"	"	"		20:20	20:40	1
26425	HD 190020	19 57.9	+73 21	"	"	01.6	23.8	20:51	22:14	3
26426	HD 204038	21 20.8	+33 16	"	"	01.6	23.9	22:22	23:30	4
26427	HD 172187	18 33.7	+43 08	"	"	008	24.0	23:35	00:01	1
26428	HD 217224	22 54.2	+67° 52	"	"	008	23.8	00:08	00:54	2
26429	HD 1064	00 09.8	-10 07	"	IIaOB	008		01 03	01:13	3
26430	HD 1256	00 11.7	-20 46	"	IIaOB	008	23.8	01:20	01:54	4
26431	HD 7019	01 05.5	+37 12	"	IIaO	"	23.7	02 05	02 17	2
26432	HD 5837	01 22.0	+39 48	"	IIaO	"	23.7	02 21	02 35	3
26433	HD 9298	01 26.4	+34 18	"	IIaO	"	23.6	02 40	02 50	4
26434	HD 19736	03 05.5	+42 01	"	IIaO	"		03 00	03 06	2
26435	BD +47 781	03 06.4	+47 43.5	"	IIaOB	"	23.7	03 12	04 22	1
26436	HD 16727	02 35.8	+54 41	"	"	"	23.6	04 26	04 32	2
NEXT PAGE										
Plates 26424 and 26427 on same plate Plates 26431, 2, and 3 on same plate										

Dome Temp. 71°F @ 20h 63°F @ 0h

Focus 15.53 24.0C

Dome Temp.

Transparency Conditions Fine - cloud in S.W.

21h - cloud gone

01h - cloud in S.W. - from S.W.

02h - S clouding in - thin

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Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	00 10E	-22 44	0	6.1	K3P	6-6-6	Set 3 9g HV Field Drawn Sens 7 (11) 5730	fine
40	0:37W	+43 10	0-1	6.4	A5	9-9	N-S-B Set 4 1/2 Field ✓ Sens 7 (12) 5733 5745	fine
4	0:51W	+73 28	0-1	8.5	F5	3-3-3	F-EB Set 3 Field ✓ Sens 9 (10) 5751 5851	fine
20	0:40W	+33 29	0	8.0	A3	3-3-3	Set 3 F-EB Field Correct Sens 9 (12) 5856 5976	fine
1	0:35W	+43 10	0	6.4	A5	6-6-6	Set 9 N-S-B Field Correct & drawn Sens 7 (12) 5978 5990	fine
2	0:31W	+68 10	0-1	7.8	B8	6-6-6	Set 3 F-EB Field Checks Sens 8 (30) 5992 6022	fine
3	0:26E	-09 49	0	5.7	B9	9-9	Set 6 B8-9 Sens 6 (4) 6024 6028	fine
4	0:13W	-20 26	0-	6.4	B8	9-9	Set 6 B8-9 Only in Field Sens 6 (4) 6029 6033	fine
17	0:18E	+37 28	0-	5.7	B8	9-9	Set 3 B8-9 B1* Sens 6 (5) 6035 6040	fine
35	0:16E	+40 06	0-	6.3	B9	9-9	Set 6 B8-9 Field Checks Sens 6 (5) 6042 6047	fine
50	0:05E	+24 34	0+	6.2	B8	9-9	Set 3 B8-9 Field drawn Sens 6 (5) 6048 6053	fine
06	0:00E	+42 3	1	6.0	B8	9-9	Set 6 B8-9 Sens 6 (5) 6055 6060	fine
22	0:14E	+47 56	2-	8.5	K?	6-6-	Set 3 F-EB Field Checks Sens 9 (20) 6062 6182	fine
32	0:16W	+54 55	1	5.6	B8	9-9	Set 6 B8-9 Sens 6 (4) 6185 6189	fine

⊕ PH 2 came open before exposure.
PLATE DISCARDED TO BE SAFE

Gem: Had more IIa OB Plates

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CONTINUED FROM PREVIOUS PAGE

Date M/T Sept 3/4 am Observer (me) - F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26437	HD 22316	03 30.5	+56 37	I-25	IIaOB	008	24 ⁰	04 37	04 44	3
26438	HD 23383	03 39.7	+55 37	I-25	IIaOB	.008	24	04 47	05 03	4
	Focus Test									
Jerry: NEED IIaOB PLATE										

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 1.9 E	+56 47	1+	6.2	B9	9-9	B8-9 Sit 3 Full checks Sens 6 (4)	6191 6195 <i>fine</i>
30 06 E	+50 45	0+	6.02	B9	9-9	B8-9 Clouds! Sens 6 (4)	6196 6200 <i>fine</i>
					20/16		OUTSIDE NOT THERE
		1	PH	loaded	π.0B		

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

Transparency Conditions

1.16

Focus 17.0 $15.54 - 11 = 15.43$

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Sens	cli.	Quality
35 0:21 E	+43° 10'	1	6.40	A5	6-6-6	Set 2 N-SB	(13)	7	{ 6222 6235
17 1:17 W	+63 41	1	7.25	...	6-6-6	Set 5 KA8x8	(30)	8	{ 6239 6270
86 0:38 E	-12 29	0	6.39	B9	6-6-6	Set 5 138-139 Field ✓	(13)	7	{ 6274 6287
54 0:27 W	-14 56	0	6.14	B9	6-12	Set 5 138-139 Field ✓ also 21:15 on rain at 00:30 closed up.	(13)	7	{ 6289 6294
						3 PH loaded IIa 0 B.			

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Date Th/Fr Sept 6/7 1967 Observer vdB(Dg) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
1986-223	α Lyr	18 35.6	+38 45		4/4/14	28		1928	
1987-223	ϵ CrB	16 07.6	+36 35		6/4/33	28		1950	
1988-223	ϵ CrB	16 07.6	+36 35		6/4/33	28		1959	
1989-223	R 427	17 38.3	+37 14		7/5/33	28		2016	2245
1990-223	R 427	17 38.3	+37 14		7/5/33	28		2029	
1991-223	γ Dra	17 55.8	+51 30		5/5/33	28		2045	
1992-223	γ Dra	17 55.8	+51 30		5/5/33	28		2053	
1993-223	R 467	19 23.8	+24 50		6/5/33	28		2108	
1994-223	R 467	19 23.8	+24 50		6/5/33	28		2118	
1995-223	R 476	19 32.1	+33 07		6/6/33	28		2134	
1996-223	R 476	19 32.1	+33 07		6/6/33	28		2144	
1997-223	R 480	19 50.3	+11 32		6/5/33	28		2200	
1998-223	δ Cyg A	21 05.0	+38 30		6/5/33	28		2215	
1999-223	δ Cyg A	21 05.0	+38 30		6/5/33	28		2224	
2000-223	δ Cyg A	21 05.0	+38 30		6/5/33	28		2235	

Dome Temp.


Focus

Dome Temp.

CO₂ in 19:00
V = 700Transparency Conditions OK, polar air, a few decaying ci low in E.
21:00 very fine

half moon up

118

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:15 E		10"	0.04	AOV		EXT. ST. (Vatw soon after CO ₂ in) (very thin ci), coming from	
2:29 W		7"	4.74	KOIII-IV		ΔHV	
2:38 W		7"	4.74	KOIII-IV		ΔHV	
1:27 W		5"	8.37	SOV		ΔHV  most ST in S-wind	
1:40 W		5"	8.37	SOV		ΔHV	
1:38 W		5"	2.22	KSIII		ΔMK	
1:46 W			2.22	KSIII		ΔMK	
0:30 W			6.19	F6V		ΔHV	
0:40 W			6.19	F6V		ΔHV	
0:53 W			6.60	SOV		ΔHV	
1:03 W			6.60	SOV		ΔHV	
0:59 W			6.14	SOV		ΔHV	
0:00			5.19	KSIV		ΔMK	
0:10		5"	5.19	KSIV		ΔMK Drifted!	
0:20			5.19	KSIV		ΔMK	

Dome Temp.

Transparency Conditions

Focus

22:30 very fine
01:45 PE Sect!
moon sets 2245

Dome Temp.

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:53W + 1:54W			8.3	-		⊕	
1:18W + 1:18W			11.45	I		⊕	
0:05 E			5.53	S4E		ΔHK	
0:05 W			5.53	S4W		ΔHK	
0:03 E			8.17	S4FB		ΔHV	
0:07 W			8.17	S4FB		ΔHV	
0:30 E + 0:10 E			8.8	S		Sol 2" not well centered	} use same sky
0:05			8.8	S		Sol N.B multiply sky by 36/28	
0:30 W			5.0	S		Sol	
0:45 E			4.27	B9 III		EXT-ST 1" x poor centering	
0:27 E			4.27	B9 III		EXT-S	
						<u>clouds</u>	

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① 164 52 03.5
3495.7Date Fri/Sat Sept 7/8 1962 Observer Hd - Jpt. Julian Day 2437915.54
Dg

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26443	HD 161285	17 39.6	+63° 44'	I-25	IIaOB	slit .008	18°C	19 54	20 16	1
26444A	HD 172187	18 33.7	+43° 08'	"	"	"	"	20 27	20 39	2
26445	HD 190020	19 57.9	+73° 21'	"	"	0.012	19.0	20 50	21 54	3
26446	HD 184467	19 29.5	58 24	"	"	008	19.0	22 00	22 14	4
	"	"	"	"	"	"	"	22 14	22 24	4
26447	HD 212943	22 22.8	+4 42	"	"	"	19.0	22 32	22 37	4
								22 37	22 41	4
26448	HD 204038	21 20.8	+33 16	"	"	00.8	19.1	22 49	23 17	1
26449	HD 217312	22 54.8	+62 32	"	"	"	19.0	23 25	23 45	3
26444B	HD 172187	18 33.7	+43 08	"	"	"	"	23 55	00 21	2
26450	HD 217224	22 54.2	+67 52	"	"	"	19.0	00 33	01 07	4
26451	HD 1256	00 11.7	-20 46	"	"	"	19.0	00 17	01 31	1
26452	HD 1064	00 09.8	-10 07	"	"	"	19.0	01 37	01 47	2
26453	HD 204038	21 20.8	+33 16	"	"	"	"	01 58	03 18	3
26454	BD 47° 781	03 06.4	+47 43.5	"	"	"	19.2	03 30	04 34	4
26455	HD 21661	03 24.7	+49 04	"	"	"	19.1	04 44	04 52	1

Dome Temp. 65°

Transparency Conditions

Clear

122

Focus 1544

Dome Temp. 56°

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
16 1	W 1 ^h 25	+63° 49'	3	7.25		6-6-6 set 5 KA 8x8 mag. sens 7	6299 6311	fine
7 2	W 0 ^h 52	+43° 08'	3	6.40	A5	6-6-6 set 2 N binary sens 6	6314 6320	fine
54 3	W 46 ^m	+73° 29'	2	8.5	F5	5-4-5 set 5 F binary sens 8	6323 6353	fine
14 4	W 1 32	58 30	3	7.5	A5	9-9 set 1/2 std vel. sens 7	6357 6373	} fine
24 7	W 1 43		4	"	"	9-9 set 3 " " 7	6374 6390	
37 -		+4 27	3	5.9	K0	18 " 7 "	" 6 6396	
41	E 55 ^m		4	"	18	" 9 1/2 " F bin " 6	6405 6413	
19	W 43 ^m	33 30	4	8.0	A3	6-6-6 " 5 F Bin " 8	6414 6444	fine
45	E 23 ^m	62 51	3	7.8	B0IV	6-6-6 " 2 1st Bin " 8	6446 6482	fine
21 2	4 35 ^w	+43 10	2	6.40	A5	6-6-6 Set 5 N Bin. " 6	6484 6489	fine
07 4	1 00 W	+68 11	3	7.8	B8	6-6-6 Set 5 F Ecl. Bin. field check 8 (10)	6496 6520	good (fading)
31 1	0 07 W	-20 25	1-2	6.40	B8	6-6-6 Set 2. B8-B9 415-2 " 6	6521 6525	dark
47 2	0 23 W	-9 50	0-1	5.79	B9	6-6-6 Set 5 B8-B9 " 6	6526 6530	trans
18 3	4 44 W	+33 30	0-1	8.0	A3	6-6-6 Set 5 F Ecl. Bin. " 8 (21)	6531 6552	fine
4 34	0 14 W	+47 57	1-2	8.5	K	6-6-6 Set 5 F Ecl. Bin. " 9 (20)	6553 6673	fine
4 52 1	0 14 W	+49 14	1-2	6.30	B9	6-6-6 Set 2. B8-B9 " 6	6675	fine

Dome Temp.

Transparency Conditions

Very good night 124

Focus

Dome Temp.

Mag Time
S.T.

P.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20 W.	+56 48	2	6.25	Bg	6-6	Set 5. B8-Bg Set 6 2 PH's loaded.	6680 6684 fine not a focus test!

Dome Temp.

Transparency Conditions

Poor

1.26

Focus 15.47

Hd + Con showed 160 variations P & S

Dome Temp.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
322	WZ 49	43.10	0	6.4	A5	6-6	nt 5 N of Bin. also 6 6688 6693	
353	WZ 10	46 42	0-1	6.13	B9	6-12	" 5 B8-B9 prog stay filling in probably NGC" 6 6694 6696	found(?) focus OK
						20/16	" 8	

Dome Temp. 62°F h occulted ~ 10:40 EDT(I)
 Focus 15.50 23.45 cloud low in NW
 Dome Temp. 02^h heavy black cloud in NW
 - still windy
 03 20 cloud moving up

Transparency Conditions Rain & wind slown at sunset 128
 opened up but mirrors was 70% dewed over;
 allowed to dry. Windy still at 22^h.

g Time S.T.	PL	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	14	—	—	2-	8.0	A3	3-3-3	net 5. FSB field OK (120) .9 { 6722 6842	
43	0	48W	+68 11	1-0	7.8	B8	5-4-5	net 8 false start on net 5 (120) 9 { 6866 6986	
10	2	05E	+47 42	2	5.77	B9	9-9	net 8 false start on net 5 (120) 6 { 6990 6994	
30	3	0 18W	-09 49	0-1	5.74	B9	9-9	net 5 " " field check 4 { 6996 7000	
30	4	0 47W	-20 27	0	6.40	B8	9-9	net 5 B8-B9 only star in field 4 { 7001 7005	
23	1	0 15W	+37 30	0-1	5.7	B8	9-9	net 5 B8-B9 image very unsteady 4 { 7006 7010	
38	1	0 10W	+34 34	1	6.23	B8	9-9	net 5 B8-B9 " " 4 { 7012 7016	
36	3	0 34E	+47 55	1-0	8.5	K	6-12	net 5 3 25 stars! (120) 9 { 7017 7069	
							20/10	net 8	
								03 40 looked like rain - cloud up	
								3 PH loaded II as B	

Dome Temp.

300V
NO CO₂

Transparency Conditions

partly cloudy

130

Focus

Dome Temp.

g Time
S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0.05W

3"

6.02 K7V

MKΔ

Extra care taken to keep comp. A out!

relunched out

131

Date Wed/Thu Sept 12/13 1962 Observer Dg Julian Day 238

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
26467	HD 172187	18^h 23.7	+43° 08'	F 25	Ilford-B	set to 28	238		
225-2013	ICrB	16 07.6	+ 36 35		5/5/33	28		19 37	
2014	ICrB	16 07.6	+ 36 35		5/5/33	28		19 47	
2015	π Her	17 13.7	+ 36 52		5/4/33	28		20 04	
2016	π Her	17 13.7	+ 36 52		5/4/33	28		20 14	
2017	72 Her	17 19.2	+ 32 32		5/5/33	28		20 34	
2018	72 HU	17 19.2	+ 32 32		5/5/33	28		20 44	
2019	110 HU	18 44.0	+ 20 30		5/4/33	28		21 12	
2020	110 Her	18 44.0	+ 20 30		5/4/33	28		21 22	
2021	γ Dra	17 55.8	+ 51 30		4/5/33	28		21 44	
2022	γ Dra	17 55.8	+ 51 30		4/5/33	28		21 54	
2023	γ Dra	17 55.8	+ 51 30		4/6/33	28		22 05	
2024	ϵ Cyg	20 44.7	+ 33 49		4/5/33	28		22 22	

Dome Temp. 73°F

Focus 15.51

Dome Temp.

900V
no CO2

Transparency Conditions

MoT photo metric

probably OK for Δ

21:00 Night quite good Full Moon

22:30 cloud bank movement

132

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			4.4	A5	II	N spectral, dis, ...	
2:42W		3"	4.74	K0 III-IV		Δ MK	
2:52W			4.74	K0 III-IV		Δ MK	
2:02W			3.4	K3 I		Δ MK	
2:12W			3.4	K3 I		Δ MK	
2:28W				S0 I		Δ HV	
2:38W				S0 V		Δ HV	2d x repeated (slide)
1:40W				F6 V		Δ MK	
1:50W				F6 V		Δ MK	
3:01W				K5 II		Δ MK	
3:11W				K5 II		Δ MK	
3:21W				K5 III		Δ MK	
0:58W				K0 III		Δ MK	cloud down

133

Date Tu/Sat Sept 14/15 1957 Observer 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.
226-2025	δ Boo	14 13.8	+19 24		4/4/33	28		19 10	
226-2026	δ Boo	14 13.8	+19 24		4/4/33	28		19 16	
226-2027	π Her	17 13.7	+36 52		4/6/33	28		19 31	
226-2028	π Her	17 13.7	+36 52		4/6/33	28		19 40	
226-2029	R 467	19 23.8	+24 50		5/5/33	28		19 55	
226-2030	R 467	19 23.8	+24 50		5/5/33	28		20 05	
226-2031	R 476 (unt)	19 32.1	+33 07		5/6/33	28		20 20	2x + sun
226-2032	R 476 (unt)	19 32.1	+33 07		5/6/33	28		20 35	
226-2035	4494	20 29.6	+36 48		6/4/33	28		21 17	
226-2033	^{+230 21 12} R 476	19 32.1	+33 07		5/9/33	28		20 52	2x + sun
226-2034	^{+230 21 12} R 476	19 32.1	+33 07		5/5/33	28		20 02	
226-2036	4494	20 29.6	+36 48		6/4/33	28		21 27	2x + sun
226-2037	4494	20 44.7	+33 49		5/3/33	28		21 44	
226-2038	4494	20 44.7	+33 49		5/3/33	28		21 54	
226-2039	61 G ₂ B	21 05.0	+38 30		6/4/33	28		22 07	
226-2040	61 G ₂ B	21 05.0	+38 30		6/4/33	28		22 17	2x + sun

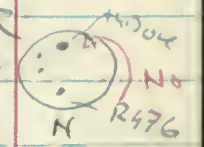
Dome Temp. NO CO₂
 Focus V = 900
 Dome Temp.

Transparency Conditions ... very fine
 Almost Full moon

134

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04:15W			0.06	K2II _p	ΔHV		
04:21W!			0.06	K2II _p	ΔHV		
01:35W			3.4	K3II	ΔMK		
01:44W		5"	3.4	K3II	ΔMK		
00:10E		3"	6.19	F6V	ΔHV		
00:00			6.19	F6V	ΔHV		
00:08W			6.60	S0I	ΔHV	Map in Error	
00:23W			6.60	S0V	ΔHV	(id. map upper row) wrong star? ←	
00:08W			6.17	F5Iab	ΔMK		
00:40W			6.60	S0V	ΔHV		
00:50W			6.60	S0V	ΔHV	same two stars " " "	
00:18W			6.17	F5Iab	ΔMK		
00:20W		7"	2.45	K0III	ΔMK		
00:30W			2.45	K0II	ΔMK		
00:20W			6.02	K7V	ΔMK		
00:30W			6.02	K7V	ΔMK		



135

ContinuedDate Fr/Sat Sept 14/15 1967 Observer vdB - 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.
226-2041	61 Cyg A	21 05 0	+38 30		613/33	28		2234	
226-2042	61 Cyg A	21 05 0	+38 30		613/33	28		2244	
226-2043	ε Peg	22 05.2	+25 04		513/33	28		2258	
226-2044	λ Peg	22 05 2	+25 04		513/33	28		2308	
226-2045	η Peg	22 41 1	+30 00		513/33	28		2314	
226-2046	γ Peg	22 41 1	+30 00		513/33	28		2324	
226-2047	HR 8752	22 58.5	+96 40		515133	28		2355	
226-2048	HR 8752	22 58.5	+96 40		515133	28	12.9	2355	
26467	HD 7546	01 10.5	47 33	I-25	IIa06	008	17.7	0042	0118
26468	" 10260	01 35.3	60 32	"	"	"	"	0229	0247
26469	BD+47°781	03 06.4	47 43	"	"	"	17.3	0309	0515
	Foams Tests		0713						

Dome Temp.

Transparency Conditions Re Sect

-136

Focus

Full moon

Dome Temp.

0330 Some Thin CloudsEnding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0030W			5.19	KSV	MKD		
0040W			5.19	RSV	MKD		
0112W		6"		FSV	MKD		
0122W				FSV	MKD		
0105E			2.96	2 III - III	MKD		
0105W		8"	2.96	2 II - II	MKD		
0105W			4.99	50 Ia	MKD		
015W			4.99	50 Ia	MKD		
0039E	+47 52	00	6.45	B8	6-6-6	Set 5 B8-B9 Prog, #7 ⁷⁰⁸⁴ 7096	
0125W	60 50	00	6.58	B8	6-6-6	" " " " " #7 ⁷¹³⁰ 7141	
0122W	47 54	00	8.5	K	6-6-6	" 5 Eci Bin F. #9 ⁷¹⁴³ 7218	
					20/15	" 8	
						IP.H found in ring.	

