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61

442

G10 FOCUS TEST: USING THE CONVENTION IN-IN/OUT OUT 2
WHEN C IS TO U1 WE MUST TURN FOCUS KNOB CW,

I.E. TOWARDS BIGGER NOS.

ALWAYS TAKE UP SLACK IN THE CCW DIRECTION

I.E. MAKE THE FINAL SETTING TURNING TO SMALLER NOS.

G12 FOCUS TEST. USING THE CONVENTION IN-IN/OUT OUT
WHEN C IS TO U1 WE MUST TURN FOCUS KNOB TO
SMALLER NOS

ALWAYS TAKE UP SLACK BY GOING TO A MUCH
SMALLER NO FIRST & THEN INCREASE TO DESIRED
ONE

5

Date 16 June 1965 Wed Observer Ince Julian Day
pm.

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
28444 F3	focus test			Orion	Ta O ₆	9	61°F			C	01 00
F4	"		"	"	"	"	"			"	"
F6	"		"	"	"	"	"			"	"
F67	"		"	"	"	"	"			"	"

Dome Temp.

Focus

Dome Temp.

Dome Temp.

Transparency Conditions

6

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 00	45°				3/3	no filter plate broke in exp	C to VI
"	"				"		"
"	"				"	focus changed: 0.5 → 1.5	C to VI not as good
"	"				"	focus changed 1.5 → 2.5	BETTER SIC TO VI.
Looks as though best focus would be 3.0							

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Date Fri Sat June 18-19, 1965 Observer R.C. ~~SD~~ Julian 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 Est
28445	170 235	18 23.2	-25 19	G40	Ilao 6	13	64	0 39	1 54	A	1 01 W
28446	174 237	18 44.5	+52 53	"	"	13	61	2 22	2 39	B	1 26 W
28447	1 Aql.	19 41.5	+10° 22'	G40	"	"	60	02 ^h 59	3 ^h 03	C	0 51 W
28448	1 Aql	"	"	"	"	"	"	03 ^h 09	3 ^h 11	A	0 59 W
28449	"	"	"	"	"	"	"	03 16	03 18	B	1 06 W

Dome Temp.

Focus

Dome Temp.

Hour Angle

Est

Dome Temp. 66
 Focus
 Dome Temp.

Transparency Conditions *not good -*
partly cloudy + haze 1st half
haze + cirrus + clouds 2nd half

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1 54	A	1 01 W	-25° 16'	0	6.71	B152 ^[211-V]	8-8-8	Cm-Be Prop. <i>circus moving on again</i> (1/2 X)	Sens 6 } 1859 1860	guiding
2 39	B	1 26 W	+52 58	0	5.81	B332 ^[111-V]	8-8-8	Cm-Be Prop	Sens 6 } 1862 1864	comp weak apert strong
3 03	C	0 51 W	+10° 32'	0	4.12	K3II	8-8-8	NIK Standard full exposure	Sens 4 } 1866 1867	fine
3 11	A	0 59 W	"	0	4.15	K3II	8-8-8	" "	Sens 4 } 1868 1869	1/2 exp. weak
3 18	B	1 06 W	"	"	"	"	8-8-8	" "	Sens 4 } 1870 1870	1/4 exp. guiding

11

Date 20-21 June 1951

Observer ^{HR} MSE

Julian Day

sun - moon

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 Est
28449F							76°			A	
28450	HD 115043	13 09.5	57 14	G40	Fast	13	"	21 00 ¹⁶	21 31	B	0158W
28451	"	"	"	"	"	"	"	21 32 ¹⁷	22 05	C	0232W
28451T	Calibration Slip Wedge				for plates			28445 - 28451			

Dome Temp.

Focus

Dome Temp

Hour Angle
Est

Dome Temp. $78^{\circ}F$

Transparency Conditions POOR 2110

1.2

Focus

O'CAST 2205

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A						3/3	NO FILTER wires reb 73	quite mild very strong
131	B	0158W	+5.654	0-1	7.3	G12	8-8-8	MK STD	(7.3) 1875 #8 { 1882.5 lwh
2205	C	0232W	"	"	"	"	8-8-8	" <u>CLOUDY</u>	#8 { 1883 1884.9 weak
FOUN D TELESCOPE WITH DUST COVER OPEN.									

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Date 21-22 June 1955
Mon & Tues

Observer

(Mcl)
D. M. G. M. C.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	MIDDLE	MIDDLE	P.H.
								Starting Time E.S.T.	Ending Time E.S.T. LST	
384 - 1	λ Ser	15 44.7	+07 28		t=20 sec	18" diameter		21 29	15 12	E0 32
- 2	M3-154	13 40.6	28 32		= 30 sec			22 02	15 44	W2 04
- 3	$\bar{E}-\bar{II}-28$	"	"		"			22 53	16 30	W2 57
- 4	λ Ser	15 44.7	07 28		t=20 sec			23 09	16 54	
- 5	M13-2	16 40.5	36 32		t=40 sec			23 46	17 30	W0 52
- 6	"	"	"		"			00 09	17 52	W1 12
- 7	M13-15 λ Ser	"	"		"			00 23	18 17	
- 8	M13 M10 SLD	15 44.7	+07 28		t=20 sec			1 02	18 45	
- 9	M10 SLD	16 55.2	-04 03		t=30 sec			1 17	19 00	
- 10	M10-3	"	"		"			1 37	19 20	
- 11	κ Aql	19 35.1	-07 06		t=10 sec			2 06	19 49	
- 12	β Aql	19 53.7	+06 19		t=10 sec			2 25	20 09	
- 13	δ Del	20 37.9	+15 47		"			2 35	20 18	
- 14	ϵ Cyg	20 44.8	33 50		"			2 53	20 36	
- 15	ϵ Aql	20 45.7	-09 38		"			3 02	20 45	

Dome Temp.

Focus

Dome Temp.

A. D. L. E.

Hour Angle

E

Dome Temp. 72°F

Transparency Conditions VERY GOOD
 very dark sky, fair seeing

Focus

Dome Temp. 61°F

MIDDLE
 Ending Time
 6:57 P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E0 32				G05		Y-A5, B-A5, U-B3	
N2 04						U-D2, B-D2, U-D3 + sky	
W2 57						Y-D2 B-D2 U-D3 + sky	
						Y-A5 B-A5 U-B3	
W0 50						Y-D2 B-D2 U-D2 + sky	
W1 12						Y-D1 B-D1 U-D1 + sky	
						Y-A5 B-A5	
						Y-A5 B-A5 U-B3	
						Y-D1 B-D1 U-D1 + sky	
						U-B2	+ sky
							+ sky
							+ sky
						A5 A5 B4	
				B95		A5 A4 A6	
				K014		A3 A3 A6	using 31" diagonal
				A10		A5 A4 A6	

15. → listed declination of δ Sco must be increased (-220 30' δ_{1960} recommended)

Date 22-23 June 1965 Observer H. G. Mearns Julian Day 185.5
Lens - Wed

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
28452	π Sco	1960 15 ^h 56. ^m 4	1960 -26° 00'	G40	D _a Ob	13	73°	20 56	20 58	A	01 12 E
28453	δ Sco	1960 15 58.0	1960 -22 29	G40	D _a Ob	13		21 11	21 12	B	00 59 E
28453 F ₁	Focus Test			G40	D _a Ob	13	72° F			C	
28455 ↗	π Sco	1960 15 ^h 56.4	1960 -26 00	G10	D _a Ob	9		22 07	22 54	C	00 45 W
28454 ↘	δ Sco	1960 15 58.0	1960 -22 29	G10	D _a Ob	9	72° F	21 36	22 00	B	00 12 E
28456 F ₁	focus test	in in / out out		G10	D _a Ob	9				C	
28456 ↘	δ Lya	1960 18 35.6	1960 38 45	G10	D _a Ob	9	69° F	23 03	23 07	B	01 42 E
28456 F ₂	focus test	in in / out out		G40	D _a Ob	13	68° F			A	
28456 F	Calibration Step Wedge										for plates 28452 - 53

Dome Temp. _____
 Focus 72
 Dome Temp. _____

Dome Temp. $75^{\circ}F$
 Focus $72(4/5), 70\frac{1}{2}$
 Dome Temp.

Transparency Conditions Poor - light \overline{E} over most of sky ^{1.6}
 2200 - very good
 2300 - clouds from W.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 53	A	01 12 E	-26 01	0	2.73	BIV	24	Spec. plates for D.C. Morton #4 { ⁽¹⁾ 1889 1890	lweak
21 12	B	00 59 E	-22 33	0	2.21	BOV	24	" " " " " " #4 { ⁽¹⁾ 1891 1892	lweak
	C						3/3	no filter THINKING OF 4/0 - THIS PLATE WILL BE TOO STRONG	O.K.
22 54	C	00 45 W	-26 01	0	2.73	BIV	8-8-8	Special plates for D.C. Morton rem #4 { ⁽¹⁵⁾ 1908 1920	lweak
22 00	B	E 0 12	-22 31	0	2.21	BOV	8-8-8	" " " " " " #4 { 1892 1907	lweak fine sl center to violet
	C						3/3	no filter	
3 07	B	E 1 42	38 44		0.04	A0	12/12	std Uel. (Rc) #4 { ⁽¹⁵⁾ 1921 1936	fine
	A						40/40	focus set $70\frac{1}{2}$ outside weak	O.K.
							23 20	Clouding - completely obscured	

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TELESCOPE IS STICKING BADLY IN 8Date 24-25 June 1955 Observer SK. Pye Julian Day 240744
2 hours - Fri

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28456 F3	focus test in in/out out			Gr10	IIa D ₁	9	62°F			C
F4	"	"	"	"	"	"	"			B
F5	"	"	"	"	"	"	62			C
385-3251	α Cr B	15 ^h 33 ^m	+26°50'		5-4-2	28"		21 ^h 05		
3252	"	"	"					21 ^h 30		
3253	162774	17 ^h 50 ^m 8	-6°7'		7-5-2/3	20"		22 ^h 47		
28457	Walker #100 ka	17 58.3	-24 24	Gr40	IIa-Ob	17	56°F	23	44 00	54 C
28457 F ₁	focus test in in/out out			"	"	13	54°F			A
28457 T	Calibration step wedge									
385-3254	μ Sgr ¹⁷⁰⁷⁴⁴	18 26.0	-19 11.7		7-5-3	20"		1 ^h 07 ^m		
385-3255	176 155	18 36.7	+17 19		6-5-2	28"		1 ^h 50 ^m		
385-3256	η Aql	19 50.7	+0 55		6-4-2	28"		2 ^h 25		

Dome Temp.

Focus ... (G)

Dome Temp.

Hour Angle
Est1^h17^m0^h17^m E1^h0 E

W0 46-

0^h44^m1^h0^m W0^h37^m W

Dome Temp. 60°F
 Focus $CC(G40)$
 Dome Temp.

Transparency Conditions *excellent*

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	C	$\sim 1^{\text{h}}\text{W}$	$\sim 45^{\circ}$				3/3	no filter focus $2.5 \rightarrow 3.0$ dome temp 68°F (4 sec)	sl c to R
	B						3/3	focus $3.0 \rightarrow 2.8$	CTOR - WDPT IN UJ - TRY PHCS Lucky good W.A.T.R
	C	"	"				3/3	same focus	
								F 5 seems about the closest focus possible there is apparently a very slight discrepancy between the focus in PH 19 and 3	
		$0^{\text{h}}17^{\text{h}}\text{E}$							
		$1^{\text{h}}01^{\text{h}}\text{E}$					2.2	average ADV $\overline{\text{imaging}}$ test with differing time constants, diaphragms and scanning speeds	
							7.0	G0.0 + Sky	
0 54	C	W0	46 -24	19	0	8.8	B2.0e	8-8-8 SK faint 13e	work
	A						30/30	SLIT LENGTH 15 PER INSTRUCTIONS #9 SLIT ~ 4 arc NOT RELIABLE	
		$0^{\text{h}}44^{\text{h}}\text{W}$					7.0-8.2	F7-G5 Ib	+ Sky
		$1^{\text{h}}0^{\text{h}}\text{W}$					5.8	CF5	+ Sky
		$0^{\text{h}}37^{\text{h}}\text{W}$					4.1-5.2	F6-G4 Ib	

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channel 2 used.Date June 25-26Observer Dm-Lv

Julian Day

Fri-Sat

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	β	Temp.	MIDDLE Starting Time -E.S.T.	Ending Time -E.S.T. GST	P.	How Angle and Middle
386-1	λ Ser	15 ^h 44.9	07 ^o 27'		A6	A6	B4	21:25 End			
-2	M3 206	15 40.6	28 32		C5	C5	D4	22:58	15:57		02 17
3	M3 v#154	"	"		C6	D3/D2	D4	22:26	16:25		02 45
4	M3 1402	"	"		D4	D4	D4	23 05	17:04		03 24
5	λ Ser	15 44.9	07 27		A6	A6	B4	00 20	18:19		02 34
6	M13 v#2	16 40.5	36 32		D2	D2	D4	00 40	18 38		01 50
7	M13 sta#1	"	"		C5	C5	C6	01 17	19 16		02 57
8	M13 sta#56	"	"		D1	D1	D4	01 30	19 28		02 49
9	v#1	"	"		D2	D2	—	02 15	20 13		03 33
10	M56 v#1	19 15.2	30 06		D3	D3	D4	03:00	20 50		01 45

Dome Temp.

Transparency Conditions

perfect

22

Focus

Dome Temp. 58°F

INT

A: 36"

G: 24"

E: 18"

ending Time
E-E-1/5

Hour Angle End MIDDLE	Declination	TIME Spring	Ptg. Mag.	Sp.	SKY Comp.	REMARKS	DIAPH Quality
		10 ^s				Dark Current in Ch 1 too high Used Ch 2	E 24"
15:57	02 17 W	40					E
16:25	02 45 W	40			R; L; D	23:15 Dec Doesn't work last 3/4 h	"
17:04	03 24 W	40					"
18:17	02 34 W	16				00:15 Integrator Falling Apart, broken	"
18:38	01 58 W	70			R; D Ur D	Please be more specific! Av OK	"
19:16	02 37 W	40					"
19:28	02 49 W	40			D		"
20:13	03 33	70				Trouble identifying stars	" 2"
20:58	01 45 W	70			V		"
						Close up 3:0	
						sky getting bright	

Cu, Re, Ce

VISITORS

SHOWED UNIVERSE, M13

23

Date Sat/Sun June 26/27 Observer Re Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
28458	HD 171780	18 ^h 31.6	+34° 22'	G40	IIaD	13	63	23:02	23:34	A	0 ^h 57 ^m 6 ^s
28459	HD 173219	18 ^h 39.1	-07° 13'	G40	IIaD	13	62	00 ^h 03 ^m	01:55	B	1 ^h 18 ^m
28460	HD 186547	19 ^h 40.0	+13° 03'	G40	IIaD	13	58	02 ^h 23 ^m	02:46	C	1 ^h 07 ^m
28461	41 Cyg	20 ^h 25.3	+30° 02'	G40	IIaD	13	58	02 ^h 56 ^m	03:04	B	0 ^h 24 ^m
28462	"	"	"	"	"	"	"	03 ^h 13 ^m	03:17	C	0 ^h 52 ^m

Dome Temp. _____
 Focus
 Dome Temp. _____
 Hour Angle End

Cloudy then clearing
clouds again. DB

24

Dome Temp.

Transparency Conditions

Focus

Dome Temp. 59°

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 54	0 ^h 57 ^m E	+34° 25'	0 ⁺	5.98	B3	8-8-8	Be-Cr circus around. - exposure meter Problem	fine
01 55	1 ^h 18 ^m W	-7° 08'	0 ⁺	8.02	B1	8-8-8	Cn-Be Sens 10 1974	fine
02 40	1 ^h 07 ^m W	+13° 10'	0 ⁺	6.07	B8	8-8-8	B8-B9 Binary slat southern or brighter of two stars Sens 2 1987	fine
03 04	W 0 ^h 24 ^m	+30° 15'	0 ⁺	4.43	F5	8-8-8	MX Standard 1/2 normal Sens 4 0.8	guiding
03 17	W 0 ^h 52 ^m	"	"	"	"	8-8-8	" 1/2 normal Sens 1 0.4	fine

Clouding in as east gets light.

25

Date 27-28 June 1955 Observer H. M. S. E. Julian Day Am. Moon

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
28463	HD 136202	15 14.2	+02 09	6140	Ilad6	13	73°	21 15 ⁸	21 30	A
28464	HD 131861	14 50.9	45 43	"	"	"	"	21 43 ⁸	23 59	B
28464 F1	focus test	in in/out out		"	"	"	68°	—	—	C
28464T	Calibration Step Wedge for plates 28458-64									

Dome Temp.

Focus 72

Dome Temp.

Hour Angle
East

0018W

03 13W

1 1-

Dome Temp. 76°F

Focus 721

Dome Temp.

Transparency Conditions *some clouds at start* -26

2230. at least 1 mag. dimming

2359 CLOUDS

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 30A	0018W	+01 52	0	5.6	G0	8-8-8	Std. Vel. #7 { 1996 2002	fine
2359	W3 1345	280-1	7.64	F3	8-16	KAFS	<i>FIELD DRAWN</i> #9 { 2004 2018	twk
	11 -	11				30/20	same focus	
							FOUND EXP. PLATE BOX IN DRKRM (MAIN BLDG.) WITH SEVERAL MARKS OF <u>DRIED DEVELOPER</u> ON IT.	

FOUND SOME UNCHAINED - WED P.M.

27

Date 30 June / 1 July Observer Ed. - Rose Julian Day 171.5
W. L. - Thomas + MR

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	MIDDLE Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle East
387-1	HR 5235	13 ^H 53.0 ^M +18 ^D 35			t = 20500		70°F	21 35			2 47 00
-2	HR 5270	14 00.8 +9 52			"			21 42			W 2 40
-3	HR 5933	15 54.8 +15 47			"			21 52			W 0 16
-4	HR 5447	14 33.1 29 54			"			22 01			W 1 41
-5	HR 5511	14 44.5 +02 02			"			22 10			W 1 44
-6	HR 6355	17 03.7 +12 47			"		62°F				
-7	HR 5933	15 54.8 +15 47			"			22 26			W 0 58
-8	HR 6092	16 18.6 46 24			"			22 37			W 0 37
-9	HR 5685	15 14.8 -09 16			"			22 45			W 4 40
-10	HR 5933	15 54.8 +15 47			"			22 52			W 1 16
-11	HR 6629	17 46.2 +02 43			"			23 01			1 33
-12	HR 6705	17 55.8 51 29			"			23 24			E 0 14
-13	HR 5933	15 54.8 +15 47			"			23 31			W 1 54
-14	HR 6714	17 58.9 +02 56			"			23 42			W 0 02
-15	HR 6629	17 46.2 +02 43			"			23 50			W 0 23
-16	HR 7069	18 45.5 +18 08			"		59°F	23 57			E 0 30

Dome Temp. $70^{\circ}F$
 Focus
 Dome Temp. $59^{\circ}F$

AFTER #11 - RELAY FOR DOME-TURNING (WEST)
 Transparency Conditions STUCK - HAD TO CUT POWER. (28)

Ending Time
 E.S.T.

P.H.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	MIDDLE							
2	W 17 50 M			2.80	G013		B6 B2	
	W 2 00			6.12	G0111		D3 C4	
	W 0 16			3.86	F6U		C3 B4	
	W 1 41			4.48	F2U		C4 B5	
	W 1 44			3.76	A0U		C3 B4	
				4.91	A313		C5 C1	
	W 0 50			3.86	F6U		C3 B4	
	W 0 37			3.91	B51U		C2 B3	
	W 0 48			2.74	B8U		B6 B2	
	W 1 16			3.86	F6U		C3 B4	
	1 33			3.74	A0U		C3 B4	
	E 0 14			2.42	K5111		B5 B2	
	W 1 54			3.86	F6U		C3 B4	
	W 0 02			3.92	B516		C3 B4	
	W 0 23			3.74	A0U		C3 B4	
	E 0 30			4.37	A3U		C4 B5	

narrow wide

dry ice put in ~ 8:30-9: PM
 (DST)

← TROUBLE w DOME

29

Date Thurs 1 July

Observer Mel. Mee Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	M.D. Starting Time E.S.T.	Ending Time E.S.T.	P.E.
387-17	HR 7178	18 ^H 57.6 ^M	32 ^D 38 ¹			20 sec	59°	0 ^M 06 ^M		
-18	HR 7235	19 03.8	+13 49			"		0 17		
-19	HR 5933	15 54.8	+15 47			"		0 23		
-20	HR 6714	17 58.9	+02 56			"		0 33		
-21	HR 7377	19 23.7	+03 02			"				
-22	HR 5933	15 54.8	+15 47			"		0 50		
-23	HR 7446	19 34.7	-07 07			"		0 59		
-24	HR 7447	19 34.9	-01 23			"		1 "		
-25	HR 6629	17 46.2	+02 43			"	58°	1 18		
-26	HR 5933	15 54.8	+15 47			"		1 41		
-27	HR 7906	20 38.0	+15 48			"		1 50		
-28	HR 5933	15 54.8	+15 47			"		1 58		
-29	"	"	"			"		2:01		
-30	"	"	"			"		2:04		
-31	HR 7977	20 47.7	45 59			"		2:16		
-32	HR 8143	21 16.0	39 15			"		2:22		

Dome Temp.

Focus

Dome Temp.

M.D.

Hour Angle

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

E.O.