137

180 v. d. f. o. v. s.
Saturn Shows

Date Sat/Sun Sept 15/16 1962 Observer vdB - 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
227-2049	ε Cyg	20 44.7	+33 49		5/4/33	28	21 35			
227-2050	γ Peg	21 42.8	+17 09		6/4/33	28	21 47			
227-2051	γ Peg	21 42.8	+17 09		5/4/33	28	21 57			
227-2052	1 Peg A	21 20.3	+19 38		5/4/33	28	22 10			
227-2053	1 Peg A	21 20.3	+19 38		6/4/33	28	22 20			
227-2054	ε Peg	21 42.2	+09 40		6/3/33	28	22 31			
227-2055	ε Peg	21 42.2	+09 40		6/3/32	28	22 41			
227-2056	δ Aqr	22 03.7	-00 30		6/3/33	28	22 52			
227-2057	δ Aqr	22 03.7	-00 30		6/3/33	28	23 02			
227-2058	η Peg	22 41.1	+30 00		5/5/33	28	23 18			
227-2059	η Peg	22 41.1	+30 00		5/4/33	28	23 27			
227-2060	R 540	22 43.8	+30 14		6/5/33	28	23 43			
227-2061	R 540	22 43.8	+30 14		6/5/33	28	23 53		2x + sky	
26470	HD 16440	2 ^h 33.2	+68 03	I25	IIaOB	008	17.0°C	00 ^h 45	02 ^h 28	3
26471	BD +47° 781	3 ^h 06.4	+47 43.5	I25	IIaOB	008	17.5°C	02 ^h 42	04 ^h 41	4
	Focus Test		07B/17A							

Dome Temp. 56°

Focus 15.43

Dome Temp.

V=750

NO CO₂

Transparency Conditions Very Fine ✓

138

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:14W		5"	2.45	K0 III	MKD		
0:31E			4.4	S5 Ib	MKD		
0:21E		7"	4.4	S5 Ib	MKD		
0:14W			4.09	K1 III	MKD		
0:24W			4.09	K1 III	MKD		
0:12W			2.4	K2 Ib	MKD		
0:22W			2.4	K2 Ib	MKD		
0:12W		10"	3.1	S2 Ib	MKD		
0:22W			3.1	S2 Ib	MKD		
0:02E			2.96	S2 II-III K1 III-IV	MKD		
0:08W			2.96	S2 II-III K1 III-IV	MKD		
0:29W			6.37	K1 III-IV	HVD		
0:35W			6.37	K1 III-IV	HVD		
0 ^h 48E	+68°19	0+	8.0	B III	6-6-6	vdB hi lum near SU Cas Set 5 Seno 9	7327 7347
0 ^h 54W	+47°56	0	8.5	~K	6-6-6	F Eclip Binary Set 5 Sen 9	7353 7473
					20/15	Set 9	3PH loaded in fig

139

Date Tues Sep 18-19/62 Observer Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
^z 26458	HD187691	19 46.2	+10 10	I-25	IIaOB.	008	+16.1	19 37	19 59	1
	"	"	"	"	"	"	"	20-04	20 22	1

Dome Te

Focus

Dome Te

Hour Am

End

3.7

0.5

Dome Temp. 58 F

Transparency Conditions

140

Focus 15.41

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						stars 6 7476	
E 17 ^m	+10 16	0	5.8	Fg	6-6-6	set 2. Std Vel. stars 6 7478	
						clouds 20% (this 1st offset window) stars 6 7486	
W 7 ^m						" 5 " (2nd lower one in field) stars 6 7487	
						stars 6 7490	
						rain!	

Dome Temp. 46° F

Transparency Conditions

142.

Focus 15.37

Dome Temp.

g Time S.I.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0	0 ^h 24 W	+42° 00'	0	6.37	B8	6-6-6	set 5 B8-B9 program	Sens. 6 7558 7563
0	0 ^h 25 W	+57° 06'	0	6.14	B8	6-6-6	set 5 passing clouds	Sens. 6 7564 7569
3	0 ^h 37 W	+50° 09'	0	6.42	B9	6-6-	set 5 Rain	Sens. 6 7570
						20-16-	set 9 Four Tet	

please give H.L.
from now on!!

143

Date Su/170 1962 Sept 23/24Observer VB

Julian 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.
228-2062	2 Lyr	18 35.6	+38 45		4/4/14	28		18 56		
228-2063	110 H ₂ O	18 44.0	+20 30		6/4/33	28		19 18		
228-2064	110 H ₂ O	18 44.0	+20 30		6/4/33	28		19 28		
228-2065	R 427	17 38.3	+37 14		8/3/33	28		19 44		
228-2066	R 427	17 38.3	+37 14		8/3/33	28		19 54	2x+sky	
228-2067	M 71	19 51.7	+18 40		8/6/40	28		20 18	2x2sky	
228-2068	M 72	20 51.0	-12 43		8/5/11.0	28		21 01	2x1sky	
228-2069	NGC 7006	20 59.3	+16 01		8/6/40	28		21 33	2x+sky	
228-2070	2 Aqr	22 03.7	-00 30		5/5/33	28		22 07		
228-2071	2 Aqr	22 03.7	-00 30		5/5/33	28		22 17		
228-2072	L Peg	22 05.2	+75 09		5/5/33	28		22 30		
228-2073	L Peg	22 05.2	+75 09		5/5/33	28		22 42		
228-2074	R 551	23 15.2	-14 07		8/3/33	28		23 02		
228-2075	O 551	23 15.2	-14 07		8/3/33	28		23 12	2x1sky	
228-2076	M 32	00 40.5	+40 30		8/4/40	28		23 35	2x+sky	

Dome Temp.

Focus

Dome Temp.

CO₂ in 18:10
V = 700

Transparency Conditions

Slight haze, prob. OK not too
2200 OK

744

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:20 W		8"	.004	A0V	EXT. ST		
0:30 W		8"		F6V	MKD		
0:40 W		5"		F6V	MKD		
2:02 W			837	G0V	ΔHV		
2:12 W			832	G0V	ΔHV		
0:25 W 10:50			8.3	G6	— ⊕	Distant spot in cluster!	
0:08 W 10:08			10.24	G3 IX	⊕		
0:32 W 10:50 W			11.45	F2 I	⊕		
0:04 E			31	G2 Ib	MKD		
0:06 W		4"	3.1	G2 Ib	MKD		
0:24 W		6"		F6V	MKD		
0:35 W				F6V	MKD		
0:16 E			8.7	Sd F8	ΔHV		
0:06 E			8.17	Sd F8	ΔHV		
1:00 E 10:57 E			8.8	G	—		

N.B. ...

Dome Temp.

Transparency Conditions

1:30 low thick fog. : 1.46

Focus 15.48 - 0.11 = 15.37

Dome Temp.

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
07	1 57 W.	+27 50	1	2.6	M2II-III	6-6-6	Set 4 FaCa by Sensy (18) 76.80. 76.95	
55	2 42 W.	+25 14	1-0	5.0	dk O	6-	Set 25 " Same exp. (15) 76.97. 30 min 1 1/2 cut	
35	2 0 58 W.	+34 34	0	6.23	B8	6-6-6	" 7 tried improving focus 7700 B8-B9 Sensy 7704	
12	3 0 47 W.	+39 38	1-0	6.46	B8	6-6-6	" 5 " Sensy 7705 7707	
58	4 1 18 W.	+39 26	0	6.26	B9	6-6-6	" 5 " " 7710 7715	
8	1 0 32 W.	+36 51	0	6.31	B9	6-6-6	" 5 " " 7719	

Dome Temp. 55
 Focus 15:40
 Dome Temp.

Transparency Conditions Scattered Cloud - l. Poor 1.50
Cloudy earlier.
0:30 Cloud in N. - Heavy

Hour	Angle Epd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
236	2 28	55 15	1	6.04	B9	6-6-6	Set 5 B8-B9 prog. <u>guiding badly</u> sens 6 7728 7732	FINE
1 4	07	+33 32	1	8.0	A3	3-3-3	F-EB Field ok (30) sens 8 7733 7753	FINE
							0:40 star obscured 00:55 clear in W :45 patchy in W - cloudy elsewhere	
3	45	+58 00	1+	3.6	K1IG	6-6-6	Set 3 F-Ca Mv (15) Sens 4 7766 7781	Ca Wk
5	2 41	+46 15	1+	4.3	G7	6-6-6	Set 5 F-Ca Mv (15) Sens 4 7783 7798	Ca FINE
01	28 17		2	3.6	MOTI	9-9	Set 3 F-Ca Mv (15) 7800 7818	Ca FINE
01	20	+35 27				Set 7 7820 7838	Ca FINE	
00	15	+39 28	2	6.26	B9	6-6-6	Set 3 B8-9 Field looks Sens 6 4) 7853 7857	FINE
00	45	+40 38	2-	6.46	B8	6-6-6	Set 6 B8-9 " " " " 7860 7864	FINE
00	35		2	5.61	B8	6-12	Set 3 B8-9 " " " " 7865 7869	FINE
00	43	+55 44	2	3.9	K3IG	NO COMP	Set 1 F-Ca Mv (15) 7871 7877	CA WEAK
00	39	+42 13	1	5.95	B8	6-6-6	Set 8 B8-9 Sens 6 4) 7891 7915	FINE
							01:30 Clouds still patchy	
							NEED FLASH LIGHT BATTERY	

(P10)

Dome Temp.

Transparency Conditions

good - 02 hr

152

Focus

Dome Temp.

ng Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29W	+56 47	1	6.25	B9	6-6	Set 3 B8-9 Field ✓ Sens 6 (4) 7898 7902	
31W	+55 45	1	6.02	B9	9-9	Set 8 B8-9 " " " (4) 7904	EXAMPT 1019'20' VOKA
14W	+48 15	2	4.3	COIG	9-9	Set 4 FCMv SAME PLATE AS 26490 Sens 4 (15) 7907 7925	Ca FINE
10E	+33 03	2	2.9	K3II	18	Set 8 FCMv " 16 7925 7941	Ca Good
21W			1.1	K5I	12	Set 1 FCMv " 18 7957 7975	
23W	+16 24	1			NO comp	Set 4 7980 7998	
43W	+23 32	1	6.42	B8	6-6-6	Set 3 B8-9 Sens 6 4 8001 8005	
9E					18	set 7 FCMv Sens 4 (1) 8007 8025	
17E		1	0.9	M2Iab	NO comp	Set 10 FCMv Sens 4 (18) 8027 8045 8049	
03 E	+09 29	1	6.0	B9	6-6-6	Set 7 B89 Sens 6 (4) 8052	
					20/16	Set 10	
						5:25 DAWN (15m early!)	
						2 PH's loaded	
						4:5 Flap full closed	
						03 50 Stars on slit	
						FRANK:	
						FXP METER NOT COUNTING	
						07:00 J. ... - MAKE ...	

153

Date 10/12 OCT 1-2 1962Observer 3

Julian 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.
229-2077	Lyr	18 35.6	+3845		4/4/14	20		18 56		
229-2078	R402	16 52.0	+4254		6/5/33	28		19 18		
229-2079	R402	16 52.0	+4254		6/5/33	28		19 28		
229-2080	Π 71	19 51.7	+1840		8/5/40	28		19 47	2x +15u	
229-2081	Π 72	20 51.0	-1243		8/5/40	28		20 22	2x +15u 2x	
229-2082	NGC 7006	20 59.3	+1601		8/6/40	28		21 03	2x +25u	
229-2083	RS05	20 52.1	+5422		7/4/33	28		21 43		
229-2084	RS05	20 52.1	+5422		7/4/33	28		21 53	2x +15u	
229-2085	RS40	22 43.8	+3014		6/5/33	28		22 15		
229-2086	RS40	22 43.2	+3014		6/5/33	28		22 25		
229-2087	RS55	23 27.5	-0445		6/5/33	28		22 38		
229-2088	RS55	23 27.5	-0445		6/6/33	28		22 48		
229-2089	RS55	23 27.5	-0445		6/6/33	28		22 58		
229-2090	Π 31	00 40.5	+4103		7/5/40	28		23 12	2x +15u	
229-2091	Π 32	00 40.5	+4030		7/5/40	28		23 50		

Dome Temp.

Focus

Dome Temp.

CO₂ in 1800

V = 750V

Transparency Conditions

Ci up to 10° ALT in Wards
Wind from N. Rest of sky OK, not AOK

2200 Fine

2400 Fine

154

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:50W		5"	0.04	AUV		EXT - Standard Trace looks a bit ragged	
2:55W		5"	6.81	50V		ΔHV	
3:05W		10"	6.81	50V		ΔHV	
0:26W + 0:40W		-	8.3	56		⊕	
0:00 + 0:08W			10.24	53		⊕	
0:34W + 0:45W			11.45	F2		⊕	
01:18E			7.12	K0 III		ΔHV	
01:28E			7.12	K0 III		ΔHV	
00 03E			6.37	K1 III-IV		ΔHV	
00.07W			6.37	K1 III-IV		ΔHV	
00.20E			6.23	K3 III		ΔHV	Ampl. too small
00.30E			6.23	K3 III		ΔHV	
00.00			6.23	K3 III		ΔHV	
00.55E			5.0	5		} use same sky	
00.20E			8.8	5			
See Next Page.							

Dome Temp. +54°FTransparency Conditions Good

156

Focus 15.40

Dome Temp.

Troub. w/dec clamp + clutch

g Time S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
33	3	0043W	47 52	1-2	6.45	B8	6-6-6	Set 5 B8 B9 Prog #6 8076 8082	
04		0103W	40 05	0-1	6.34	B9	6-6-6	" 5 " " " #6 8083 8088	
20		0055W	50 36	0-1	5.62	B9	18	" 5 " " " #6 8095	
		0125W	41 30	0	6.56	B9	6-6-6	" " " " #6 8097 8102	
1	3	0038W	+17 09	0-1	6.28	B9	6-6-6	" " " " #6 8103 8108	
		0128W	10 05	0-1	6.20	B8	6-6-6	" " " " #6 8110 8115	
							20/15	" 9	
								2 P.H. + 8 in Dome	
								56 28	
								09 47	

157

Date Fri Oct 12-13/62 Observer PA - 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.I.
26506	HD 180553	19 11.9	+27 17	I-25	IIa06	008	+17.9	18 51	19 39	1
26507	HD 196504	20 32.8	+26 07	"	"	"	+17.9	19 53	20 17	2
26508	HD 222207	23 33.5	+41 57	"	"	"	+17.9	20 25	21 19	3
26509	HD 212454	22 19.3	+56 47	"	"	"	+18.0	21 34	22 58	4
26510	HD 216057	22 44.6	+53 53	"	"	"	+17.9	22 48	23 06	1
26511	HD 584	0 5.2	+56 36	"	"	"	+17.2	23 14	23 40	2
26512	HD 2626	0 24.8	+59 25	"	"	"	+17.8	23 46	00 ^h 00	3
26513	HD 9612	1 29.2	+73 47	I25	IIa06	008	+17.7	00 ^h 21	01 ^h 03	4
26514	Focus Test			OTB/ISA						
							Sat. Oct 13, 1962			
							180 persons (at least!)			
							- showed Jupiter			
							UB/I/S#			

Dome Temp. 52.

Focus 15.44

Dome Temp.

Transparency Conditions high variable good :158
- esp in north

- clouded out from north at 100 EST

Gave up at 2 AM

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
39 1	1 ^h 31 ^m W	27 24	0	6.24	B9	6-6-6	Set 5. B8-B9 prog	runs 6 { 8124 8128
17 2	0 ^h 48 ^m W	26 17	0	5.50	B9	6-6-6	Set 5 B8-B9 prog.	runs 6 { 8129 8133
19 3	1 ^h 10 ^m E	42 16	0	6.8	B9	6-6-6	" N Bin	runs 7 { 8136 8138
58 4	0 ^h 42 ^m W	57 05	1	6.14	B8	6-6-6	" B8-B9 prog (Plate broken)	runs 8 { 8152 8182
06 1	1 ^h 25 ^m W	54 11	1	6.03	B8	12-6	" * B8-B9 .. (clouds)	runs 6 { 8187 8191
3-0 2	0 ^h 38 ^m W	56 56	1	6.49	B8	6-6-6	" B8-B9. check field as drawn. Does not resemble one in book.	runs 6 { 8193 8197
10 3	0 ^h 40 ^m W	59 46	0	5.96	B9	6-6-6	" B8-B9	runs 6 { 8195 8202
13 4	0 ^h 36 ^m W	74 05	-1	6.37	B8	6-6-6	" B8-B9 HR 449 very slow	runs 6 { 8204 8208

20/15

LTS

1 PH + 1 box in Dome

- viewing thru alternate finder telescope
very poor.

* 2 numbers on this plate; 265104 right

159

Date Tue-Wed October 16-17/1962 Observer Dg. - 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.
26515	HD 204038 HD 21242	21 ^m 20.8	+33° 16	I-25	IIa06	set .016	19.7°	20 ^m 38	00 12	2
26516	HD 21242	03 20.5	+28 23	"	"	008	19.8°	0032	01 48	3
26517	BD +47° 781 Fours Tent.	03 06.4	47 43.5	"	"	.016	19.5	0202	0546	4
		07B		"	"	"				

Dome Temp. 60°F

Focus 15.47

Dome Temp.

Transparency Conditions Clear - occasional clouds and haze

160

Cloudy Intervals after midnight

g Time S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12		20412 W	+33° 32	0	8.0	A3	3-3-3	Set 5 Eclips. Bin. (F) clouds from 22:05 to 22:45 more clouds!	8212
48		30013 E	+28 32	00	7.29	GSe	6-6-6	Set 5 (N)SB Progr.	#9 8245 8367
16		40400 W	47 58	00	8.5	K	3-3-3	" " Ecl Bin. (F) field checks	#9 8369 8481
							1/8	" 9	
								2 P.H. found +? in Dome.	

161

CW
Reynolds
Paterson
Ellis

Date Wed - Thurs Oct 17-18/1961 Observer Ed - L - I RM Julian 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.
26518	HD 204038	21 20.8	+33 16	I-25	IIaob	set .016	+14.2	18 40	20 26	1
26519	HD 216057	22 44.6	+53 53	I-25	IIaob	.008	+14.1	20 47	21 05	2
26520	HD 217833	22 58.4	+54 42	I-25	IIaob	.008	+14.2	21 23	21 ^h 43 ^m	3
26521	" 217224	22 54.2	67 52	"	"	"	+14.2	21 57	23 47	4
26522	HD 16066	2 29.8	+67 38	I-25	IIaob	.008	+13.8	00 ^h 32	1 ^h 39	1
26523	HD 26571	4 07.0	+22 09	I-25	IIaob	.008	+13.8	2 ^h 09	2 ^h 30	2
26524	HP 31747	4 53.3	+14 24	I-25	IIaob	.008	+14.0	2 ^h 49	3 ^h 00	3
	Focus Test 17A/0TB									

Dome Temp. 54°

Focus 15.39

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

Transparency Conditions

scattered cloud from N.W

19th heavy cloud from NW.19th clearing

1:45 EST - some cloud in west

2:10 general high thin cloud

- clouded out ~ at 3

(162)

Log Time S.T.	PL	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26	1	0 ^h 29 ^m W	+ 33° 31'	0	8.0	A3	3-3-3	Set 5 F eclipsing bin. sens 8	8487 8519
25	2	0 ^h 15 ^m E	+ 54° 13'	0	6.03	B8	6-6-6	Set 5 B8 - B9 Prog. sens 6	8519 8523
43	3	0 ^h 09 ^m W	+ 55° 02'	0	6.45	B9	6-6-6	Set 5 B8 - B9 Prog. sens 6	8524 8528
47	4	2 17 W	68 10	0-1	7.8	B8	6-6-6	Set 5 F Ecl. Bin. " 8	8530 8560
39	1	0 ^h 31 W	+ 67 55	-1	7.7	F2 II	6-6-6	Set 5 vd B. hi-lum stars on Mas sens 8	8568 8593
30	2	0 ^h 13' E	+ 22 18	-1	6.11	B8	6-6-6	Set 5 B8 - B9 Prog sens 6	8596 8601
30	3	0 ^h 25 E	+ 14 29	-∞	8.0	B9	6-12	Set 5 B8 B9 Prog incomplete sens 8	8602
							20/15	Set 8	

3 TH's loaded + one in box

163

F RM

Date Thu-Fri Oct. 18-19, 1962 Observer DG - F Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26525	^{HD} 217906	22 58.9	+27 32	I-25	IIa0B	008	13.8°	23:45	00 01	4
26526	1013	00 09.4	+19 39	"	"	"	-	00 06	00 40	7
26527	HD 6860	01 04.1	+35 05				14.2	00 48	01 54	2
26528	HD 17506	02 43.4	+55 29	I 25	IIa0B	008	14.2	01:02	01 24	3
26529 .1	HD 18884	02 57.1	+03 42	I 25	IIa0B	00.8	14.2	01:30	01 36	4
.2	"							01:36	01 50	2
26530	BD+47 781	03 06.4	+47 43.5	"	"	"	14.0	02:05	03 53	1
26531	HD 21242	03 20.5	+28 23	"	"	"	13.7	03:59	04 59	2
26532 .1	HD 29139	04 30.3	+16 19	"			14.0	5 09	5 11	3
.2	"								5 13	3
.3	"								5 15	3
26533	HD 31398	04 50.5	+33 00	"	"	"	14.0	5 20	5 30	4
26534 .1	HD 39801	05 49.8	+07 23					5 34	5 35	1
.2								5 35	5 38	1
.3								5 38	5 42	1

Dome Temp. 54°F

Focus 15.39

Dome Temp.