Dome Temp. 59°F

Transparency Conditions EXCELLENT

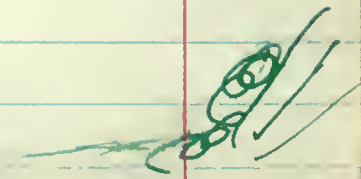
30

Focus

Dome Temp. 57°F

MID-

Ending Time E.S.T.	P.H.	Hour Angle HA	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								H ₂ N III H ₃ W	
20	H	32 ^M			3.30	B4U		B6 B2	
20		28			3.02	A0U		B6 B2	
W2		47			3.86	F6U		C3 B4	
W0		53			3.92	B5U		C3 B4	
					3.44	F0U		C2 B3	
W3		14			3.86	F6U		C3 B4	
E0		16			5.04	B05U		C5 C1	
E0		05			4.28	B5U		C4 B5	
W1		51			3.74	A0U		C3 B4	
W4		05			3.86	F6U		C3 B4	← added ink to pen
E0		29			3.86	B9U		C3 B4	
W4		23			"	F6U		C3 B4	
W4		26			"	"		" "	
W4		29			"	"		" "	
E0		13			4.89	B3U		C5 C1	
E0		35			4.28	B9U		C3 B4	



31

(CONT'D)

Date THURS, 1 JULY Observer M. L. Mac Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	MID - Starting Time E.S.T.	Ending Time E.S.T.	P.H.
387-33	HR 8279	21 ^H 37 ^M 61 ^D 56'				205u		2 30		
-34	HR 8494	22 13.7 56 52				"		2 39		
-35	HR 8585	22 29.9 50 06				"		2 46		
-36	HR 7796	20 20.9 40 08				"		2 55		
-37	HR 8622	22 37.7 38 52				"		3 07		
-38	HR 8634	22 39.7 +10 39				"		3 16		
-39	HR 7977	20 47.7 45 59				"		3 28		
-40	HR 7069	18 45.5 +18 08				"		3 37		

Dome Temp. _____
 Focus _____
 Dome Temp. _____
 MID - _____
 Hour Angle _____

Dome Temp. ... 57° F

Transparency Conditions

32

Focus

Dome Temp. 57° F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	NA narrow	HP wide	REMARKS	Quality
		MJD -									
		EO 48			4.87	B2	Ib	C4	B6		
		E1 15			4.23	F0	TU	C4	B4		
		E1 24			3.85	A2	I	C3	B3		
		W0 54			2.32	F8	Ib	B5	B1		
		E1 12			4.91	O9	U	C4	B5		
		E1 04			3.61	B8	U	C2	B2		
		W0 59			4.84	B3	Ia	C5	C1		
		W3 11			4.37	A3	U	C4	B5		

33

Date THURS-FRI 1-2 July 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.	P.I.	Hour Angle End
28465	π Sco	15 52.8	-25 50	G40	Iladk	13	68°F	21 ^h 43 ^m	21 ^h 49 ^m		0 ^h 15 ^m
28466	HD 145792	16 ^h 07.7	-24° 10'	G40	Iladk	13	69°F	22 ^h 16 ^m	23 ^h 00 ^m	B	1 ^h 11 ^m
28467	HD 172694	18 ^h 36.5	-15° 57'	G40	Iladk	13	66°F	23 ^h 30 ^m	01 ^h 58 ^m	A	1 ^h 41 ^m
28468	HD 187691	19 ^h 46.2	+10° 10'	G40	Iladk	13	61°F	02 ^h 24 ^m	02 ^h 40 ^m	B	1 ^h 14 ^m
28469	55 Cyg	20 ^h 45.5	+45° 45'	G40	Iladk	13	60°F	2 ^h 56 ^m	03 ^h 02 ^m	C	0 ^h 35 ^m
28470	55 Cyg	"	"	"	"	"	"	3 ^h 10 ^m	03 ^h 14 ^m	A	0 ^h 49 ^m
28471	5 Cyg	21 ^h 01.3	+43° 32'	G40	Iladk	"	"	3 ^h 24 ^m	3 ^h 26 ^m	B	0 ^h 46 ^m
28472	"	"	"	"	"	"	"	3 ^h 29 ^m	3 ^h 31 ^m	C	0 ^h 55 ^m

Dome Temp. —

Focus —

Dome Temp. —

Dome Temp. $70^{\circ}F$

Transparency Conditions *FAPR - Clear most of night* 34

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21-27	0 ^h 15 W	+26° 0'	0 ⁺	2.73	B- <u>U</u>	8-8-8	D.C. MORTON focus set 70 1/2 #4 { 2021 2022	comp weak history
23-00	1 ^h 11 W	-24° 17'	0 ⁺	7.0	B8	8-16	08-09 #7 { 2223 2225	up. fine guiding
01-59	1 ^h 41 W	-15° 53'	0 ⁺	8.31	B0 ₂ ^(H-V)	8-8-8	10-13 focus 70 #8 { 2226 2236	fine
02-00	1 ^h 14 W	10° 20'	0 ⁺	5.8	F-8	8-8-8	Std Vel focus 64 #6 { 2038 2041	history
03-02	0 ^h 38 W	+46° 00'	1	4.9	B3Ia	8-8-8	M.K. Std. focus 67 1/2 normal #5-1 { 2042 2043	fine
03-18	0 ^h 49 W	"	1	4.9	B3Ia	8-8-8	M.K. Std. " 1/4 normal #5-1/2 { 2044 2044 1/2	fine
04-20	0 ^h 46 W	+43° 45'	1	5.4	K5 Ib	8-8-8	M.K. Std. " 1/2 normal #5-1 { 2045 46	guiding
04-21	0 ^h 50 W	"	1	"	"	8-8-8	" 1/4 normal #5-1/2 { 2047 47 1/2	fine
dec guide sticks periodically (slow & fast)								

power supply from Hydro off early in evening due to storm
 last night; called Frank; Hydro fixed it. ✓
 showed; 35 Com, M13; 180 visitors; Dan, V, Sam.

35

Date Srt-Sun, July 3-4, 1960 Observer C. S. K. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28473	HD 166566	18 06.1	-15 42	C40	Thaob	.017	66	23 30 ²⁴ ₁₈	00 14	A
28474	HD 172694	18 36.5	-15 57	C40	Thaob	.017	66	00 22 ⁶⁰	00 58	B
28475	BD +10 3774	18 59.4	+10 58	C40	Thaob	.017	63	01 06 ¹⁰	03 06	C
28476	HD 204722	21 25.5	+43 54	C40	Thaob	.017	60	03 14	03 46	D
28476 T	Calibration Step Wedge			for plates 28465-76						

Dome Temp. 6
 Focus 69
 Dome Temp.

Hour Angle
 End
 00 36 W
 02 44 W
 03 11 W

storm

Dome Temp. 66°

Transparency Conditions Excellent

36

Focus 69

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 14	A	00 36 W	-15 41	0	8.13	B1 IIe	12-12-12	Cn Be Finder field check Focus 69 field check EXP MTR COUNTING VERY SLOWY. #9 2076 (20)	good
00 59	B	00 48 W	-15 53	0	8.31	B02 IIa	12-12-12	Cn Be #9 2087 2107	fine
03 06	C	02 04 W	+10 05	0	9.66	B1.5 IIIa	12-12-12	Cn Be first expn 10 ⁵ s field check EXP MTR WILL NOT STAY SPARKED. #9 2108 (2117)	fine
03 46	A	00 49 W	+44 11	0	7.64	B2 V Inel	12-12-12	Cn Be Down. #8 2118 2126 (10)	fine

→ Visitor's eyepiece illumination not working.

Visitors left ~ 23^h. Found that dec SM would not work & found that a fence had blown.

37

Date 4-5 July 1965 Observer Dr. H. J. ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Evolution	B	U	MIDDLE		P.I.
								Starting Time E.S.T.	Ending Time E.S.T.	
388-1	I Her	16 ^H 18.7 ^M 46 ^D 23 [']			B3	B1	B3	21 30	16 04	
-2	M3) #154	13 40.6 28 32								
-3	#206	" "	" "		C6	C6	D6	21 55	16 28	W2 49
-4	"	" "	" "		C6	C6	D6	22 16	16 48	3 09
-5	M3) #2	16 40.5 36 32			D4	D4	D6	22 59	17 23	W0 43
-6	"	" "	" "		D4	D4		23 09		53
-7	#1	" "	" "		D2	D3	D5	23 18	17 53	W1 14
-8	#56	" "	" "		D3	D3	D5	23 27	18 02	W1 23
-9	I Her	" "	" "		B3	B1	B3	23 42	18 16	W1 58
-10	M10 #b	16 55.2 -04 03			D4	D4	D6	00 03	18 37	W01 37
-11	M10-d	" "	" "		D6	D6		00 20	18 54	1 54
-12	M10 #3	" "	" "		D4	D4	D6	00 36	19 11	W2 17
-13	"	" "	" "		D5			1 03	19 37	W2 43
-14	" #2	" "	" "		D5	D5	D6	1 18	19 52	W2 58
-15	I Her	16 18.7 46 23			B3	B2	B3	1 42	20 16	W3 58
-16	M15 #1	21 28.3 +12 01			D5	D5	D6	1 04	20 38	

Dome Temp.

Focus

Dome Temp.

Hour Angle

Dome Temp. 69°F

Transparency Conditions very good

38

Focus

Dome Temp. 63°F

few clouds in south

ALL NITE

INTEGRATION TIME shy

Ending Time
LST

Hour Angle	Declination	Secs	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
EO 14 ^m		10	3.89		no		G
		40				790 Faint - 1/4 moon	
W2 49		40			✓		F
3 09		"			✓		G
W0 43		60			UR		F
53		60					D
W1 14		40					G
W1 23		40			✓		G
W1 58		10	3.89		no		G
W01 37		50			✓	moon set	G
1 54		80	14.82		✓	faintest star ever observed DDDO!!!	F
W2 17		70			LR		G
2h 43		70			✓		F
W2 58		70			✓		F
W3 58		10	3.89		no		G
		60			lower R		G

39

Date 5 July 1965
2400Observer Don - Hume Julian Day
Y B U MIDDLE

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Exposure	Size	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
388-17	M15 #1	21 ^H 28.3 ^M	+12 01		25	25	D6	2 ^H 16 ^M	2 ^H 58 ^M	
-18	" Star Down	11	"		26	26		2 34	21 09	

Dome Temp.

Focus

Dome Temp.

P.H.

Hour Angle

Dome Temp. 63°

Transparency Conditions very good - some clouds in far south over TB.

Focus

Dome Temp.

intermittent time

MID -

KE
Reading Time
20 55
21 09

Hour Angle	Declination	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
------------	-------------	-----------	-----	-------	---------	---------

68

✓ more counts necessary - 100(?)

E

70

02:45 - CLOUDS

41

Date 5-6 July 1955
Observer Mel. Ince Julian Day

MIDDLE

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
389 - 1	HR 5933	15 54.8	+15 47		t=20 sec			21 17		
- 2	HR 5854	15 42.6	+06 32		"			21 33		
- 3	HR 5447	14 33.1	29 54		"			21 49		
- 4	HR 5510	14 44.5	+02 02		"			22 01		
- 5	HR 5854	15 42.6	+06 32		"			22 14		
- 6	HR 6355	17 03.7	+12 47		"			22 25		
- 7	HR 5993	16 03.9	-20 35		"			22 41		
- 8	HR 5854	15 42.6	+06 32		"		56	22 54		
- 9	HR 6355	17 03.7	+12 47		"			23 07		
								23 11		
- 10	HR 6092	16 18.6	46 24		"			23 23		
- 11	HR 6588	17 38.4	46 02		"			23 33		
- 12	HR 6629	17 46.2	+02 43		"			23 45		
- 13	HR 6714	17 58.9	+02 56		"			23 55		
- 14	HR 5854	15 42.6	+06 32		"			00 09		
- 15	HR 6355	17 03.7	12 47		"			00 24		

Dome Temp.

Focus

Dome Temp.

M.T.D.

Hour Angle

P.H.

0 0

0 30

W1 55

W1 55

W1 10

0 0

W1 15

W1 50

W1 40

W0 46

W1 43

W0 33

W0 38

W0 35

W3 05

1 53

Dome Temp. 63.0 F

Transparency Conditions good

42

Focus

Dome Temp. 56.0 F

~ 1/4 moon

Dry ice put in at 07:00 EST

MID

Ending Time EST.	P.H.	Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0						(H3W) (H3W) (45) (42) (41) (38)	
		0						C3 B4 B5 B6 B6 C2 + obj	
		0	30					B6 B2 B4 B6 B6 C3	
		W1	55					C4 B5 B6 C2 C2 C3	
		W1	55					C3 B4 B5 B5 B5 B6	
		W1	10					B6 B2 B4 B6 B6 C3	
		0	0					C5 B6 C2 C3 C3 C3	
		W1	15					C4 B5 B6 C2 C2 C2	
		W1	50					B6 B2 B4 B6 B6 C3	
		W0	42					C5 B6 C2 C3 C3 C3	
		W0	46					"	
		W1	43					C3 B4 B5 B5 B5 B5	
		W0	32					C2 B3 B4 B5 B5 B4	
		W0	38					C3 B4 B5 B5 B5 B6	
		W0	35					C3 B4 B5 B6 B6 B6	
		W3	05	> 300				B6 B2 B4 B6 B6 C3	
		1	58					C5 B6 C2 C3 C3 C3	

43

(cont'd)

Date 6 July 65 - Jus Observer Hyd - Huse Julian Day M 10 -

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
389-16	HR 5854	15 42.6	+06 32		t=20 sec			0 37		
-17	"	"	"		"			0 44		
-18	"	"	"		"			0 53		
-19	"	"	"		"			1 01		
-20	HR 6355	17 03.7	+12 47					1 21		
-21	HR 7069	18 45.5	+18 08		"			1 33		
-22	HR 7446	19 34.7	-07 07		"			1 47		
-23	Pallas	20 51.1	17 26		t=100 sec		54°F	2 26 (END)		
-24	HR 6355	17 03.7	+12 47		t=20 sec			2 35		
-25	"	"	"		"			2 43		
-26	Juno	20 51.0	-02 57		t=100 sec					
-27	HR 8781	23 03.0	+15 01		t=20 sec			3 29		
-28	HR 7796	20 20.9	+0 08		"			3 46		

Dome Temp.

Focus

Dome Temp.

M 10 -

Hour Angle

Mag

W 3 33

W 3 42

W 3 50

W 3 57

W 2 56

W 1 28

W 0 52

W 0 15

W 4 12

W 4 19

E 0 53

W 0 46

Dome Temp. 57°F

Transparency Conditions very good

44 WHP?

Focus

Dome Temp.

NOTE: THE 6" FINDER WAS SEVERELY OUT OF FOCUS - IT IS NOW BACK IN PROPER FOCUS, ~~THE~~ ~~CROSSHAIRS~~ ~~WILL~~ ~~NOT~~ ~~BE~~ ~~LINED~~ ~~UP~~ ~~IN~~ ~~RA~~ ~~5~~

MID-

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		W 3 33						(H3N) (H3W) 43 42 41 38 B6 B2 B4 B6 B6 C3	
		W 3 42						"	
		W 3 50						"	
		W 3 57						"	
		W 2 56						C5 B6 C2 C3 C3 C3	
		W 1 28						C4 B5 B6 B6 B6 C2	
		N 0 52						C5 B6 C3 C3 C3 C2	
		W 0 15 (END)			29			D6, D3 1 shy	
		W 4 12						C5 B6 C2 C3 C3 C3	
		W 4 19						"	
								D6 D2 1 shy	
		E 0 53						B5 B1 B2 B2 B2 B2	
		W 0 46						B5 A6 B3 B4 B4 B4	

DEW ON DOME

45

Date *8-9 July 1955*Observer *hese - huf* Julian Day*Thurs - Fri*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28477	<i>B/D na</i>	<i>17</i>	<i>28.252</i>	<i>23 G140</i>	<i>Iladk</i>	<i>13</i>	<i>72°F</i>			<i>A</i>
<i>78</i>	"	"	"	"	"	"	"			<i>B</i>
										<i>C</i>
28477	<i>HR 7174</i> <i>HD 176318</i>	<i>15</i>	<i>54.638</i>	<i>07 G140</i>	"	<i>13</i>	<i>72°F</i>	<i>21 10</i>	<i>21 43</i>	<i>A</i>
28477F	<i>focus test</i>	<i>in in/out</i>	<i>out</i>	<i>G140</i>	"	"	<i>70°F</i>			
28477T	<i>Calibration</i>	<i>Step</i>	<i>Wedge</i>	<i>for plate</i>	<i>28477</i>					

Dome Temp.

Focus *7*

Dome Temp.

Hour Angle
East

E2 20

Dome Temp. 77°F

Focus 71

Dome Temp.

Transparency Conditions very poor

46

EXP. MTR. NOT FUNCTIONING

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A	52	20	0.4	3.8	G7	36	MK-stel ^{focus 71} (1/2 normal) #7 ⁽³⁾	
	B	"	"	"	"	"	"	(1/4 normal) #7 ^{1 1/2}	
143	A	E 2	2438	13	0	5.7	138	12-24 B8-139 clouds 313 ← G-10 filter	quasi fogged O.K.

Dome Temp. 60

Focus 68

Dome Temp.

Transparency Conditions Part, Clouds

48

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
16	A	00 40 W	+34 27	0	5.98	B3.25	12-12-12	On Be (Clouds) (Field Flatness not in proc) #7 2207	fine
36	B	01 00 W	" "	0	5.98	"	12-12-12	On Be #7 2211	fine
00	C	01 11 W		0	5.81	B3.50	12-12-12	On Be #7 2214	
36	C	01 36 W	+27 40	0	4.74	A5.5	12-24	Eq Width (Yip) #7 2217 out of focus 45 cloud heavier #7 2247	weak

← TERMINATED BY CLOUDS.

① NO MORE UNBAKED, UNSPOTTED DAD plates LEFT.

② VISITORS EYEPIECE ILLUMINATION STILL NOT WORKING

49

Date July 11-12, 1965 Observer V. B. / rise / mcd Julian Day MID
Sun-Mon

Plate No.	Object	R.A. 1900 1965	Declination 1900 1965	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle
390-1	HR 5270	14h00.8	+09° 52'		T=20			21 09			W 2 12
-2	HR 5511	14 44.5	+02 02		"			21 28			W 1 45
-3	5530	14 48.3	-15 51		"			21 37			W 1 50
-4	5531	14 48.5	-15 54		"			21 43			W 1 57
-5	5685	15 14.8	-09 16		"			21 52			W 1 39
-6	5854	15 42.6	+06 32		"			22 59			W 1 19
-7	5933	15 54.8	+15 47		"			22 08			W 1 15
-8	5681	15 14.1	33 26		"			22 17			W 2 04
-9	6092	16 18.6	46 24		"			22 26			W 1 09
-10	6588	17 38.4	46 02		"			22 34			E 0 02
-11	6355	17 03.7	42 47		"			22 44			E 0 42
-12	6629	17 46.2	+02 43		"						
-13	6714	17 58.9	+02 56		"			22 59			W 0 02
-14	7235	19 03.8	+13 49					23 08			E 0 53
-15	7069	18 45.5	+18 08		"			23 15			E 0 28
-16	7178	18 57.6	32 38		"			23 22			E 0 27

Dome Temp.

CO₂ in 20:30

Transparency Conditions

Fine, ci Lo in North (wind S.W. N)
Full moon

Focus

900V 7000!

Dome Temp.

2300 - clouds from NW.

(50)

Ending Time E.S.T.	P.H.	Hour Angle <u>Mid</u>	Declination	Seeing	M/V Mag.	Sp.	Comp.	HβN	HβW	REMARKS	Quality
		W 2	12		6.12	G0III		D3	C4		
		W 1	45		3.76	A0J		C3	B3		
		W 1	50		2.77	F2J		D1	C1		
		W 1	57		2.90	A3m		C1	B2		
		W 1	39		2.74	B8J		B5	B1		
		W 1	19		2.75	K2J		B6	B1		
		W 1	15		3.86	F6J		C2	B3		
		W 2	04		3.54	G8J		C2	B3		
		W 1	09		3.91	B5J		C2	B3		
		E 0	02		3.79	B3J		C2	B3		
		E 0	42		4.91	A3J		C5	B6		
					3.74	A0J		C3	B4		
		W 0	02		3.92	B5J		C3	B4		
		E 0	53		3.02	A0J		B6	B2		
		E 0	28		4.37	A3J		C4	B5		
		E 0	27		3.30	B9J		B6	B2		

Dome Temp. 63°F

Focus 67 1/2

Dome Temp.

Transparency Conditions poor - clouds
09:30 - fairly good

N.O. CROSSHAIR ILLUMINATION
(Visitors inspired)

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 29 A	W 01 33	+38°12'	0	5.7	B8	12-12-12	B8-B9: focus 67 1/2 #7 { 2253 2258	fine
00 45 B	W 0 04	+13 13	4	6.07	B8	12-12-12	" #7 { 2259 2262	fine
01 01 C	W 0 13	+10 20	0	5.8	F8	12-12	std 001 #2 { 2263 2264	guiding
02 11 A	W 0 22	44 18	?	9.31	B15 _{nne}	2-24 _n -Be	FIELD DRAWN (clouds) #9 { 2270 2279	guiding
B						3/3	Good filter	76.5. v. sl. / center to road

0130: thin cloud cover
0200 clouds

53

Date 12-13 July/65 Observer H. J. Rose Julian DayMon - Thurs

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
28486	λ Ser	15 41.6	+07 40	G 10	IIaB (unsaturated)	9XL		20 146 ¹¹	00 44	C	0406W
28486 F ₁	focus test in my notebook			G 10	IIaB	9				B	
28487	HD 187691	19 46.2	+10 10	G 40	IIaOb	13	64°F	01 11	01 18	A	0035V
28488	HD 204722	21 25.5	+43 54	"	"	"		01 24 ¹²	01 47	B	EO 35
28489	HD 204116	21 21.4	54 57	"	"	"	63°F	01 51 ²⁵	02 41	C	Wd 23
28490	BD +492348	21 32.7	49 02	"	"	13				A	
28490	HD 210809	22 07.9	51 56	"	"	13				A	
91	"	"	"	"	"	"				B	
										C	
28490	ϵ Cep	22 11.3	56 33	"	"	"	62°F	02 46 ²	02 50	A	0017E
91	"	"	"	"	"	"	"	02 52 ²⁰	02 54 ³⁵	B	003E
91 F ₁	focus test						62°F			A	
92	10 Lac.	22 34.8	+38 32					03 08 ³⁵	03 09 ⁴⁰	B	
93	"	"	"	"				03 11 ⁵⁰	03 12 ⁵⁰	C	0018E
28493 T	Calibration always										
28493 F ₁	focus test										
	July 14, 1965			G 40	IIaOb	13	64°F			A	S. 2/1

Dome Temp.

Focus 68

Dome Temp.

0130: FINE → 0200 haze of fog

Dome Temp. 72°F
 Focus 68 2/3
 Dome Temp.

Comp weak
 All plates except 28491
 are fogged.

Transparency Conditions

in Full moon
 thin clouds from
 ESE
 22 00 ~ / mag dimming

54

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0144	C	0406W	07 28	0 → 2	4.42	G0 V	12-12-12	Eq. width (0.1p)	#6 { 2285 2327.5 } weak guiding
	B						5/5	no filter	center to violet
0118	A	0035W	+10 20	2	5.8	F8	12-12-12	SID. VEL focus 68 2/3	#7 { 2328 2334 } fine
0147	B	E0 - 35 44	12	2	7.64	B2 V fine	12-12-12	CN - BE	#8 { 2335 2345 } guiding
0241	C	W0 23 55	13	1 → 0	7.34	B1 V	12-12-12	CN - BE	#8 { 2345 2355 } weak
	A				4.80	B2 V			#9 { 23 } fine
	A				7.5	09 V		MK std	1/2 norm.
	B				"	"		"	1/4 norm.
	C								
0253	A	0017E	+56 52	"	4.19	F0 V	36°	MK std	1/2 norm #6 { 2356 2359 } strong
0253	B	0013E	"	"	"	"	36°	"	1/4 norm #6 { 2360 2361.5 } fine
	A						3/3	no filter	O.K.
0309	B				4.88	09 V	36°		#7 { 1.50 } weak
0309	C	0018E	+38 53	"	"	"	36°		#7 { 0.75 } weak
	A	In-L / Out-Out					3/3	no filter	Focus 71 O.K.

40 plates are fogged by.

55

Date 14-15 July 1955 Observer Con. Ince - Ot Julian Day 183.5
Wed - Thurs

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
28494	S Sco	15 54.4	-22 20	G140	<u>Ilad</u>	13		20 40.5 ¹	42.5	B	00 03E
28495	π Sco	15 52.8	-25 50	"	"	13 XL		20 47 ^{52⁴}	20 59	C	00 16W
28494.F1	Faded Star	Do. In/Out	Out	G40	<u>Ilad</u>	13	76°			A	
28496	L Here	17 36.6	46 04	G110	^{1100 untested} <u>untested</u>	9XL	70°	21 11 ⁴³	22 37	C	00 07
28497	M Here	17 42.5	47 47	G110	"	"	70°	22 43 ⁵⁰	0 35	C	02 03
28497F ₁	focus test in in/out out	"	"	"	"	9	66°			C	
97F ₂	"	"	"	G140	<u>Ilad</u>	13	"			A	
98	HD 187691	19 46.2	+10 10	G140	<u>Ilad</u>	13	66°	01 01 ¹⁰	01 20	B	00 43
28499	HD 235668	21 53.1	51 06	G140	<u>Ilad</u>	17	"	01 33 ⁵⁷	02 47	C	00 05
28500	HD 210809	22 07.9	51 56	"	"	13	"	02 50 ¹³	03 16	A	00 20
28501	"	22 07.9	"	"	"	"	"	03 17 ⁸	03 32	B	00 36

Dome Temp.

Focus

Dome Temp.

~~12-11-56~~ 56

Dome Temp. 78°F 21^h Clouds up ~10 in NW.
 21 30 ~full moon rising thru cloud in SE
 Transparency Conditions Light Cirrus at start
 Focus
 Dome Temp. 63°F 2200: EXCELLENT

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
42.5	B	00 03 E	-26 30	0	2.21	B05	50 ^z	D.C. Monton → #5 { 2416 2419	fine
20 59	C	W0 16 W	-25 58	0	2.73	A10	50	" EXP METER WILL NOT BALANCE → #5 { 2420 2425	strong comp. weak
	A						5/5 210 filter FOCUS 73		completed fogged
2 37	C	W0 07	+46 03	0 → 2	3.74	B30	12-12-12	Eg. Winkler (zip) → #6 { 2435 2493	fine
0 35	C	W2 03	47 41	2 → 0	3.48	G510	12-12-12	" BAL A. #6 { 2493 2583	(beautiful) fine
	C						3/3 ← no filter		
	A						3/3 ← 610 filter focus set 6 1/2		O.K.
01 20	B	W0 43	+10 20	0	5.8	F8	12-12-12	Std Vel #7 { 2585 2594	fine
2 47	C	W0 05	51 24	0	8.46	B30	12-12-12	Cur - Be FIELD DRAW N #9 { 2595 2635	fine
3 16	A	W0 20	52 15	0	7.5	0916	12-12-12	M K Std (1/2 worm) #9 { 2636 2656	fine
3 32	B	W0 36	"	4	"	4	12-12-12	" (1/4 worm) #9 { 2656 2666	bwk
								<u>DAWN</u>	

57

Date

15-16 July 1955
Thurs - Fri

Observer

S.K. Gese (S.K.)

Julian 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.
391-3259	α A B	15 33.1	+26 50		5-4-2	28"/20"		20 ^h 44 ^m		
3260	ϵ Vir	13 0.5	+11 9		5-5-2	28"		21 ^h 31		
3261	161796	17 44.1	+50 5		6-6-2	20"		22 ^h 06		
3262	ξ Dra	17 52.9	+56 52		6-4-2	20"		22 ^h 32		
3263	θ Her	17 55.0	+37 15		5-6-2	20"		23 ^h 12		
3264	45 Dra	18 31.9	+57 1		5-6-2	20"		23 ^h 55		
3265	π Sgr	19 7.7	-21 5		5-5-2	28"		0 ^h 34		
3266	γ Aql	19 44.5	+10 31		5-5-2	28"		0 ^h 57		
3267	γ Cyg	20 20.9	+40 8		5-4-2	28"		1 ^h 27		

Dome Temp.

Focus

Dome Temp.

Hour Angle
End0^h53^mW4^h0^mW0^h14^mE0^h17^mW0^h25^mW0^h50^mW0^h50^mW0^h41^mW0^h25^mW

Dome Temp. 70 °F

Transparency Conditions VERY GOOD

58

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0 ^h 53 ^m W		good	2.23	F0V			
		4 ^h 0 ^m W		to v.g.	2.91	G9III			
		4 ^h 11 ^m E			7.5	F2Ia		0 Moon comes up + Sky	
		0 ^h 17 ^m W			3.9	K2II			
		0 ^h 55 ^m W		v. good	5.15	K1I	=====	flare observed, duration a few minutes, sky perfect, electronics also OK	
		0 ^h 50 ^m W			5.4	F7B	+ Sky		
		0 ^h 50 ^m W			3.3	F2II			
		0 ^h 41 ^m W			4.2	K3E		Clouds in NW appear	
		0 ^h 26 ^m W			2.9	F8Ib		Cirrus all over sky	
								0 2 0 0 - cum. from west just for spectrum.	

59

Date 18-19 July/65 Observer S.K. Rose-Hul Julian Day 241.5
Sun - Moon

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 Est
392-3268	α Cen B	15 ⁰ 33.1	+26 ⁰ 50		5-4-2			21 ^h 11 ^m			1 ^h 22 ^m W
-3269	δ Her	17 ⁰ 55.0	37 ⁰ 15		5-5-2			21 35			0 ^h 38 ^m E
2850 2	^{HR 6620} HD 161701	17 41.9	-14 42	G40	<u>11a0</u>	13	62°F	22 41 ²³	23 27	A	01 10 W
2850 3	HD 173219	18 39.1	-07 13	"	"	<u>17</u>		23 48 ⁵⁸	01 43	B	02 30 W
2850 4	HD 204116	21 21.4	54 57	G40	"	13		01 50 ⁰³	03 55	C	02 01 W
-B270	δ Ser	15 39.3	+6 44		5-5-2			22 ^h 05			2 ^h 22 ^m W
28504 T	Calibration Step Wedge for plates 2850 2-04										

Dome Temp. 66°F

Transparency Conditions *very transparent*

60

Focus

Dome Temp. 52

Ending Time P.M. EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	$1^{\text{h}}22^{\text{m}}\text{W}$		vibad	2.23	A0V		<i>not photometric!</i>		
	$0^{\text{h}}38^{\text{m}}\text{E}$	$37^{\circ}16'$		5.5	K1L				
2327	A 0110 W	-14	33	0-1	6.05	B9	B-18-18 B8-B9. focus 68	#8 { 2819 2834	fine
1 43	B 052 30	-07	28	11	8.02	B1V pne	18-18-18 C1-Bc # 28	#9 { 2836 2873	fine
3 55	C 0201 W	55	14	0	7.34	B1Ve	18-18-18 1 #35	#9 { 2874 2903	fine
	$2^{\text{h}}2^{\text{m}}\text{W}$			2.8	K2IV		<i>definitely non-photometric</i>		

61

Date 19-20 July 1965 Mon/Tue Observer Hb-Mse-DJ Julian Day [54]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle Est
28505	π Sco	15 52.8	-25 50	G40	DuOb	13xL	60°F	20 42 ²	20 46	A	00 22W
28506	δ Sco HR 6773	15 54.4	-22 20	G40	DuOb	13xL		20 52 ²	20 58	B	00 30
28507	HD 165814	18 02.7	-25 29	G40	π aOb	13		21 07 ³⁴	22 15	C	00 31E
28508 F	focus test in in/out			G40	π aOb	13				C	
28508	Walter 100 hr HR 6620	17 58.3	-24 24	G40	π aOb	SHORT 3.0		22 22 ³⁰	23 22	A	00 54E
28509	HD 161701 HR 7511	17 41.9	-14 42	G40	π aOb	13		23 39 ¹⁰	23 58	B	01 46
28510	HD 186547 HR 7174	19 40.0	+13 03	G40	π aOb	13	55°F	00 07 ²	00 22	C	00 13+
28511	HD 176318	18 54.6	38 07	G40	π aOb	13	54°F	00 26 ⁶	0 37	A	01 13
28512	15 Vul	19 59.0	+27 29	G10	π aOb unboxed unpotted	9xL	54/50°F	00 45 ⁹⁰	03 45	C	03 20
28512 T ₁	Calibration Sky Wedge for plates 28505-11										
28512 T ₂	" " " " 28512										
28512 T ₃	Test			G40	DuOb	30x5	54°			A	
74	Focus Test			G40	"	30	"			B	

Dome Temp. $68^{\circ}F$
 Focus $67/651$
 Dome Temp. $52^{\circ}F$

photometric, but no dry ice left.

Transparency Conditions good

62

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 46	A	00 22W	-25 59	0	2.73	BIV	40	D.C. Morton focus set: 67 #5 { 2918 2922	fine
3 57	B	00 30	-22 30	0	2.21	BIV	40	" " #5 { 2922 2926	lottery
2 15	C	00 34E	-25 28	0	6.7	B8	12-12-12 B8-B9	#8 { 2927 2937	fine
	C						5/5 (G10 filter)		OK
3 22	A	00 54E	-24 20	0	8.8	B2	12-12-8 SK faint BE [very short slab, no faint bar entire wide exp. int. 1/16" R]	2941 2951	completely fogged
3 58	B	01 46	-14 42	0	6.05	B9	12-12-12 B8-B9 (replaced def. fuse) FIELD DRAWN	#8 { 2951 2961	fine
0 22	C	00 13	+13 14	"	6.07	B8	12-12-12 B8-B9 focus set: 65	#8 { 2962 2973	fine
0 37	A	01 13	38 13	0	5.7	B8	12-12-12 B8-B9	#8 { 2973	fine
0 3 45	C	00 20	+27 39	0-2	4.7	ASm ML	12-12-12 eq. to idch (yip) [Exhibitor was carefully guided!]	#7 { 2974 3136	fine
							(DAWN)		
							#28572 broke during exposure.		
							0 300: quite a bit of lens flaring on the dome.		OK
	A						Focus 66		OK
	B						In-2/25-25		OK
							32 ^s		OK
							20/20		OK

63

Date 20-21 July 1955 Observer Car. Ince Julian Day 180
2 hrs 5 Wind

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
28513	π Sco	15 52.8	-25 50	G40	IlaoB	13L	63°	20 38 ²	20 42	A	WO 22
28514	δ Sco	15 54.4	-22 20	G40	IlaoB	13L		21 15 ²	21 18	B	WO 57
28515	Walker, α Cyg	58.3	-24 24	G40	IlaoB	30 ^{SHORT}	62°F	21 44 ³¹	22 46	C	WO 22
28516	BD +10° 3774	18 59.4	+10 58	G40	IlaoB	17	-58	22 52 ⁴⁵	00 22'	A	WO 57
28517	HD 193516	20 15.5	+37 28	G40	IlaoB	17	57	00 29 ²⁴	01 16	B	WO 35
28518	BD +43° 3913 HD 213303	21 21.3	44 01	G40	IlaoB	17	57°F	01 24 ²⁸	02 20	C	WO 37
28520	S Cep B	22 25.4	57 53	G40	IlaoB	13	56°F			B	
28519	BD +47° 3656	21 57.1	+47 42	G40	IlaoB	17		02 24 ²⁴	03 12	A	WO 48
28520	HD 212883	22 22.4	36 57	G40	IlaoB	13	56°F	03 25 ⁵	03 35	B	WO 47
28521	ν Peg	23 20.4	+22 51	G40	IlaoB	13	11	03 39 ⁷	03 43	C	EO 03
28522	ν Peg	23 20.4	+22 51	G40	IlaoB	13	11	03 44	03 45	A	0 00
28522T	Calibration Step Wedge					for plates		28513-22			

Dome Temp.

Focus 68.5

Dome Temp.

Dome Temp. 67.0/ =

Focus 68.5/68/66.5

Dome Temp.

Frank came & fixed handswitch.

left RA gear motion shorting intermittently. Transparency Conditions Excellent - but with occasional l. cloud & haze (all nite) (up to 21:30)

64

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0 42	H	WO	22-25	58	0	2.73	B1V	40. D.C. Martin (focus 68/2) #53203		
1 18	B	WO	57	?	0	2.21	B0V	40. D.C. Martin replaced die #53207	lousy	
2 46	C	WO	22	-24	20	00	8.8	B2V	10-10-10k faint Be [trouble chased] / H over fine	fine
0 22	A	WO	57	+11	05	0-1	9.66	B1.5V	12-12-12 Cu Be ft comp 10" 5 #9 3223	lweak
1 16	B	WO	35	37	40	0-1	9.46	B2III	12-12-12 Cu Be (focus 66.5) #9 3243	fine
2 20	C	WO	37	44	17	0-1	9.43	B1.5V	12-12-12 Cu-Be Field #9 {3270	fine
	B						6.3	B7II	IDF #7 {3311	
3 12	A	WO	48	48	01	1	9.23	B3.5V	12-12-12 Cu-Be #9 {3290	fine
3 35	B	WO	47	37	15	2	6.2	B2	40 B-type standard (Cu) #7 {3310	fine
3 43	C	WO	03	23	13	2	5.6	F8II	40 MK std. 3/4 norm #7 {3313	fine
3 45	A	WO	00			2	"	"	40 "FINDER" 1/3 norm #7 {3318	fine
									#7 {3320.5	lweak
									REQUIRED FOR Scep. (IDF)	

180 visitors, showed x H&A BCD x M13

Rc, Ck, Sm.

65

Date July 24/25, 65.

Observer R.C. - Dm

Julian 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.
392-1	α Lyr	18 ^h 57.6	22° 38'		B1/B2	A5	B3	00 ^h 03	19 ^h 56	
-2	+30 4065	19 ^h 31.8	+3° 40'		C2	B5	C2	00 ^h 27	20 ^h 21	
-3	M2-e	21 ^h -	-0° 58'		D4	D4	D6	01 ^h 05	20 ^h 57	
-4	M2-a	"	"		D4	D4	D6	01 ^h 25	21 ^h 28	
-5	10 Lac	22 ^h 37.6	+38° 52'		B2	A5	B2	01 ^h 56	21 ^h 49	
-6	ϵ Psc	22 ^h 05.3	+25° 09'		B3	B2	B5	02 ^h 10	22 ^h 03	
-7	M2-b				D4	D5	D6	2 ^h 28	22 ^h 22	
-8	M2-g				D5	D5	D6	2 ^h 52	22 ^h 45	
-9	ϵ Psc	23 ^h 38	+5° 25'		B4	B3	B6	03 ^h 14	23 ^h 08	
-10	θ And	00 ^h 15.2	+38° 29'		D4	B3	B6	3 ^h 27	23 ^h 21	
-11	ν And	00 ^h 47.8	+40° 53'		B3	B2	B4	3 ^h 36	23 ^h 30	

middle

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Sh...

Dome Temp. 6.7°

Transparency Conditions

66

Focus

Seeing v. good - stellar images $< 8''$ diam

Dome Temp.

Ending Time EST	P.H.	Hour Angle End	Declination	Time Seeing	Ptg. Mag.	Sp.	Sky Comp.	REMARKS	Diaph Quality
19:50				10				Amphroge a.	G
20:21				30			✓	Reflections do not repeat well	G
20:57				50					G
21:28				60					G
21:49				30					G
22:13				10					G
22:22				100				seeing getting poorer	G
22:45				50					G
23:08				10					G
23:21				10					
23:39				10					
* DEC SLOW MOTION (photometer) BUTTON STICKS									

The salt in photometer's bag is red!
Shall we put bag on when photometer full of dry ice?

67

Date July 25/26 1965 Observer SH Sd ^{Mse} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
394-3971	α Cr B	15 ^h 33.1	+26° 50'		5-4-2	28"		20 ^h 56		
28523	HR 6773 HD 165814	18 02.7	-25 29	G40	IIaDb	13	72 [°] = 21	36 ³⁰	22 36	A
24	HR 6620 HD 161701	17 41.9	-14 42	G40	IIaDb	13		22 43 ¹⁶	23 15	B
25	HR 7511 HD 186547	19 40.0	+13° 03'	G40	IIaOb	13		23 28 ¹⁷	00 01	A
26	HR 7174 HD 176318	18 54.6	+38 07	"	"	"		0 20 ⁴⁶	0 28	C
27	HD 193516	20 15.5	37 28	"	"	17		0 39 ⁴¹	2 10	B
28	HD 211835	22 14.9	+45 18	"	"	"	62 [°] F	2 15 ⁴¹	3 36	C
28528T	Calibration Slip Wedge for plates 28523-28									

Dome Temp. 74°

Transparency Conditions *widely scattered clouds* 68

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			2.23	A0V		Clouds	
						focus set: $71 \frac{1}{2}$	
22 36 A	W1 11 -25 28	⊙	6.7	B8	12-12-12	B8-139	#7 { not able to balance fine
23 15 B	W1 27 -14 41	⊙	6.05	B9	12-12-12	"	#7 { 3454 ④ fine
00 01 C	W0 20 +13 14	⊙	6.07	B.8	12-12-	"	#7 { 3456 ④ fine
0 28 C	W1 29 +38 14	1	5.7	B8	36	"	#7 { 3460 ③ fine
2 10 B	W1 49 37 40	1	9.46	B2 ^{ve}	12-12-12	12 ^{ve} - B2	#9 { ① 3464 ② 3484 fine
3 36 C	W1 17 +45 39	⊙	8.49	B3 ^{ve}	12-12-12	" focus set 67	#9 { 3484 ③ 3504 fine

~~FRANK THE RED WARNING LIGHT FOR EXP. MTR IS BURNT OUT OR LOOSE~~

69

Date 26-27 July 1955 Observer L. Inse Julian DayMyon & Trios

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
28529	B Dna	17 28.2	52 -23 61 40	"	II aob	13	68°	20 33	20 36	A	EO 53
30	"	"	"	"	"	"		20 37	20 40	B	EO 50
31	α Oph	17 30.3	+12 38	"	"	"				C	EO 37
32	"	"	"	"	"	"		20 57	20 58	"	
31	HD 186547	19 40.7	+13 03	"	"	"		21 16		A	
32											
28530	Calibration Step Wedge for plates 28529-30										

Dome Temp.

Focus 70

Dome Temp.

Dome Temp. $73\frac{1}{2}^{\circ}$ F

Focus $70/$

Dome Temp.

Transparency Conditions ... *considerable clouds* ⁷⁰

Ending Time E.S.T.	P.P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 36	A	EO 53		1	23.8	G2 II	40	M.K. STD. ($\frac{1}{2}$ norm) (from 70) #5 { 3640 3642	fine
3 40	B	EO 50		"	"	"	40	" ($\frac{1}{4}$ norm) #5 { 3642 3643	dark
	C	EO 37	12 35					" too hard to do ($\frac{1}{2}$ norm) #5 { 3640 3643	
20 58	A							" $\frac{1}{4}$ norm (1x norm) #5 { 3640 3643	
			113 14		627	88		138-139 clouds #7 { 36	

71

Date 27-28 July/65 Observer L. V. Lyse Julian Day 200
Fans & Wind

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
28531	ϵ Her	16 16.7	46 33	6140	Triod	13	69°F	20:36:30	20 39.00	A	W 25
28532	α Oph	17 30.3	+12 38	"	"	"	"	20 45	20 46	B	E 043
33	"	"	"	"	"	"	"		20 49	C	E 040
34	^{HR 6620} HD 161701	17 41.9	-14 42	"	"	"	"	20 55	21 09	A	E 033
35	HD 145001	16 03.6	+17 19	"	"	"	68°F	21 14	21 34	B	W 130
36											
36	HD 171780	18 31.6	34 22	"	"	"	66°F	23 06	23 13	C	00 45W
36	Blank plate		52					17		A	
37	HD 174237	18 44.5	+52 53	"	"	"	"	23 22	23 30	A	00 41W
38	^{HR 2174} HD 176318	18 54.6	38 07	"	"	"	"	23 36	23 45	B	W 1 53
39	^{HR 7511} HD 186547	19 40.0	+13 03	"	"	"	63°F	23 47	24 00	C	W 0 22
40	BD +43° 3913	21 21.3	44 01	"	"	17	62°F	0 09	02 25	A	W 0 26
41	HD 211835	22 14.9	+45 18	"	"	"	56°F	02 32	03 26	B	W 1 19
28542	HD 217811	22 58.2	43 31	"	"	13	54°F	03 32	03 49	C	W 0 58
28543	ω^2 Aqr	23 37.5	-15 06	"	"	"	54°F	03 15	03 58	A	0 23W

Dome Temp.

Focus 70

Dome Temp.

Dome Temp. 72⁰F
 Focus 70 1/2 / 69 1/2 / 68 1/2 /
 Dome Temp.

Transparency Conditions scattered clouds 72
 2:00: clouds in N & S; W clear
 01:30 Northern lights.

generally a high thin fog

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 39 00 A	W 25	46° 24'	0	3.89	B35 ^{II}	40	focus 70 1/2 MK. STD. (1/4 norm) #5 { 3697 3693 1/2	lweak.
0 46 00 S	E 0 43	+12 36	0	2.24	A5 ^{III}	40	" (1/2 norm) #5 {	distroy
0 49 00 C	E 0 40	"	0	"	"	"	" (1/4 norm) #5 {	fine
21 09 00 A	E 0 33	-14 42	0-	6.05	B9	40	B8-B9 #7 { 3696 3699	fine
1 34 00 B	W 1 30	+17 10	0	6.1	G4	12-24	std. vel clouds overhead #7 { 3799 3701.5	lweak.
							<u>clouds</u>	
3 15 00 C	00 45W	+34 27	0-	5.48	B3e	12-24	focus 69 1/2 #7 { 3707 3710	fine
						12-	#7 { 3711	
3 30 00 A	00 49W	+52 57	0-	5.81	B3e	12-24	focus 69 1/2 #7 { 3712 3715	fine
3 45 00 B	W 0 53	+38 13	0-	5.7	B8	12-24	B8-B9 #7 { 3716 3719	fine
4 00 00 C	W 0 22	+13 13	0-	6.07	B8	12-12-12	B8-B9 focus 68 1/2 #7 { 3719 3722	fine
2 25 00 A	W 01 06	+44 18	0-1	9.43	B15 ^{II} pane	12-12-12	focus 66 #9 { 3727 3747	fine
3 26 00 B	W 1 19	+45 38	1	8.49	B3:IIe	12-12-12	focus 66 #9 { 3747 3767	fine
3 49 00 S	W 0 58	+3 52	0+	6.1	B3	12-24	B type std. vel. focus 65 #7 { 3768 3771	fine
3 58 00 A	0 23W	-14 45	0	4.62	B9:5 ^{II}	40	focus 65 #5 { 3775 3776	fine

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Date 28-29 July 1965 Observer Hyde - Pe - Yp Julian Day 238.5
Wed - Thurs

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
28545	$\theta 10,4500116$	03.6	+17 19	G40	Iladk	13	62°F	20 26	20 36	C	20 38
28546	μ Her	17 42.5	+27 47	G40	Iladk	13	62°F	20 ^h 40	20 ^h 42	A	20 54
28547	"	"	"	"	"	"	"	20 ^h 44	20 ^h 46	B	20 57
28548	$\theta 9$ Her	17 ^h 51.4	+26° 04'	"	"	"	62°F	20 ^h 57	20 ^h 55	A	20 50
28548T	Calibration Step Wedge for plates 28545 - 48										

Dome Temp. 6.6°K

Transparency Conditions clouds

76

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 36	C	00 38	+17° 09'	0	6.1	G14	12-12-12	std. Vel. focus @ 7 1/2	#7 { 3788 3794 } fine
00 42	A	00 54	+27° 45'	0	4.14	G3 12'	40	MK. std. (1/2 norm)	#7 { 3794 3797 } fine
00 46	B	00 57	"	0	"	"	40	" (1/4 norm)	#7 { 3777 3795 1/2 } lwb
00 55	A	00 50	+26° 03'	0	5.47	12-2	40	" (1/4 norm)	#7 { 3799 3800 1/2 } lwb

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Date 29-30 July 1965 Observer shk / H. D. Rice / H. D. Rice Julian DayThurs - Fri

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
28548A	c Her	17 36.6	H6 04	G10	unspotted "aO	9XL	64°F	20 19 ⁴⁰	21 38	C	W0 19
28549	110 Her	18 41.4	+20 27	G10	unspotted "aO	9XL	60°F	21 50 ¹²³	01 56	B	0325W
28550	2 Lyr	(1960)	(1960)					02 29	02 30	C	0438W
28551	2 Lyr	18 35.6	777 26	G10	unspotted "aO	9				B	
		18 53.6	+38 45								
28551	2 Peg	19 50	+38 45	G10	unspotted "aO	9XL		02 47 ¹⁷	03 21	B	E0 27
28552	"	00 10.7	+14 38	"	"	A	53°F	03 22 ¹⁴	03 49	C	E0 10
28552T	Calibration Step Wedge				for plates	#28548-49, 51-52					

Dome Temp. 66°F

Focus

Dome Temp. 54°F

Transparency Conditions good (clouds around horizon) 78
2200 - getting thick in SW.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1 38 C		W 0 12 46	02	1	3.79	B35	12-12-12	Eq. Width (4ip) [PLATE BROKEN IN EXP]	#6 { 4001 4061	fine
01 56 B		03 25 W	+20 31	0	4.26	F6	12-12-12	" " "	#6 { 4062 4152	flexure
02 00 C		04 08 W	+38 46	0-1	0.04	A0	36	std. Del.	#4 { 4161 4176	guiding
								ONLY 1 BAKED PLATE		
03 11 B		E 0 27	+14 58	0-1	2.9	B2.5	12-12-12	Eq Width (4ip)	#6 { 4177 4237	focus bad in center
3 49 C		E 0 10	" "	"	"	"	12-12-12	" "	#6 { 4238 4298	fine

FRANK:
Fixed 1/2 H.
THE GROUND WIRE ON THE
SLOW MOTION HAND BOX
HAS COME LOOSE.