 Transparency Conditions *✓* Poor & passing cloud
 02h a bit improved seeing OK but
 very hazy with light moon 1.64

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	1 ^h 20		0	2.6	M2II-III	6-6-6	β Peg F-Ca Mv	Set 3 ^{rem 4} (20) 8607 8627
40	1 ^h 59	+20° 02	0	4.9	M2 III	6-6-6	γ Peg "	Set 3 ^{rem 4} (15) 8633 8639
54	2 ^h 18	+35° 25'	0	3.6	M0 III	9-9	β And "	Set 3 ^{rem 4} (25) 8640 8665
24	3 ^h 08	+55° 45'	0-1	3.9	M3 Ib	9-9	η -Peg "	Set 4 ^{rem 4} (25) 8669 8674
36	4 ^h 08	+03° 54	1	2.8	M2 III	9-9	α Alt "	Set 3 ^{rem 4} (15) 8696 8711
50	4 ^h 20		1			9-9	Set 8 " (25) 8711 8736	
53	4 ^h 15	+47 57	1+	8.5	K	6-6-6	F- ϵ l Bin	Set 3 " 9 (120) 8742 8862
59	2 ^h 3 ^h 06	+28 32	0+	7.29	G3e	6-6-6	N-SB ^{RA guiding} badly	Set 5 " 8 (40) 8865 8905 8909
3	4 ^h 08	+16 25	1+	1.1	K5 III	18	α Tau F-Ca Mv	Set 2 " 4 20 25
15	5 ^h 02					18		30
30	4 ^h 2 ^h 08	+33 04	1+	2.9	K3 III	6-12	ϵ Aur F-Ca Mv	8987 9012
35	4 ^h 01 13		1+	0.9	M2 Ia b	0	α Ori F-Ca Mv	comb : 0
38	4 ^h 01 16					18		25
42	4 ^h 01 20					18		30

PTD

Dome Temp.

Transparency Conditions

166

Focus

Dome Temp. 47° F

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03	11 ^h 15	+22 28	07	3.2	M3 III	9-9	μ gem	9102
16	11 ^h 07	+25 07	07	3.2	M3 III	9-9	ϵ gem	9127 9128 9142
						20/15		
							2 Plate Holders loaded in dome + 20	
	6.30	looked at noon					- seeing excellent despite dawn - v. small crater with 1 Plate broken in loading great detail	
							Many bright meteorites seen (Orionids?) 22 ^h - 23 ^h called Frank Lya doc	F-Dq

167

Tu 4 1357

Date Fri Oct 19-20/62 Observer Hid - H5 Julian Day Par

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26536 F ₁	Focus Test					008	+15.8			
26537	HD 216658	22 ^h 49.6 ^m	+61° 36'	I-12 1/2	IIa0B	.012	+17.0	18 45	19 43	4
26538	HD 216711	22 ^h 50.0 ^m	+62° 04'	I-12 1/2	IIa0B	.012	+17.0	20 00	21 08	1
26539	BD +63° 1962	23 ^h 12.8 ^m	+63° 15'	I-12 1/2	IIa0B	.012	+17.0	21 15	22 11	2
26540	BD +63° 1964	23 ^h 13.1 ^m	+63° 34'	I-12 1/2	IIa0B	.012	+17.0	22 22	23 04	3
26541	BD +62° 2210	23^h 14.5^m	+62° 57'	I-12 1/2	IIa0B	.012				4

Dome Temp. 64

Focus 12.63

Dome Temp.

Transparency Conditions

11:68

Oct 19

changed to
12 1/2 Camera

25" Was

Focus 15.39
Silt 23.15

12 1/2 F.

T. 20.35

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
Tilt 20.35	OTB				8/6	Set 1 Focus 12.50	
					8/6	" 4 12.60	} 12.63 would be best
					8/6	" 9 12.70	
					8/6		
43 4 E 1 35	+61° 54'	2	9.6	B ₀ V	2-2-2	set 5 This is S.F. of a double. OB prog p 22 sens 9	9145 9186
8 1 E 0 10	+62 20	2	9.7	B ₁ V	2-2-2	set 5 OB prog. p 22 sens 9	9190 9231
11 2 W 30 ^m	+63° 32'	2 → 1	8.2	B ₁ III	2-2-2	set 5 OB prog p 22 sens 9	9233 9273
04 3 1 ^h 20 ^m W	+63° 53'	1	8.5	B ₀ II	2-2-	set 5 OB prog. p 22 sens 9	9275 9316
			9.1	B ₀ IX		set 5 OB prog p 22 sens 9	
						Clouds after Midnight.	
						1 P. H. Loaded.	
Mr. Sg. L. H. Sab						174 visitors.	showed slides.
							demonstrated 74"

169

Date Sun Oct 21-22/62 Observer Ad - HV
RM - RM Julian 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 Exp.
26541	AD 216658	22 49.6	+61 36	I-12	IIaD.B.	0.12	+12.0	18 54	20 24	4	EO
26542	H.A. 216711	22 50.0	+62 04	I 12	IIaD.B.	.012	+11.8	20 37	00 08	1	025
	Floures Test.			O.T.B.	"	"				1	

Dome Temp. +48 F

Transparency Conditions

Good

170

Focus 12.63

Dome Temp.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
24	EO 46	+61 55	1	9.4	B. V	2-2-2	SF on pair. Set 5 OB Proj. p22 9334 9374	
8	10258W	+62°22	1 →	9.2	B. V	2-2-2	Set 5 OB Proj. P.22 some clouds. 9382 9416	
						8-6	" 9	
							3 P.H. Loaded - + ?	

171

Hemera
Smooth
Broughton
L — Hr
RM

Date *Wed Oct 24th / 62* Observer *HD* — *Hr* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26543	HD 216658	22 49.6	+61 36	I-12	IIaD B	012	4.9°	18 23	20 37	2
26544	HD 216411	22 50.0	+62 04	"	"	016		20 50	22 12	3
26545	HD 20579	03 13.6	+27 "	I 12	"	008"	4.6°	01 05	02 03	4
	Focus Test		O.T.B.							

Dome Temp. 34F

Focus 12.63

Dome Temp.

Transparency Conditions fair

172

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
24 2	5 ^h 19 ^m E	61 ^o 55	10	9.4	B04	2-2-2	Set 5 OB Prog p 22 lens 9	9426 9440
12 3	1 16 W	62 21	0-1	9.2	B1V	1-2-1	" " " "	9463 9505
							Light clouds toward end	
08 4	W0.43	+27 22	0	7.8	A6	3-3-3	Set 5 KA 6x6 Prog lens 8	9527 9537
						11-8 "9	2 PH loaded 6 in Box	
							No Flashlight in Dome	
							Telescope was 30' out of collimation	
							now Sixed! Sudo	
							Lights on Clocks not working	

173

Date Fr/Sat Oct 26/27 '62 Observer W.B. P. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26546	HD 217833	22 58.4 23 01.0	+54 42 55 02	IRIS	IIaOb	008	02c	29:45	21:58	1
26546										
26546 F ₁	Focus	12.76	72	OTB ITA		008		Expt ~ 8		4?
26546 F ₂	"	12.72	68	OTB ITA		008		~ 6 8 6		1
			R.M.							


Dome Temp. 35°1'

Transparency Conditions Partly cloudy

174

Focus

Dome Temp.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
58	1 ^h 00 W	55° 00'	1	6.45	B9	3+3+3	14R 8770AB" B&B9 pm 74" 	
	sp	temp					clanced out	
		7.2°C					Chris. Coombs 1 PH Loaded	
		7.0°C					Pat Hamilton	
							X10 Flashlight	

Dome Temp. 37°F

Focus 12.63

Dome Temp. 33°F

Transparency Conditions

Clouds at sunset clearing, some haze

1176

3:30 Clouds moving in slowly from SW

Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
25 2	01 02 ^m W	50 12	0	6.42	B ₉	2-2-3	B ₈ B ₉ Prog	Sens 6 9561 9563	
31 3	02 ⁿ 42 W	63 16	0+	9.1	B ₉ 14	2-2-2	OB Prog	Sens 9 9564 9603	
07 4	00 17 E	47 43	0+	8.3	A ₀	2-2-2	#507 a Persei	Sens 9 9606 9646	fine
26 1	01 42 W	47 48	0+	8.1	A ₀	2-3-3	#285 "	9650 9690	
54 2	02 12 W	47 58	0	6.7	G5 ^{II}	3-3-3	"	Sens 7 8 9693 9701	strong
43 3	03 00 W	47 55	0	8.5	K	3-3-3	F tel Bin	Sens 9 40 9702 9723	
						11-8	3:40 Clouded out. Clouds look now-like clearing up 4 PH's loaded		

177

30 stars w of waterloo

Date Nov 6/7 1962

Observer *RB*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
230-2092	α Lyr	18 35.6	+38 45		4/4/16	28		17:40		
230-2093	β Aqr	21 29.4	-05 46		5/5/33	28		18:07		
230-2094	β Aqr	21 29.4	-05 46		5/5/33	28		18:19	+ sky	
230-2095	44 Cyg	20 29.6	+36 48		6/6/33	28		18:36		
230-2096	44 Cyg	20 29.6	+36 48		6/6/33	28		18:46	+ sky	
230-2097	1 Peg A	21 20.3	+19 38		5/6/33	28		19:05		
230-2098	1 Peg A	21 20.3	+19 38		5/6/33	28		19:15		
230-2099	ϵ Peg	21 42.2	+09 40		5/5/33	28		19:28		
230-2100	ϵ Peg	21 42.2	+09 40		5/5/33	28		19:38		
230-2101	θ Peg	21 42.8	+17 09		5/6/33	28		19:49		
230-2102	θ Peg	21 42.8	+17 09		5/6/33	28		20:00		
230-2103	γ Psc	23 15.2	+03 04		5/6/33	28		20:38		
230-2104	γ Psc	23 15.2	+03 04		5/6/33	28		20:48	+ sky	
230-2105	HR 8752	22 58.5	+56 40		6/5/33	28		21:06		
230-2106	HR 8752	22 58.5	+56 40		6/5/33	28		21:16	+ sky	

Dome Temp. 39°F

17:00 V=700
NO CO₂

Transparency Conditions

Fine, a few contrails
→ 7th old

178

Focus

Dome Temp.

21:25 a few thin Ci patches

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 02W		8"	0.0	AOV		EXT. ST.	
0:28E		7"	3.0	S01b		MKΔ	} rather new moon, sky = 0
0:16E			3.0	S01b		MKΔ	
0:58W			6.17	F5Iab		MKΔ	
1:08W			6.17	F5Iab		MKΔ	
0:38W			4.09	K1III		MKΔ	
0:48W			4.09	K1III		MKΔ	
0:37W			2.40	K21b		MKΔ	
0:47W			2.40	K21b		MKΔ	
0:58W			4.40	S51b		MKΔ	
1:09W			4.4	S51b		MKΔ	
0:17W			3.68	S8II		ΔHV	
0:27W		5"	3.68	S8II		ΔHV	1 st century not very good
1:00W		8"	4.99	S0Ia		MKΔ	
1:10W			4.99	S0Ia		MKΔ	

over

Dome Temp.

Transparency Conditions

1/80

Focus


21:40 ci patches (Sant)

22:40 isolated 'ci' patches

Dome Temp.

23:30 Many ci, no longer photometric!

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:17 ^m E			3.45	S0V	ΔMK	} St. P type comparison excluded Difficult!	
007 E			3.45	S0V	ΔMK		
01:15 E		5"	5.20	S5V _p	ΔHV		
005 E			5.20	S5V _p	ΔHV		
01:24 W		5"	5.75	S2V	ΔHV		
01:34 W			5.75	S2V	ΔHV		
01:12 W		3"	5.84	K0V	ΔMK		
01:22 W			5.84	K0V	ΔMK		
01:15 E			2.86	B7 III	—		
					8/6	Cleared out 1:00	
					8/6	# P.H. loaded	
					8/6	3	
					8/6		
					8/6		
					8/6		
					8/6		
					5/6		

FOCUS SET 12.66
CW

181

Sun

Date Nov 11-12/62

Observer

FL Rm

Hd - Hr

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26552 F9	Focus test			I-12	^{probably} 1037a0	008	+6F			1
26553	BD +63° 1962	23 12.8	+63 15	I-12	IIaOB	012	+5.8	20 18	21 08	2
26554	BD +63° 1964	23 13.1	+63 34	"	"	"	+5.9	21 15	22 15	3
26555	FD 220771	23 21.4	54 34	"	"	"	+6.0	22 22	0 14	4
26556	BD +51° 723	03 15.3	+51° 18'	"	"	"	+6.0	00 37	03 39	1
	Focus test.		O.T.B.	"	"	"				

Dome Temp. Tu 4 1357Focus 38A 12.66Dome Temp. ↓

Transparency Conditions

1.82

clouds earlier

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	Fours	12.88			8/6	net 1	Three plates found in black box in spotting room. Why? What kind? One of them used for thin-plate test. Others left.	} OK
		12.84			8/6	" 5		
		12.80			8/6	" 8		
08	W 1 ^h 00	63 33	1	8.5	B1 III	2-2-2 net 5 ⁰ OB prog p22	sem 9 { 9783 9823	fine
2153	W 2 ^h 05	63 52	1	8.5	B0 II	2-2-2 " 5	" " " " " 9 { 9824 9864	fine
444	W 3^h 58	54 54	2	8.7	A5 I	2-2-2 " 5	" " " " " 9 { 9867 9901	nothing on plate.
3391	W 3 ^h 28	51 28	0	9.0	A3	2-2-2 " 5	α Per. Cen. Pa. lens 10 { 9912 9982	strong
					8-6	net 9		OK
							3 P.H. Pooled II aob	
							Plate M eaded.	
							Clouds after 0300.	

183

Date Wed Nov 14-15/62 Observer L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26556	HD 212986	22 23.2	55 56	I-12 $\frac{1}{2}$	EIIA0B	^{set} .008	+4.1	18 32	18 48	2
26557	" 22 0771	23 21.4	54 34	"	"	.012	+4.1	18 58	20 18	3
26558	BD 49° 938	03 21.0	+49 37	"	"	.008	+4.1	20 35	21 11	4
26559	{ " 48° 909	03 18.2	+48 58	"	"	.008	+4.1	22 11	22 45	1
	{ <u>Solar Test</u>				<u>OTB</u>					

Dome Temp. +37°F

Focus 12.66

Dome Temp.

Transparency Conditions

Light clouds

184

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
48 2	0 19E	56 14	0	6.37	B8	3-3-3	B8-B9 Prog Sens 6 { 9991 9993	fine
018 3	0 13W	54 51	0	8.7	A5T6	2-2-2	O B Prog " 10 { 9994 0070	string
11 4	2 55E	49 48	0-1	8.0	A0	3-3-3	L Persic Prog " 8 { 0079 0090	string
45 1	1 19E	49 10	0-1	8.4	A4	3-3-3	" " " clouds 8 { 0097 0104	string
						1 1/8	Clouded out	OK
							3 PHs loaded + 8	

185

Date On Nov 15 / 16Observer F-^{Hr}_{RM}

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26560	HD 216494	22 48.2	-12 09	I-12	II00B	008		18 32	18 42	1
26561	BD +62 2210	23 14.3	+62 57	"	"	008	2.6C	19 06	20 42	3
26562	HD 220771	23 21.4	+54 34	"	"	"	3.00C	20 53	22 33	4
26563	BD +47° 781	03 06.4	+47 43.5	"	"	"	3.00C	22 42	23 28	1
26564	BD +47° 782	03 06.4	+47 52	"	"	"	3.00C	23 32	23 52	2
26565 -	BD +47 792	03 08.8	+47 42	"	"	"	+3.0	23 57	0 47	3
26566	BD +47° 809	03 14.9	+47° 36'	"	"	"	+3.0	01 01	02 16	4
26567	BD +47° 828	03 20.0	+47 52	"	"	"	+3.0	02 32	03 00	1
	Focus test		O.T.B.							
<p><u>Drum cover</u> opened with top off box of exposed plates. Dome lights off 10 seconds.</p>										

Dome Temp. 34°F

Focus 12.66

Dome Temp.

Transparency Conditions

Poor

186

19.20 Improving clouds all around horizon
 23.30 Thin cloud bands - MOON HAZY

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
42.2 0.46E	-11 48	0	5.87	B9	5-4	B8-4 Prog. lens 6 ⁽²⁾ 0108 0110	fine
42.3 0.53W	+63 16	0 ⁺	9.5	B9 Ia	3-3-3	OB " P22 lens 4 ⁽²⁾ 0113 0153	fine
43.4 2.32W	+54 51	0 ⁺	8.7	A5 Ib	3-3-3	OB " P22 Sen 9 ⁽⁴⁰⁾ 0156 0196	fine
44.1 0.19E	+47 56	0	8.5	K?	3-3-3	F-EB Sen 9 ⁽⁴⁰⁾ 0199 0239	fine
52.2 0.05W	+48 00	0 ⁺	6.7	G5 Ib	3-3-3	< Per # 175 Sen 7 ⁽²⁾ 0260 0268	strong
57.3 0.57W	+47 61	1	8.1	A0	3-3-3	* Per # 285 Sen 9 ⁽⁴⁰⁾ 0250	fine
58.4 2hr 21 W	+47 50	1	8.3	A0	3-3-3	x Per # 507 Sen 9 ⁽⁴⁰⁾ 0294 0333	strong
00.1 3hr 00W	+48 02	0-1	6.8	B9	3-3-3	x Per. # 735 Sen 5 ⁽¹⁰⁾ 0339 0349	strong
					11-8 set 9		poor OK
						Clouded out 3:00	
						3 P.H. + 12 II aOb.	
						Gerry: Pumps drained.	

Dome Temp.

Transparency Conditions *Fair between clouds*

1.88

Focus *Same*

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.35E	39° 26'	0	6.26	Bγ	S+4	B8/g Wrong star? Plate not numbered on emulsion	<i>fine</i>
0.55W	68° 15'	0-1	8.0	B7III	J+3+	vdBcept. 358-365	<i>ok</i>

1 PH+12

189

Date Sun Nov 18/19, 1952 Observer ^{Lu} D₂ - HF, RM, Julian 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.
26570	HD 216658	22 ^h 49.6	+61° 36'	I-12	IIA0B	0.016	+1.8°C	18 ^h 52	20 ^h 18	4
26571	HD 220771	23 ^h 21.4	+54° 34'	"	"	"	+1.9°C	20 ^h 48	21 ^h 36	1
26572	BD +47° 781	03 ^h 06.4	+47° 43' 5"	"	"	0.008	+1.9°C	22 ^h 04	23 ^h 08	2
26573	BD +49° 938	03 ^h 21.0	+49° 37'	"	"	"	+1.9°C	23 ^h 38	00 12	3
26574	BD +48° 905	03 17.2	+48 53	"	"	"	1.9°C	00 22	02 18	4
26575	BD +49° 991	03 33.7	+49 11	"	"	"	1.7°C	02 42	05 40	1
	Focus Test		O.T.B.							
<p>The whole night shot Either spectrograph out of focus or all plates loaded upside down (forward) Why was first plate not developed?</p>										
26589F	Focus Test Nov 19			I-12	IIA0B	008				2

Dome Temp. 33°F

Transparency Conditions *Clea*

190

Focus 15.23

Dome Temp.

0540 Clouds.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 4	02 W	+61°54'	0	9.6	B0V	3-1-2	OB program. sens.9 0376 0416	<i>unders plate upside down</i>
5	46 W	+54°53'	"	8.7	A5Ib	2-1-2	OB program. sens.9 0426 0466	<i>same</i>
08 2	0° 27 E	+47°56'	1	8.5	about K	2-4-3	F Ed. Pin. sens.9 0472 0542	
2	06 22 W	+49°48'	1	8.0	A0	3-3-3	2 Per cluster sens.9 0546 0588 0594	
18 4	1hr 34 W	+51°30'	1	9.0	A0	3-3-?	Per cluster sens.9 0634 0638	
40 1	* 5hr 35 W	+49°20'	0	9.2	A0	3-6	Per cluster STAR SEEMS TOO FAINT. sens 10 0669	
						11-8 set 9.		
	*AFWAR							
							3 PH loaded. 2	
							<i>AM = Frank and Ron: This was not recorded in the 2 Per program book</i>	
2		UTTS				8/6 set 5	Focus 12.66	1/4d QK

Dome Temp. 32 F

Focus 12.66

Dome Temp.

Transparency Conditions

1.92

clouds

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
37 3	W0 50.	56 15	0	6.37	B8	3-3-3	Sat 5 B8-B9 mag	0676 0678	fine
00 4	W0 51	54 10	1	6.03	B8	3-3-3	" " clouds " 6	0679 0680	l. wk.
							Looks like snow!		

Dome Temp.

Transparency Conditions

194

Focus

Dome Temp.

6.00 Clouds -
MOVING FAST

g Time S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17	2	h 34 E	-07 12	○	6.28	B9	3-6 1 11-8	B8-B9 15 Set > 0703 0707	strong faded stars
								6.25 slight snow SOLID except in SE.	
								3 PH's loaded	

195

λ - Drive motor oiledDate S/no Nov 25 1962Observer 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.
231-2116	β Agr	21 29.4	-0546		5/5/33	28		17 ^h 31 ^m	
231-2117	"	"	"		"	"		17 42	
231-2118	γ Psc	23 15.2	+0304		6/4/33	28		17 58	
231-2119	"	"	"		"	"		18 00	
231-2120	"	"	"		"	"		18 20	
231-2121	R 555	23 27.5	-0445		7/4/33	28		18 33	
231-2122	"	"	"		"	"		18 43	2x + sky
231-2123	δ Psc	00 00.1	+2654		5/5/33	28		19 04	
231-2124	"	"	"		"	"		19 17	
231-2125	R 1	00 03.4	+0835		7/5/33	28		19 28	
231-2126	"	"	"		"	"		19 38	2x + sky
231-2127	R 19	00 37.2	+0254		7/4/33	28		19 58	
231-2128	"	"	"		"	"		20 08	2x + sky
231-2129	54 Psc	00 37.4	+2103		7/3/33	28		20 25	
231-2130	"	"	"		"	"		20 35	

40°F

Dome Temp.

Transparency Conditions

Focus

725V
CO₂ in 16:30OK except for Ci up to 100 in 504/W
1930 Some ground loop

Dome Temp.

196

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:09W		5"	3.0	S0I6		PKΔ	
00:20W		8"	"	"	"	"	
01:10E		10"	3.68	S8II		ΔHV	
00:59E		8"	"	"	"	"	
00:48E		6"	"	"	"	"	
00:46E		8"	6.26	K3III		ΔHV	
00:36E		"	"	"	"	"	
00:50E		8"	5.75	S2V		ΔHV (not too well centered)	
00:40E		"	"	"	"	"	
00:28E		"	8.22	K0III _p		ΔHV	
00:18E		"	"	"	"	"	
00:33E		5"	7.30	S2V		ΔHV	
00:23E		"	"	"	"	"	
00:05E		5"	5.84	K0V		PKΔ	
00:05W		"	"	"	"	"	

over
→

197

Date Su/17a Nov 29/26 1962 cont Observer vab ^{HR} _{RM} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
231-2131	HD1326	00 15.9	+43 47		7/6/33	28		20 52		
231-2132	"	"	"		"			21 00	2x+sky	
231-2133	NGC 205	00 38.1	+41 28		8/6/40	28		21 19	2x+25x	
231-2134	β^2 cct	02 26.0	+08 17		4/6/33	14		22 05		
231-2135	R49	01 52.0	+10 27		6/5/33	28		22 27		
231-2136	"	"	"		6/6/33	28		22 38		
231-2137	R65	02 36.4	+30 40		6/6/33	28		22 52		
231-2138	"	"	"		"			23 02	2x+sky	
231-2139	R73	03 06.1	+26 12		7/5/33	78		23 17		
231-2140	"	"	"		"	"		23 27		
231-2141	δ Tri	02 14.5	+34 03		6/4/33	28		23 43		
231-2142	"	"	"		"	"		23 53		
26573	BD+48° 886	03 12.6	+48° 17'	12.5"	IIA6B	.008	+3.5°	12 42	01 08	1
26574	BD+49° 938	03 21.0	+49° 37'	12.5"	IIA6B	.008	-3.5°	01 22	01 46	3
26575	BD+48° 909	03 18.2	+48° 58'	"	"	"	"	01 55	03 05	4

Dome Temp.

Focus 12.66

Dome Temp.

Transparency Conditions Fine

21:40 thin clouds up to 10° Alt in W

23:30 thin cloud overhead

23:50 better

198

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
044W		5"	8.07	M1	MKD		
052W		"	"	"	"		
051W	+1:10W				Salary		
013E		7"	4.27	B3II	EXT. Standard		
042W		4"	6.78	F5V	ΔHV		
043W		"	"	"	"		
023W		4"	7.32	S12	ΔHV		
033W		"	"	"	"		
019W		4"	8.06	S4F7	ΔHV	} cloud danger	
029W		"	"	"	"		
01:35W		5"	4.87	S0V	ΔHV		
01:45W		"	"	"	"		
0054 _N	48° 29'	1.5	7.6	A0	3-3-3	Set 5 Per Cluster Page 1	0727 0738
02:24 _N	49° 48'	1.5	8.0	A0	3-3	" 5 Per Cluster P1	0739 0743
345 _N	49° 09'	1.5	8.4	A4	3-3-3	" 5 Per Cluster P1	0731 0761

fine
fine
fine

199

Date Sun/Mon Nov 25/26 1962 Observer H.R. R.M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26576	HD 371 71	5 31.5	$40^{\circ} 58'$	12 $\frac{1}{2}$	IIAob	.008"	+3.6c	03 16	04 10	1
26577	HD 60298	7 28.7	$+25^{\circ} 09'$	"	IIAob	.008"	+3.5c	04 30	05 32	2
	Focus Test		O.T.B.							
26577 T ₁	Test of wire arc			I-12	IIAob	008		Focus	12.66	3
						016				

Dome Temp. +34°F

Transparency Conditions

200

Focus 12.66

Dome Temp.

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	2h 40 ^N	+11° 00'	1	7.59	K 5 III	4-4-4	set 5 High Velocity Spectro. Binary. sens ⁸ 0763	fine
32	2h 04 ^N	+25° 03'	1.5	8.01	G 2 V	3-3-3	" " " " sens ⁸ 0783 0791 0811	fine
						11-8		from OK
							2 PH loaded.	
	nt 0	5 stars inside + 5 outside						
	" 2 1/2	10 " " "		10	"		Dr. Hd.	} little strong from near, some
	" 6	15 " " "		15	"		MORE STARS NEEDED FOR	
	set 10	5 stars inside 5 outside.					2nd HALF. 5 ^h - 10 ^h Hr.	

201

Date Mon June 1862 Tue 26/27 Observer MR - H. R. M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26578	HD 216658	22 ^h 49.6 ^m	+61° 36'	I-12	laked Duo	set .016	+4.5°	17:50	18:51	4
26579	HD 216711	22 50.0	+62 04	"	"	set .012	+4.7	19:05	20:11	1
26580	BD +62° 2210	23 14.3	+62 57	"	"	set .008	+4.8	20:28	22:06	2
26581	HD 3940	00 36.7	+63 45	"	"	"	+4.8	22:13	22:38	3
26582	BD +49° 491	03 33.7	+49 11	"	"	set .012	+4.6	22:55	00:25	4
26583	BD +51 723	03 15.3	+51° 18'	"	"	"	+4.7	00:44	01:58	1
26584	HD 57386 MWC 174	07 15.9	-08° 15'	"	"	.012	+4.7	002:14		2
	"	"	"	"	"	.008	"	02:20	02:40	"
26585	HD 65176 MWC 189	07 52.4	-01° 20'	"	"	"	+4.7°	02:53	03:15	3
26586	HD 34921 MWC 107	05 15.8	+37 35	"	"	"	+4.7°	03:55	04:21	4
26587	HD 44637 MWC 139	06 17.7	+15 09	"	"	"	"	04:34	05:40	1
	Focus test		O.T.B.					.5		

Dome Temp. 40°F

Transparency Conditions

202

Focus 12.66 unchanged

Dome Temp.

5:15 Thick Fog

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0:05 W	+61° 55'	1	9.61	B0V	2-1-2	Set 5		
1:24 W	+62.23	1	9.70	B1V	2-2-2	Set 5		
2:54 W	+63 16	1	9.5	B9 Ia	3-3-3	Set 5		
...	+64.04	1	7.5	A1 Ia	3-3-3	Set 5		
0:65 W	+49 20	2-3	9.2	A0	2-2-2	Set 5	α Per #1344 v. faint? set 9	
3:45 W	+51° 30'	2-3	9.0	A3	2-2-2	Set 5	α Per cluster P.2 set 9	
Exp. Terminated to correct slit. 2.							set 8	1175 (1) weak
0 32 ^E	-8° 23'	2-3	8.1	B5me	3-3-3	Set 9	Be Prog set 8 1177	
0 33 ^E	-1° 31'	2-3	8.1	B5me	3-3-3	Set 5	Be Prog set 8 1188 (1) strong	
3hr 08 W	+37° 38'	1	7.4	Bome	3-3	set 5	Be Prog set 8 1190 (1) strong	
3hr 27 W	+15° 05'	1	7.7	B3e	3-6	set 5	Be Prog set 7 1200 (1) strong	
					11-8		set 8 1204 (1) fine	
							set 8 1208 (1) fine	
							set 8 1209 (1) fine	
							set 8 1211 (1) fine	
							arc is too faint	
							3 PH loaded	
							8 in Box in data room	

203

Date Tue. - Wed. Nov. 27/28, 1962 Observer D. J. B. M. + H. V. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26588	HD 216658	22 ^h 49.6	+61° 36'	I-12	baked F-20	set .016	+6.1°C	18:05	19:21	2
26589	BD +67° 215	2 ^h 27.2	+67° 55'	"	"	xt. .008	+5.9°C	19:34	19:54	3
26590	BD +67° 217	2 ^h 29.8	+67° 38'	"	"	"	+5.9°C	20:10	20:32	4
26591	BD +67° 221	2 ^h 33.2	+68° 03'	"	"	"	+5.8°C	20:40	21:12	11
26592	BD +62° 2210	23 ^h 14.3	+62° 57'	"	"	"	+5.9°C	21:30	23:10	2
26593	HD 37171	5 ^h 31.5	+10° 58'	"	"	"	+5.9°C	23:24	23:46	3
26594	BD +51° 723 HD 31293	3 ^h 15.3	+51° 8'	"	"	"	+6.0°C	04:02	03:04	4
26595	MWC 93 HD 44637	04 49.4 17.7	+30 24 09	"	"	"	+6.0°C	03:22	03:52	
26596	MWC 139	06 21.1	+15 08	"	"	"	+6.0°C	04:17	06:19	
	Focus test		OTC							

Dome Temp. 44°F
 Focus 12.66 unchanged
 Dome Temp.

Transparency Conditions \dots some haze

204

Dew on southdang

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	0 40 W	+61° 55'	0	9.61	B0V	2-1-2	set 5 OB program sens. 9 1215 1255	
54	2 28 E	+68° 10'	"	6.77	F4II	3-3-3	set 5 vdB high lum. star sens. 8 1262 1272	strong
32	1 52 E	+67° 52'	0-1	7.7	F2II	3-3-3	set 5 near " Cepheid 50 Cas sens. 8 1275 1285	fine
12	1 16 E	+68° 17'	1	8.0	B7III	3-3-3	set 5 " sens. 8 1288 1298	fine
10	4 ^h 05 W	+63° 15'	1	9.5	B9Ia	3-3-3	set 5 OB sens. 9 1299 1329	
0	1 ^h 40 E	+11° 01'	1	7.59	K5II	4-4-4	set 5 HV Spectr. Bin. vdB sens. 7 1345 1353	fine
04	3 ^h 55 W	+51° 31'	1	9.0	A3	3-3-3	set 5 a Persei sens. 9 1356	strong
52	5 ^h 10 W	+30° 27'	1	7.5	Aoep	3-3-3	set 5 Be Prog. sens. 8 1403 1413 (10)	fine
4	4 ^h 10 W	+15° 05'	1	7.7	B3e	3-	set 5 Be Prog sens. 8 1415 1419 (10)	fine
						11-8	set 9	

2 PH loaded IIaOb
No More IIaOb PLATES.

205

Date Wed Nov 28-29/62 Observer L-F Julian 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.
26597	BD ⁺ 63 1962	23 12.8	63 15	I-12 $\frac{1}{2}$	Unbraked IIA0	Set 012	+7.0	18 41	19 17	1
26598	BD ⁺ 63 1964	23 13.1	63 ³⁴ 53	"	"	"	+7.0	19 22	20 04	2
26599	HD 7546	01 10.5	47 33	"	"	008	+6.9	20 15	20 22	1
26600	BD 49 991	03 33.7	49 11	"	Baked IIA0	"	+6.9	21 15	22 51	3
26601	" 49 900	03 11.7	49 26	"	Unbraked IIA0	"	+6.8	23 02	23 29	2
26602	" 48 886	03 12.6	48 17	"	"	"	+6.8	23 35	23 55	3
26603	" 47 781	03 06.4	47 43.5	"	"	"	+7.0	00 09	01 01	1
26604	BD +48° 943	03 24.8	+48 25	"	"	"	+7.0	01 14	01 20	2
26605 _a }	BD +29 1907	09 24.6	+29 33	"	IIA0B	"	+6.8	01 57	04 52	4
26605 _b }	BD +45 1859	10 38.3	+45 12	"	"	"	+6.8	04 08	05 56	4
26606	HD 71906 HR 3348	8 24.8	-37 36	"	IIA0	"	+6.8	06 20	06 30	3
	Focus Test.		O.T.B.							
					04 15	F not feeling well			went home	

Dome Temp. 42°F Focus 12.66 Dome Temp. 38°F

Transparency Conditions

Some Haze

206

Waited for dew to clear from secondary

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
17	0 15 W	63 32	0-1	8.2	B ₁ III	2-2-2	OB prog. lens 8	1425 1437	
04	1 02 W	63 52	0-1	8.5	B ₀ II	2-2-2	" " lens 8	1439 1451	
22	0 38 E	47 50	0-1	6.45	B ₈	3-3-3	B ₈ -B ₉ prog. " 6	1459 1461	
51	0 32 E	49 22	1-2	9.2	A ₀	3-3-3	x Persei " 9	1467 1507	fine
24	0 28 W	49 37	2	7.8	A ₀	3-3-3	" " " 8	1510 1521	fine
57	0 53 W	48 28	2	7.6	A ₀	3-3-3	" " " 8	1523 1536	fine
01	2 05 W	47 55	2 ⁺	8.5	K:	3-3-3	F-EB " 9	1540 1593	
20	2 06 W	48 34	2	6.5	B ₉	3-3	Set 5 x Persei Charts Page 1 " 7	1597 1602	fine
52	1 20 E	+29 "	2	9.9	F5	3-3-3	Set 3 HAFS " 10	1672 1675	
56	30 E	+44 50	2	9.6	F4	3-3-3	Set 7 " " 10	1675	
30	2 17 W	+37 20	2	6.04	B ₉	3-3-3	Set 5 B ₈ -B ₉ Prog " 6	1756 1758	
						11-8			
							1 PH loaded.		
							11 Photos in dark room.		
							Seem short of stars for II nd half		
							6" DOME FOUND OPEN at 02 hrs.		
							26605 & 26606 in same plate because only II ₀₀ B plate left		

Dome Temp. +50 FTransparency Conditions fair

208

Focus 12.66

Dome Temp.

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
174	E 0 ^h 30	63 31	2	8.2	B _{III}	2-4	set 5 OB mag p 22 } sens 8 1762 816 set 8 } 1774 <i>Developed</i>	fine OK
181	W 0 ^h 02	63 51	3	8.5	B _{0II}	2-2-2	set 5 " " " sens 8 1777 1787	fine
182	W 1 ^h 33	62 22	3	9.2	B _{IV}	2-2-2	" 5 " " " " 8 1788 1798	fine
183	W 1 ^h 30	61 51	3	9.3	B _{0IV}	2-2-2	" 5 " " p 24 " 9 1799 1838	fine
183	W 3 ^h 20	62 09	-	-	O _{9V}	2-4	" 5 " " p 24 " 9 1840 1862	low
							Star almost gone too foggy to continue	
							3 pit loaded with unboxed II a O.	
							00:40 ^{Rm} F still quite foggy with	
							diffuse light - done roasting	
							subliming finally.	
							Vertical light (1/2 way)	
							under a ray etc. (1/2 way)	

209

Date Fri Nov 30 - Dec 1/2 Observer Pa - I
W - FL Julian 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.
26612	BD +63° 1964	23 13.1	63 34	I-12	IIaO unbraked	012	10.2	17 36	18 04	1
26613	BD +61° 2559	23 48.7	61 52	"	"	016		18 09	19 20	2
^{rest developed} 26614	Focus test									
232-2143	HD 1326	00 15.9	+43 47		7/4/33	28		19 40		
232-2144	"	"	"		"	"		19 50	2x + sky	
237-2145	R 19	00 37.2	+02° 54'		7/3/33	28		20 10		
223-2146	"	"	"		"	"		20 20	2x + sky	
223-2147	R 1	00 03.4	+08° 35'		7/4/33	28		20 30		
223-2148	"	"	"		"	"		20 40	2x + sky	
223-2149	NGC 205	00 38.1	+41° 28'		8/4/40	28		21 14		
26615	HD 16066	02 29.8	+67° 38'	I-12	IIaOb	008	10°C	22 20	22 40	2
26616 a	HD 15784	02 27.2	+67° 55'	I-12	IIaOb	008		22 45	22 54	
b	HD 16440	02 35.2	+68° 03'	I-12	IIaOb	008		23 03	23 27	
26617	+46° 748	03 18.6	+46° 42'	I-12	IIaOb	008	10°C	23 34	00 43	1
26618	BD +49° 958	03 24.7	+49 33	I-12	IIaO	008	10.1°C	1h 03	2 43	2

Dome Temp. +50.5 F

Focus 12.66

Dome Temp.

900V
CO₂ in 17:30Transparency Conditions S Mag! Probably not pe
21:30 sky becoming very poor
00h - conditions perfect

210

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0050	63 52	2	8.5	B0 II	2-2-2	Set 5 OB mag p 22 lens 8 1900 1910	
0115	62° 08'	-	-	O9 V	1-2-1	" 5 " " p 24 lens 9 1912 4000-15	
0105		<5"	8.07	MIE			OK
0000			"	"	"		
0000		<5"	7.30	92V			
0010		8"	"	"	"	Thrown out of focus, images too small!	
0101		5"	8.22	K0 III p			
0102		"	"	"	"		
028W	+67 52	2	7.7	F2 II	2+2+2	galaxy thin ci, do not use for absolute photometry vdB Sucas prog. 80-85	strong
044W	+68 10	2	6.77	F4 II	3+3	vdB Sucas prog. 86-91 pos 3	strong, good
065W	+68 15	2	8.00	B7 III	3+3	vdB Sucas prog. 94-104 pos 8	strong, good
0142W	+26 52	2	8.9	A3	2+2+2	2 Pe #665 2007-2042	strong
0337W	+19 45	1	9.1	F0	2+2+2	2 Pe #958 Set 5 lens 9 2050 2094	strong

cont'd next page

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

Transparency Conditions

fine

212

Focus

- low lying fog

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4h 20W	+30 13	1	10.09	B9	2+4	KAFS p. 4; Hms 567 Lens 10; ^{Set 5} 2103	counting
4h 13E	+44 53	1	9.59	F4	2+	KAFS p. 3 Hms 317 Lens 10, Set 7 2119 2180 something wrong with periscope optics; Set 2	too slowly
					8/6		
						2 PH's loaded with IIaO Unboxed + 1 full box IIaOB	

213

Date Sat/Sun Dec 1/2 1962

Observer v. B

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
233-2150	γ And	22 ^h 18 ^m	-11° 00'		7/4/33	28		1736	1x	
233-2151	γ And	22 ^h 18 ^m	-11° 00'		7/4/33	28		1746	2x + sky	
233-2152	γ And	22 18 ^m	-11° 00'		7/3/33	28		1816	2x + sky	
233-2153	RSS1	23 15 2	-14 0 7		8/3/33	28		1850	2x	
233-2154	"	"	"		"	"		1900	2x + sky	
233-2155	S4 Psc	00 37.4	+21 0 3		6/6/33	28		1920	2x	
233-2156	"	" "	"		"	"		1930	2x	
233-2157	η Psc	01 29.4	+15 0 9		6/4/33	28		1955	2x	
233-2158	"	"	"		"	"		2005	2x	
233-2159	δ Tri	02 14 5	+34 0 3		6/4/33	28		2018	2x	
233-2160	"	"	"		"	"		2028	2x	
233-2161	NGC 705	00 40.5	+40 3 9		8/6/40	28		2048	2x + sky	
233-2162	ν And	01 34 5	+41 1 2		6/4/33	28		21 31		
233-2163	"	"	"		"	"		21 41		
233-2164	HR 483	01 39 4	+42 2 6		6/5/33	28		2204		
233-2165	"	"	"		"	"				

Dome Temp. 47°F

V 700

Focus

CO₂ in 15:30

Dome Temp.

Transparency Conditions

Some Smog, but Looks OK 214

20:40 4th moon sets.

20:30 thin clouds hi in west

22:05 All clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
020E		5"	6	S23		$\overset{IV}{\cdot}$ $\overset{III}{\cdot}$ \ominus \cdot \cdot Drifted out	
010E		5"	6	S2?		New edge - Toward 2 ^d X.	
020W		5"	6	S2?		Small ϕ used	
005W		<5"	8.17	SdF8		Δ HV	
015W		"	"	"		"	
046W		<5"	5.84	K0V		Δ MK	
036W		"	"	"		"	
105E		<5"	3.61	S8III		Δ MK	
055E		"	"	"		"	
01:25E		5"	4.87	S0V		Δ HV	
0115E		"	"	"		"	Some cloud damage
040W + 058W				G		galaxy	Clouds (damage to HV)
030W		5"	4	F8V		MKA	Some cloud damage
040W		"	"	"		"	
058W		5"	4.94	S2V		MKA	
108W		"	"	"		"	

over →

215

CONT.