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Date 30-31 July/65 Fri/Sat Observer Hb - Dt Julian 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
28553	110 Herc	18 41.4	+20 27	G10	unsettled IIaD	9xL	66°F	20 29 ¹⁵⁶	01 01	B	02 35W
28554	HD 198183 MWC 352	20 43.5	+36 07	G10	IIaOb	9.	59°F	01 13 ³⁵	02 22	C	01 53W
28555	γ Peg	00 8.1	+14 38	G10	unsettled IIaD	9xL	58°F	02 38 ²³	03 02	B	00 51E
28556	φ Per	01 37.4	+50 11	G10	IIaOb	9L		03 19	04 04	C	01 19E
28556T	Calibration step wedge for plates 28553 - 55										

Dome Temp. 66°F

Focus

Dome Temp. 58°F

Transparency Conditions ^{Ci} fine, Ac in west; 80
2215 overcast (Ac) when partially clearing (2240)
0000 THIN-CLOUD COVERING MOST OF SKY.
0200 scattered Ci; good

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 01	B	02 35W	+20° 31'	0-1+	4.26	F6V	12-12-12	Eg. Width Proj (Yip) ^{seeing good at beginning} # 6 { 4302 4384	l weak
02 22	C	01 53W	+36° 23'	0-1	4.5	B6c	12-10-12	Spec. Star for G10 FIELD DRAWN # 6 { 30 { 4385 4415	fine
03 02	B	00 51E	+15° 00'	1+	2.9	B2.5IV	12-12-12	Eg. Width Proj (Yip) # 6 { 60 { 4416 4476	fine
04 04	C	01 19E	+50° 30'	0-1	3.95	B0p	12-12-12	Spec. Star for G10 # 4 { 20 { 4477 4492	guiding

The baked and unbaked plates are separated in the "exposed plates" box: unbaked on left (head of arrow) baked on right (tail of arrow)

Dome Temp. 6.5°

Focus

Dome Temp.

who changed to G10 and bent the ¹⁸²
Transparency Conditions
Focus Shutter ????? LONGWORTH A/V

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
01 09	A	2 04W	18 14	0	6.9	B _{9.5} e	12-12-12	Be Prog	#7 {4496 4502	fine
01 55	B	0 45W	42 33	0	7.1	B ₅ e	12-12-	" "	#7 {4503 4505	fine
								Clouds star gone at 1.55		

83

Date 3-4 Aug 1955
Tues - Wed

Observer

H se / H se
Sy / H se

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
28558 F,	focus test			G10	IIaOb	9	64°F				C
28559	5 Boo	14 32.3	+30 11	G10	IIaOb	9	64°F	20 21 ⁴³	22 27		C
28560	HD 173219	18 39.1	-7 13	G40	IIaOb	13	60°F	22 47 ³⁷	00 00	A	W 1 50
28560 T	Calibration step wedge										

Dome Temp.

Focus 6.3

Dome Temp.

Dome Temp. 69°F

Focus 67

Dome Temp.

Transparency Conditions widely scattered clouds 84

Ending Time E.S.T.	PJ	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	C						3/3	no fillets -D-19 (4 min)	st ctouj
22 27	C	N 4 ^H 27	+29 55	1	4.48	F2V	12-12-12	no clouds. Baked plate. #5 { 4653 Eg. Width regular length { 4687.8	fine
00 00	A	N 1 50	-7 07	0	8.02	B.IV.	8, 8, 8	cm 13e. Field (drawn) does not agree with # 28503 Clouds # 9 { 4688 4700	lweak
								clouds at 23:30; waited but became completely overcast	

NEW EXP. MTR INSTALLED.

85

Date 4-5 Aug/65

Observer ^{+H²} ~~Car. Shk~~ ^{Wise} Julian Day

Wed. Thurs

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
28561	HD 161701	17 41.9	-14 42	G40	Daob	13	64°	20 42	21 02		00 26
61	HR 6620	"	"	"	"	"	"	21 04	21 20	B	00 20
28562	BD +10° 3774	18 59.4	+10 58	G40	Daob	17	63°	21 24	23 00	C	00 34
28563	BD +23° 3761	19 41.2	+24 04	G40	Daob	17	60° F	23 13	00 43	A	00 35
Checked telescope for moisture because <u>very</u> heavy dew. OK.											
28564	HD 204116	21 21.4	54 57	G40	Daob	17	58°	00 51	01 15	Z	00 27
28565	BD +47° 3656	21 57.1	+47 42	G40	Daob	17		01 21	02 13	C	00 50
28565 T	Calibration Slip Wedge for plates 28561-65										
<u>Dir Hand</u>	4 AM	New Exposure Meter seems to work fairly well. Most problems solved during night. All we need now is practice!!									
		J. H. ...									

Dome Temp.
Focus 69
Dome Temp.

Dome Temp. 68°F

Focus 69/67

Dome Temp.

foggy
Transparency Conditions HAZY OTHERWISE PERFECT
VERY DARK HORIZON!

86

02^h Fog moving in VISIBILITY = 40'

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 07	14 42	0	6.05	B9	12-12-12	B8-B9	capping device not attached	
01 20	W0 20	"	"	"	"	"	"	guiding
03 00	W0 34	+11 06	1	9.66	85.0	12-18	Cr Be	weak
05 43	^{CHECK} W01 35	+24 16	0-1	9.49	Bo II:e	12-12-12	" "	weak
01 15	^{CHECK} W00 27	+55 14	1	7.34	Br U:e	12-12-12	Cr Be Focus 67 field chubs.	fine
02 13	W00 50	+48 00	1	9.23	83.0	12-12-12	Cr Be 02:10 fog getting thick in dome	guiding
							↑ CLOSED UP FAST!	

Hb - showed visitors moon
(~60)

87

Date 5-6 Aug / 65

Observer

Hd
Hb
Hb, Sey, Rise

Julian Day

Thurs, Fri

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 Ecl
28566	HR 6620 HD 161701	17 41.9	-14 42	G40	IIaOb	13	69°F	21 08	21 24	A	W 25
28568	HR 7174 HD 176318	18 54.6	38 07	G40	IIaOb	13		22 10	22 18	A	W 02 W 0 01 E
28567	HR 7511 HD 186547	19 40.04	13 03	G40	IIaOb	13		21 35	22 01 21 46	C	0 01 E C 01 E
28568 ⁹	HD 184467	19 29.5	58 24	G40	IIaOb	13		22 25	23 02	B	W 12
28569 ¹⁰	HD 193516	20 15.5	37 28	G40	IIaOb	17	63°F	23 12	01 12	C	01 35 W
28570 ¹¹	HD 204722	21 25.5	+43 54'	G40	IIaOb	13	60°F	01 37	02 22	B	01 35 W
28571	HD			G40	"	"					
28570 ¹¹	focus test in input out				G40	IIaOb	13			A	
28570	sideral time in error by about 4 min										

Dome Temp. _____
Focus _____
Dome Temp. _____
Hour Angle Ecl _____
W 25
W 02 W
0 01 E
C 01 E
W 12
01 35 W
M F
R. EXP
WAS
AT SENS
PLATE
MEAN

good as last night 88

Dome Temp. 70°F
 Focus
 Dome Temp.

Transparency Conditions

new exp. meter will not quite balance out the dark current. at sens. 80 on the first star the ratio dark current / dark current + * = $\frac{25}{90}$.

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 24	A	W 20 ^m	-14° 42'	0	6.05	B9	40	B8-B9 (16)	sens 80 / 7 counts = $7 \times \frac{25}{90} = 5$ counts apparent dev. weak
22 18	A	00 02W	+38 13	⊙	5.7	B8	40	" (10)	now almost exactly balanced in balance sens 200 / 2 counts fine
22 01	C	01 20E 01 20E	+13 14	⊙	6.07	B8	12-12-12	" (16) (naked "57")	sens 200 / 12 counts dev. weak
23 02B		W 12	58 30	0-1	7.5	K5	12-12-12	S + d. vel.	sens 200 / 30 counts fine
01 12C		01 35W	+37 39'	0	9.46	B2-Vine	12-20-12	Cn Be Proc. 2Hrs	sens 1000 / 36 counts fine
CHECKING TELESCOPE FOR MOISTURE									
2 22 B		01 35W	+44° 12'	0	7.64	B2-Vine	12-20-12	Cn Be Proc.	sens 400 / 32 counts good
MOISTURE FROM TELESCOPE (COPPER END)									
10 filters									
FOR #28569 - impossible to balance out dark current at sens 1000 & obtain an intelligent counting rate - possibly due to high humidity??									
Note to Joan: #28566 developed - a little strong (Wise) weak (HB)									
<div style="border: 1px solid black; padding: 5px;"> <p>RE EXP MTR: BALANCE 3/3 WAS CHANGEABLE EVEN AT SENS. 400 - COUNTS FOR PLATE 28569 WILL BE MEANINGLESS</p> </div>									

RA unclamp switch shorted

DC volts at 90 - called L.

91 Date Tues Aug 10-11/65 Observer Hd. DL/HK Julian Day 145

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	
28572	HR 6620 HD 161701	17 41.9	-14 42	G40	IIaOb	13	62°F	20.35 ¹⁰	20 54 ¹⁵	A	W 0 08	
28573	HR 6773 HD 165814	18 02.7	-25 24	G40	IIaOb	13		21 01 ¹⁵	21 30	B	W 0 23	
28574	HD 170235	18 23.2	-25 19	G40	IIaOb	13	59	21 39 ¹⁵	22 05	C	W 0 38	
28575	HD 173219	18 39.1	-7 13	G40	IIaOb	17		22 20 ²⁵	23 10	A	W 1 27	
28576	HD 187691	19 46.2	+10 10	G40	IIaOb	13	58°F	23 15 ⁸	23 38	B	W 0 45	
28577	HR 7511 HD 186547	19 40.0	+13 03	G40	IIaOb	13		23 35 ⁷	23 48	C	W 1 05	
28578	HD 198931	20 48.6	+4 03	G40	IIaOb	17	57°F	23 56 ⁵¹	01 38	A	01 17 W	
28579	HD 235668	21 53.1	51 06	"	"	"		01 56 ²⁵	02 45	B	W 1 40	
28580	HD 213224	22 24.8	+57 55	G40	IIaOb	13	54	02 51 ⁶	03 03	C	W 1 35	
28581	HD 9812	01 30.8	58 08	G40	IIaOb	13	54°F	03 10 ¹¹	03 32	A	E 1 03	
28582	HD 8779	01 21.4	-00 55	G40	IIaOb	13	54°F	03 38 ²⁰	04 18	B	E 0 06	
28582T	Calibration Step Wedge for plates							28572-82				

Dome Temp. 62
 Focus 68 1/2 / 67 / 65
 Dome Temp.

0100 Thm Cloud

Full moon

Transparency Conditions good; extremely poor seeing

92

WERSAID 5

Comparisons little weak - 72 3/4

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
054	A	00 08		0	6.05	B9	12-24	B8-B9 bin. focus 68 1/2 10 counts Road lanes sens 200.	fine
30	B	00 23	-25 27	0	6.7	B8	12-12-12	B8-B9 bin. sens 200/12	weak
22 05	C	00 38	-25 16	"	6.71	B15 III-V	12-12-12	Cu-Bc sens 200/12	weak
23 10	A	01 27	-07 08	0	8.02	B15 III-V	12-12-12	Cu-Be reset focus 67./sens 400/24	weak
23 31	B	00 45	+10 20	0	5.8	F8	18-18	Std. Del. sens 200/24	fine
23 44	C	01 05	+13 14	0	6.07	B8	12-12-12	B8-B9 200/12 capping drilled frame apart: plate likely jagged - compo fine	fine
01 33	A	01 47	+44 19	0	9.31	B15 III-V	12-12-12	Cu-Bc #33 1000/60	guiding
2 45	B	01 50	51 24	0-1	8.46	B2e III-V	12-12-12	CN-Be #38 G 1000/60	fine
03 03	C	01 35	58 13	0	8.4	A0	18-18	std. del. pos 513 L4 focus 65 200/12	guiding
03 32	A	01 03	58 26	0	7.4	B5U	12-12-12	B type Std. Del. 400/24	fine
04 18	B	01 06	-0 35	0	7.5	K0	12-12-12	Std. Del. 400/f8 DAWN	weak

6 PM EST Dome opened

18:00

93

Date 11-12 April/65
Wed & Thurs

(incl)
Observer S. J. Rose / H. 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.	Hour Angle End	
	incl testing filter in spectrophotometer to							20:30				
28583	HD 172644	18 36.5	-15 57	G40	IIaOb	1.7	66°F	20 48	21 40	A	W 0 03	
28584	B30 +10° 3774	18 59.4	+10° 58'	G40	IIaOb	1.7		21 51	23 45	B	W 1 47	
28585	HD 204116	21 21.4	54 57	G40	IIaOb	1.3		23 56	00 47	C	W 0 27	
28586	HD 217811	22 58.2	43 31	G40	IIaOb	1.3	60°F	00 57	01 15	A	E 0 42	
28587	(HD 213307) X 5 Cep <u>CB</u>	22 25.4	57 53	G40	IIaOb	1.3		01 21	01 33	B	W 0 06	
28588	HD 211835	22 14.9	45 18	G40	IIaOb	1.7	59°F	01 38	02 20	C	W 1 04	
28589	HD 220116	23 16.1	57 43	G40	IIaOb	1.7	58°F	02 24	03 37	A	01 23	
28590	HD 16219 ^{HR 760}	02 31.1	39 27	G40	IIaOb	1.3	57°F	03 42	03 54	B	E 1 36	
28591	14 Ari	02 03.7	+25 28	G40	IIaOb	1.3		03 57	04 04	C	00 48	
28592	"	"	"	"	"	"		04 07	04 10	A	00 54	
28592 F	Focus Test			"	"	"	57°F			B		
28592 T	Calibration Sky Wedge for plates											

Dome Temp.
Focus 6.9
Dome Temp.

Dome Temp. 70°F
 Focus 69/67
 Dome Temp.

Transparency Conditions good - some cir. 94
some cir.
2015 - broken Ci covering most of sky.
(1-2 mag. absorption)

Ending Time E.S.T.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 03		-15	52	0-1	8.31	B00	12-12-12	Cu-Be focus 69 400/24	girding
01 47		+11	05	1-0	9.66	B15	12-12-12	Cu Be binary "5" 800/48	fine
00 47	C	27	+55	14	0	7.34	B15	15-15-15 Cu-Be 400/24	fine
01 45	A	42	+43	53	0-1	6.1	B33	15-15-15 B stars stel. vel. (focus 67) 200/12	fine the fogged spectra
01 33	B	08	58	12	0-1	6.3	B7	15-15-15 1 D F 200/12	fine
02 20	C	04	45	37	0-1	8.49	B3	15-15-15 Cu-Be 800/48	fine
03 37	A	23	58	04	0-1	9.28	B05	15-15-15 Cu-Be focus 66 1000/60	l-wake
03 54	B	36	39	44	0	6.35	B8	15-15-15 BB-B9 (d+e) 200/12	fine
04 04	C	48	+25	48	0	5.0	F2	45 M.A. 5 tel. (1x norm) 200/24	fine
04 10	A	54	+25	48	0	"	45	" (1/2 norm) 200/12	fine
	B							4-4 G10 filter	OK

generally a bit weak ↑

180 visitors - showed at Her AB, M13 Ck, Sm. Difficulty with
 (97) Date Aug 14/15 1965 Observer SD RT Julian Day R.A. Clancy

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How high Ecl
28593	HR 7174 HD 176318	18 54.6	+38 07	G40	11a06	13	74°	23 11 ⁸	23 26	A	45W
28594	δ Cap B	22 25.4	+57 53	G40	11a06	13		23 44 ⁸	24 00	B	22E
28595	HD 235668	21 53.1	+51 06	G40	11a06	17 [✓]	73°	0 ⁴⁷ 34 ⁸	2 08	C	29W
28596	HD 212883	22 22.4	+36 57	G40	11a06	13 [✓]	70	2 23 ¹⁰	2 39	A	10W
28597	HD 217811	22 58.2	+45 31	G40	11a06	13		2 50 ³⁰	3 10	B	28W
28598	HD 220116	23 16.1	+57 43	G40	11a06	17 [✓]	69	3 29 ³⁰	4 29	C	22W
28598 T	Calibration Step Wedge								for plates 28593-98		

Dome Temp. 78°
 Focus 72/71/70
 Dome Temp. 72

Transparency Conditions scattered clouds
moon 3 days past full
haze on horizon
clouds at 1:20

central knob on exp. meter box
 on telescope inadvertently
 turned.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:26	A	1° 45 W	+58 14	0	5.7	B8	12-12-12 B8-B9	exp. meter cannot be balanced.	fine
4:00	B	1° 22 E	+58 12	0	6.3	B7 IV	12-15-15 JDF	can you get a 62v spectrum from moon + cloud?	fine
2:08	C	1° 29 W	+51 24	1	8.46	B2c VII-V	12-12-12 Cn Be	exp nearly bal 200/11	l. weak
2:39	A	1 10 W	+37 17	0	6.2	B2 V	12-12-12 B standard Velocity	free of clouds	l. weak
3:10	B	1 28 W	+43 53	0	6.1	B3 V	12-12-12	exp nearly bal 200/11	fine
4:09	C	2 26 W	+58 10 ↑	0	9.28	B0.5 V	12-12-12 Cn Be	may be the wrong star	too weak

DAWN

THE VISITOR'S EXP ~~ECT~~ ^{check slit} (17)
 HAS BEEN MOVED ^{exposed plates in bag}

99

Date 12/16 Aug/65 Observer ^{SK} (H.B.) ^{SK} MS Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst. ^{SK}	Emulsion ^{SK}	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
326-3273	α Lyr ^{H.C.}	18 ^h 35.7	+38° 45'		4-4-2	28"		20 ^h 19		
3274	β Lyr ^{H.C.}	19 15.2	+38 4		6-4-2	28"		21 ^h 03		
3275	ϵ Sgr ^{H.C.}	18 29.8	-19 9		7-5-3	20"		21 ^h 30		
3276	FF Aql	18 56.7	+17 19		6-5-3	20"		22 ^h 03		
3277	β Sct	18 45.3	-4 42		6-5-3	28"		22 ^h 31		
3278	γ Dra	18 30.9	+57. 1		6-5-2	28"		23 ^h 01		
3279	31 Cyg	20 12.5	+46 37		5-6-2	28"		23 ^h 26		
3280	32 Cyg	20 14.4	+47 36		6-5-2	28"		0 ^h 00		
3281	γ Cyg	20 20.9	+40 8		5-5-2	28"		0 ^h 26 ^m		
3282	41 Cyg	20 27.9	+30 15		5-6-2	28"		0 ^h 52 ^m		
3283	ζ Cyg	21 11.2	+30 3		5-5-2	28"		1 ^h 15 ^m		
3284	ζ Cep	22 9.6	+58 01		5-6-2	28"		1 ^h 40 ^m		
3285	δ Cep	22 27.8	+58 14		5-6-2	28"		2 ^h 03 ^m		
3286	θ Cas	23 52.5	+57 19		6-5-2	28"		2 ^h 40 ^m		
3287	γ And	0 8.5	+45 53		6-5-2	28"		3 ^h 09 ^m		
3288	β And	1 17.8	+35 26		5-5-2	28"		3 ^h 43 ^m		

Dome Temp.

Focus

Dome Temp.

Hour Angle End

0^h 37^m E

0^h 43^m E

0^h 38^m W

0^h 33^m W

0^h 54^m W

1^h 58^m W

0^h 45^m W

1^h 16^m W

1^h 36^m W

1^h 55^m W

1^h 38^m W

1^h 1^m W

1^h 6^m W

0^h 7^m W

0^h 32^m W

0^h 6^m W

Dome Temp. ... 93°F

Transparency Conditions ... Very good

100

Focus

a few clouds at horizon dissolving

Dome Temp.

circus 202230
again 2000

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 37 ^m E		poor	0.0	A0V			
0 ^h 43 ^m E			4.3	K0V			
0 ^h 32 ^m W			7.0	G0Ib var	+ Sky	Moon rising	
0 ^h 36 ^m W			5.8	F7Ib var	+ Sky		
0 ^h 44 ^m W			4.5	G5V			
1 ^h 58 ^m W			4.9	F7Ib		clouds appear in south	
0 ^h 45 ^m W			4.0	K3Ib			
1 ^h 16 ^m W			4.2	K5Ib		completely clear again	
1 ^h 36 ^m W			2.3	F8Ib			
1 ^h 54 ^m W			4.1	F5II			
1 ^h 38 ^m W			3.4	G8V			
1 ^h 1 ^m W			4.9	K1Ib		clouds forming in south	
1 ^h 6 ^m W			4.3	F8Ib var +	Sky		
0 ^h 17 ^m W			5.5	F8Ib +	Sky	completely clear ^{again} Moon present	
0 ^h 32 ^m W			5.4	F0V			
0 ^h 6 ^m W			3.8	M0III			

101

Date 16 August 65 Observer Mso-SK Julian 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.
396-3289	{ And	2 ^h 1.8	+42° 10'		5-5-2	28"		4 ^h 06 ^m		
396-3290	α Ari	2 5.2	+23 17		5-5.9	28"		4 ^h 33 ^m	4 43	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

02^m E

103

Date 17-18 Aug 1965 Observer L H6 ^{msec - msec} (26) Shk Julian 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 Est
28599	α Lyr	(1960) 18 35.6	(1960) 38 45	G140	Iladob	10	74°K	21 00	21 01	D	E 0 01
28600	"	18 33.5	+38 " 41	"	"	11	"	21 02	21 03	B	W 0 01
28601	"	"	"	G10	"	9	"	21 25	21 38	C	W 0 30
28602	HR 7241 HD 177863	19 01.3	18 54	G40	Iladob	13					
28602	HD 212883	22 22.4	+36 57	G40	Iladob	13	70°K	0 02	00 22	B	00 35E
28603	HD 217811	22 58.2	+43 31	"	"	"	68	01 09	01 32	C	00 18E
28604	^{HR 15861} HD 219719	23 13.2	+44 57	"	"	"	"	01 38	02 01	A	00 02M
28605	^{HR 491} HD 10425	01 36.6	+60 03	G40	Iladob	13	"	02 09	02 38	B	0 38E
28606	^{HR 760} HD 16219	02 31.1	+39 27	G40	Iladob	13	"	02 40	03 20	C	01 17E
28607	HD 9812	01 30.8	+58 08	G40	Iladob	13					
28607	^{HR 1149} HD 23324	3 39.2	+24 32	G40	Iladob	13	"	03 25	03 50	A	02 15
28608	^{HR 1146} HD 23363	03 39.5	-01 29	G40	Iladob	13	"	03 56	04 16	B	1 53
28608F	focus test in input out			G40	Iladob		65°F			C	

Dome Temp. 79°F

0300: fog

Transparency Conditions cloudy

104

Focus

Dome Temp. 67°F

EXP MTR DOES NOT FUNCTION AT SETTINGS 1X180 (prior to 1/2)

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 01	D	E 0 01			0.05	A 0 50		Tube - focus 72 1/2	strong
01 03	B	W 0 th 01	+38 46				50	"	strong
01 07	C	W 0 th 30					30	Std. Vel.	strong
								EXP MTR SHUTTER CLOSED 2230 (700 v.)	
								B8-B9	
								B8 slow down motor not working	
00 22	B	00 35E 37	16	0	6.2	B2V	15-15-15	B Std. Vel. (focus 71) 200 / 15	fine
								G110 capping device has come apart.	
01 02	C	00 01E 43	53	0	6.1	B3V	15-15-15	B Std. Vel. CLOUDS 200 / 15	fine
02 01	A	00 13W 45	20	0	6.3	B9 _p	15-15-15	B8-B9 200 / 15	fine
02 38		01 33E 60	22	0	5.73	B9	15-15-	B8-B9 (d.e.) 200 / (12)	strong
01 20	C	01 17E 39	44	0	6.35	B8	15-15-15	B8-B9 Exp. meter well balanced but not firing properly 200 /	fine
								74 B3V	
								B Std. Vel.	
03 50	A	E 2 25 24	43	0	5.58	B8	15-15-15	B8-B9 (d.e.)	strong
04 16	B	E 15 3 -1	15	0	5.04	B8	15-15-	B8-B9 (d.e.)	fine
								5/5 and filter	

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(2)
msl. msl
Dt Shk

Date 19 Aug 1955
Thurs - Fri

Observer mcl. mcl Julian 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.
397-1	HR 6629	17 46.2	+02 43						20 27	
-2	HR 7009	18 45.5	+18 08						20 47	
-3	HR 7178	18 57.6	+32 38						21 06	
	HR 7									
-4	HR 7235	19 03.8	+13 49						21 40	
-5	HR 7377	19 23.7	+3 02						22 01	
-6	HR 7235	19 03.8	+13 49						22 26	
-7	HR 7525	19 44.6	+10 31						22 55	
-8	HR 7377	19 23.7	+03 02						23 17	

MADGE

Dome Temp.
Focus
Dome Temp.
M-10
Elev Angle
17
W 10
E 13
K 16
W 11
W 13
W 58
note
=

COULD WE PLEASE HAVE A LONG 106

Transparency Conditions

PENCIL FOR THE DOME?

Dome Temp.

Focus

Dome Temp.

Hour Angle	Declination	Seeing	Vis Mag.	Sp.	Comp.	REMARKS	Quality
MID							
W 0 17			3.74	A0V		+ SKY	
FO 23			4.37	A3V		C4, B5, B6, B6, C2, C3 + SKY	
E 16			3.30	B9III		C2, B2, B3, B4, B4, B4 + SKY COULD NOT FIND NGC 6482.	
W 11			3.02	A0V		B1, B2, B3, B4, B4, B4 + SKY ^{N W FS 42}	
W 13			3.44	F0II		C2, B3, B5, B5, B5, B6, C2 + SKY	
W 0 58			3.02	A0V		B6 B2 B3 B4 B4 B4 B6 B6 + SKY	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> REPAIRS TO FOCUS MECHANISM. </div>							
<p>note to Gerry: the chain linking the motor for focussing was off - this was replaced, but it is still very loose & should be fixed or this will happen again (I suspect this came off last set.)</p>							
W 0 55			2.80	A3V		C2 B3 B5 C3 C3 C5 C6	
W 0 28			3.46	F0V		C2 B3 B5 B5 B5 B6 C2	

107

Date

Observer *W. L. Morse*

Julian Day

shk

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
397-9	<i>Palmer</i>	20 18.8	+12 57						2 3 45	
-10	NGC 7332	22 35.7	+3 37						0 34	
397 -11	HR 7235	19 03.8	+13 49						1:07	
397 -12	HR 7525	19 44.6	+10 13						1:22	
397 -12	HR 7525	19 44.6	10 33						1:39	
-13	HR 7235								1 51	
-14	HR 7525								2:08	
-15	HR 8969	23 32.1	+05 27						2:18	
-16	HR 8969	23 32.1	+05 27						2 50	
-17	HR 9088	00 00.8	+26 55						3 05	
18	HR 27	0 08.5	+45 53						3 21	
19	HR 63	00 55.3	+38 30						3 40	
20	HR 8969	23 32.1	+05 27						4 03	
21	"	"	"						4 25	

M/D

Dome Temp.

Focus

Dome Temp.

M/D

Hour Angle

W1 02

E2 25

W3 40

-3 53

W3 38

V4.0

V109

W048

W00 41

W02 49

W1 00

W2 00

W2 24

Dome Temp.

Transparency Conditions *good (no seeing)*

Focus

Dome Temp.

Ending Time
E.S.T.

PH	Hour Angle Brd	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:45	N 1 02						11.8 G3 / 45 / 42 / 41 / 32 / 35 D6 D3	
3:50	E 0 25			11.8	G3		D6 D5 D6 D6	
1:07	W 3 40			3.02	B2 I		B6 B2 B3 B4 B4 B4 B6	
1:22	W 3 53			"	"		" " " " " "	
1:39	W 3 30			2.80	K3 I		C2 B3 B5 C3 C3 C5 C6	
1:51							B6 B2 B3 B4 B4 B4 B6	
2:09	W 4 00						C2, B3, B5, C3 C3 C5 C6	
2:18	W 4 09						" " " " " " 45/1	
2:50	W 0 48			4.28	F7 I		C4, B5, B6, ^{B6} C2, C3, C3	
3:05	W 0 41			5.85	G2 I		C4, C3, C5, C6, C5, C6, C6	
3:11	W 0 49			5.1	F2 I		C4 B5 B6 B6 B6, C2, C3	
3:40	W 1 00						↓ ↓ ↓ ↓ ↓ ↓ ↓	
4:13	W 2 00			4.28	F7 I		C4, B5, B6, B6, C2, C3, C3	
4:25	W 2 24			"	"		" " " " " "	

109

(SR)

Rc Lv
Sd Sy

Date Aug 20/21

Observer

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
28609	HD 212883	22 22.4	+36 57	G 40	11a01b	13	62	0:01 ²¹	0:42 ²⁸	A	001E ³
28610	HD 219749	23 13.2	+44 57	G 40	11a01b	13	60	0:59 ³¹	1:54	B	018E ⁵
28611	HD 9812	01 30.8	+5 8°08'	G 40	11a01b	13	58°	2:28	3:30	C	024W ¹

Dome Temp.

Focus 6.8/

Dome Temp.

Hour Angle
End

Please

can

in

MK

1/2

under

Dome Temp. 62°

Focus 68/66

Dome Temp. 58

Transparency Conditions *curis* → cloud 1/10
very poor seeing

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
042	A	0 01 E	+37 16	0	6.2	B2V	12-12-12	<i>B-type star Vel</i> <i>seeing very poor</i> <i>Difficult to guess whether double star</i>	<i>fine</i>
154	B	0 18 E	+45 17	0	6.30	B9	p12-12-12	<i>B8-B9 H6</i>	<i>fine</i>
050	C	0 24 W	+58 27	0	7.4	B5V	12-12	<i>star Vel</i>	<i>guiding</i>

Please fix exposure meter
can not calibrate it
i can not take any
on H star which require
1/2 & 1/4 x normal
under adverse conditions
Sol

NOTE: Exposure meter
stuck from 1/2 second &
completely stopped by 8
even for bright stars
Trouble with *(West)* dome button
(turning dome west)

111

Date 22/23 Aug 1955 Observer SHK Msc Julian Day.....

Shank

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28612	HR 6620 HD 161701	17 41.4	-14 42	G140	3006	13	64°	20:20 ⁸	20:36	A
28612F	focus test in in/out				"	"	"			C
28612T	Calibration step wedge				for plates 28609-12					

Dome Temp. -
Focus 711
Dome Temp.

Hour Angle
Ecl

W 37

Dome Temp. 70°F

Focus 71

Dome Temp.

Transparency Conditions *heavy cum. in west at start* 112

NO EXP. MTR.

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20.36	A	$W 0^h 37^m$	$-14^{\circ} 46'$	0	6.05	B9	6 (G10 filter) 38-39	(focus 71) 1/2 hr exp clouds weak	
	C						3/3 (G10 filter)		continued

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Date 23-24 Aug/65 Observer Mse - SK Julian Day 241.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28613	α Lyr	18 ^h 35.7	+38° 45'		Triad/10			20 50		A
398-3291	"	"	"		4-4-2	28"		20 59		
-3292	κ Sgr	18 29.8	-19 9		7-5-3	20"		21 24		
-3293	γ Aql	19 24.7	+0 15		6-5-2	20"		22 13		
-3294	185622	19 37.9	+16 30		7-5-3	20"		22 43	22 51	
-3295	187299	19 46.9	+24 54		7-5-3	20"		23 18		
-3296	η Aql	19 50.7	+0 55		6-4-2	20"		23 50		
-3297	β Cyg	20 17.3	+34 52		6-5-2	20"		0 08		
-3298	200465+cp	21 0.7	+39 20		6-6-3	20"		0 30		
-3299	209693	22 3.1	+32 46		6-6-3	20"		1 30		
-3300	δ Lac	22 28.1	+47 31		6-5-3	20"		2 00		
-3301	δ Cep + cp	22 27.8	+58 14		6-5-3/2	20"/28"		2 28		
-3302	VR8726 + cp	22 54.9	+49 33		6-5-3	20"		3 12		
-3303	218634	23 7.8	+8 29		6-6-3	20"		3 54		
-3304	α Per	3 21.9	+49 44		4-6-2	28"		4 29		

Dome Temp. _____
Focus _____
Dome Temp. _____

Hour Angle _____
W 06"
0 29"
1 16"
0 50"
1 10"
1 33"
2 14"
2 47"
1 35"
1 28"
1 35"
2 17"
2 19"
2 47"
0 51"E

Dome Temp. 70°F

Transparency Conditions *very good.*

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Focus

Dome Temp.

Ending Time E.S.T.	P.R.	Hour Angle Time	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		W 006 ^m			0.03	A0V		H ube (focus 70" (9.00 V) 40/3.2	fine
		0 ^h 29 ^m W				"			
		1 ^h 6 ^m W			7.5	F16var	+ Sky		
		0 ^h 50 ^m W			4.9	F2Ib	+ Sky		
2251		1 ^h 10 ^m W			8.4	K5Iab	+ Sky	} Zero -- varies somewhat	
		1 ^h 33 ^m W			8.7	K5Iab	+ Sky		
		W 1 ^h 57		good	4.5	G0Ib			
		W 1 ^h 47			5.9	F2Ib	+ Sky		
		1 ^h 30 ^m W			7.9	K2I	+ Sky		
		1 ^h 28 ^m W			7.5	G5Ia	+ Sky		
		1 ^h 35 ^m W			7.0	K7Ib			
		2 ^h 7 ^m W			4.5	var G2var			
		2 ^h 19 ^m W			6.8	K5Ib	+ Sky		
		2 ^h 47 ^m W			6.6	K6I	+ Sky		
		0 ^h 57 ^m E			2.3	F5B			

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Date 24-25 August 1965 Observer SK Julian Day 1965
Tues - Wed. SK
MSE
RC
SLT

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	How Angle End
399-3305	α Lyr	18 33.6 18 35.7(1960)	+38° 41' 38° 45'		4-4-2	28"		20:26			
28614	"	"	"	6740	200b	7	68°	20 55		A	W
28615	"	"	"	"	"	"		20 58		B	W ^H 20
28616	HD 171391	18 29.5	-11 03	"	"	13		21 10	21 30	C	W ^H 52
28616T	Calibration Step Wedge for plates 28613-16										

Dome Temp.

Focus 70/

Dome Temp.

Dome Temp. 70°

Transparency Conditions

Focus 70/

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				0.03	A0 I		Zero somewhat unstable; clouds in N	
A W						50	H. albe (focus 70)	40/9.2 fine
B W 0 ^H 20						"	"	40/3.2 fine
21 20 C W 0 ^H 52			0	5.2	g67	15-30	std. vel. clouds	200/74/19 l. weak
							closed up 22:15	

Saturday, Aug 28/65 Hb, Dm, Sd ~160 microns - showed Albireo through the 74" telescope and Ranger VII film.

119

Date 29-30 Sept 1965 Observer Sd - M5 Julian Day 1152 - 1153
Lam - M5 on

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
28617	HD 169820	18 21.4	+14 55	6140	EaDb	73	54°F	19 48 ⁸	20 04	A	E0 06
28618	HD 155911	17 08.2	52 32	"	"	"	"	20 11 ¹⁰	20 30	B	W1 34
28619	HD 184467	19 29.5	58 24	"	"	"	53°F	20 36 ³⁵	21 46	C	W0 26
28620	HD 174237	18 44.5	52 33	"	"	"	50°F	21 5 ⁶	22 04	A	W1 33
28621	HD 213307	22 25.4	57 53	640	"	"	50°F	22 27 ⁸	22 42	B	E1 31
28622	HD 212593	22 20.4	+48 58	640	"	"	48°F	22 52 ³	22 57	C	E1 10
28623	HD 212593	22 20.4	+48 58	"	"	"	"	23 00 ³	23 05	A	E1 03
28624	BD +47° 3656	21 57.1	+47 42	"	"	17	48°F	23 25 ⁷⁴	01 53	C	W2 09
28625	HD 216629	22 49.4	61 36	"	"	"	44°F	02 14 ⁷⁴	04 41	A	W3 54
28625T	Calibration Sky Wedge for plates 28617-25										

Dome Temp.

Focus 6.5"

Dome Temp.

Hour Angle

E0 06

W1 34

W0 26

W1 33

E1 31

E1 10

E1 03

W2 09

W3 54

Dome Temp. 58°F

Transparency Conditions *clear* W & SW

Focus 65-63 1/2

Dome Temp. 42°F !!

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 04	A	E0 06	+14 58	0	6.43	B9	15-15-15	B8-B9 (dye) (focus 65) #200/15	fine
00 30	B	W1 34	52 27	0	6.11	B9	15-15-15	B8-B9 (dye) #200/15	fine
01 46	C	W0 26	58 31	0	7.5	K5	15-15-15	Std. Vel. #400/60	fine
02 04	A	W1 33	52 56	0	5.81	B3e	15-15-15	W - Be focus 0 3 1/2 #200/15	plate slightly fogged
02 42	B	E1 31	58 13	0	6.3	B7II	15-15-15	DF 200/15	grainy
02 57	C	E1 10	+49 17	0	4.6	CB8	15-15-15	B8 B9 100/18	fine
03 05	A	E1 03	+49 17	0	4.6	CB8	15-15-15	B8 B9 100/18	fine
04 53	C	W2 08	+48 00	0	9.23	B3e	15-15-15	W - Be 800/60	fine
04 41	A	W3 54	61 56	0	7.5 8.03	B3e B0 V	15-15-15	W - Be VERY FAINT! focus 61 #200/60 FIELD DRAWN	1 weak

WED - 7:30 - DOME WAS UNLOCKED

54
Amb
in sec
incl

121 Date: 1-2 APR 1965 Observer: md Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	MID Starting Time E.S.T.	Ending Time E.S.T.	P.I.
401 - 1	HR 8143	21 16.0	+39 15		t = 20 sec			22 43		
- 2	HR 8115	21 11.5	30 05		"			23 03		
- 3	NGC 6482	17 50.4	+23 05		t = 100 sec					
- 4	NGC 7626	23 19.0	+08 01		t = 200 sec			00 40		
- 5	NGC 7619	23 18.6	08 00		"					
- 6	HR 8143	21 16.0	+39 15		t = 70 sec					
- 7	HR 8115	21 11.5	30 05		"					
- 8	NGC 7742	23 42.6	+10 34'		t = 200 sec					

Dome Temp.
Focus ...
Dome Temp.
to ID
Hour angle
End
10 06
10 19
10 10

Dome Temp. 60°K

Transparency Conditions Some cum^{at first} then very good 122

Focus

Dome Temp.

m1D

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						(M32) (M30) 45 42 41 38 35	
I 0 06			4.28	B9 ^{red}		C3 B4 B6 B6 B6 B6 C2 + sky	
W 0 19			3.4	G8 ^{II}		C2 B3 B5 C2 C2 C3 C3 + sky	
			12.2	G0		D6 D6 D4 D6 D6 D6 D6 + sky	
E 0 10			12.7	G5		D6 D5 D6 D6 D6 D6 D6 "	
			12.4	G5		D6 D5 D6 D6 D6 D6 D6 "	
			4.28	B9 ^{red}		C3 B4 B6 B6 B6 B6 C2 "	
			3.4	G8 ^{II}		C2 B3 B5 C2 C2 C3 C3 "	
			12.2	G0		D6	

123

Date 2-3 Sept/65 Observer Dom - Dom Julian Day 183.5Thurs - Fri(06)
m seHr
m se

MIDDLE

Plate No.	Object	R.A. 1900	Declination 1900	Inst	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T. L.S.T.	P.H.
402-1	HR 6775	18 05.6	30 34	B5	B5	C3		20 ^H 08 ^m	18 ^H 38 ^m	
-2	M 13 #1	16 40.5	36 32	D3	D3	D5		20 32	19 03	
-3	+3° 4065	19 31.8	+03 40	C2	C1	C2	64°F	21 06	19 36	
-4	HR 6775	18 05.6	30 34	B5	B5	C3		21 19	19 50	
-5	HR 6869	18 19.4	-02 54	B2	B2	C2		21 30	20 01	
-6	HR 7061	18 44.1	+20 31	B3	B3	C2		21 38	20 09	
-7	M 2 - e	21 31.6	-00 58	D4	D4	D6		21 57	20 23	
-8	M 2 - b	"	"	D3	D4	D6	62°F	22 23	20 54	
-9	HR 6775	18 05.6	30 34	B5	B5	C3		22 47	21 18	
-10	HR 7602	19 53.5	+06 18	B3	B3	B6		22 59	21 29	
-11	HR 7906	20 37.9	+15 47	B2	B2	D4		23 05	21 35	
-12	HR 7924	20 40.1	45 09	A2	A2	A4		23 13	21 43	
-13	M 2 - a	21 31.6	-0 58	D4	D4	D6		23 26	21 52	
-14	M 2 - h	"	"	D4	D5	D6		23 59	22 30	
-15	HR 6775	18 05.6	30 34	B5	B5	C4		00 19	22 50	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

20:20 - SOME CIRR IN S. 95W.

Dome Temp. $68^{\circ}F$

Transparency Conditions *good*

124

Focus

Channel 1. only.

Dome Temp.

Channel 2 = A2

T

DLE
 Ending Time
 EST
 LST
 8 38
 1 03
 19 36
 19 50
 20 01
 20 09
 20 23
 20 54
 21 18
 21 29
 21 35
 21 43
 21 52
 22 30
 22 50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Sky Comp.	REMARKS
		10 S	5.04	F7V	✓	
		50 S			✓	cirr over Hercules & in S.W. & N.W.
		30 S	6.82	-	✓	
		10 S	5.04	F75	✓	
		10 S	3.26	K0715	✓	
		"	4.20	F60	—	
		60			✓	
		120			✓	
		10	5.04	F7V	✓	
		"	3.71	9810	—	INTEGRATOR CONDENSER OCCASIONALLY DISCHARGES BEFORE PRINTING
		"	3.77	B9V	—	
		"	1.26	A21a	—	
		70				
		100°				
		10	5.04	F7V		

Graph.
Quality

G.

"

G

G

Dome Temp.

Focus

Dome Temp.

Transparency Conditions 3:15 - a lot of fog 126
not photometric anymore.

Hour Angle End	Declination	T Seeing	Ptg. Mag.	Sp.	SKY Comp.	REMARKS	DIA. Quality
2300		10	1.26	A ₂ Ia			G
2307		10	2.45	Ko III			G
2335		80 ^s			✓		G
2357		110 ^s					M
0018		110 ^s					M
0035		10	1.26	A ₂ Ia			G
0057		"					
0110		30			24R	fairly heavy fog measured reflection only	G
0139		4					
0153		10	5.04	06f			
0201		11	4.88	09E			

Dome Temp. 66°F

Focus

Dome Temp.

Transparency Conditions Poor. Ci over most of sky 128
 2000 several mag. absorbers - deterioration
 2130 almost clear.

Ending Time E.S.T.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 11	A	00 10E	-23° 30'	0	5.73	B9	15-15-15	B8-B9 Prog. Xinter w/ counter 100/8	twink.
20 23	B	0	+32° 41'	0	3.20	B9 II	22-22	} MK Standard	strong
20 2	C	00 04W	"	"	3.20	"	45'		"
21 08	A	00 45W	+38° 15'	0+	5.7	B8	15-15-15	B8-B9 (drc) binary clouds	fine.
21 15	B	00 06E	45 04	0	2.82	B9.5 III	45'	MK Standard 1/4 NORMAL	strong
21 30	C	00 00	32 08	0	5.7	B1.5 Ia	15-15-15	MK Standard 1/2 NORMAL [DELAY prepared increase] comparison very weak/weak.	guiding
21 43	A	00 21E	15 48	0	3.77	B9 V	45'	" " 1/2 normal	fine.
21 48	B	00 26E	"	0	"	"	45'	" " 1/4 normal	fine.
the "exposed plate" box also reversed probably									
		2 ^h 14 ^m W			0.03	A0 V	cirrus at South. horizon, heavy		
		0 ^h 44 ^m W			6.2	K2 Ib + sky			
		0 ^h 50 ^m W			5.3	K5 Ib			
		0 ^h 31 ^m W			7.7	G8 Ib + sky	clouds		
				5 Var G var Ib					
				6.3 G0 Ia + sky		2 ⁰⁰ : definitely solid cloud layer			

Saturday Sept. 11/65 (H6), Rc, Ck showed Albireo (β Cyg) to about 56 people
 on the first tour and ~60 people (Deaf group) on the second.

131

Date Tues. Sept 21/22 '65 Observer L - Ds - Rc
 - max Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
28636	HD 198931	20 48.6	44 03	G 40	IIa0B	17	76°	21 06 ⁶⁵	23 16	A
28637	HD 4382	00 ^h 41 ^m 1	+74° 18'	G 40	IIa0B	12	72°	01 09 ¹²	01 33	B
28638	HD 4382	"	"	"	"	"	"	02 ^h 11 ^m 5 ^s	2 21	C
28639	HD 10390	01 ^h 36.3	+34° 44'	"	"	"	70°	3 ^h 16 ^m 4 ^s	3 24	A
28639.T	Calibration Slip Wedge for plates 28636-39									

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

2 11 W

0 33 W

1 42 W

1 36 W

people
in the second.

0100
poor

132

Dome Temp.

Transparency Conditions

Focus

UNABLE TO BALANCE

Dome Temp.

EX. MTR.

Ending Time EST.	P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 16	A	2 11 W	44 18	1	9.31	B ₁ V ₁ m	15-15-15	Cn Be - Clouds at end of exp.	fine
01 33	B	0 33 W	74 39	0	5.4	B9	15-30	B8-B9 mag focus 72	fine
								0134 - star gone - i.e. clouded in again	
2 21	C	1 42 W	74 39	0	"	"	15-30	B8-B9 mag	guiding
								more cloud	
3 21	A	1 36 W	35 04	0	5.4	B9	15-15	B8-B9 mag more blasted cloud - completely covered sky again	fine

Saturday Sept. 18 Sm, (R), 90 Showed universe to two groups.

133

Date Wed Sept 22/23 Observer H. d. - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 25°C	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
28639	F ₁ focus test in in part out			G140	IIaD6	13	77			A
28640	HR 7174 HD 176318	18 54.6	38 07	G140	IIaD6	13	"	18 54	19 02	B
28641	B Oph	17 38.5	+4 37	"	"	13	"	19 11	19 13	C
28642	"	"	"	"	"	"	"	19 14	19 15	A
28643	θ Her	17 52.8	37 16	G140	IIaD6	13	"	19 21 ⁵	19 31	B
28644	"	"	"	"	"	"	"	19 32 ³	19 37	C
28644T	Calibration Step Wedge				for plates 28640		-44			A

Dome Temp.