Date Sat/Sun Dec 1/2 1962

Observer vol B - L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
233-2166	ε ² Car	02 26.0	+08 17		G/4/33	18		22 37		
233-2167	ε ¹ Car	"	"		"	"		22 53		
233-2168	R73	03 06.1	+26 12		8/13/33	28		23 14		
233-2169	"	"	"		"	"		23 24	27+5 mag	
233-2170	R83	03 37.8	+26 52		8/14/33	28		23 41		
233-2171	"	"	"		"	"		23 51	2x+5 mag	
26620	HD 37171	05 31.5	10 58	I-12	unbaked IIA0	.008	+8.6	00 37	01 21	4
26621	" 37736	05 35.7	44 48	"	IIA0 B	"	+8.6	01 42	02 26	1
Dec 3										
26621 F				I-12		103a0		Focus 12.48		2

Dome Temp.

Transparency Conditions *Fine*

216

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:45W		15"	4.27	B9III	EXT. Stacked		
1:01W		"	"	"	"		
0:40W		7"	8.06	S8F7	ΔHV		
0:50W		"	"	"	"		
0:35W		7"	8.34	S8III	ΔHV	Who was loading plates	
0:45W		"	"	"	"	Fri? Ground loaded backwards!	
0:13W	10 59	0	7.59	K5III	4-4-4	HiVel sp Bin Sun 7 { 2144	fine
1:13W	44 48	0	7.73	A2	3-3-3	KA 6x6 " " { 2152	shiny
						" " { 2153	
						" " { 2157	
						Fog + Haze	
						3 PHs loaded + 8 BTIAO	

Dome Temp. $20^{\circ}F$ Focus 12.66

Dome Temp.

Transparency Conditions

218

g Time
S.T.

51 3

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:36 W	$+55^{\circ}20'$	0	9.77	30.5 ^{STW}	2-2	Set 5 fields OBPI4 clds Please fix flashlight	10 { 2205 2262 } strong
						Clouds after Midnight.	
						Closed at 02:15	
						2 P.H. Loaded,	

Dome Temp. 15°F

V 700

Transparency Conditions Ci. 14 W , Some in 2477

220

Focus

 CO_2 in 17:30

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:24 W	'	8"	6	52		$\Delta \odot$ Some Ci, (twilight container)	
0:38 E	'	8"	575	52V		ΔHV through the Ci	
0:28 E	'	5"	"	"		" " "	

Flashlight not working

221

Wed-Thu

Date DEC. 19-20/62

Observer — ^{Hd}_{H_v} RM

Julian Day 2438.018

0267 36 30.9

3666.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
266 23	HD 36375	0526.2	+17 28	I-12 $\frac{1}{2}$	IIaOb	.012	+1.4°	01 00	04:54	4
266 24	" 87271	09 59.8	+12 0 $\frac{7}{8}$	"	"	"	+0.3	0427	05 19	1
266 25	" 79190	09 07.5	+56 02	"	"	"	-0.3	05:32	06 20	2
266 26	" 82861	0929.6	+57 25	"	"	"	-0.3	6.32	07 00	3
	* } Focus Test		OT.B.							
	<p>→ Plate Broke while being unloaded. wrapped in paper in black box.</p>									

Dome Temp.

Transparency Conditions

222

Focus 12.6.6.....

Dome Temp. +7°F

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
54	4 hr 3W	+1730	000	7.9	A0	2-2-2	Set 5 K.A. 6X6 #9 2280 (40) 2320	Strong
19	0056W	+11°48'	000	7.09	A0	2-2-2	" 5 " 8X8 #8 2328 2339 (10)	fine
20	0247W	55 45	"	7.46	A0	2-2-2	" 5 " " #9 2341 2351 (10)	fine
00	0304W	+57° 12'	"	6.94	A ² X	2-2-2	" 5 " " #8 2353 2363 (10)	fine
						8-6		OK
							1 PH loaded.	

223

Thu/Fri

(VAB)
CW

Date Dec 20-21 / 62

Observer H. J. -

Julian Day 2438019.

② 268 37 36.9 366.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
126627	HD 204428	21 ^{23.4} 23.4	+52 28	I-12	IlaoB	1.008	-8.1	17:25	17:41	4
235-2175	MPSC	01 23.4	+15 09		5/6/33	28		17 55		
235-2176	"	"	"		"	"		1805		
26628	HD 1279	00 11.9	+47 24	I-12	IlaoB	1.008		18 31	18:41	1
26629	HD 14302	02 13.6	+55 52	I-12	IlaoB	1.016	-8.2	19:17	20:07	2
{ 26630	{ NGC 1502	{ 2603 59.3	{ +62 04	{ I-12	{ IlaoB	{ 1.016	{ -8.8	{ 21:05	{ 22:45	{ 3
{ 26631	{ BD +48 903	{ 03 16.6	{ +48 16	{ I-12	{ IlaoB	{ 1.012		{ 23:00	{ 23:07	{ 3
"	Focus test									

? both exp
are on same
plate!

Dome Temp. $10^{\circ} F$ Focus 12.66 Dome Temp. $6^{\circ} F$ Transparency Conditions *very fine, Polaris*

224

 $22^{\circ} 40''$ CLOUDS!

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
41 4	W 153	+52 42		5.9	B8	B3-3	Set 5 : B8-B9. ²³⁶⁶ line 6 2368	fine
	1:48W		10"	3.61	SP II	DMK	Set 9 <u>FOCUS TEST</u> 6/4	OK
	1:38W			"	"	"	" Brown Records ink frozen!	
41 1	0:06W	+47 43	0	5.77	B9	3-3-3	Set 5 B8-B9 line 6 ²³⁶⁹ 2371	fine
07 2	0 03E	+56 09	0	8.5	B, II-III	2-1-2	Set 5 OB program p26. line 9 ²³⁷³ 2413	
45 3	00 21W	+62 13	1	9.93	B3	2-1-2	Set 5 NF OB very close pan in 74" ⁴⁰⁹ 2456	strong
07 4	01 28W	+48 26	0	6.8	B9	2-4	Set 2 2-Pucci cluster P1 ⁴⁰⁷ 2457 2458	fine
						6/4	Set 9	OK

4 PH loaded
Box of 9 plates in spotting room

225

Wed/Thurs

Date Dec 26/27 1962

Observer 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.H.
236-2177	U And	01 34.5	+4112		5/6/33	28		1745		
236-2178	"	"	"		"	"		1755		
236-2179	HR 483	01 39.4	+4226		5/6/33	28		1815		
236-2180	"	"	"		"	"		1825		
236-2181	NGC 205	00 38.1	+4128		8/6/40	28		1856	3x + sky	
236-2182	HD 1326	00 15.9	+4347		8/4/33	28		1950	2x + sky	
236-2183	η^2 Cet	02 26.0	+0817		5/6/33	14		2020		
236-2184	R 65	02 36.4	+2040		7/4/33	28		2043		
236-2185	R 65	"	"		"	"		2053	+1 sky	
236-2186	R 73	03 06.1	+2612		7/5/33	28		2107		
236-2187	"	"	"		"	"		2117	+1 sky	
236-2188	R 83	03 37.8	+2652		7/5/33	28		2135		
236-2189	R 83	"	"		7/6/33	"		2145		
236-2190	Hyades #63	04 28.6	+1642		7/5/33	28		2205		
2191	"	"	"		"	"		2215	+1 sky	
								use same sky as 2192/3		

Dome Temp. V = 700V

Transparency Conditions .. Polaris, a few cumuli at sunset

226

Focus CO₂ in 17.00

FINE LATW

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:00 W:		10"	4	F8V		MKD	
1:50 W:		"	"	"		"	
1:17 W		8"	4.94	G2V		MKD	
1:07 W → 27°			4.94	G2V		"	
0:44 W ← 20° 20' 3"				G		Gal	
0:48 W			8.07	MIV		MKD	
0:04 W			4.27	B9 III		EXT ST.	
0:11 W			7.32	G1V		DHV	
0:21 W			"	"		"	
0:10 W			8.06	SIF7		DHV	
0:20 W			"	"			
0:05 W			8.34	G8 III		DHV	
0:15 W			"	"		"	
0:10 E		5"	8.06	S2V		DMK	
0:00		"	"	"		"	

227

Date Dec 26/27 1962

cont.

Observer

S-HV

Julian Day

2438025

274 44 26.4

3669.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
236-2192	Hyades # 64	07 23.8	+16 38		715/33	28		22 30		
236-2193	"	"	"		"	"		22 40		
236-2194	Hyades # 73	04 26.0	+17 10		715/33	28		22 55		
236-2195	"	"	"		"	"		23 05		
236-2198	1774	05 27.8	-24 33		815/40	28		23 35	27 45	
26632	HD 36043	05 23.8	31 44	I-12 $\frac{1}{2}$	II ₀ 06	.012	-9.5	0037	0245	2
26633	" 82569	09 27.7	61 20	"	"	"	-9.6	0308	0402	2
26634	" 82719	09 28.6	63 14	"	"	"	-9.6	0412	0436	3
	Focus Test		07B							

Dome Temp.

Transparency Conditions Five

228

Focus 12.66?

Dome Temp.

ig Time
S.T.

3669-8

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:12W		5"	8.12	S2V		MND	
0:22W		10"				MND set slightly out of focus	
0:34W		10"	7.85	S2V		MND	
0:44W						"	
0:22W + 0:40			8.34	V		⊕	
0324W	3145	00	7.7	A0	2-2-2	Set 5 KA6X6 #8 2471	strong
0037W	6107	00	7.45	F0	2-4	" " 8x8 #8 2482	fine
0108W	6254	0	7.56	F0	2-2-2	" " " #8 2495	strong
					8/6	"9 CLOUDS 04:50	
						1 P.H. + 8	

229.

Date Sun. Dec 30/31/62Observer L-Julian Day 2438029.

② 278 49 06.2

3670.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26635	BD+61° 2589	23 39.0	61 36	I-R $\frac{1}{2}$	IIA0B	set .016	.	18 10	20 00	4
26636	{ BD+42° 903 " " " "	03 16.6	42 16	I-12 $\frac{1}{2}$	IIA0B	set .008	-13	20 30	20 50	1
		" "	" "	" "	" "	" "	" "	20 51	21 19	1
26637	HR 1237	03 54.9	17 00	"	"	.008	-13.1	21 49	22 29	3
26638	" 1600	04 53.4	14 24	"	"	"	-13.2	22 45	23 11	2

Dome Temp. $-7^{\circ}F$

Transparency Conditions

230

Focus

Dome Temp.

670-0

ing Time
EST.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	4 2 35W 61 25		0	8.7	B05/0	2-1	lit 5 OB prog. 85 2523 2529	unk
50	1 0 2E 148 28		0	6.8	B9	3-3-3	lit 5 α -Perrini cluster 7 2532 2536	fine
19	1 0 18W 148 28		0	6.8	B9	3-3-3	lit 2 α -Perrini cluster 7 2537 2541	
29	3 0 51W 17 10		0	6.28	B9	3-3-3	B8-B9 7 2544 2548	fine
11	2 0 35W 14 28		0	5.93	B8	3-3-3	" " 7 2550 2554	fine

Dome Temp. $+17^{\circ}\text{F}$ Transparency Conditions *good*

232

Focus

Dome Temp. $+16^{\circ}\text{F}$ *Too windy to work up South*

ing Time E.S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
28	4	1 19 E	39 44	0-1	6.35	B ₈	3-3-3	B ₈ B ₉ 7 { 2560 2564	fine
53	1	1 22 E	24 45	0-1	5.58	B ₈	5-4	" " 7 { 2580 2584	l. wk
48	2	1 09 E	34 29	0-1	8.4	B _{0.5} IV	3-3-3	OB <i>proj</i> 8 { 2588 2598	fine
06	3	0 15 W	12 37	0-1	7.9	A ₃	3-3-3	NA 6x6 8 { 2603 2613	fine

CLOUDS AFTER MIDNIGHT

CLOSED AT 0130

I.P.H. LOADED

233

Date Jan 13/14 1963 S. A. / No. Observer ^FvdB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
237-2197	γ Psc	01 24.4	+15 09		5/4/33	28		17 55		
237-2198	"	"	"		"	"		18 05		
237-2199	μ Cas	01 05.3	+54 46		5/5/33	28		18 20		
237-2200	"							18 30		
237-2201	ν And	01 34.5	+41 12		5/4/33	28		18 50		
237-2202	"	"	"		"	"		19 00		
237-2203	"	"	"		"	"		19 10		
237-2204	R ₄₅	01 52.0	+10 27		6/4/33	28		19 35		
237-2205	"	"	"		6/4/33	"		19 45	20 10	
237-2206	θ Per	02 41.5	+45 04		5/4/33	28		20 07		
237-2207	"	"	"		"	"		20 17		
237-2208	16 Per	02 48.0	+38 04		5/4/33	28		20 30		
237-2209	"	"	"		"	"		20 40		
237-2210	L Per	03 06.1	+45 29		5/4/33	28		20 55		
237-2211	"	"	"		"	"		21 05		

Dome Temp.

900V \approx CO₂

Transparency Conditions

OK, clouds low NW

234

Focus

Fine LATW

Dome Temp.

ing Time
E.S.T.

P

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
015E		8"	361	S8III		MKA - Twilight. Large	
005		8"	"	"		" OK	
035		8"	5.20	S5VP		ΔHV	
045		"	"	"		ΔHV	
035		8"	-	F8V		MKA Large image MOT! Dr. declination →	
045		"		"		"	
1:00		"		"		"	
1:05		5"	678	F5V		ΔHV	
1:15		"	"	"		"	
040		7"	47	F7V		MKA	
050		"	"	"		"	
1:05		8"	47	F7III		MKA	
1:15		"	"	"		"	
1:10		5"	404	S0V		ΔHV	
1:20		"	"	"		"	
						Thin ...	

Dome Temp.

Transparency Conditions Five

23.6

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:10		8"	5.4	F4III		DMK	
1:20		"	"	"			
0:45		10"	5.4	G5III		DMK	
0:55		"	"	"		"	
0:45		8"	6.7	G1V-VI		DMK	
0:55		"	"	"		"	
<p>23^h Clouds over 3/4 sky with thin patches elsewhere.</p> <p>23:30 almost completely clouded - which is w cloud up.</p> <p>Thin Cloud w/clear intervals after Midnight.</p> <p>Waves up at 0230</p> <p>Her</p>							

237

14/15

Date JAN Mon/Tue 17/4 1963 Observer M.R.M. Dm/Hrs Julian Day 2438047.5
 @ 294 06 56.7 366.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26643	HD 14302	02 ^h 13 ^m .6	+55° 52'	12 $\frac{1}{2}$	IIaD-B $\frac{1}{2}$	Set .008	-9.4°	18:10	19:50	4
26644	NGC 1502-36	03 ^h 59.3	+62.04	12 $\frac{1}{2}$	"	Set .016	-9.3°	20:29	21:45	1
26645	NGC 1502-27	03 ^h 58.6	62° 03'	12 $\frac{1}{2}$	"	.016	-9.3°	22:08	00:50	
26646	HD 87647	10 ^h 01.2	13° 17'	12 $\frac{1}{2}$	"	.008	-9.6°	02:10	02:38	
26647	" 90512	10 ^h 21.9	11° 49'	12 $\frac{1}{2}$	"	.008	-9.8°	03:07	03:49	1
	Flows out	est	0713			"				

Dome Temp. 14°F

Transparency Conditions

238

Focus 12.66 read

Dome Temp. +3°F

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
350	0:52W	56°10'	2	8.5	B1-II	3-3-3	sets ORB 26	10 { 2669 2740	strong
45	1 st W.	62°14'	2	9.93	B3	3-3-3	sets "	10 { 2772 2842	fine
	0406 W	62°12'	1	10.04	B4	2-1-2	sets "	10 { 2870 2939	fine
38	0606 E	+1257	1	7.51	A5	3-3-3	" 5 KA 8 X 8	8 { 2942 2952	strong
49	0045 W	+1128	1	7.38	G5	3-3-3	" 5 "	8 { 2961 2971	fine
						10/8	" 9		OK
							3 P.H. loaded.		
							Thin cloud + haze all night. closed at 0445.		

239

15/16

(VRS)

Date Jan 15, Tulare 1963 Observer Day L - RM Julian Day 2438045

② 295 08 02.8 3665.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
238-2218	γ ² CrT	02.260	+08 17		5/6/33	20		17:55		
238-2219	R 49	01.52.0	+10 27		"	28		18 25		
238-2220	"	"	"		"	28		18 35	2+ sky	
238-2221	NGC 205	00 38.1	+41 28		8/6/40	28		19 00	2+ sky	
238-2222	X CrT	03 17.3	+03 13		6/5/33	28		19 40		
238-2223	"	"	"		↑ ?	28		19 50		
238-2224	R 84	03 38.4	-03 20		6/4/33	28		20 05		
238-2225	"	"	"		"	28		20 15	2+ sky	
238-2226	Hyades #63	04 23.6	+16 42'		7/5/33	28		20 40		
238-2227	" "	"	"		"	"		20 50	2+ sky	
238-2228	Hyades #64	04 23.8	+16 38		7/5/33	28		21 05		
238-2229	"	"	"		"	"		21 15		
238-2230	Hyades #73	04 26.0	+17 10		7/5/33	28		21 30		
238-2231	"	"	"		"	"		21 40	2+ sky	
26648	HD 35633	05 21.1	+34° 27	I-12	Ilao-00	.016	-15.1c	22 ^h 20	22 ^h 48	2
26649	BD +47° 781	03 06.4	+47° 43.5	"	"	.008	"	23 ^h 02	00 54	3

Dome Temp. +5°F

Focus 12.66 read

Dome Temp.

CO₂ in 16^h00
700V

Transparency Conditions Fine!

240

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 00E		10"	4.77	B ⁹ III		EXT-ST.	
0 00		8"	6.7	F ⁵ V		ΔHV	
0 10		6"	"	"		"	
1.50W			11	G ⁰ ?		Sat.	
1 10E			4.82	G ⁵ V		ΔMK	
1 00			"	"			
0 05E		8"	6.68	F ⁹ V		ΔHV	
0 05W		"	"	"		"	
0 20E			8.06	G ² V		ΔMK	
0 10E			"	"		"	
0 05W			8.12	G ² V		ΔMK	
0 15W			"	"		"	
0 30W			7.85	G ⁵ V		ΔMK	
0 40W			"	"		"	
0 50W	+34°29	0-1	8.4	B ⁹ IV	2-1-2	OB magamp. 26 s ₁₅	sens 8 10 counts
5 08W	+47°57	0-1	8.5	AbortK	3-3-3	bet 5 F ediphoj binam	sens 9 { 2597 3037 } wrote at 1 fine

Dome Temp.

Transparency Conditions

242

Focus

Dome Temp. -3°F

Log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
56	0 52 W	+29° 43'	1	9.45	F ₉	3-3-3	Set 5 KA ^{FS} P _{mag} Page 4	Set 9 { 3040 3080 } fine
23	1 2 7 W	+44° 51'	1	9.65	F ₈	3-3-3	Set 5 KA ^{FS} P _{mag} Page 3	Set 9 { 3082 3122 } 1 wk
55	2 11 2 E	+11° 23'	1	7.12	F ₅	3-	Set 5 KA 8x8 P _{mag}	Set 7 { 3127 3131 } fine
39	3 7 33 E	-77° 46'	1	7.42	F ₈	3-3-3	Set 5 KA 8x8	Set 7 { 3134 3138 } fine
						11-8	Set 9	OK
							1 PH loaded	

243

Date JAN. Wed + Thur. ^{16/17} ~~15/16~~ 1963 Observer R.M. - H V Julian Day 2438046.
 0 296 09 08.7 3665.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F	Hour An End
26654	²⁹ NGC 1502	03 58.8	+62 04	I 12	II aob	.008"	-12.5°C	19:24	22 02	1	5 12
26655	BD +47° 781	03 06.4	+47° 43.5	"	"	"	"	22:23	23:35	2	0 20
26656	" +30° 1875	09 26.6	+30° 02	"	"	.016	= 12.5	00 27	02 06	2	0 00
26657	" +29° 1907	09 24.6	29 33	"	"	"	"	02 30	06 16	4	0 00
	Flare 7.2		0.7, B			"					
	Jan 21, Hd L.										
26657T	Sky spectra			I-25	IIA0	Long 008	-11		tilt at dec +38° Hr. angle 2 1/4 h E	2	13

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

Transparency Conditions

244

Focus 12.66

Dome Temp.