Focus 23 1/2"

Dome Temp.

Hour Angle
End

W 1 20

W 1 22

W 1 24

W 1 30

groups

Dome Temp. $84^{\circ}F$

Focus $73\frac{1}{2}$

Dome Temp.

Transparency Conditions

134

UNABLE TO BALANCE
EXP. MTR.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A							$5/5$ - G ¹⁰ filter focus $73\frac{1}{2}$	slightly blurred in center.
19 02	B	E 5 ^m	38 14	1	5.7	B8	15-15-15 B8-B9/Bin.	X meter not balanceable	down to
19 13	C	W 1 20		1	3.93	K2 III	G ¹⁰ filter 5" in K2 III	circus	fine
19 15	A	N 1 25	+4 37	1			5"	"	down to
19 31	B	W 1 24	37 16		25.0	K1 II	5"	"	strong guiding
19 37	C	W 1 30	"		"	"	"	"	fine

Joan: ~ 5 plates on the right side
in unexp. plate box #1 (in
refrig.) are too short for the
plateholders.

135

Date Thurs Sept 23/24 65 Observer Re-Mcl-HF Julian 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
28645	BD+43°39'13"								middle		middle
403w-①	HR 39	00 11.4	+15 00				$T = 20^s$		0 ^h 32 ^m		0 ^h 15 ^m
" ②	"										
③	HR 9088	00 00.3	+26 55				20 ^s		01 14		01 03 ^m
4	NGC 185	0^h 37.0	+48 09'								
4	M31	0 ^h 40.9	+41 05				$T = 20^s$		02 12		02 25 ^m
5	NGC 278	0 ^h 50.1	+47°23'				$T = 60^s$		03 02		02 36 ^m
6	HR 39	00 11.4	+15 00				$T = 20^s$		03 52		03 35 ^m
7	NGC 821	2 ^h 06.5	+10°51'				$T = 60^s$		04 25		02 13 ^m
8	HR 9088								05 04		04 57 ^m

Dome Temp.71°.....

Transparency Conditions

1.36

Focus

Dome Temp.

Ending Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

middle

middle

well that as far as I got - it just
clouded in

01 32

0^h 15 W

A6, A2, A9, A9, A9, A3, A3

01 18

01 08 W

C-3, B-4, B6, C2, C2, C2, C3,

02 12

01 25 W

D9, C5, D3, D4, D4, D5, D6

03 02

02 06 W

03 52

03 35 W

04 25

02 13 W

05 04

04 57 W

137

Date Sept 24/25 Fri/Sat Observer Hb / Cn Julian Day 1965

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28645	8 Cep B	22 ^h 25.4	57° 53'	A40	D ₀ Ob	13	54°F	22 25 ⁰	22 45	A
28646	HD 216029^{#41}	22 49.4	61 36	A40	D₀Ob	17				B
28646	HD 21297	22 16.7	27° 50'	A40	D ₀ Ob	13	54°F	22 51.5	23 00	B
28647	"	"	"	"	"	"		23 01	23 10	C
28648	HD 7019	01 5.5	37 12	A40	D ₀ Ob	13	52°F	23 21 ⁰	23 36	A
28649	BD +63° 48	00 21.0	63 52	A40	D ₀ Ob	17	52°F	23 46 ⁰	02 46	B
28650	HD 14422	02 14.7	+56 56	A40	D ₀ Ob	17	46°	02 55	05 15	C

Dome Temp. 51.5

Focus 65

Dome Temp.

Transparency Conditions Good (clouds on horizon) 138
 2240 some clouds coming in from NW
 ok good.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 45	A	00 15W	+58° 12'	0	6.3	B7W	15-15-15	JDF spec.	fine
	B				10.3	B2pc		on Be not likely to remain clear	
23 00	B	00 38W	28 10	0-1	4.9	B8n	15-15-15	B8-B9 extension	fine
23 10	C	00 48W	28 10	0-1	4.9	B8n	15-15-15	"	fine
23 36	A	01 35E	37 34	0	5.7	B8	15-15-15	B8-B9	fine
02 46	B	02 20W	64 14	0-1	10	Blune	15-15-15	on Be field diam	weak
05 15	C	02 53W	+57 13	0-1	9.58	Bl:Ip	15-15-15	on Be Focus 62 field chks. 800/60	weak

EXP MTR WILL BALANCE BUT COUNTS EXTREMELY SLOW ON ANY SETTING

Cu, Rc ~ 1.80 visitors showed M 57 Ring Nebula

139

Date Sept 25/26 Sat-Sun 1965 Observer Cu - L-SY Julian 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 Ecl
28651	BD +48 3913	21 21.3	+44 01	G 40	IIA06	17	54	21 08 ⁵⁵	22 58	A	04 35 W
28652	HD 21662 ⁵⁸	22 49.4	+61 36	G 40	IIA0B	17	51	23 07 ⁹⁸	02 23	B	03 33 W
28653	HD 14422	02 14.7	56 56	G 40	IIA0B	17		02 42 ⁴⁵	04 12	A	01 50 W
28654	HD 36665	05 28.3	27 59	"	"	"		04 22 ²¹	05 04	C	02 6 E

Dome Temp. ...
Focus ... 65
Dome Temp. ...

Dome Temp. 58°

Transparency Conditions *Excellent*

140

Focus *6.5*

Dome Temp.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 58	A	01 35 W	+44 19	1	9.43	B1:51	15-15-15	field checks. Cn Be 800/60	fine
2 23	B	03 33 W	+61 57	1	9.5 10.3	B2:30 B2:30	15-15-15	From 63.5 field OK Cn Be 800/60	plate fogged fine
04 12	A	01 50 W	57 14	1	9.58	B1:51	15-15-15	Cn Be 800/60	fine
05 04	C	0 26 E	28 03	1	8.40	B1:51	15-15-15	Cn Be 800/60	fine

Dome Temp. 42
 Focus 61 (out) 58
 Dome Temp.

Transparency Conditions *good.*
Clearing soon after sunset.

142

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 04	A	W 1 11	38 15	0	5.7	B8	15-30	B8-B9 binary <i>Working alone - no time to guide properly</i>	400/30 fine
L.S.T				time			sky		U
21 12		W 0 27 ^m		10s					A
21 22		N 35 ^m		10s			✓		A
21 59		W 23 ^m		80s			✓		G
22 16		W 45 ^m		80s			✓		G
22 40		W 1 09		120s			✓		G
22 53		W 2 13		10s			✓		A
23 10		W 2 04		30s			✓		G
23 28		W 2 15		30s			✓		G
23 44		W 2 12		90s			✓		G
01 29		04 50 W		10 ^s				Stopped Photometry " high Id chan-1	A
01 36		01 28 W		10 ^s					A
05 03		02 01 W	+59 47	0	9.33	B1 V pome	15-30	CN-BE Prog. <i>Sky more clear at local ??</i>	800/22 ↑ guiding

145

Date 4.5 Oct 1965
Mon - TuesObserver Hyse - Hb Julian Day
Hyse

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28658	HD 212943	22 22.8	+04 12	G40	IIaOb	13	37°F	21 46 ¹⁰	22 06	A
28659	BD +43°3913	21 21.3	44 01	G40	IIaOb	17	36°F	22 12 ⁵³	23 58	B
28660	B9 +63°48	00 21.0	+63 52	G40	IIaOb	17	34°F	00 07 ⁵⁵	01 57	C
28661	HD 23552	03 41.0	+50 26	G40	IIaOb	13	32°F	102 - 07 ¹⁰	02 31	A
28662	HD 23662	03 41.8	+68 12	G40	IIaOb	13		02 41	03 01	B
28663	HD 26670	04 08.1	+01 36	G40	IIaOb	13				C
28664	HD 30085	04 39.4	+70 45	G40	IIaOb	13				A
28665	HD 32781	05 00.5	+76 21	G40	IIaOb	13				B
28662 T	Calibration Sky Wedge					for plates 28658-62				

Dome Temp.

Focus 59

Dome Temp.

Hour Angle
Ecl

W 0 16

W 3 08

02 10 W

E 0 36

E 0 10

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

Focus $59/58$

Dome Temp.

0040 - broken As covering windy
most of sky

Transparency Conditions $good$ (overcast earlier) 146
 $\sim 1/4$ moon

640. FOCUS WAS AT 21: - WHY???

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 06 A	W0 16	+04 330	0-1	5.9	K0	15-15-15	Std. Vol. focus 59	200/50 fine
3 58 B	W3 08	44 19	0-1	9.43	B15	15-15-15	Cu - Be NECESSARY TO USE IS CLAMP	1500/75 l weak
01 59 C	02 10 W	64 15	0-1	10	B line	15-15-15	Cu - Be FINDER FIELD CHECKS OK	CLOUDS weak
02 31 A	E0 36	50 37	0-1	5.87	B8	15-15-15	B8-B9 FIELD CHECKS OK	200/15 fine
03 01 B	E0 10	68 23	0	6.28	B8	15:30	B8-B9	200/15 6 counts only l weak
C				5.59	B8		B8-B9	<u>Solid overcast</u>
A				6.37	B9		B8-B9	
B				6.29	B9		B8-B9	

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

Transparency Conditions *Cirrus*

148

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 52	E0 49	+04 3	2	5.9	K0	15-15-15	Std. Vel. focus 62 200/50	fine
21 32	W2 01	34 07	2	7.12	B15Ib	15-30	(1 x normal) CHECK WITH M1 STD <u>FINDER FIELD</u> 200/15	fine
21 54	W2 22	"	0-1	"	"	45	1/2 normal M1. STD. 200/8	fine
							100/15	
				"	"		(1/2 norm) 100/8	
22 10				2.88	F8Ib	—	1/4 (normal) 40/1 1/2	no comp. strong
				"	"		1/2 norm 40/3	
							clouds - thick	

Jan: see field for # 28664 & 5
should be checked

Checked OR

Sat winter det 10 ~80 inches - showed Universe Cu, Ck, CC

149

Date Oct 11/12 Mon/Tues 1965 Observer MCL

Julian 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.
405-1	γ Cyg	20 20.9	+40 08			20 ^s			19 31	
-2	NCC 7332	22 35.7	+23 37			60 ^s			20 03	
-3	γ Cyg	20 20.9	+40 08			20 ^s			21 01	
-4	α Peg	23 03.0	+15 01			20 ^s			21 32	
-5	ι Psc	23 38.1	+5 27			20 ^s			21 50	

Dome Temp.

Focus

Dome Temp

Hour Angle
End

Middle

00 12 W

02 16 E

01 44 W

00 27 E

00 45 E

Dome Temp. 530

Transparency Conditions Good. - full moon 150

Focus

Dome Temp.

Ending Time
E.S.T.

PM

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Middle

19 31

Middle
00 12W

A6 A3 A4 A5 A5 A6 B3

20 03

02 26E

21 01

01 44W

21 32

00 27E

21 50

00 45E

Clouds.

Ast 210 showed Ring Nebula Hd, Cr, Rc, H α

151

Ai

Date 12-13 ast Observer L - H α Julian Day

Tues - Wed msec msec

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
28667	HD 223311	23	43.4 - 06	56	640	13	41°F	22:43	23:25	A
28667T	Calibration Step Wedge									

Dome Temp.
Focus
Dome Temp.
Hour Angle
Ecl

W 0 57

Dome Temp. 41°F

Focus

Dome Temp.

WRONG - SHOULD
PROBABLY READ
-06 034' (see # 28732)
-Huber
Nov. 5/65

Transparency Conditions ... poor - 2/3 sky covered
in full moon by cirrus

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 25 A		W 0 57	06 26 00		6.3	gK4	15-15.15	Std. vol. focus 60 1/2 heavy clouds moving in closed up 21:30 PH B & C loaded in H pier	26 only weak

153

Date 13-14 Oct 1955 Observer Hd - H.A. Julian Day
Wed - Thurs rise - mce

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.II	Hour Angle End
28668	9. Peg	21 39.8	+16 53	G40	IIaD6	13	44°F	21 04	21 13	B	W 42
28669	"	"	"	"	"	"		21 14	21 18	C	W 48 ^m
28670	E. Peg	21 39.3	+09 25	"	"	"	43°F	21 21	21 26	A	W 0 54
28671	"	"	"	"	"	"		21 30	21 34	B	W 1 03
28672	HID 207673	21 45.6	+40 40	"	"	"		21 37	22 11	C	W 1 35
28673	"	"	"	"	"	"	42°F	22 12	22 38	A	W 1 01
28673 F ₁	focus test	in in / out out		"	"	"	"			B	
28674	8 C.P.	23 35.2	+77 04	"	"	"		22 51	23 05	C	W 38 ^m
28675	HD 8779	01 21.4	-00 55	"	"	"	41°F	01 00	02 38	A	0226W
28676	HID 36665	5 28.3	+27 59	"	"	13		02 57	04 05	B	E 0 15
28677	BD 37 ⁰ 1292	5 35.9	37 56	"	"	17	39°F	04 12	05 09	C	0041W
28677 T	calibration step wedge				(28668 - 28677)						

Dome Temp.

Focus 61

Dome Temp.

Hour Angle
End

Dome Temp. $45^{\circ}F$
 Focus $61\frac{1}{2} / 60\frac{1}{2}$
 Dome Temp.

Transparency Conditions *cirrus at start*
from 0100. thin cirr over all sky
" 0200 - excellent

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 13	B	W 42 ^m	17 12	1	5.54	G25B	15-15-15	MK 5 tel. <i>some clouds.</i> focus $61\frac{1}{2}$ 100/16	fine
21 18	C	W 48 ^m	"	1			15-30	same " 100/8	fine
21 26	A	W 0 54	+09 44	0	3.98	K25B	45	" [cirrus] " 40/72 ¹⁰	fine
21 34	B	W 1 03	"	0	"	"	45	" " 40/5	fine
22 11	C	W 1 35	41 59 41 01	1	6.5	A25B	15-15-15	" " 200/15	fine
22 38	A	W 2 01	"	1	"	"	15-15-15	" <i>clouds</i> focus $60\frac{1}{2}$ 200/8 <i>more clouds coming;</i> <i>sky $\frac{3}{4}$ covered.</i>	fine
	B							5/5 - <i>or 10 filters</i>	OK
23 05	C	W 38 ^m	77 27	1	4.25	K11V	15-30	MK 5 tel. Thick 40/104	fine
23 0	A	0226W	-0 34	0-1	7.5	K10	15-15-15	S tel. Jel. 200/50	fine
4 05	B	E 0 15	28 05	1	8.40	$\frac{13.10}{11-5}$	15-15-15	Cu - Be (H ₂) field 0.4 800/60	fine
5 09	C	0041W	37 59	1-2	9.28	$\frac{13.35}{12}$	15-30	Cu - Be (mu) field 0.4. 800/20 ²⁵ only <i>cirrus joint after 28677 begun</i>	lweak
								22K672 NOT ENTERED IN PROGRAM	

155

Date 15 Oct / 65 Observer mid, rise Julian Day

FRI - SAT

mid

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
286 775 ₁	shy			G10	IIaDb	9	52°F	17:35 ²	17:39	C	EO 37
775 ₂	shy			G10	IIaDb	9	52°F	17:42 ⁵	17:47	C	"
775 ₃	shy			G10	IIaDb	9	52°F	17:49 ⁶	18:00	C	"
-77 F	frons test in in/out out			G10	IIaDb	9	52°F			C	"
406-1	HR 7796	20 20.9	40 08	t = 20 sec					18 44		EO 16
-2	HR 80 85	21 04.9	38 31	"					TOO CLOSE (B-1/1/65)		"
-2	HR 81.15	21 11.5	30 05	"					19 34		EO 17
-3	HR 7467	22 59.3	29 58	t = 51 sec					20 45		EO 31
-4	HR 8781	23 03.15	01	t = 20 sec					21 30		EO 12
-5	HR 90 88	0 00.3	26 55	"					21 44		EO 56
-6	HR 27	0 08.5	45 53	"					22 02		EO 46
-7	HR 63	00 15.3	38 30	"					22 17		EO 34
-8	HR 8781								22 37		EO 55
-9	HR 9088								23 00		EO 20

Dome Temp
Focus
Dome Temp
Hour Angle

Dome Temp. 58°F

Transparency Conditions very good

156

Focus

NOTE TO FRANK: COULD THE BUBBS FOR THE RECORDER BE EITHER BOTH RED OR BOTH CLEAR?

Dome Temp.

Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
MIDDLE							
7:39 C	EO 37 40				45	immediately after sunset. normal slit length 20/15	WK
7:47 C	" "				45	apparent sunset 17:53:30 20/7	
8:01 C	" "				45	20/2	
	" "				5.5	no filter Grid left in prism C to U	
8:44	EO 16		2.32	FRIB		HAN HBW 45 42 41 38 35 B2 A3 A5 A6 A5 B1 B3 + sky	
	"		5.77	K5U			
9:34	EO 17		3.4	G8II		B4 A5 B2 B4 B4 B5 B6 interchanged tubes in column,	
10:45	EO 31		12.6	G2		D6 D4 D6 D6 D6 D6 D6	
11:30	EO 12		2.57	B9.5II		B2 A3 A4 A4 A4 A5 A6	
11:44	EO 56		5.85	G20		C4 B5 C2 C3 C3 C3 C4	
12:02	EO 46		5.1	P2II		C3 B4 B5 B6 B6 B6 C3	
12:17	EO 38		4.44	A2V		C2 B2 B4 B4 B4 B5 B6	
12:37	WO 55		2.57	B9.5II		B2 A3 A4 A4 A4 A5 A6	
1:00	WO 26		5.85	G2V		C4 B5 C2 C3 C3 CA CF	

157

10822

Date 15-16 Oct (Cont) Observer Mcl Mcl Julian Day
Pri-Sat Mse Sy ai Mcl HR

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
406-10	HR 269	0 54.8	38 18	t =	20 sec	700	✓ ^R		23 31	E 03
-11	HR 458	1 34.7	41 14		"				23 45	E 02
	"	"	"						00 13	000 E
406-12	HR 8781	23 03.0	+15 01		20 ^S				00 37	0250 W
" -13	HR 9088	0000.3	26 55		20 ^S				00 56	216 W
-14	HR 8781	23 03.0	15 01		"				01 22	0330
406-15	"	"	"		"				01 40	0357 W
-16	"	"	"		"				01 54	0411 W
-17	HR 9088	0000.3	26 55		20 ^S				02 15	0354 W
406-18	HR 1144	3 43.1	+24 45		20 ^S				02 42	0019 W
-19	HR 9088	0000.3	26.55		20 ^S				03 01	0421 W
-20	"	"	"		"				03 21	0341 W
-21	"	"	"		"				03 32	0450 W
-22	HR 1641	05 04.0	41 12						04 22	0337 W
-23	HR 2047	05 52.4	+20 16						04 40	0007 W
-24	2421	06 35.6	+16 26						04 58	50 15 E

Dome Temp. 45° 3.00 AM

Transparency Conditions Excellent

Focus

Cn, Rc, Mee. looked for comet after EST 05 30
Ikeya-Seki
with no success

Dome Temp.

MID
EST. P.B.
3 31
3 45
0 13
00 37
00 56
01 22
01 40
01 54
02 15
02 42
03 01
03 21
03 42
04 22
04 47
04 58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						M3N M3W 45 42 41 38	35-
E 03			3.94	A5 V		B5 A6 B2 B3 B2 B3	B5-
E 0 28			4.18	F8 V		B6 B2 B3 B4 B4 B5	B5-
00 01 E			"	"		" " " " " "	"
02 50 W			2.57	B9.5 III		B2 A3 A4 A4 A4 A5	A6
2 16 W			5.85	G2 V		C4 B5 C2 C3 C3 C3	C4
03 39 W			2.57	B9.5 III		B2 A3 A4 A4 A4 A5	A6
03 57 W			2.57	B9.5 III		B2 A3 A4 A4 A4 A5	A6
04 11 W			"	"		B2 A3 A4 A4 A4 A5	A6
03 54 W			5.85	G2 V		C4 B5 C2 C3 C3 C3	C4
00 19 W			5.63	B8 V		C4 B4 B6 B6 B6 B6	B6
04 21 W			5.85	G2 V		C4 B5 C2 C3 C3 C3	C4
03 41 W			"	"		C4 B5 C2 C3 C3 C3	C4
04 52 W			"	"		C4 B5 C2 C3 C3 C3	C4
00 39 W			3.28	B3 V		B3 A4 A5 A6 A6 A5	A6
00 09 W			4.62	G0 V		B6 B3 B4 B5 B5 B6	B6
00 15 E			1.93	A0 V		A6 A2 A3 A4 A3 A4	A6

150 Visitors showed Ring Nebula Cu, Rc, Ai, Co

D. Hise (Hs) and Tom Liseck
(Jor)
married on this day (Oct 16)

159

Date 16-17 Oct Sat-Sun 1965 Observer MCL - D6 Julian Day

Plate No.	Object	R.A. 1900 <u>65</u>	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
407-1	NCC 7332	22 35.7	+23 37	t = 60 ^s		800V			22 ^h 00 ^m	00 47 W
-2	"	"	"							00 05 E
407-3	HR 63 θ And	00 15.3	+38 30	t = 20					22 ^h 46 ^m	0 05 E
407-4	M 31	00 40.9	+41 05						23 15	10 10
-5	HR 458	01 34.7	+41 14						23 40	00 31 E
-6	HR 63	00 15.3	+38 30						23 57	01 05 W
-7	HR 458	01 34.7	+41 14						00 20	00 10 W
01-8	HR 27	00 08.5	+45 53						00 39	01 54 W
9	HR 9088	00 00.3	+26 55						00 57	02 21 W
10	HR 153	00 35.0	+53 43						01 21.2	02 10.5 W
11	HR 63	00 15.3	+38 30						01 38	02 47 W
12	HR 458	01 34.7	+41 14						02 01	01 49 W
13	HR 63	00 15.3	+38 30						02 40	03 48 W
14	HR 1412	04 26.7	+15 48						3 7 ⁵¹	00 45 W
15	HR 63	00 15.3	+38 30						3 34	04 43 W
16	HR 458	01 34.7	+41 14						3 49	03 39 W

Dome Temp. 46° F

Transparency Conditions Excellent!!

160

Focus

SAT. OCT 16 DOME PAINTED WHITE

Dome Temp.

Hour Angle EST.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 47W			11.8	G3		HBV HBW 45 42 41 38 35	
00 05E				"		D6 D2 D4 D5 D5 D5 D5	
00 05E			4.44	A2V		D5 D2 D4 D5 D5 D5 D5	
00 00			4.33	G5		B4 A5 A6 A6 A6 B2 B3	
00 31E			4.18	F8V		D3 C4 C6 D3 D3 D4 D4	
01 05W			4.44	A2V	-	B3 A4 A6 B2 B2 B2 B3	
00 10W			4.18	F8V		B4 A5 A6 A6 A6 B2 B3	
01 54W			5.1	F2II		B3 A4 A6 B2 B2 B2 B3	
02 21W			5.85	G2V		B5 A6 B3 B4 B3 B4 B6	
02 10.5W			3.72	B2V		C2 B3 B5 B6 B6 C2 C2	
02 47 W			4.44	A2V		B2 A3 A4 A4 A4 A4 A4	
01 49 W			4.18	F8V		B4 A5 A6 A6 A6 B2 B3	
03 48 W			4.44	A2V		B3 A4 A6 B2 B2 B2 B3	
00 4.5W			3.62	A7III		B4 A5 A6 A6 A6 B2 B3	
04 43 W			4.44	A2V		B2 A3 A4 A5 A5 A6 A6	
03 39 W			4.18	F8V		B4 A5 A6 A6 A6 B2 B3	
						B3 A4 A6 B2 B2 B2 B3	

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

4 04
4 22
4 45
5 11
5 27
5 43

Mid Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						AB-N NBW 45 42 41 38 35	
5 14 W			4.44	A2V		B4 A5 A6 A6 A6 B2 B3	
5 32 W			"	"		"	
5 53 W			5.32	Ap		B6 B2 B3 B3 B3 B3 B4	
5 02 W						B3 A4 A6 B2 B2 B2 B3	
5 16 W							
5 32 W							
looked at Jupiter 06:15 & moon							

163.