Night pass toward dawn

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 11:25W	$+62^{\circ}13'$	2	10.26	B3	3-3-3	set 5 OB Prog Page 26	ans 10 { 3177 3247 } fine
2 23:10 53W	$+47^{\circ}59'$	2	8.5	K	3-3-3	set 5 Eclipse Binary (F)	ans 9 { 3255 3275 } fine
00 05:01	29 42	1-2	9.73	F ₀	2-1-2	2 KAFS	" 10 { 3300 3370 } fine
04 16W	29 15	1	9.89	F5	2-1-2	" 5 " HAZE Thin Cloud	10 { 3387 3440 } ok
					6/4	" 9	
I.P.H. Loaded NOT SPOTTED							
Blue sky at 15:30 exposures 1, 2, 4, 6, 8, 10, 12 sec. I-25 Focus 15.03 Tilt 23.15							
I-12 Focus 12.66 Tilt 20.35							
Changed back to I-12							

245

Date ^{21/22} ~~Jan 20/21~~ ^{Nov/Dec} 1963

Observer

② FL
① RT
VAB

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
239-2232	γ ² Cet	02 26.0	+08 17		5/6/33	20		18:05		
239-2233	"	"	"		"	"		18:20		
239-2234	δ Cet	03 00.5	+03 56		5/6/33	28		18:45		
239-2235	"	"	"		"	"		18:55		
239-2236	R 84	03 38.4	-03 20		7/4/33	28		19:15		
239-2237	"	"	"		"	"		19:25	2x+sky	
239-2238	Hγ #63	04 23.6	+16 42		7/5/33	28		19:50		
239-2239	"	"	"		"	"		20:00	2x+sky	
239-2240	Hγ #64	04 23.8	+16 38		7/5/33	28		20:15		
239-2241	"	"	"		"	"		20:25		
239-2242	Hγ #73	04 26.0	+17 10		7/5/33			20:45		
239-2243	"	"	"		"			20:55	2x+sky	
239-2244	1779	05 27.8	-24 33		8/5/33	28		21:25	2x+sky	
239-2245	R 147	06 17.0	-14 50		7/5/33	28		21:55		
239-2246	"	"	"		"	"		22:05	2x+sky	
239-2247	δ Gem	06 35.4	+16 26		5/4/33	28		22:33		

Dome Temp.

CO₂ in 16:00

Focus

700V

Dome Temp.

Transparency Conditions

27:20 cloudless

Clear in Zenith

Current low in S. and W.

Windy! cannot work in West
Fine based

24.6

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:28 E		10"	4.27	B9 III	E. ST	windy! } Stars blown partway out	
0:13 E		8"	"	"	E. ST	windy }	
0:35 E		7"	2.8	M2 III		MK Δ	
0:25 E		"	"	"		"	
0:35 E		7"	6.68	F9 V		ΔHV	
0:25 E		"	"	"		"	
0:45 E		10"	8.06	S2 V		ΔMK	
0:35 E		"	"	"		"	
0:20 E		7"	8.12	S2 V		ΔMK	
0:10 E		"	"	"		"	
0:10 W			7.85	S2 V		ΔMK	
0:20 W		"	"	"		"	
0:05 E + 0:07 W			8.39	V		⊙	
0:30 E			8.08	S2 III		ΔHV	no lines!
0:20 E		"	"	"		"	also Test run at 7/6/33
0:10 E		6"	1.93	A0 IV		E. ST	

249

Date Mon - Tues 1863 Jan 28-29 Observer MR - H V Julian Day 2438058
Dm Sq 308 21 44.6 3657.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26658	BD 47° 781	03 ^h 06. ^m 4	47° 43' 5"	I-12	IIa-OB	set .012	-8.6°	18:42	213.33	1
26659	HD 37736	05 ^h 35. ^m 7	44° 48'	I-12	"	.012	-6.7°	21:52	22:46	2
26660	HD 57742	7 ^h 17. ^m 5	+66° 32'	I-12	"	set .008	-6.8°	23:08	23.30	3
26661	HD 58661	7 ^h 21.5	+48 24	"	"	.008	-6.7	23.57	00 09	4
26662	HD 87271	09 ^h 58. ^m 8	+12 07	"	"		-6.5	00 34	00 58	1
26663	" 160150	11 ^h 20. ^m 4	+18° 19'	"	"	"	-6.0	01 28	01 58	2
26664	" 98153	11 ^h 15. ^m 4	+27 54	"	"	"	-6.0	02 09	02 23	
26665 BD 30° 2175	Finger	11 ^h 29. ^m 8	+29° 59'	"	"	"	-6.2	03 42	06 12	
			078	"	"	"				

Dome Temp. 90 F.

Focus 12.66

Dome Temp.

Transparency Conditions

250

0610 clouds.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
2:30W	47°57'	0	8.5	K	2-2-2	lets F-EB } Heat in spec on continuing	10 { 3465 3538	
1:21W	44°49'	1	7.73	A2	2-2-2	Set 5 KA 6x6. } two black 1 contact in knife	10 { 3546 3616	strong
0:23W	66°22'5"	1	6.27	B9	3-3-3	Set 5 BB-B9 } switch.	8 { 3639 3647	fine
00 53W	48°13'	1	5.55	B-9p	3-6	Set 2 BB-B9	8 { 3655 3662	fine
00 48E	11°48'	1	7.04	A0	3-6	" 5 KA 8X8	8 { 3681 3691	fine
01 24E	17°54'	0	6.99	A0	3-3-3	" " " "	8 { 3695 3705	l. strong
20 ^h 37 ^m E	27°30'	0	6.86	A2	3-3-3	" " " "	8 { 3707 3717	fine
0:55W	2934	0-1	9.78	G5	3-3-3	" 5 LAFS	10 { 3720 3733	fine
					10/8	" 9		OK
H.P.H. Load - 1 + 8								
Jan 31-31/63 Party left after midnight Maintenance on Microphotometer & 1 st sep. till 03:30. H.H.								

251

Date *Thurs. Fri. Jan 31 Feb 1/62* Observer *K-L - H-5* Julian Day *2438061*
 0 311 24 33.9 3653.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26666	BD. +47 781	03 06.4	47 43.5	I-12 $\frac{1}{2}$	EIIA0B	^{Set} .012	-7.5	18 39	21 39	1
26667	HD. 46056	06 26.0	04 54	"	"	.008	-7.5	22 02	23 26	2
26668	HD 82011	09 24.2	30 28	"	"	.016	-7.5	23 38	05 04	3
	<i>Faint</i>	<i>24.2</i>	<i>30 28</i>			<i>||</i>				

Dome Temp. $+12^{\circ}\text{F}$ Transparency Conditions *Good*

252

Focus *12.66*

Dome Temp.

*2500 C l. cond.*ig Time
S.T.

39

26

21

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
2 55 W	47 57	0	8.5	K:	1 1/2 - 1 1/2	Eclipsing Bin	Sens 8 { 3812 3820	
1 24 W	04 52	0	7.7	08	3-3-3	<i>number on plate wrong</i> OB prog	" 8 { 3822 3832 <i>weak</i>	
0 40 W	30 12	0.1	10.0	B9	1 1/2 - 3	5 at 5 K.A.F.S. "	" 10 { 3834 3913 <i>l. strong</i>	
					4/3	5 at 9		OK
						1 P, H, f. model		

253

Date *Sun Mon Feb 3/4/63* Observer *I - RM* Julian Day *2438064*

① 314 27 11.3 3649.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26669	HD 6582	01. 01.6	+54 26	I12	IIaOb	.008	-9°C	19 19	20 ^h 21	4
								20 24	20 57	
								20 59	21 08	
		21 ^h 30	-22 ^h	observed	♂	-	no	detail	possible	
26670	HD 42907	06 07.7	+10 40	I12	IIaOb	.008	-9°C	22 33	00.04	1
								00.06	01.24	
26671	HD 82885	09 29.7	+36 16	I12	IIaOb	.008	-9°C	01 58	02 47	2
	"							02 48	03 15	
	"							03 16	03 30	
		No	Focus	led	since	plate	unloaded.			

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

Focus 12.66

Dome Temp. 0°F

Transparency Conditions

19:30 - rather poor / variable
 23:30 - some high cloud drifts by
 from 01:00 - - clouds drifting by most of night

254

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:41 N 3 ^h 53	+54 44	-2	6.1	G5V	3-3-3	LUM. STD. STAR Set 2 lens 6+ { 3927 3931	too strong
57 W 4 ^h 30					3-3-3	μ Cas. Set 4 " 2 { 3932 3934	strong
08 N 4 ^h 41					3-6	counting too slow Set 6 " 1/2 { 3935 3935 1/2	d. weak
(opposition)						- RA clamps are caused some delay	
04 1 N 2 ^h 32		-2	7.24	dG5	3-3-3	LUM. STD. STAR Set 2 lens 7 { 3937 3941	strong
24 N 4 ^h 12					3-3-3	(Too far west) Set 4 lens 7 { 3945 3948	fine
47 2 W 1 ^h 53	+35° 59	-2	6.22	G8V	3-3-3	LUM STD STARS Set 2 lens 6 { 3949 3953	strong
15 W 2 22					3-3-3	Set 4 " { 3954 3956 (2)	fine
30 W 2.35					3-3-3	Set 6 " { 3957 3958	d. weak

clouds increased

clouded out at 04.00

2 PH loaded

255

Fr/Sat Feb 8/9 1963

Date

Observer 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.I.
240-2249	γ^2 Cet	02 26.0	+08 17		5/6/33	20		18 25		
240-2250	δ Cet	03 00.5	+03 56		5/6/33	28		18 40		
240-2251	"	"	"		"	"		18 55		
240-2252	κ Cet	03 17.3	+03 13		6/5/33	28		19 10		
240-2253	"	"	"		"	"		19 20		
240-2254	16 Per	02 48 0	+38 04		6/4/33	28		19 40		
240-2255	"	"	"		"	"		19 50		
240-2256	θ Per	02 41.5	+49 04		6/4/33	28		20 02		
240-2257	"	"	"		"	"		20 12		
240-2258	L Per	03 06.1	+49 29		6/4/33	28		21 05		
240-2259	"	"	"		"	"		21 15		
240-2260	λ Aur	05 16.3	+40 05		6/4/33	28		21 25		
240-2261	"	"	"		"	"		21 35		
240-2262	R III	04 49.9	+65 47		7/4/33	28		21 55		
240-2263	"	"	"		"	"		22 05	2x154	

Dome Temp.

Corr 17:15

Transparency Conditions

Perfect, early morning

256

Focus

V = 700

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1.08		15"	4.77	B9 III		EXT-ST. Some twilight drag	NOT too well controlled out of first run
0.50			2.8	172 III		DMK	
01:05		12"	"	"		"	
00 55			4.82	55 V		DMK	
01 05							
01 52		15"	4.72	F2 III		DMK	
02 02			"	"		"	
02 23		15"	4.17	F7 V		DMK	
02 33			"	"		"	
02 58			4.17	50 V		DMK	
03 08			"	"		"	
01 12		10"	4.71	50 V		DMK	
01 22			"	"		"	
02 06		8"	6.97	50 V-V		DMK	
02 16			"			"	

← J-clamps broke down

cont →

257

Date Fr/Sat Feb 8/9 1963 cont Observer B - R.M. Julian Day 2438069.
0319 31 06.3 3643-1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
240-2264	R 164	0713.1	+4719		B/S/33	28		2225		
240-2265	"	"	"		"	"		2235		
240-2266	R Gem	0726.5	+3152		6/4/33	28		2250		
240-2267	"	"	"		"	"		2300		
240-2268	Mars	09 ^h 10 ^m	+21°15'		5/5/33	SLIT		2320	51 ← 34	
240-2269	"	"	"		"	"		2340	41 ← 38	
240-2270	"	"	" °		"	"		2345	41 ← 38	
26672	HD 82885	09 29.7	+36°16'	I 12	II aob.	005" -14°		00:22	00:36	3
	"							00:38	00:44	
	"							00:46	00:49	
26673	HD 131511	14 48.9	+19°34'	I 12	II aob.	.008" -14°		01:05	02:18	4
	"							02:21	02:43	
	"							02:45	02:51	

Dome Temp. $+5^{\circ}F$ Transparency Conditions Perfect

258

Focus 12.66

Full moon

Dome Temp.

3643-1

ig Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	00:17 W		7"	5.58	SOV		ΔHV	
	00:22 W		"	"	"		"	
	00:23 W		7"		FOV		ΔMK	
	00:33 W				"		"	
34	00:40 E		-				Slit used - Drifted	
38	00:20 E		-				(r)	
38	00:15 E		-				(r)	
36	00:01 W	$+36^{\circ}58''$	1	6.22	G8 III	3-3-3	LUM STD STARS Set 2 sens 6. { 4004 4008 (4)	1. strong
44	00:09 W					3-3-3	Set 4 " { 4009 4011 (2)	fine
49	00:14 W					3-3-3	Set 6 " { 4012 4013 (1)	weak
18	03:33 E	$19^{\circ}17'$	1	7.0	K I V	3-3	LUM. STD. STARS Set 2 sens 7. { 4015 4023 (8)	strong
43	03:10 E					3-3-3	- " - Set 4 sens 7 { 4024 4028 (4)	fine
51	03:02 E					3	- " - Set 6 " { 4030 4032 (2)	weak

cont'd →

259

Date ^{FEB} FRI-SAT 8-9 1963 Observer RM Julian Day 2438069.
 @ 319 31 06.3 3643.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Ang End
26674	HD 131156	14 46.8	+19° 31'	I 12	IIaob	.008"	-14°C	03 07	03:16	1	02:3
	"							03 19	03:22		02:2
	"							03 25	03:28		02:2
26675	HD 114 762	13:07.5	+18° 02'	"	"	"	-14°C	03 58	04:30	2	00:19
26676	HD 107276	12 14.9	+29 01	"	"	"	-14°C	04:54	05:09	3	01:50
26677	HD 158614	17 25.2	-00 59	"	"	"	-14°C	05:34	05:51	4	02:38
	"							05:53	05:59		02:3
	"							06:01	06:05		02:2
26678	168 723	18 16.1	-02 55	"	"	"	-14°C	06:25	06:28	1	02:5
	"			"	"	"	"	06:31	06 33		02:4
	"			"	"	"	"	06:35	06:37		02:45
	FOCUS TEST		O.T.B.								

Dome Temp. +5° F

Transparency Conditions

2.60

Focus

Dome Temp. +5° F

3643-1

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02:34E	+19° 13'	00	5.4	G8V	3-3-3	LUM. STD STARS Set 2 sens 5 { 4035 4039 (4)	l. strong
02:28E					3-3-3	appeared as double in 74" eyepiece Set 4 " { 4041 4043 (2)	l. weak guide
02:23E					3-3-3	took brightest Set 6 " { 4045 4046 (1)	too weak
00:19W	+17° 41'	0	8.2	F7	3-3-3	STD. VEL. STARS Set 5 sens 8 { 4051 4061 (10)	l. weak
01:50W	-28° 40'	2	6.59	A2	3-3-3	KA 8x8 PROG Set 5 sens 7 { 4064 4066 (2)	strong
02:38E	-1° 2'	2	5.6	G8IV	3-3-3	LUM. STD STARS Set 2 sens 6 { 4069 4073 (4)	l. strong
02:30E					3-3-3	Set 4 " { 4074 4076 (2)	fine
02:24E					3-3-3	Set 6 " { 4077 4078 (1)	l. weak
02:52E	-02° 54'	2	4.2	KOII-IV	3-3-3	LUM. STD. STARS Set 2 sens 4 { 4081 4083 (2)	strong overexposed
02:47E					3-3-3	Set 4 " { 4086 4087 (1)	fine poor
02:43E					3-3-3	Set 6 " { 4088 4088.5 (2)	too weak
					11-8	Set 9	OK
1 PH loaded.							

261

Feb 11-12, MON-TUE

Date Feb 12, 1963. Observer R.M. Julian Day 2438072.

0322 33 12.0 3639.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26679.	HD 131511	14 48.9	+19°34'	I 12	Ilab	.008"	-5°C	02:45	04:45	2
								04:46	05:18	
								05:19	05:37	
26680	HD 131156	14 46.9	+19°31'	"	"	"	-5°C	05:48	06:04	3
	"							06:05	06:13	
	"							06:14	06:20	
	Focus	TEST		OTR						

Dome Temp. $T 15^{\circ}E$ Transparency Conditions *Very Poor!*

262

Focus *12.66*

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:57 E	+19°15'	3	7.0	K IV	3-3-3	LUM STD STARS. Set 2 sens 7 { 4142 4150	⑤ strong
0:22 E		-4			3-3-3	Set 4 " { 4151 4155	④ fine
0:03 E					3-3-3	Set 6 " { 4156 4158	① l. wk.
0:25 W	+19°15'	-3	5.4	G 8 V	3-3-3	LUM STD STARS Set 2 sens 5 { 4160 4164	④ strong
0:34 W					3-3-3	Set 4 " { 4165 4167	② l. strong guid. in vid.
0:42 W					3-3-3	Set 6 " { 4168 4169	① fine
					11-8	Set 9	
3 PH loaded.							

263

Date Fr/Sat Feb 15/16 1963

Observer NF
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.
241-2271	36 Per	03 29.7	+45° 55'		6/5/33	28		18:40		
241-2272	"	"	"					1850		
241-2273	BD +47° 781	03 10.9	+47 56		8/3/33	28		1910		
241-2274	HR 1327	04 17.1	+65 05		6/5/33	28		1927		
241-2275	"	"	"		"	"		1937	15K _y = 200	
241-2276	π 79	05 22.8	-24 33		8/5/40	28		—		
241-2277	λ Aur	05 16.3	+40 05		6/5/33	28		2025		
241-2278	"	"	"		"	"		2035		
241-2279	R 147	06 17.0	-14 50		7/5/33	28 ✓		2100	52 → 34	
241-2280	"	"	"		"	"		2125	45 → 35	
241-2281	ε Gem	06 35.4	+16 26		5/4/33	28		2144		
241-2282	R 164	07 13.1	+47 19		6/5/33	28		2210		
241-2283	"	"	"		"	"		"	"	

Dome Temp.

CO₂ in 1755

Transparency Conditions ... very Fine

264

Focus

V = 700

22:10 isolated clouds

Dome Temp.

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0037W		15"	5.4	F4III		MK0	} may have measured Resistance not voting!
0047			"	"			
		10"	8.5	SK		F00L Fitzguald	
0035W		10"	5.4	S5III		ΔM4	
0045W		"	"	"		ΔM4	
			8.39	V		⊕ instrumental difficulties	
0.40W			4.71	SOV		ΔHV	
0.50W			"	"		"	
0.20W			8.08	S20II		ΔHV	
0.40W			"	"		"	
0.38W			1.93	A0IV		EXT-ST.	
0.25			5.52	SOV		ΔHV	isolated cum clouds after time
			"	"			clouded out
Partly cloudy after midnight							
P.M.							

265

Date Sat/Sun Feb 16/17 1963

Observer F

vol B

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
242-2283	δ Tau	04 20 7	+17 26		5/6/33	28		18 37		
2284	"	"	"		"	"		18 47		
2285	ϵ Tau	04 26 3	+19 06		5/6/33	28		19 00		
2286	"	"	"		"	"		19 10		
2287	R 102	04 27 2	+13 49		7/6/33	28		19 25		
2288	"	"	"		"	"		19 35	+50	
2289A	λ Aur	05 16.3	+40 05		6/5/33			20 01 - 20 35 { 28, 22, 14, 18 } { 36, 50, 42, 28 }		
2290	ρ Gem	07 26.5	+37 52		1/33					
2291	"	"	"							

Dome Temp.

CO₂ in 1745

Transparency Conditions

Ci Low (10°) in W
Zenith OK

266

Focus

V = 700

1915 pos. not photoelectric

Dome Temp.

Hour Angle End	Declination	Secing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:12E		10"	3.93	K0 III		ΔMK	
0:02E		"	"	"		"	
0:05W		8"	3.54	K0 III		ΔMK	
0:15W		"	"	"		"	
0:32W		"	7.72	K2 III		ΔHV	
0:42W		"					
			4.71	50V		ΔMK resolution = 50V	
		6"	4.18	FOV		ΔMK clouded out	
		"	"	"		"	

267

Date Sun/Mon Feb 24/25 Observer Ry - Rm. Julian Day 2438085.
 0335 40 06.9 3621.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26681	HD 27371	4 ^h 14.1	+15° 23'	I12	IIaOB	008	-4°C	19 ^h 44	19 ^h 54 ^m	4
"	"	"	"	"	"	"	"	20 ⁿ 00	20 ⁿ 08 ^m	"
"	"	"	"	"	"	"	"	20 ⁿ 13	20 ⁿ 18 ^m	"
26682	HD 27697	4 ^h 17.2	17° 18'	"	"	"	"	20 ⁿ 43	21 ⁿ 02	1
"	"	"	"	"	"	"	"	21 ⁿ 04	21 ⁿ 18	"
"	"	"	"	"	"	"	"	21 ⁿ 20	21 ⁿ 25	1
26683	⁶⁴⁷⁶⁸ HD 65025	^{h 50.4} 07 ^h 51.6	^{04'} 11° 16'	"	"	012	"	22 ⁿ 01	⁰⁰ 12:03	2
26684	HD 84059	9 ^h 37.1	+45° 11'	"	"	.008"	"	⁰⁰ 12:28	01:40	3
26685	HD 93041	10 39.6	+41° 50'	"	"	"	"	02:02	02:56	4
26686	HD 90512	10 21.9	+11 49'	"	"	"	"	03:10	04:36	1
26686	HD 158614	17 25.2	-00 59	"	"	"	"	05:05	06:09	2
								06:11	06:27	"
	FOCUS TEST OTB									
#26683-	finder field incorrect hence wrong star observed									

Dome Temp. 17°F

Focus 12.66

Dome Temp.

Transparency Conditions fair to good

-23^h - passing cloud

03:00 clouds in south.