Date 17-18 Oct 1965

Observer Com - H. de
Mee H. de
Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle Est
28678	HD 174237	18 44.5	52 53	G40	IIaOb	17	44°	18 42 ³	18 48	A	01 30 W 5
28679	"	"	"	"	"	"	"	18 50 ⁵	19 00	B	01 4 W
28680	HD 235668	21 53.1	51 06	G40	IIaOb	"	"	19 07 ⁴⁰	20 27	C	00 01 E 5
28681	BD+47° 3656	21 57.1	47 42	G40	IIaOb	17	43°	20 30 ⁴⁵	22 39	A	02 07 4
28682	HD 2789	0 26.3	66 36	G40	IIaOb	17	42°	22 46 ⁴³	00 11	B	01 09 6
28683	HD 9812	01 30.8	58 08	G40	IIaOb	13	42°	00 14 ¹⁹	00 54	C	00 48 W 5
28684	HD 14422	02 14.7	56 56	"	"	"	41°	01 12 ⁴²	02 36	A	01 15 W 5
28685	BD+59° 612	03 07.3	59 33	"	"	"	"	02 46 ⁸⁵	05 36	B	03 00 5
28685T	calibration step wedge				(28678-28685)						

Dome Temp. 48°K

Focus 6.1

Dome Temp.

Transparency Conditions clear

1930: fine

2300 thin clouds

164.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
18 48	A	01 30W	53 -58		5.81	B3e	15-30	CN - Be focus 6.1	200/10	fine
19 00	B	01 41W	"		"	"	15-15-15	" "	200/15	fine
20 27	C	00 01 E	51. 24	1	8.46	B2e B5e	15-15-15	" "	800/60	guiding
22 39	A	02 07	48 .00	1	9.23	B3e B5e	15-15-15	FIELD OK (CN)	800/60	fine
00 11	B	01 09	66 59	0-1	8.61	B2e	15-15-15	" "	800/60	guiding
00 54	C	00 48 W	58 25	0	7.4	B5e	15-15-15	B std. Vol. (clouds)	800/60	poor guiding
02 36	A	01 45 W	57 12	0-1	9.58	B1V pe	15-15-15	CN - Be MAY BE WRONG STAR	800/60	poor guiding
05 30	B	03 52 W	59 47	"	9.33	B1V pnn e	15-15-15	" "	800/60	weak

note imp. time & what
writing

probably OK CN
the says field OK.

165 DH

B&C loaded

Db
Mcl
Mcl
Mcl

Date: 18-19 Oct 1965
Observer: Mcl
Julian Day: M-12

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
28686	HD 170235	18 23.2	-25 19	240	Fluob	.017	54°F	18 14	19 06	A
408-1	HR 8085	¹⁹⁶⁵ 21 04.9	¹⁹⁶⁵ +38 31		t=20s				19 42	
-2	NGC 7332	22 35.7	+23 32	"	t=60s				20 24	
-3	HR 8781	23 03.0	+15 01	"	t=20s				21 31	
-4	NGC 7742	23 42.6	+10 34	"	t=60s				22 16	
-5	NGC 7619	23 18.6	+08 00	"	"				23 30	
-6	NGC 7626	23 19.0	+08 01	"	"				00 25	
408-7	HR 8085	¹⁹⁶⁵ 21 04.9	¹⁹⁶⁵ +38 31		t=20s				01 01	
"-8	"	"	"		"				01 09	
-9	"	"	"		"				01 18	
-10	HR 8781	23 03.0	+15 01		t=20s				01 41	
-11	"	"	"		"				01 51	
-12	"	"	"		"				02 02	
408-13	HR 493	01 40.6	+20 07		t=60s				02 33	

Dome Temp.
Focus
Dome Temp.
M-12
Hour angle
W2 10
00 09W
00 40E
00 00E
W0 06
W1 44
W2 08
W5 08
W5 57
W5 46
W4 10
W4 21
W4 51
W2 25

Dome Temp. 60°F

Transparency Conditions Excellent but considerable haze around horizon

Focus

Dome Temp.

166

4 12
5 12
6 12
7 12
8 12
9 12
10 12
11 12
12 12
13 12
14 12
15 12
16 12
17 12
18 12
19 12
20 12
21 12
22 12
23 12
24 12
25 12
26 12
27 12
28 12
29 12
30 12
31 12
01 01
01 09
01 18
01 41
01 51
02 02
02 33

Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	41	38	35	Quality	
W 2 10	-25 17	0-1	6.71	B15.5	15-15	H3N H3W 45 in Sc. focus 65 Telescope reversed	42	41	38	35	weak
00 09W			6.77	K5V		O2 B3 B5 C3 C2 C4 C5					
00 40E			11.8	G3		D5 D2 D4 D5 D5 D5 D5					
00 00 ^W			2.57	B9.5		A6 A2 A3 A3 A3 A4 A5					
W 0 06			12.2	G0		D6 D3 D5 D5 D5 D6 D6					+ shy
W 1 44			12.4	G5		D6 D3 D5 D6 D6 D6 D6					+ shy
W 2 38			12.7	G3		D6 D3 D5 D6 D6 D6 D6					
W 5 28			5.77	K5V		C2 B3 B5 C3 C2 C4 C5					
W 5 37			"	"		C2 B3 B5 C3 C2 C4 C5					
W 5 46			"	"		C2 B3 B5 C3 C2 C4 C5					
W 4 10			2.57	B9.5		A6 A2 A3 A3 A3 A4 A5					
W 4 21			"	"		A6 A2 A3 A3 A3 A4 A5					
W 4 31			"	"		A6 A2 A3 A3 A3 A4 A5					
W 2 25			5.32	KIV		C2 B3 B5 C2 C2 C3 C4					

Dome Temp. 56°

Transparency Conditions Very Good

168

Focus

0400: fog.

Dome Temp.

M10
Entry Time
E.S.T.

PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	HBN	HBW	A5	REMARKS	A1	A2	A3	Quality
	M10													
0305	W 2 32			2.23	K2II		A6	A2	A4	A6	A6	B3	B4	
0330	W 1 35			1.90	FS1B		A4	A1	A2	A3	A3	A4	A5	
0340	W 0 55			5.40	G5III		B2	B3	B5	B6	B6	c2	c3	
0357	W 2 07				G5III		B4	A5	B2	B3	B4	B5	B6	
0416	W 1 31				K0II		B4	A5	B2	B4	B4	B5		
0441	W 1 53				K0III		B4	A5	B2	BA	BA	B6	B6	
4.59	W 2 06				K0III		B3	A4	B2	B3	BA	B5	B6	
5.28	W 2 30				K0IV		B3	A4	A5	A6	A6	B2	B3	

169

Date 19-20 Oct 1965 Observer L - MA Julian Day
Tues - Wed. Msc Msc

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
28687	HD 8779	01 21.4	-00 55	G40	IIaOb	13	52°F	2 2 50 ³⁰	0 02	B	W0 14
28688	HD 7019	01 055	37 12	G40	IIaOb	13	50°F	0 07	0 18	C	W0 45
28689	HD 14422	02 24.7	56 56	G40	IIaOb	17	41	0 30	3 07	A	W2 25
28690	BD 37° 1292	5 35.9	37 56	G40	IIaOb	17	48°F	3 16 ³³	4 22	C	W0 20
28691	HD 36589	05 27.7	+20 24	G40	IIaOb	13	47°F	4 28 ¹⁵	4 58	A	W1 03
28692	HD 36881	05 29.7	+10 10	G40	IIaOb	13	"	05 00	5 14	B	W1 17
28693	HD 37752	05 35.8	+23 16	G40	IIaOb	13	"	05 17 ¹⁰	5 37	C	W1 33
28693T	calibration steps wedge	(28686 - 28693)									

Dome Temp.

Focus 64 1/2

Dome Temp.

Dome Temp. 54°F

Focus 6 1/2 / 63

Dome Temp.

Transparency Conditions

0 H 0 m

POOR

good (some thin cirr.)

170

Ending Time
E.S.T.

P.H.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 02	B ₁	W 0 14 0 34	0	7.5	K 0	15-15-15	Std. Vel. focus 6 1/2 800/125	fine
0 18	C	W 0 45 37 34	0	5.70	B 8	15-15-15	138-139 200/15	guiding
3 17	A	W 2 20 57 15	0	9.58	B ₁₀ pe	15-15-15	Cu-Be F.I.E.L.D. DRAWN focus 6 3 800/50	fine
4 22	C	W 0 20 37 57	0	9.28	B ₁₀ pe	15-30	Cu-Be build checks ok 100/18 only	1 went
4:15 - thick cirr. over all mountain sky / exp. mts. stuffed								
4 58	A	W 1 03 20 28	0	6.04	B 8	15-15-15	138-139 air. 400/30	fine
5 14	B	W 1 17 10 13	0 0	5.54	B 8	15-15-15	B 8-139 air. 400/30	fine
5 37	C	W 1 33 23 20	0 0	6.47	B 9	15-15-15	138-139 air. 400/30	fine
DRAWN								

170V visitors showed Perseus Nebula, Saturn Cn, Cr, Dm.

171

Date ~~Jan~~ Oct 23-24 1965

Observer ^{Cn} MCL - _{ai}

Julian 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.
409-1		¹⁹⁶⁵ 0 11.4	115 00							
	Mon - Tues 25-26 Oct 1965			Cn Mse	Sf Mse					
28694	HD 219 749	23 13.2	44 57	G40	CaOb	13	43°F	20 28 ⁸	20 44 ⁴⁵	A
28695	HD 216 629 ⁵⁸	22 49.4	61 36	G40	CaOb	17	43	20 50 ⁶⁶	23 00	B
28696	BD 63° 48	0 21.0	63 52	G40	CaOb	17	42°	23 05	01 16	C
28696 F ₁	focus test in in / out out			G40	"	13 ¹⁷	40°F			A
28697	HD 26162	04 03.3	41 21	G40	"	13	"	01 29 ⁷	01 43	B
28698	HD 7019	1 5.5	37 12	G40	"	13	"	1 48 ⁴	1 53	C
28700	HD 23258	3 38.6	+20 37	"	"	"	"	2 08 ⁴	2 15	B
28699	HD 23383	3 39.7	55 37	"	"	4	"	1 57 ²⁷	2 08	A
28701	BD 25° 970	5 40.2	+25 30	"	"	17	40°F	2 21 ¹⁵	3 19	C
28702	HD 38708	5 42.6	29 06	"	"	"	40°F	3 21 ²⁰	3 47	A
28703	BD 23° 1148	5 55.0	+23 20	"	"	"	"	3 50 ²⁵	4 29	B
28704 28704T	HD 42259 Calibration star used	6 04.6	-05 03	"	"	"	40°F	4 33 ²⁵	5 43	C

for plates 28694-28704

Dome Temp. Focus Dome Temp. Hour Angle End

Dome Temp. 41°F

Focus 6 1/2 / 601

Dome Temp.

Transparency Conditions Occasional light clouds
raining by 11:45

172

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								2.87 02 W	
								Cloud thin clearing after 0200: or excellent. EXTREMELY clear	
20 44 A		45	18	1-2	6.30	B9p	15-30	138-B9 focus 6 1/2 400/30	guiding
23 00 B		02 06 W	61	58	2	9.5 BOH 2.03 B2pe	15-15-15	field drawn 500/60	fine
2 10 C		W 2 50	+64	16	2-1	10 B12ad	5-15-15	" " spectrograph done to check 500/5-1	very poor guiding
	A						5/5	610 filter	slight to
23 3		?			1	6.4 K1	5	Std. Vel. focus 60 400/45 610 filter 01:30 - thin cir in S.	wild in hold strong poor guiding
1 53 C		W 2 31	37	34	0	5.7 B8	15-30	B8-B39 200/15	comp weak guiding
2 15 B		W 0 33	20	49	1	6.01 B9	45	B8-139 200/15	comp weak guiding
2 04 A		W 0 18	55	49	1	6.02 B9	45	B8-B39 200/15	comp weak guiding
3 19 C		E 0 26	25	33	0-1	8.63 B32e	15-15-15	field OK (near) 500/50	weak
3 49 A		0 0	29	08	1-2	8.25 B3pe	15-15-15	field OK 500/50	guiding
4 29 B		W 0 30	23	22	2	8.93 B2ire	15-15-15	field OK 500/50	guiding
5 43 C		W 1 36	-5	02	1-0	8.87 BOE 11-2	15-15-15	" DAWN 500/50	weak

Dome Temp. *28°F*
 Focus *2 30 EST*
 Dome Temp.

Transparency Conditions *clouds around horizon*
2100: very good

Hour Angle East	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	HβN	HβW	45	REMARKS	42	41	38	35	Quality
									<i>5/5 - no fields</i>					<i>0.1K</i>
<i>W 3.04</i>	<i>11 05</i>	<i>0</i>	<i>9.66</i>	<i>B1510</i>	<i>15-15-15</i>	<i>Be</i>			<i>Binary ~ 5"</i>			<i>500/24</i>		<i>Low alt</i>
<i>0^{hr} 6' east</i>			<i>4.33</i>	<i>B8V</i>		<i>B3</i>	<i>A4</i>	<i>A5</i>	<i>A5</i>	<i>A5</i>	<i>A5</i>	<i>A6</i>	<i>A6</i>	
<i>1^{hr} 28' W</i>			<i>11.8</i>	<i>a13</i>		<i>D6</i>	<i>B2 D2</i>	<i>D4</i>	<i>D5</i>	<i>D5</i>	<i>D5</i>	<i>D5</i>	<i>D5</i>	
<i>1^{hr} 58' W</i>				<i>L</i>		<i>D6</i>								
<i>W 2 05</i>			<i>12.6</i>	<i>G12</i>		<i>D6</i>	<i>D3</i>	<i>D5</i>	<i>D6</i>	<i>D6</i>	<i>D6</i>	<i>D6</i>	<i>D5</i>	
<i>W 2 39</i>			<i>12.4</i>	<i>G5</i>		<i>D6</i>	<i>D2</i>	<i>D4</i>	<i>D6</i>	<i>D5</i>	<i>D5</i>	<i>D5</i>	<i>D5</i>	
<i>W 0 39</i>			<i>2.2</i>	<i>K2III</i>		<i>A5</i>	<i>A1</i>	<i>A3</i>	<i>A5</i>	<i>A5</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>	
<i>W 2 24</i>			<i>11.5</i>	<i>F0</i>		<i>D5</i>	<i>D2</i>	<i>D4</i>	<i>D5</i>	<i>D4</i>	<i>D4</i>	<i>D4</i>	<i>D4</i>	
<i>W 2 11</i>			<i>2.2</i>	<i>K2III</i>		<i>A5</i>	<i>A1</i>	<i>A3</i>	<i>A5</i>	<i>A5</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>	
<i>W 3 38</i>			<i>12</i>	<i>E2</i>		<i>D6</i>	<i>D3</i>	<i>D5</i>	<i>D6</i>	<i>D6</i>	<i>D6</i>	<i>D6</i>	<i>D6</i>	
<i>W 2 48</i>			<i>12.7</i>	<i>G9</i>		<i>D6</i>	<i>D3</i>	<i>D5</i>	<i>D6</i>	<i>D6</i>	<i>D5</i>	<i>D5</i>	<i>D5</i>	
			<i>2.2</i>	<i>K2III</i>		<i>A5</i>	<i>A1</i>	<i>A3</i>	<i>A5</i>	<i>A5</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>	

PH 9 loaded in n. pier

175

Date 28/29 Oct/cont Observer ^{mcl} ₅₉₂ Julian 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.
409 - 11	HR 617	02 05.1	23 18		t = 20 sec				4 50	
- 12	HR 2047	05 52.4	20 16		t = 20 sec				5 10	
- 13	HR 2473	06 41.6	25.10		t = 20 sec				5 30	
- 14	HR 2990	07. 43.2	22 27		"					
- 14	HR 3249	8 14.6	+9 18		"				5 49	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End
m.0

4 58 W

1 30 W

1 01 W

2 0 12

Dome Temp.

Transparency Conditions Excellent

176

Focus

Dome Temp.

M10
EST. P.H.
50
5 10
5 30
5.49

Hour Angle End M10	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						H ₂ N H ₃ W 45 42 41 38 35	
4 58 W			2.2	K2III		A5 A1 A3 A5 A5 B2 B2	
1 30 W				WV		B4 A5 B2 B3 B3 B4 B4	
1 01 W				G8Ib		B2 A3 A5 B3 B3 B5 B6	
				K0III		too bright for 20" t = 20 sec	
E 0 12				K4II		B3 A4 B2 B4 B4 c2 C3	

It is interesting to note that the temp rose slightly when the dome was opened & remained constant.

177

Date 29/30 Dec 1965

Observer Ca-

Julian 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
28706	HD 172694	18 36.5	-15 57	C40	Ha0B	17	31°F	18 01 ³⁰	19 01	A	02 35 W
28707	BD+23° 3761	19 41.2	+24 04	C40	Ha0B	17		19 05 ⁴⁴	20 33 ⁵¹	B	03 04 W
28708	BD+47° 3487	21 32.1	+47 28	C40	Ha0B	17	32°F	20 39	22 20	C	03 02 W
28709	BD+50° 360	01 42.2	+50 37	C40	Ha0B	17	32°F	23 18 ⁵	23 28	A	00 00

Dome Temp.

Focus

Dome Temp.

Dome Temp. $41^{\circ} F$

Transparency Conditions *Good - some cloud in N* 178^h
 18

Focus

Dome Temp.

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	A	02 35W	-15 54	1-0	8.31	B0.5m-1	15-15-15	Cr Be Focus 56.5 800/510	fine
03	B	03 04W	+24 16	2	9.49	B0.11	15-15-15	Cr Be Windy: Image unsteady 800/60 field check	quitting
02	C	03 02W	+47 44	2	9.80	Bpe	15-15-15	Cr Be 22 ^h - some thin cloud. field check 800/60 22 20 clouds.	good
23	A	00 00		1	9.52	B3ne	45	Cr Be 23 28 clouds again Cloud up 0 ^h	weak.

179

Date 31 Oct - / 2000 Observer Hd, Muse Julian Day Sum-mer

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
28709 F	focus test	in in / out out		G40	IIaOb	13	38°F			A	
28710 II	B Cass	0 03.8	58 36	G40	IIaOb	13	38°F	22 59	23 02	B	01 18
28711	"	"	"	"	"	"	"	23 04	23 06	C	01 22
28712	"	"	"	"	"	"	"	23 09		A	01 25
28712 T1	Calibration Sky Wedge				for plates 28706-12			23 20		C	
	Nov 1 Cu				Focus found at 54.5						
72	Normal Iron Arc			G40	IIaOB	13	35°			A	
73	"	"	"	"	"	"	"			B	
74	"	"	"	"	"	"	"			C	
F1	Focus Test			"	"	"	"			A	

? ⇒ 59.5
intended
12mm

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. *41°F*

Transparency Conditions *fair*

Focus

Dome Temp.

Ending Time E.S.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								5-50 G10 filter	center to red
23 02	W 1	18	58 57		2.25	F210	45	M.K.S. tel. (normal) 100/12	poor focus
23 06	W 1	22	" "		2.25	F210	45	M.K.S. tel. (1/2 normal) 100/6	strong
9	W 1	25	" "		"	"	45	" " 1/4 100/3	fine
								<u>Rain threatening - cloud 500'</u>	fine
								losing up 0/00	
								Normal	
								15 G10 filter	
								15 " "	
								15 " "	
								5-5 " "	center to red in red,

359.5
intended
17m



3 PH loaded in 14 pieces

The telescope was found up and also aperture half-closed! → consequently the first exposure will be weak - H_β VERY ANNOYING

191

Date Nov. 1/2 Mon/Tues '65 Observer H. M. Ke / S. J. m. slovy Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle East
28713	HD 212943	22 ^h 22.8	+04 12	G40	IIaOb	13	32°F	19 ^h 45 ^m ¹⁵	20 05	A	00 06 W
	~30 Visitors (Dr. Demarque)										
28714	BD +63° 48	00 21.0	+63 52	G40	IIaOb	17	31	21 12 ⁰⁰	0 12	B	W2 15
28715	BD +49° 967	3 26.5	+49 59	G40	IIaOb	17	26°F	0 21	1 21	C	W0 17
28716	HD 23552	3 41.0	50 26	G40	IIaOb	13	25°F	1 25	1 47	A	W0 47
28717	HD 23594	3 41.5	56 49	G40	IIaOb	13					
28717	HD 23662	3 41.8	68 12	G40	IIaOb	13	25	1 54 ¹⁵	2 24 ²⁰	B	W1 03
28718	HD 26670	4 08.1	61 36	G40	IIaOb	13	24°F	2 30	3 09	C	W1 23
28718 F	focus test in in (out out)			G40	IIaOb	13				B	

Dome Temp. 3
Focus 57
Dome Temp.

aperture
just
VERY
ANNOYING

after 2:00: thin cirrus coming slowly from SW.

Dome Temp. 33°F
Focus 57/55/54
Dome Temp.

Transparency Conditions Overcast early in evening
and clearing.

EVIP MTR. UNUSUALLY UNSTEADY.
DUE TO HIGH HUMIDITY? AT 1800 - 100% STABLE

0100 air over 1/2 sky
0300 air over all sky
21-2 mag absorption

Ending Time
EST. PM

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	06 W	+64° 32'	0	5.9	K0	15-15-15	std. tel.	fine
02	15	+64° 15'	0	10	Blau	15-15-15	On Be	fine
02	17	50° 10'	0	9.2	A2	15-30	Hd - a Piro	fogged weak
							sky deteriorating & very poor seeing - unable to finish exp.	
04	47	50 37	00	5.87	B8	15-15	B8-B9	fine
							B8-B9 B8-B9	
02	03	63 23	00	6.28	B8	15-15-15	B8-B9	fine
03	23	61 45	"	5.59	B8	15-15-15	B8-B9	fine
							focus 54 5/5 - G15 filter	O.K.

FIELD CHECKS OK ✓
FIELD DRAWN
balance 800/100
unsteady 800/60

good exposure
fizzed

BIT B loaded in H file

1983

Date Nov 2/3, Tues/Wed 1965 Observer Cox - msl
H4

Julian 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.
28719	B ^D +23° 3761	19 41.2	+24 04	C40	DuoB	017	27°	17 58 ⁷⁸	20 34	A
28720	HD 560	00 04.9	+10 36	C40	DuoB	013	28°	20 43 ⁸	20 59	B
28721	"	"	"	"	"	"	"	21 01 ²	21 15	C
28722	HD 2772	00 26.2	+53 59	"	"	"	"	21 22 ³	21 26	A
28723	"	"	"	"	"	"	"	21 28 ¹⁰⁶	21 33	B
28724	B ^D +50° 360	01 42.2	+50 37	"	"	017	"	21 40 ⁵³	01 12	C
28725	HD 29581	04 34.5	+41 57	"	"	013	"	01 27	3 13	A
28725F	focus test in the found out on 4000 Ob 13 31°F									
28725T	Calibration Step Wedge for plates 28719-25									

Dome Temp. 2

Focus 55

Dome Temp.

Hour Angle End

03 20 W

10 40 E

10 24 E

10 32 E

10 25 E

01 57 W

W 1 05

- cal

1

Dome Temp. 34°
 Focus 55"
 Dome Temp.