268

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1 ^h 38W	15° 33'	-1	4.60	Ko III	3-3-3	LUM STD STAR 8 Tau Set 2; Lens 5	4172 4176	l strong
1 ^h 50W	"	-1	"	"	9	Set 5; "	4177 4179	fine quiet
2 ^h 03W	"	-1	"	"	9	Set 8 "	4180 4181	fine
2 ^h 43W	17° 27'	"	4.72	Ko III	3-3-3	LUM STD 8 Tau Set 2 "	4182 4186	strong
2 ^h 53W	"	"	"	"	9	Set 5 "	4187 4189	strong
3 ^h 05W	"	"	"	"	9	set 8 "	4190 4191	fine
2:11 W	11° 06'	-1=0	9.4 8.7	KO A3	3-3-3	F Hd Eclipse Binary Set 5 Lens 9 ³ res. 4195	4238 4245	wrong star? weak 113? spots poor
2:10 W	44° 53'	0	7.50	A8	3-3-3	KAFS Prog Page 2 Set 5 lens 7	4249 ⁴	fine
2:15 W	41° 29'	0	7.38	F 3 ^D	3-3-3	KA 8x8 Prog Set 5 lens 7	4251 4254	l. weak
4:13 W	11 29	-1	7.38	G5	3-3-3	Too far west to focus 5 " 7	4255 4259	nothing on plate
1:12 E	-01° 03'	0	5.6	98 IV-V	3-3-3	LUM STD STARS Set 2 " 5	4263 4267	comparison - double l strong
0:59 E					3-3-3	Set 4 "	4268 4270	fine
					11-8	clouding over from south at dawn.		OK
						1 PH loaded		
						11 in dark now		

Dome Temp. 9°F Focus 12.66

Dome Temp.

Transparency Conditions *Excellent*

270

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
01 ^h 10 ^m	19° 01'				09	Lum. Std. Set 2	⊙ { 4320 4324 } fine	
01 ^h 15 ^m		*			090	Set 5	⊙ { 4328 4338 } fine	
01 ^h 24 ^m	19° 51'	0	4.58	KOTK		Set 8	⊙ { 4339 4359 } no comparison 1 strong	
01 ^h 25 ^m	+4° 44'	0	6.53	B9	3-3-3	B8-B9 Prag.	Set 5	4370 nothing on plate
02 ^h 34 ^m	+11° 42'	0	6.41	B9	3-3	"	Set 5	4380 2 spectra superposed
3:53W	+28° 14'	0	6.21	B9	6-3	B8-B9 Prag.	Set 5 sens 8	4382 4392 4396 } good
3:49W	+37° 22'	0	7.0	B9	3-3	"	Set 5 sens 8	4407 4417 } fine
3:54 W	+44° 18'	0	9.12	F5	2-1-2	KAF5 Prag Page 3	Sets sens 9	4420 4460 } fine
1:50 E	+05° 02'	0	6.54	B9	3-6	B8-B9	Set 5 sens 8	4465 4475 } fine

1 PH loaded (Not spotted) + ?

Hook came off hand control box.

DEC hand switch not working very well same like bad contact.

Need more stars for 2nd half for poor nights 9-10 hrs. Get 8th mag.

Dome Temp. +12°F

Focus 12.66

Dome Temp.

Transparency Conditions

Clear

272

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 26 W	+34° 29'	1	8.4	B0.5 II	2-1-2	set 5 0-B STD Val. sens. 8 4485	no good - PH shifted during
2 ^h 15 W	+35° 21'	1	6.6	O ₉ III	3-3-3	set 5 " " sens. 8 4497	no lines to wks. spots poor
				4.58 O₁₀ III		set 1 4507 emulsion scrapped at 24383	spots poor - distorted
1 ^h 55 U	+25° 57'	1-0	6.27	B9	3-3-3	B8-B9 program set 5 sens. 8 4509	"
2 ^h 35 W	+28° 12'	1	6.21	B9	3-3-3	" " " set 5 sens. 8 4521	emulsion scrapped at 243977
					11-8	Fouled test set 10	OK
						1 PH + 1 Box	

273

(vds)

Date Th/Fr Feb 28/1 1963

Observer L

RM. Julian Day 2438089.

0339 41 22.3 3613.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
243-2290	δ Tau	04 20 7	+17 26		5/6/33	28		1855		
243-2291	"	"	"		"	"		1905		
243-2292	ϵ Tau	04 26 3	+19 06		5/6/33	28		1915		
243-2293	"	"	"		"	"		1925		
243-2294	R102	04 27 2	+13 49		7/5/33	28		1935		
243-2295	"	"	"		"	"		1945	+sky	
243-2296	R147	06 17 0	-14 50		7/5/33	28		2010		
243-2297	"	"	"		"	4		2020	+sky	
243-2298	R164	07 13 1	+47 19		6/5/33	28		2045		
243-2299	"	"	"		"	"		2055		
243-2300	ρ Gem	07 26 5	+31 52		6/5/33	28		2110		
266 ⁹⁶ 78	HD 97420	11 07.6	+59° 41'	I 12	II aob	.016"		01 10	02 15	2
266 ⁹⁷ 77	HD 136849	15 17.8	+33° 17'	"	"	"		03:20	03:22	

03:30 Right clouds
in most of day

Dome Temp.

V 700

Transparency Conditions

Fine, some Cir. ALT. Cir. Low in NW

274

Focus

CO₂ in 1745D 5th old

21:00 clouds up to 30° alt in N

Dome Temp.

21:30, clouds in South, end.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 50 W		8"	393	K0 III		ΔMK	
1 00			"	"		"	
1 10			3.54	K0 III		ΔMK	
1 20		10"	"	"		ΔMK	
1 30			7.72	K2 III		ΔHV	
1 40		7"	"	"		"	
0 10 W			8.1	G2 III		ΔHV	
0 20 W			"	"		" 2 nd time back 2x	
0 05 E			5.58	S0 V		ΔHV	
0 05 W			"	"		"	
0 05 W			4.18	F0 V		ΔMK ← cloud damage no longer p.e	
Clouds and more clouds,							
EXPOSURE METER	very transparent: after much delay it seems to be working! seems to poor to finish						
01 22 W		-4	9.32	F6	2-	KAFS. Prog. Page 1 set 5 sens 10	4569 (70) too weak
01 20 W			5.34	B ₁	5	B ₅ B ₄ set 5 sens 6	4621 4623 fine

275 Thu/Fri Feb 28/Mar 1 1963

Date Fri MAR 1 1963 Observer R.M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
26 700 ⁶⁹⁸	HD 143187	15 53.9	+59° 12'	I12	II aob	008'	-8.3°	04:10	04:27
26 701 ⁶⁹⁹	HD 155711	17:08.2	+52° 32'	"	"	"	"	04:42	04:50
26 70 0 ⁰	HD 172883	18:57.5	+52° 06'	"	"	"	"	05:09	05:25
26 70 1 ¹	HD 177410	18:59.5	+69° 25'	"	"	"	-8.3°	05:41	06:19
	FOCUS TEST			OTB					

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

Transparency Conditions

276

Focus

Dome Temp.

Ending Time
EST.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04:29	01:09E	$+59^{\circ}00'$	-2	6.15	B9	3-3-3	B ₀ B ₉ Proj Set 5 lens 6	4630 4632 fine
04:00	02:02E	$+52^{\circ}25'$	0	6.11	B9	3-3-3	B ₈ B ₉ . Set 5 lens 6	4636 4638 too weak
05:25	02:58E	$+52^{\circ}09'$	0	5.83	B9	3-3-3	B ₈ B ₉ . Set 5 lens 5	4641 4643 d weak
06:19	02:31E	$+69^{\circ}26'$	-1	6.38	B9	3-3-3	B ₈ B ₉ Set 5 lens 6	4644 good
						11-8	Set 9.	c. to v. OK
							3 PH loaded 4 in Box.	

279

Date Sun/Mon Mar 10/11 1963 Observer *ve* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
245-2302	λ Aur	05 16.3	+40 05		6 $\frac{5}{6}$ /33	var		19 00	
2303	γ Gem	06 35.4	+16 26		5/6/33	28		19 53	
2304	ρ Gem	07 26.3	+31 52		6/4/33	28		20 25	
2305	ρ Gem	07 26.5	+31 52		"	"		20 35	
2306	MARS	08 35	+22 33		6/4/33	²⁸ slit		20 50	
2307	MARS	08 35	+22 33		6/4/33	28		20 55	
2308	π Uru	08 35.9	+65 09		6/5/33	28		21 10	
2309	π Uru	08 35.9	+65 09		6/5/33	28		21 20	
2310	ϵ Leo	09 43.6	+23 58		5/5/33	28		21 40	
2311	ϵ Leo	09 43.6	+23 58		5/5/33	28		21 50	
2312	20 LMi	09 58.9	+32 09		6/5/33	28		22 03	
2313	20 LMi	09 58.9	+32 09		6/5/33	28		22 13	+ sky
2314	δ Leo	10 06.2	+12 10		4/5/33	28		22 29	
2315	URANUS	10 19.6	+11 18		6/5/33	28		22 55	+ sky
2316	"	10 19.6	+11 18		6/5/33	28		23 15	

Dome Temp.

CO₂ in 18:00

Transparency Conditions ...very fine.....

280

Focus

V = 700

Dome Temp.

Full Moon

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:40W		7"-5"	40	S0V		SLIT 28 14 18 22 28 34 42 50 42 39 ¹⁸ 28	
0:23W			103	A0V		EX ST.	
0:01W		7"	-	F0V		DMK	
0:11W		"		"		"	
0:45E				S2V		S1.1	
0:40E							
0:25E			5.7	(S2V)		DMK	
0:10E			"				
1:05E			31	S01E		DMK (near edge)	
0:55E			3.1	S01E		"	
0:57E		4"	5.35	S4V		DMK	
0:47E			5.35	S4V		"	
0:32E			1.25	B2V		EXT ST	
0:20E		7"	5 1/2	S2V		DMK!	
0:00		8"	5.5	S2V			

cont. →

281

Cont

Date Sun/Mon 17/10/11 1963 Observer vald - RM Julian Day 2438099.

0349 42 07.3 3593.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
245-2317	47417a	10 57.4	+40 38		6/5/33	28		2327	
2318	"	"	"	"	"	"		2345	
2319	Ceres	11 10.1	+23 48		7/4/33	28		2400 + sky	
2320	"	"	"	"	"	"		0025	
26702	HD 93044	10:39.6	+41°50'	I 12	II aob	.008"	-5°C	00:55	01:52 1
26703	HD 107276	12:14.9	+29°01'	"	"	"	-5.1°C	02:04	02:18 2
26704	HD 114762	13:07.5	+18°02'	"	"	"	-5.1°C	02:33	09:20 3
	Focus test		OTR.						
					MC	SC	SW	ME	
	Clock corrections:	March 8	+16.2	-1.0	+47.1	-5.9			
		March 11	+15.5	-1.4	-3.9	-5.6			
		March 13	+0.9	-1.8	+19.1	-5.3	MC next SW adjusted		

Dome Temp.

Transparency Conditions

Perfect

282

Focus

Dome Temp.

02:00 clouds in south.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:25 E			5.14 (S2V)			DMK	
0:110 E			5.14 (S2V)			"	
0:03 E			7 (S2V)				
0:20 W			7 (S2V)				
02:06 W	+41° 30'	0	7.38	F0	3-3-3	KA 8x8 Prog. Set 5 Sens 7 4668 ¹	good
00:57 W	+28 38	-1	6.59	A2	3-3-3	KA 8x8 Prog Set 5 Sens 7 4672	good
02:07 W	+17 41	-1	8.2	F7	3-3-3	STD. VEL. STARS Set 5 Sens 9 4673	fine
					11-8	Set 9 4719 (40)	OK
						4 PH loaded	
						0 in box.	
						26704 is quite close to Full Moon.	
04:30	Haze to thick				03:00	Thin clouds drifting by	Thick clouds in south.
	to continue clearing up.				03:30	Getting very hazy.	

283

Date th/Fr Mar 14/15 1962 Observer W.B. - H.V. ^{Dm.} Julian Day 2438103.
 @ 353 41 30.5 3586.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
246-2321	NGC 2352	07 26.8	+21.00		8/4/33	14		20 36		
246-2322	π UMa	08 35.9	+65.00		6/5/33	28		21 22		
246-2323	π UMa	08 35.9	+65.00		6/5/33	28		21 32		
246-2324	R 183	07 58.2	+29.21		7/4/33	28		21 45		
246-2325	R 183	07 58.2	+29.21		7/4/33	28		21 55 + sky		
246-2326	ϵ Leo	09 43.6	+23.56		5/5/33	28		22 15		
246-2327	ϵ Leo	09 43.6	+23.56		5/5/33	28		22 25		
246-2328	20 LMi	09 58.9	+32.09		6/5/33	28		22 36		
246-2329	20 LMi	09 58.9	+32.09		6/5/33	28		22 46		
246-2330	δ Leo	10 06.2	+12.10		4/6/33	14		23 00		
246-2331	URANUS	10 18.5	+11.23		6/5/33	28		23 20	1 sky	
246-2332	η UMa	10 57.4	+40.38		6/5/33	28		23 45		
246-2333	η UMa	10 57.4	+40.38		6/5/33	28		24 05		
26705	HD 107276	12 ^h 14.9	+29° 01'	I-12	II cob. 008		-2.5 -2.8	1.31	01 53	/
26706	HD 126246	14 ^h 19.3	+11° 42'	"	"	"	-2.9	02 10	03 00	2
26707	" 131846 ⁶¹	14 ^h 50.9	+45.43	"	"	"	-3.0	03 14	04 12	3

Dome Temp.

V=700

Transparency Conditions Very Fine

284

Focus

CO₂ in 1700

2359 cumulus clouds moving in

Dome Temp.

(Seeing too poor for stellar work at SWST)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:30 W			8			Plan. nebula + central star	
0:00		10"	5.7	(S2V)		ΔHV	
0:10 W			5.7	(S2V)		"	
0:05 W			7.0	S8V		ΔHV	
0:15 W			7.0	S8V		ΔHV	
0:15 E			3.1	S0 II		ΔMK	
0:5 E		5"	3.1	S0 II		ΔMK	
0:05 E			5.31	S4V		ΔHV	
0:05 W			5.31	S4V		ΔHV	
0:15 W		8"	1.25	B7V		EXT. ST	
0:24 W			5.5	S2V			
0:10 W			5.14	S2V		ΔMK clouds!	
0:30 W			5.14	S2V		ΔMK	
0048 W	+28 39	0-	6.59	A2	3-3-3	Set 5 KA 8X8	#7 ⁴⁷⁴⁷ 4751 fine
0009 E	+11° 22	0-1	7.12	F5	3-3-3	" " " " South following	#8 ⁴⁷⁵² 4762 fine
0 32 W	45 26	0	7.64	F3	3-3-3	" " KA F5	#8 ⁴⁷⁶³ 4773 fine

285

Date Mar. 14-15/63 Contd. Observer Dm
Hr Julian Day 2438103.

0353 41 30.5 3586.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26708	HD 161961	17 ^h 43.4	-02:09	I-12	IIaD6	.012	-2.8	0430	0510	4
26708 ⁸	HD 144579	16 01.5	+39 24	"	"	.008	-2.9	0519	0549	7
	Flores Test		07B	"	"	"				
		MC	SC	SW	ME					
	March 15	+0.7 ^s	-2.1 ^s	+26.6 ^s	-5.2 ^s					
	18	-0.3	-3.3	-1.0	-5.3	sw restarted				
	20	-0.5	-4.0	+1.3	-5.9					

Dome Temp. $+21^{\circ}\text{F}$ Transparency Conditions *Good.*

286

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0123E	-0212	0	8.2	B0	2-2-2	Set 5 PLATE LOADED BACKWARDS Radcliffe OB. #B 4776	no good
0059W	3914	1	7.2	G8	3-6-	" " STD. Vel. #B 4780	fine (strong)
					10/7	" 9 #B 4808	OK c to v
						1 P.H. + 10	

Dome Temp.

Focus

Dome Temp.

CO₂ in 1900
700V

Transparency Conditions thin Ci. one entire sky, not pie.

288

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:15E			37V	CGOAr		Experimental	
0:30W			65	(92V)	⊙		
			65	92V	⊙	must be about 8 th mag in reality	
0:25E			70	98V	ΔHV		
0:15E			70	98V	ΔHV		
0:25E			70	98V	ΔHV		
						clouded out 2100	
			MC	SC	SW	ME	
March 22			-1.5	-5.1	+2.1	-6.0	
25			-1.6	-7.3	-0.1	-5.2	sw restarted

289

Date Nov 18/19 Nov/tn 1963 Observer ^{DM} VAD/MP-RM Julian Day 2438.107.
© 357 40 25.3 3579.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Any End
248-2339	γ Gem	06 354	+16 26		5/4/33	28		19 13			0
248-2340	MARS	08 34	+22 17		4/5/33	28		19 37			01
248-2341	R 178	07 51.2	+30 44		7/5/33	28		20 00			01
248-2342	R 178	07 51.2	+30 44		7/5/33	28		20 10	15sk		0.
248-2343	R 210	08 59.3	-02 20		7/5/33	28		20 32			05
248-2344	R 210	08 59.3	-02 20		7/5/33	28		20 42	15sk		04
248-2345	R 221	09 22.6	+19 58		7/4/33	28		21 03			04
248-2346	R 221	09 22.6	+19 58		7/4/33	28		21 20	15sk		03
248-2347	R 243	10 25.8	+49 00		7/4/33	28		21 42			11
248-2348	R 243	10 25.8	+49 00		7/4/33	28		21 52			10
26709	HD 82719	09 28.6	+63° 14'	12 1/2	IIa OB	set .008	-4.5	23:57	1:39		2
26710	HD 93044	10 39.6	41° 50'	"	"	"	-4.5	1:47	3:15		10
26711	HD 126246	14 19.3	11° 42'	"	"	"	-4.5	3:30	04:22		1
	Focus		OTB.								

fresh developer

Dome Temp. 19°F
 Focus ?
 Dome Temp.

CO_2 in 1815
 700V

Transparency Conditions Fine, Ci up to 10° NW. 290

Strong NNW wind

21:00 +4. - ci high in S.??

21:30 Night no longer quite ptm
 22:00 clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:10W		10-15"	1.93	A0IV		EXT. ST. Poor seeing	
01:27E			-1	(S2V)		NO ENTRANCE ϕ used	
01:5E		8"	8.34	S2VI		} Sharp CN break, Grant??	
0:5E			8.34	S2VI			
0:55E			7.54	K2VII		Δ IV near edge of ext. end	
0:45E			7.54	K2VII		Δ IV	
0:45E			6.56	S8III		Δ IV	
0:30E			6.56	S8III		Δ IV	
1:10E			6.4	S1V		Δ IV	
1:00E			6.4	S1V		Δ IV	

3:33"	$62^{\circ}56'$	0	7.56	F0	3-3-3	Ref 5	K.A. 8x8	4819	good (1 wk)
4:01V	$41^{\circ}29'$	0	7.38	F0	3-3-3	"	"	4859	"
4:39~	$+11^{\circ}23'$	1	7.12	F5	3-3-5	"	"	4862	l. wk
					11-8			4903	weak
								4110	OK

Clouded out 04:30 4PH loaded 4 in box.

291

Date Mar 23/24 1963 Sat/Sun Observer val B Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Am End
249-2349	R 221	09 22.6	+14 58		7/4/33	28		21 50		020
249-2350	"	"	"		"	28		22 00 + sky		030
249-2351	12 243	10 25.8	+49 40		7/4/33	28		22 18		020
249-2352	E 41	"	"		"	"		22 28		010
249-2353	47 Ura	10 57.4	+40 38		6/5/33	28		22 42		023
249-2354	"	"	"		"			22 52		013
249-2355	CERES	11 00 0	+24 20		7/5/33	28		23 07 + sky		005
249-2356	"	"	"		7/5/33	28		23 29		020
249-2357	Gmb 1830	11 50.4	+38 06		7/4/33	28		23 43		011
249-2358	"	"	"		"			23 58		007
249-2359	Vesta	11 48	+14 13		7/4/33	28		00 15		020
249-2360	"	"	"		7/4/33	28		00 32		042
Sat-Sun March 23-24										
2 ^m observation & SHUTTERS										
are of camera closed as										
gave up after pouring Jerry F										

Dome Temp.

Focus

Dome Temp.

CO₂ in 21.15
V = 700

Transparency Conditions

Thin Ci till 2100

21:30 Looks OK for Δ not p. a.

2300 sky possibly pe (hazy)

2400 fine

292

Seeing Very FineTiming Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
020W		1"	6.56	S8V	ΔHV		
030W		"	"	"			
020E		1"	6.4	S1V	ΔHV		
010E		"	"	"			
023E		"	5.1	S1V	ΔMV		
013E		"	"	"			
005W		"	6.5	(S2V)			
020W		"	"	"			
011E		"	6.5	S8V _p	ΔHV		
000		"	"	"	"		
025W		"	6.5	(S2V)			
042W		"	"	"			

293

Cont

Date Nov 23/24 1963 Sat/Sun Observer VB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
249-2361	BEVn	12 31.9	+41 37		6/4/33	28	0047			
249-2362	"		"		6/5/33	28	0057			
249-2363	B Com	13 10.1	+28 04		6/5/33	28	0111			
249-2364	"	"	"		"		0121			
249-2365	R 308	13 10.6	+17 43		7/5/33	28	0135			
249-2366	"	"	"		7/5/33	28	0145	+SK		
249-2367	<i>this star is not really R324, but HD 12548</i> R 324	14 00.6	+10 29		7/5/33	28	0159			
249-2368	"	"	"		7/5/33	28	0214			
249-2369	ABoo	14 13.8	+19 29		4/6/33	28	0227			
249-2370	"	"	"		"	"	0237			
249-2371	R 324	14 29.2	+28 47		7/6/33	28	0248			
249-2372	"	"	"		"		0258	+SK		
249-2373	ABoo	14 32.9	+29 55		6/3/33	28	0313			
249-2374	"	"	"		6/5/33	28	0323			
249-2375	R 373	15 4.1	+10 49		7/5/33	28	0338			
249-2376	R 373	"	"		7/5/33		0348			
249-2377	ABoo	15 33.0	+26 51		1/33					

Dome Temp.

Transparency Conditions

Fine
01:55 sunny!

294

Focus

Dome Temp.

03:50 thin cloud all over

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0008W		3"	4.3	SOV		DMK	
0018W			"	"			
0005E		5"	4.3	SOV		DMK	
0005W			"	"		"	
0018W			7.3	FGV		DHV	
0028W			"	"		"	
0005E			6.2	SOI or SOV		DHV!	
0005W			"	"		" close to edge	
0005W		3"	0.0	KZHP		DHV	
0015W			"	"			
0020W		2"	8.2	K01H		DHV	
0030W			"	"		"	
0033W			4.5	FZV		DHV	
0048W			"	"		"	
0010E			7.2	SLS		DHV	
0000			"	"		" ← Cirrus clouds	
			2.21	AOV		EXT. ST	

Dome Temp. 38
 Focus 12.66
 Dome Temp.

isolated ALTOcum. Fields.
 CO₂ in 2050
 V = 700
 3 day old moon

Sun/Mon (- poor but finally seemed good 296
 Transparency Conditions enough to open up at 20:40
 Mon 24/05/63 - clouded out & closed up again
 20 minutes later Fy/H
 2200 not pre.
 2300 looks OK
 2345 thru cloud edge

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 45 ^m W	+28° 05'	7	2.21	K0III	9	Yass Lum 1st	l. strong
0 ^h 47 ^m W					9	-	spectrum + 26713 superposed here
0 ^h 50 ^m W					9	2	strong
0 20 W		3"	7.54	K2III		ΔHV Drifted out on 2 ^d time	
0 30 W		"	"	"		"	
0 40 W		"	"	"		"	
1 20 W		-	0	(G2V)		no Q	
2:23 W		3"	8.34	G2VI		ΔHV new edge	
2 33 W		1	"	"		" Traced 5x, reject 1st	
0 50 E				S8V		DMK	
0 40 E		5"		"		"	2 P.H. Loaded
0 25 E			6.5	(G2V)			A Very Poor NIGHT!
0 05 E			"	"			
			3.6	F8V		ΔMK - cloud danger, no good!	
0 203 W	33° 52'	0	7.7	K0III	2-2-2	MR. high velocity stars	8 { 5019, 5041-2 } superposed on previous plate
2 51 W	11° 21'	00	7.12	F5	2-2-2 8/6	KA 8x8	8 { 5045, 5052 } fine OK

297

Date Sat/Sun March 30/31 Observer F ^{vclB} ⁻⁵⁹ Julian Day 2438119.5

⑥ 09 34 12.8 3554.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26715 ⁴ a	β gem HD 62509	07 39.2	+28 16	E-12	II a 0 B	.008	14.8°C	19 44	19 46	3
b	"							19 47	19 48	3
c	"							19 48	19 49	3
26715 ⁵	HD 82719	09 28.6	+63 14	"	"	.008		20 32	21 24	4
251-2388	α Leo	10 06.2	+12 10		4/5/33	14'		21 35		
251-2389	URANUS	10 16.3	+11 35		6/5/33	28		21 54	+sky	
251-2390	γ UMa	10 57.4	+40 38		6/5/33	28		22 20		
251-2391	CERES	10 55.5	+24 24		7/5/33	28		22 43	+sky	
251-2392	β Vir	11 48.7	+02 00		6/4/33	28		23 06		
251-2392	β Vir	" 48.7	+02 00		6/4/33	28		23 18		
251-2393	VESTA	11 42.2	+14 51		7/4/33	28		23 33	+sky	
251-2394	R285	12 13.2	-10 04		7/4/33	28		00 09		

Dome Temp. 54.0

Focus

Dome Temp.

700V 2115
 CO₂ 2100
 Hi clouds at sunset, sun
 cleared by strong wind
 looks OK 2100
 2200 fine

Transparency Conditions V. Poor.

black cloud in W 298

5000

V. Uridy.

554-9

ing Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
46 00 17 W		-3	2.2	KO III	9	Your luminosity. net 2 100% sens 4 (2) 5075	very strong
68 00 19 W					9	net 5 50% " (1) 5078	strong
49 00 20 W					9	net 9 25% " (2) 5074	fine
24 0 00 W	+62 55	-2.0	7.6	FO	3-3-3	Deal sharp KAFS 8x8 net 3 sens 8 (10) 5090	fine (fingerprints)
0 10 E		7"	1.25	B7V		EXT. ST.	these 2, later, slightly during 2nd half
0 03 W			5.5	(G2V)		Dried out	
0:15 E		10"	5.1	S2V	DMK	seeing poor, strong wind	
0:10 W		10"	7.1	(G2V)		" " "	
0:20 E		12"	3.6	F8V	DMK		
0 10 F			3.6	F8V	"		
0:15 W) + 0:21		20"	6.5	(G2V)		Dried out past time seeing!	
0:15 W		15"	6.1	F6V		Seeing too poor to continue	
						S. troublesome.	
						adjusting focus less not used seeing	
						but it makes improvement.	
						20:40 VAST IMPROVEMENT	

4 PM loaded
 0 in box.

Dome Temp. 40°F Focus 12.66

Dome Temp.

Transparency Conditions

300

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$0^{\text{h}}05^{\text{m}}\text{W}$	$+18^{\circ}41'$	-3	6.20	B9	2-1-2	B8-B9 Set 4	5128 5171 iron arc wk.
$0^{\text{h}}16^{\text{m}}\text{W}$		-3	6.1	GA	2-3	std. Vel Set 2	5173 5206 fine but iron arc wk.
						Had to cut exposure considerably short	
						Had trouble with RA clamp all night Hartmann Test Set 8 but O.K. now.	
						OTB 12^{s} ← OTB not on plate	
						ITA 8^{s}	
						2 PH loaded.	

301

Date *Sun/Mon* *Mar 31/Apr 1* 1963Observer *Pg I-*

Julian Day 2438120.5

© 10 33 27.7 3552.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26718	HD 52860	06 57.7	+47 54	I-12 $\frac{1}{2}$	IIaOB	008	8°C	20:06	20:45	3
26719	HD 74393	08 38.7	+4.42	"	"	"	"	21 19.	22 40	4
Focus Test 07B/17A										
Clock Correction:										
			MC	SC	SW	ME				
			-2.3	-8.5	-0.1	-5.8				
			29	-3.1	-9.6	+1.6	-6.0			
			April 1	-3.8	-10.9	+6.4	-5.6			
			3	-4.6	-11.7	+13.0	-5.9			

Dome Temp. 42°F
 Focus 12.66
 Dome Temp. 36°F

Transparency Conditions - Poor; Cloud in SW 302
 - Someone turned off the power - supply
 - Exp. meter wouldn't balance; spoke to
 Hr + got straightened out - 19:50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:00 W	+47 49	-2	6.34	B9	3+3+3	B8-B9 program HR2645 Set 5 Sens ⁵²⁶⁸ 5270	fine (10 str)
2:15 W	+4. 28	-2	6.28	B8	3+3+3	" HR 3458 Set 5 Sens ⁵²⁷¹ 6547	fine (10 str)
					12/8	Set 8	OK
						21 ^h 30 - high cloud	
						22 ^h 45 - decided to close up	
						4 PH loaded	
						- flashlight battery low	
						- integrate illumination in warming room doesn't work	

303

(vdB) Pa did not show

Date Apr 4/5 TH / Fr 1963 Observer L_F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
252-2395	Leo	10 06.2	+12 10		4/6/33	14		20 21		
252-2396	Mars	8 42	+21 04		4/5/33	78		20 52		
252-2397	Gl UMa	11 38.9	+34 26		6/5/33	28		21 19		
252-2398	"	"	"		"	"		21 29	+sky	
252-2399	gmb 1830	11 50.4	+38 06		7/4/33	28		21 45	+sky	
252-2400	"	"	"		"	"		22 13		
252-2401	β Vir	11 48.7	+02 00		6/4/33	28		22 35		
252-2402	"	"	"		"	"		22 45		
252-2403	R 285	12 13.2	-10 04		6/6/33	/28		23 04		
252-2404	"	"	"		"	"		23 14	+sky	
252-2405	BC Vni	12 31.9	+41 34		5/6/33	28		23 46		
252-2406	"	"	"		6/4/33	"		23 56		
252-2407	B Com	13 10.1	+28 04		6/4/33			00 08		
252-2408	"	"	"		"	"		00 08		
252-2409	^{W 206 with R 324} R 324	^{no. 4 120 548} 14 00.6	^{no. 11 64} +10 29		7/5/33			00 33	+sky	
252-2410	"	"	"		"	"		00 58		

Dome Temp.

CO₂ 1950

Transparency Conditions

Fine; Strong N. Wind of \approx 304

Focus

V = 700

10 days moon

Arctic Air

Dome Temp.

2300

perfect

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
105E		6"	1.25	B7C	"	EXT ST. N. SW moon	
050W		—	0	(920)	"	no Q	
01:43E		6"		58Z		DMY	
01:33E				"		"	
01:24E		8"	6.5	58Vp		DMV	
0100E		"	"	"		"	
0037E		7"	3.6	F8V		DMY	
0027E		"	"	"		"	
0036E			6.1	F6V		DMV	
0022E			"	"		"	
0010E			4.3	90V		DMK	
0000			"	"		"	
025E			4.3	90V		DMK	
015E		5"	"	"		"	
0045E			6.2	90 ^{II} _V ?		DMV	
0035E			"	"		"	

Dome Temp.

Focus

Dome Temp.

Transparency Conditions 0100 clear

0125 cumuli all over ✓
wind increasing

306

g Time
S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

026E

0.0

K20

ΔHV

016E

n

n

n

4.5

F2V

307

Date Apr 5/6 1963 Fr/Sat Observer 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	Hour Ang End
253-2413	8 Gem	0635.4	+1626		5/4/33	28		1943			21
253-2414	Mars	0842	+2111		4/5/33	28		2005			0
253-2415	11 LMi	0933.7	+3559		6/5/33	28		2034			0
253-2416	11 LMi	"	"		"	"		2044			0
253-2417	20 LMi	0958.9	+3209		6/5/33	28		2054			0
253-2418	"	"	"		"	"		2104			0
253-2419	GIUMa	1138.9	+3426		6/5/33	28		2121			0
253-2420	"	"	"		"	"		2131			0
253-2421	Smb 1830	1150.4	+3806		7/4/33	28		2147	+sky		0
253-2422	R 285	1213.2	-1004		7/4/33	28		2214			0
253-2423	R 285	"	"		"	"		2229	+sky		0
253-2424	R 308	1310.6	+1743		7/5/33	28		2253			0
253-2425	"	"	"		"	"		2303	+sky		0
253-2426	70 Vir	1326.6	+1400		6/5/33	28		2323			0
253-2427	"	"	"		"	"		2333			0

Dome Temp.

Focus

Dome Temp.

CO₂ in 1900

V = 700

Transparency Conditions

C 11^d old moon

OK isolated altorum in west

Ci. very low in west

308

2130 sky very fine, slight haze new ground

2230 Altocum 10° ALT in S.

2300

cloud moving up from south

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0150W		6"	1.43	A0IV		EXTST	
0106W			0	(G2V)		no g	
020E		5"	5.47	S8II-V		AMK	
010E		"	"	"			
022E		6"	5.35	S4V		AMK	
012E			"	"			
0137E		6"		S8V		AMK	
0127E							
0120E		3"	6.5	S8Vp		AMK	
0112E			6.1	F6V		AMK	
0102E			"	"		"	
0135E			7.3	F9V		AMK	
0125E		4.4"		"		"	
0123E		4.98		S9V		AMK	
0113E							

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

23 30 Still per .

310

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0120E		5"	2.70	G01K		ΔMK	
0110E			"	"			
0137E			4.5	F2V		ΔMK	
0127E			"	"		"	
J cont							

311

Date Apr 5/6 1963

Observer FL

Julian Day 2438125.5

⊙ 15 29 07.5 3541.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26720	HD. 142592 FOCUS TEST	15 50.3	+45 15	12½	<u>I₂O₆</u>	0.008	+40	02:12	03:45	1
<p>April 4/63 2 test plates developed in Acufine</p>										
<p>Clock Corrections MC SC SW ME</p>										
<p>April 5 -5.8 -13.1 +13.7 -7.9</p>										
<p>9 -7.6 -15.2 -27.4 -6.9</p>										
<p>11 -8.6 -16.3 -2.0 -5.4</p>										

313

Date Sat-Sun April 6/7, 1963 Observer RM Julian Day 2438126.5

☉ 16 28 08.7 3539.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26721	HD 107328	12 15.3	+03° 53'	I-12	II aob	^{set.} .016"	+8.5°C	²⁰ 12 : 50	01 39	2
26722	HD 110501	12 37.5	+34° 14' +33° 54'	"	"	"	"	01:45	02 53	3
26723	HD 131861	14 50.9	+15° 43'	"	"	"	"	03 08	04 06	1
	Focus test		OTB			.005"				

Dome Temp. 42°

Transparency Conditions

314

Focus 12.66

Very Hazy

Dome Temp.

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01.2	1hr 56' W	03° 28'	-1	6.1	K _I	2-1-2	STD VEL STARS Set 5 Sens 8 5357 ²⁰ 5377	v. strong
01.3	2.53 W	+33° 54'	-1	7.7	K ₀ III	2-1-2	MR High Vel Giants Sets Sens 8 5384 5309	l. strong
01.6	1.54 W	+15° 25'	-1	7.64	F ₃	2-1-3	KATs Prog Set 5 Sens 8 5407 5417 ¹⁰ 11-8 set 9.	fine OK
							Clouded out 01.15	
							2 PH loaded none in dark room.	

315

Date Sun Nov - Apr 7/8 1963

Observer

(Py)

VdB

Julian Day 2438127.5

© 17 27 07.9 3537.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
254-2432	11 LNL	09 33.7	+35 59		615/33	28		19 45		
254-2433	"	"	"	"	"	"		19 53	+sky	
254-2434	81 Cnc	09 10.3	+15 12		714/33	28		20 13		
254-2435	"	"	"	"	"	"		20 23	+sky	
254-2436	2 Leo	10 06.2	+12 10		416/33	14		20 42		
254-2437	URANUS	10 15.5	+11 39		615/33	28		21 03	+sky	
254-2438	47 UMa	10 57.4	+40 38		615/33	28		21 27		
254-2439	Gumb 1830	11 50.4	+38 06		714/33	28		21 51	+sky	
254-2440	Q UMa A	09 30.2	+51 52		515/33	28		22 22		
254-2441	"	"	"	"	"	"		22 32		
254-2442	70 Vir	13 26.6	+14 00		615/33	28		22 52		
254-2443	"	"	"	"	"	"		23 02	+sky	
254-2444	γ Boo	13 52.9	+18 36		515/33	28		23 18		
254 2445	"	"	"	"	"	"		23 28		
254 2446	61 Vir	13 16.5	-18 05		615/33	28		23 44		
254 2447	"	"	"	"	"	"		23 54	+sky	

Dome Temp.

1845 ST 700 V

Transparency Conditions

Fine, Ci. Very low r-w

Focus

NO CO2

Seeing very poor at first

Polar air, Monsoon NW wind

Dome Temp.

21:30 ~~Perfect! Seeing better~~

Full Moon

316

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
056E		10"	5.47	581V	V	DMK	
046E		"	"	"	"		
007E		7"	6.5	140V		DMK	
003W			"	"	"	"	
035E		7"	1.25	137V		EXTST	
020E		-	5.5	(52V)		-	
040E			5.1	52V		DMK	
01:08E		7"	6.5	58Vp		DMK	
01:40W		8"	3.19	161V		DMK	
0150W		"	"	"	"	"	
0146E		7"	4.98	55V		DMK	
0136E		"	"	"	"	"	
0146E		10"	2.70	501V		DMK	
0136E		"	"	"	"	"	
0044E		8"	4.74	56V			
0034E		"	"	"	"		

317

Date Sun. Mon. Apr. 1 7/8 1963 Observer R.M. Julian Day 2438127.5

0 17 27 07.9 3537.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26724	HD 90512	10 21.9	+11° 49'	I-12	IIa'ob	.008"	+4.2°C	⁰⁰ 02:25	01:59	1
26725	HD 123782	14 04.6	+49° 56'	"	"	"	+4.3°C	02:11	03:47	2
26726	HD 136244	15 14.5	+60° 29'	"	"	.016"	+4.3°C	03:09	05:11	3
	Focus Test					.008"				

Dome Temp. 39°F

Focus 12.66

Dome Temp.

Transparency Conditions

318

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
3:59.1	4 hr 19m	+11° 28'	0	7.38	G5	3-6 KA 8x8 Prog	5432 5437 5439	fine
3:47.2	1 hr 25m W	+49° 36'	0	6.8	F7	3-3-3 STD Vel Star.	5459 5465	fine
5:11.3	2 hr 40 W	+60° 12'	0	9.08	K3	2-1-2 KAF S Prog	5365	focus test superposed - may be usable
					11-8	set 9.		OK
one Focus test done on								
set 5 of last plate by mistake						3 PH loaded.		
						none in dark room		

319

Date Tues-Wed April 9/10 1963 Observer Ln Dg - Hv Julian Day 2438129.5
 0 19 24 59.9 3533.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26727	HD42807	06 ^h 07.7	+10° 40'	I-12	Ilao6	Set .008	+4.6°C	19 50	20 ^h 44	4
26728	HD90512	10 ^h 21.9	+11° 49'	"	"	"	+4.7°C	20 59	22 ^h 19	1
26729	HD111226	12 ^h 42.6	-24° 18'	"	"	"	+4.3°C	22 ^h 30	23 ^h 12	2
26730	HD104955	12 ^h 00.0	+47° 57'	"	"	Set .016	+4.4°C	23 ^h 26	03 26	3
	Focus TEST	OTB		"	"	"				

Dome Temp. 45° F

Focus 12, 6.6

Dome Temp.

Transparency Conditions Hazy - High Wind 3.20

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
44	3 ^h 24 W	+10° 38'	0	7.24	dG5	3-3-3	Very poor seeing set 2 Yoss Lum. Std. 25% of normal strength sens. 8 5596	fine
19	0 ^h 46 W	+10° 30'	0	7.38	G5	3-3-3	set 5 KA 8X8 sens. 8 5602 5622	strong
2	0 ^h 42 E	-24° 39'	0	7.1	B9	3-3-3	set 5 BP-B9 sens. 8 5623 5633	fine
26	04 16 W	+47° 36'	0-1	9.2	G7III	2-1-2	set 5 MR HV Giants sens. 9 5636 5708	fine
						6/4	" 9 3PH Loaded.	OK
							<u>0325</u> Clouds + snowflurries	
							After 2 Frustrating attempts, closed up + went home because of March winds in April. RM.	

321

Date Th/Fr Apr 11/12 1963 Observer *red* Julian 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.
255-2448	HD 75732	08 50.4	+28 28		6/5/33	28		19:54		
255-2449	"	"	"		6/6/33	"		20 04		
255-2450	81 Cen	09 10.3	+15 12		6/6/33	28		20 18		
255-2451	"	"	"		"	"		20 28		
255-2452	HD 97334	11 10.4	+36 01		6/6/33	28		20 51		
255-2453	"		"		"	"		21 01 <i>1 sky</i>		

Dome Temp.

Focus

Dome Temp.

CO₂ in 1900

V = 700

Transparency Conditions

20:30 a few isolated
cloud patches


21:00 between large
cloud banks

Fine, some cirrus

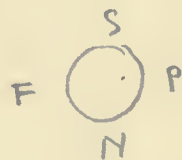
horizon and some stratus low in N.

rather strong NW wind

322

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0007W		6"	5.97	dko		DMK	
0017W			"	"		"	
0014W		4"	6.5	KOV		DMK	
0024W			"	"		"	
0112E		5"	6.32	SdFg		DHV brightest pair	
0102E			"			"	
			21:30	clouded out			
				Clean at midnight			
				Clouds by 01:00 HV			

324



Ending Time
E.S.T.

325

Chicago

Telegram

WASHAGI 13013 USSPA 12387 6183/06018

15412 13308 URANI 12657 13171 07816

URANA 12253 1423// = 13 46013 61400 62300 41626

41715

31716/1720 81815 81830/1837 41910 31920/1935 URANIP 12223

12255 61400 62500 81815 81830/1837 UMAGA 12625 04133

40333 = 623//

-upred

AGAWARN B^U_NTAN FT BELVOIR VA 1512002

if O pull focus

10 right all to way 20^S 25 008 326
prism Normal

100

20 move prism N
Move ① heading up 16^S 25 008

HANDBOUND
AT THE



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