Cloud until 17^h - clearing at sunset
 Transparency Conditions - some cloud around horizon
 from # 1900 - thickening across
 040^m air again 184-

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
034 A	03 20 W	+24 16	0	9.49	B07:e	15-15-15	Field checks l. cloud 19 ^h	800/47	l. weak
059 D	00 40 E	+10 56	0	5.5	B38	15-15-15	B38-39 EXT	200/15	fine
115 C	00 24 E	"	"	"	"	15-15-15	" "	" "	fine
126 A	00 32 E	+54 20	1	4.9	B8	50	" "	" "	fine
133 E	00 25 E	+50	1	"	"	50	" "	" "	fine
12 C	01 57 W	+50 56	1	9.52	B32:e	15-15-15	Field checks Cn Be	800/60	fine
313 H	W 1 05	+42 02	0-1	7.7	G2	15-30	STD. VEL. EVERYTHING	400/60	3.6 fine
							WET & WATER DRIPPING		
							5/5 ⁶ G _{max} filter IN THRU SHUTTER		
							- cars. secondary covered in moisture; 7.4" ok.		
							OPENING,		
							Joan: - the plate at the right hand side in unexpressed box #1 is too short for the plateholder		

Dome Temp. 40°F

Transparency Conditions good

186

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

poor 0.03 40V

Standard. Zero unstable, power was off!

yet somewhat
unstable!

- " -

Cloud layer deep in W + S, Moon
Clouds come up [feel back home]

Solid cloud cover

Frank: Illumination of
at spectrograph
diaphragm ^{sometimes}
^{heavily}
comes, ~~sometimes~~ not

Dome Temp. 34°F

Focus 57/56

Dome Temp.

Transparency Conditions good

188

0600 Seeing VERY POOR!

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 2	0330W	50 11	0-1	9.2	A2	15-15-15	α Pers Field OK #800/20?	plate fogged lens
2	054	29 18	0	7.9	G7	15-15-15	Std. Vel. #900/60	fine.
							NOTE: AT 6:15 THE SKY IS MEASURABLE.	

Full moon

192

Dome Temp.

Transparency Conditions *Clear at sunset*

Focus *56/*

Cloudy ~ 19:30

Dome Temp.

Clear ~ 20^h

Cloud forming from S 23^h

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	17 ^h 15 ^m		Power on		2 1/2	hr	later. - cloud shutter by hand.	
01	50 50	+64 16	0-1"	10	Blone	15-15.15	in Be Exp meter "1" at dist - set at 200V + "overspeed" light meter light cloud forming 23 ^h 10 ^m	200/36 fine.
			Cloud up		23	30		

193

Date 14-15 NOV 65
SUN - MONObserver H.R.V. - H.R.V.
mce mce Julian 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.
28734	LID 204722	21 25.5	43 54	G40	TR06	13	30°F	20 22 ³⁴	21 30	✓
28735	HD 9138	01 24.9	+5 38	"	"	13		21 45 ¹³	22 10	✓
28736	B348° 931	03 22.6	48 41	G40	TR06	17		22 25 ¹⁸	23 00	✓
28735T	Calibration Step Wedge for plate 28734-35.									

Dome Temp.

Focus 56"

Dome Temp.

Hour Angle
End

Dome Temp. 33² F

Transparency Conditions circus

1941

Focus 56 1/2

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 19 W	H 4	14	1	7.6	B24 mne	15, 15, 15	UNCAPPING DEVICE CAME A PART Cu - Be Somewhat doubtful of field #800/154	fine
0 50	+6	01	2	6.2	K4	22-22	Std vel. #200/50	fine
1 14	10			9.1	F7	7	α Perov. G10 filter #200/50 clouds. closed shutters	too weak
							clouds, overexposure	

195

B & C loaded

Date 18 Nov 1965 Observer R. S. Ai Julian Day

Thurs

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28135F ₁	focus test in in / out out			G140	Kaob	13	35°F			B
28736	HD 203658	21	18.4-21 16	G140	Kaob	13	11	17 30	17 44	A
28736T	Calibration step wedge for plate 28736									
28135F ₂	focus test in in / out out			<u>G140</u>	Kaob	9	11			C
F ₂										C
F ₃										C
F ₄										C
F ₅							30			C
21 Nov/65 Sun										
28736F ₆	focus test in in / out out			G140	Kaob	9				C
					Kaob					
					Kaob					

Dome Temp. 3
Focus 56
Dome Temp.

Hour Angle End

50 05

1960

Dome Temp. 34°F

Focus 56 1/2

Dome Temp. 34°F

Transparency Conditions

~~SHORT IN RA GEAR BOX RE SET CIRCUIT PRIOR~~

(PHONED HA ABOUT TRUBLE) TO # 26736
 → PWR TO RA SETTING MOTOR HAS

OPENED UP IN ~~CLOCK~~ (WEST SIDE) REMARKS

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
B						5/5	(G10 filter) set focus 56 1/2	OK
A	EO 05			5.5	gk2	15-30	std. vel. clouds - NOT ENTERED IN BOOK	l weak
C						5/5	(no filter) 4 min in D-19	TO V POOR
C						"	2 " focus from 0.2 to 0.4	latter
C						"	2 min focus from 0.4 to 0.6	"
C						"	" " " 0.6 to 0.9	"
C						"	" " " 0.9 to 1.3	sl. c to vel.
						5/5	By measure ^{G10} focus should be 1.5 Note that the setting should be increased (i.e. turned clockwise) and then set at 1.5 as you turn counter-clockwise, i.e. towards smaller nos. → THIS WAS THE CONVENTION FOLLOWED FOR ALL THE TESTS AS PER INSTRUCTIONS INSIDE FRONT COVER (MSE) focus set 1.5 (3 min D-19)	OK

197

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

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
NOV 22	Cr, Rc									
28736 T ₁	Focus Test			In-D / Out-Slit	040	13	34°F		$\delta = +18^\circ$	
T ₁	Full Aperture:								outside at $\delta = +18^\circ$	
T ₂	Focus Test			In-D / Out-Slit					inside at $\delta = +70^\circ$	
T ₄	Full Aperture				040	13	34°F		$\delta = +10^\circ$	
T ₅	"								$\delta = +60^\circ$	
T ₆	"								$\delta = +60^\circ$	3
T ₇	"								$\delta = +60^\circ$	2
T ₈	"								$\delta = +60^\circ$	1

Dome Temp.
Focus
Dome Temp.
Hour Angle
End

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	FOCUS 58				5/5	210 filter	sl center to v
	"				4/4	" "	centered
	"				5/5	" "	O.K.
					5/5	" "	O.K.
					5/5	" "	center toward
							O.K.
							O.K.
							O.K.

Ending Time
E.S.T. P.H.
+18°
E=+70°
+70°
70
60°

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

Transparency Conditions $22:45$ clearing 200

Focus $58\frac{1}{2}$

Dome Temp. $38^{\circ}F$

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
09	A	$02^h 32^m$	40 00	0.1	8.2	K5	15-15-15	std. vel. // Field brown 800/200	fine
3-3	B	$0^h 54^m$	42 03	0	7.7	G2	15-30	std. vel. (CLOUDS 800/200)	weak
	C	04	11				5/5	no filter	
								closed up completely - 0 00	

Dome Temp. $28^{\circ}F$ (0100)

Transparency Conditions *1 clear*

2:02

Focus

0100 - clearing

Dome Temp. $24^{\circ}F$ (0100)

Ending Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 20 ^m W	$48^{\circ} 2'$	0-	7.23	B0 [III-V]	15-30	On Be Pushed in / double 3000 / 800 / 20 <u>3000</u>	Focus too strong - wrong filter? weak
01 01 W	$+28^{\circ} 26'$	0-1	8.34	B0.5e [III-V]	15-15-15	On Be focus 54 800/60	guiding
01 06 W	$-19^{\circ} 44'$	0-1	6.3	B8	15-15-15	B8-B9 under field checks 800/60	guiding
1 23	$-22^{\circ} 34'$	1	6.6	B5	15-15-1	B8-B9 visual double - very nice D x 10" 800 / 60 39	lweak
			6.2	B8		B8-B9	
			5.62	B9		B8-B9 clouds 800/	
1 30	$+4^{\circ}$				5/5	on 10 filter	O.K.
<p># 28742 - spectrograph wire to piece - tapping loose upper A. start again: plate problem</p>							

203

Date November 30/1965 Observer Re/Ri/Ai Julian 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.	How Angle Est
							25 ⁰ -7	18 ⁰⁰			
28742 F2, F3	From 7225 (first without field flatness)										
	Dec 1 1965		Cu								
28742 T2	Sky			G40	Lantern	7	28°K	1 min ~ 3pm		A	
T3				G40	Lantern	13	28°K	" "		B	

Dome Temp.

Transparency Conditions

204

Focus

Dome Temp.

Ending Time
E.S.T.

P.M.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

52-55

OK, OK.

~ 3pm A
" B

1 min 0.10 full hr

1 min "

205

Wed Dec 1 - 2/65

Hd
mce

Date

~~1/20/65~~

Observer

Dmf - H4
(Yp) hse

Julian 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.
28743	15 Owl BE 160-58	19 57.0	+27 29	G10	Ilad	9		17 46 ²⁷	18 39	C
28743T	Calibration	Step Wedge for plates		28743						
28744	10 Lac	22 348 ³⁸	32	G40	Iladb	13	30° F	19 04 ³	19 10	C
28745	"	"	"	"	Iladb	"	"	"	"	A
28746	HD 3765	0 35.3	39 40	G40	Iladb	13	"	19 28 ²⁴	20 16	
28746T	Calibration	Step Wedge for plates		28744-46						
Mon Dec		1965		Cn						
28746T2	Full Aperture	Center 2 nd W.	Outside Meridian	G40	Duo B	13	29°	5 +60°		B
13	"	Center 2 nd E	Meridian	G40	"	13	"	"		C
4	"	Center 2 nd E	Meridian	G10	"	9	"	"		A
5	"	Center 2 nd W	Meridian	G10	"	9	"	"		C

Dome Temp.

Focus

Dome Temp.

Hour Angle
EastW. 3^h 03^m

00 55 W

01^h 03^m

Dome Temp. $38^{\circ}F$

Transparency Conditions *poor & windy (S.W)*

Focus

Dome Temp.

≈ 20
296

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 39	C	W. 3 ^H	03 27	4.21 → 0.74	195m	12-24		Eq. width. cirrus ~ 1800 200/ ⁶⁶ 300	weak
19 10	C	00 55 W			4.88	09V		FVP - MTR STOPPED MTR sed. (1/2 norm) 400/15	fine
	A							5 (approx) (1/4 norm) 4m/7	fine
0 16		W 1 ^H	03 40	00	8.2	K5-15-30		std. vel. (1/2 mag absorption) 800/ ⁸⁰ 200	fine
								↳ SHORT PLATE - HAD TO REMOVE FROM SPECT. WITHOUT DARK SLIDE <i>you - I wonder if you could make me to make some kind of a simple holder so that when water wouldn't get put with the box.</i>	
								R.H. B & C loaded:	
							2/4	310 plates	n. pier
							"	"	"
							"	depth	"
							"	"	"

207

Date *Mon/ Tues Dec 6/7* Observer *Rd* *Mse* *Hb* *Mel* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	^{M10} Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28747	α Cas	0 ^h 34.8	55 ^o 57'	G40	Landon slide	7	20 ^o F	18 ^h 14 ^m	19 ^h 10 ^m	C
28748	- " -	- " -	- " -	- " -	- " -	13	20 ^o F	19 58 ^m	20 ^h 22 ^m	C
28749	- " -	00 ^h 30.3	+ 57' 40"	G	Ilacoh	13	20 ^o F	21 05 ^m	22 ^h 55 ^m	C
28750	δ Ori A	5 ^h 26.9	-0 ^o 22'	G10	Ilacoh	9	20 ^o F	23 ^h 50 ^m	00 10	C
28751	ϵ Ori	05 31.1	-01 16	G10	Ilacoh	9(L)		0 20	0 32	A
28752	ζ Ori A	5 35.7	-2 00	G10	Ilacoh	9L		0 44	00 55	C
										C
411	-1	HR 2047	5 52.4	20 16		t = 20"		1 41		
	-2	HR 1346	4 17.8	15 33				02 00		
	-3	HR 1373	4 20.9	17 27				02 16		
	-4	HR 1577	4 54.7	33 06				02 36 ^s	02 50	after elon ^g
	-5	HR 2047	5 52.4	20 16				3 11		

Dome Temp. 24°

Focus

Dome Temp.

Transparency Conditions *good*

208

SETTING MOTION FROZEN
(OR BUTTON ON HAND BOX)
BROKEN

Ending Time EST.	P.M.	Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
		MIDDLE								
		05	$56^{\circ}22'$	0	3.34	K07	20-20	Lonely - H/1	under developed Plate too short?	
		10 39	"	0	"	"	20-20	20/130	strong	
		12 56	$43^{\circ}00'$	0	8.2	K0	15-3-15	H/1	20/130	
00 10	C	00 35E	$-0^{\circ}20'$	0	2.0	09.5II	12-12-12	Bright stars in Orion	80/140	fine
00 32	A	00 12	$-1^{\circ}12'$	0	1.5	B0I	12-12-12		80/140	fine
00 55	C	00 01W	$-1^{\circ}52'$	0	1.6	09.5II	12-12-12		80/140	fine

M3N	M3W	45	42	41	38	35
B4	A5	B2	B3	B3	B4	B4
B3	A4	A6	B3	B3	B4	B5
B3	A4	B2	B3	B3	B4	B5
B2	A3	A5	B3	B3	B5	B6
B4	A5	B2	B3	B3	B4	B4

Clouds

for 10 min
2.50

Dome Temp. 35°

Transparency Conditions cloudy but good seeing 2.10

Focus

Dome Temp.

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:50	C	0h 52m E	56° 22'	1	3.34	KJ 57	610 filter 20-20-20	focus 57 200/180	fine
1:58	A	0h 11m W	"	1	"	"	610 filter 20-	Much cloud. focus 57 200/180	fine
			+45°					stopped by cloud. focus 57	center to red

(Right)
first slow motion (dec) doesn't work.

213

Date 19-20 Dec

Observer

H. M. - H. M.
Mise (Mcl)
Mcl

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28756	BD+63° 48	0 ^H 21 ^m	63° 52'	G40	Ilab	17	19°F	17 38 ¹⁰³	21 08	A
28757	HD 237 056	2 55.0	57 13	G40	Ilab	17	14°F	21 23 ⁸³	0 08	B
28758	HD 44131	6 15	-2 54	G40	Ilab	13	14°F	00 50 ¹⁴	01 18	C
412-1	HR 2473	$\frac{1965}{0641.8}$	$\frac{1965}{+2510}$		TIME 20s	E=-	800V	CENTRE 6201		
412-2	NGC 2549	08 16.1	+57 55		60s			02 40		
-3	"	"	"		"			3 03		
-4	HR 3800	9 32.1	36 33		20			3 30		
-5	NGC 2768	9 09.0	+60° 12'		60s			4 00		
-6	NGC 2880	9 26.9	+62 40		60s			4 48		
-7	HR 2473	06 41.8	+25 10		20s			06 09		
-8	" 4785	12 32.2	+41 33		20			06 39		
28758 T	Calibration	Step	Wedge							for plates 28755-58

Dome Temp. 19°F 0115 + 11°F

heavy cir in low H all night 2300: cir overcast.

Focus 5 2/2 / 50 HAND SWITCH FOR S SETTING BROKEN

Transparency Conditions good

214

Dome Temp. (NORTH) fixed Hr 0100

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2/08 A	W 2 ^H 19	64 14		10	Brize	15-15-15	Sn - Be field OK	#800/36
0 08 B	W 2 ^H 45	57 29	1 → 00	9.02	Brize	15-15-15	Sn - Be field OK	#800/54
0118 C	0042W	-02 54	00	6.5	M1	15-15-15	Std Vel	#200/50
	CENTRE	SS. CHAN						
	0056W	A-4		3.18	G8Ib		HPN HPW 45 42 41 38 35 B-2 A-3 A-6 B-3 B-3 B-5 B6	
	00005W	A-1		12.2	G4		D-6 D-3 D-5 D-6 D-6 ^{2nd p-5} D-6 D-5	
	W0 24						D6 D-3 D-4 D-6 D-5 D-5	
	E0 25			4.62	G8III		B5 A6 B3 B4 B4 B6 B6	
	W0 28			11.2	G5		D6 D3 D4 D5 D5 D5 D5	
	Woh 59 ^m			12.6	G4		D5 D3 D5 D6 D6 D6 D5	
	0505W			3.18	G8Ib		B-2 A3 A-6 B-3 B-3 B5 B6	
	0015E			4.3	G0V		B4 A5 B2 B3 B3 B3 B4	

spectrograph near
dark matter

plate fogged
fine

fine

215

Date December 20/21

Observer

m d
mcc
Re
air- m d
use Julian 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.
28758 F1	focus test			G40			17A			A
28759	HD 223311	23 ^h 43.4	-06° 56'	G40	IIaO-B	13	17°F	17:55 ²⁸	18 51	A
28760	HD 584	0 52	56 36	G40	IIaO-B	13				B
28759 F	focus test						18°F			B
413-1	HR 63	0 15.3	38 30	t = 20 sec				channel II = Standard Source A4		
2	M31 nucleus	0 ^h 40.0	+41° 00'							
-3	M31 outside (2' south)			t = 60 sec.						
-4	M32	0 ^h 40.0	+40° 36'	t = 60 sec.						
-5	HR 617	2 ^h 05.7	+23° 18'	t = 20 sec						
-6	HR 1030	3 22.9	+8 55'	"				21 55		
-7	HR 63	0 15.3	38 30	t = 20 sec				22 15		
-8	NGC 1700	4 ^h 55.1	-4° 54'	t = 60 ^s				23 18		
-9	HR 1577	4 54.7	33 06	t = 70 ^s				23 56		
-10	α Ori	2 05.1	23 18	"				0 12		

Dome Temp.

Focus 51

Dome Temp.

Hour Angle

Dome Temp. 25.9

Transparency Conditions

216

Focus 51

red warning light on spectrograph not working

Dome Temp.

Ending Time E.S.T.

Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45	06° 35'	0	6.3	gK4	15-15-15	Focus 51 Exposure Meter 200 / STANDARD VELOCITY STAR	1 week
			6.19	B8		B8-B9	
						Focus 51	center track
						HβN HβW 45 42 41 38	35
0 ^h 51 ^m W		<3"	4.44	A2V		B5 A6 B2 B2 B3	B4
0 ^h 47 ^m W			4.33			D4 C5 D2 D3 D3 D4	D5
						D4 C6	
1 ^h 17 ^m W						D5 C6 D3 D4 D4 D4	D5
1 ^h 58 ^m W			9.06			D2 C4 C5 D2 D2 D3	D3
1 ^h 11 ^m W			2.23	K2 III		A5 A1 A3 A5 A6 B3	B3
W 0 12			3.80	G8 III		B4 A5 B2 B3 B3 B5	B5
W 3 40			4.44	A2V		B5 A6 B2 B2 B2 B3	B4
W 0 04			12.1	G4		D6 D2 D4 D5 D5 D5	D5
W 0 42						B2 A3 A5 B3 B3 B6	
W 3 47			2.23	K2 III		A5 A1 A3 A5 A6 B3	B3

217

- H₂ 'phoned - not able to observe

Date 21 Dec/65 Observer Moe Julian Day 344.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
413 # -11	HD 43703	6^h 12.6	+23° 03'	G40	IIaOb	17	18^f	1 02	2 18	A
28760	HD 43703	6 ^h 12.6	+23° 03'	G40	IIaOb	17	18 ^f	1 02 ³⁸	2 18	A
28761	HD 62729	7 ^h 40.3	-15° 52'	G40	IIaOb	17	18 ^f	2 25 ⁴⁰	3 45	B
28762	HD 92124	10 ^h 33.1	45° 22'	G40	IIaOb	17	17 ^f	3 54 ⁴⁵	7 04	C
28762T	Calibration Step Wedge for plates 28759-62									

Dome Temp. 7
Focus 52
Dome Temp.

Hour Angle
End

W^H 42

W^H 43

W^H 44

N.S.

Dome Temp. $22^{\circ}F$
 Focus $52/$
 Dome Temp. $18^{\circ}F$

Transparency Conditions *very good* 218
good seeing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 18 A	W1 ^H 42 23 03	1	9.06	^{B119} pe	15-15-15	Cn-Be	FIELD DRAWN 800/60	guiding good exposure
3 45 B	W1 ^H 43 -16 00	0	8.29	^{B32} 11-5	15-15-15	Cn-Be	Field draw 800/60	fine
04 C	W2 ^H 08 45 03	1-2	9.76	K5	15-15-15	Hd-KAFS	field draw 700/750 800/ ¹¹⁹ 700	guiding good exposure

NOTE TO FRANK: ~~THE RED WARMING LIGHT ON THE~~
~~SPECTROGRAPH (PLATE IS EXPOSED)~~
~~UNACCEPTED) IS BROKEN; ALSO MTR~~
~~ILLUMINATION IN WARMING ROOM~~
 BURNT OUT.
 FIXED

219

ind
hsc

Date 21-22 Dec 65 Observer Han - H V Julian Day 219
Tues - Wed

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28763	HD 223311	23 43.4	-06 56	G40	IIaOb	13	22° F	18 57	~ 19 15	A
28764	HD 13669	2 08.2	55 20	G40	IIaOb	17				B
										C
414 -1	HR 63	0 15.3	38 30	t =	20 sec		std. dev. A4		19 31	
-2	NGC 221	0 40.9	40 41		20 60 sec		A4		19 55	
-3	NGC 205	0 38.4	41 30		60 sec		A1		20 32	
-4	NGC 821	2 06.4	10 51		60 sec		A1		21 20	
5	HR 1577	4 55	33 06				A4		22 05	
28764	HD 65583	07 54.3	+29 31	G40	IIaOb	13	20°	02 34 ³⁶	03 46	B
28765	TT Leo	09 54.9	083 1	"	"	"	"	04 23	04 39	C
28766	HD 92588	10 36.3	-01 13	"	"	"	"	04 58 ⁵⁹	06 56	A
28766T	Calibration Slip Wedge for plates 28763-66									

Dome Temp. ...
 Focus 5.3/
 Dome Temp. ...
 Hour Angle End
 01 15W
 W 11 00
 W 11 58
 W 12 55
 W 13 57
 E 10
 0134W
 0025W
 0222W
 (92)

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

Focus $5.3 / 52.8$

Dome Temp.

Transparency Conditions *clouds at sunset then clearing*

CLOUDS BEFORE MIDNIGHT, CLEARING AFTER 0130
MSE FEELING PUNK, SENT HIM HOME

220

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:35 A	01 15W	-6 33	0	6.3	gk4	15-15-15	std. vel. (REGAPPED IRON ARC) (CAPPER GAME) 400/100 APART) 800/60	fine
				8.25	M-2		cm-BC	
							HPN HPW 45 42 41 38 35	
19:31	W1 ^H 00		2"-3"	4.44	A2V		B5 A5 B2 B2 B2 B3 B4	
19:55	W0 ^H 58						D5 C6 D3 D4 D4 D5 D5	
20:32	wt 37.5	field star?		8.89	EG(HB) AB		D6 D2 D4 D5 D5 D5 D5	
21:22	W0 57	close at end		12.0	E2 G5		D5 D2 D4 D5 D5 D5 D4	
21:57	E 1 0		4"	2.90	K3II		B2 A3 A5 B3 B3 B6 B6	
03:26 B	0134W	+29 19	1-2	7.9	G7	15-15-15	STD. VEL 800/120	fine
04:39 C	0025W	+08 14	1	6.31	M2 III	15-30	MK STD. 200/50	fine
05:56 A	0202W	-01 32	1-0	7.4	K1	15-15-15	STD. VEL. CLOUDS 200/50 33	guiding

MORE *'s NEEDED for 2nd HALF!!

also there are 2 S13's (9th mag) at 10^h + 45° listed. \rightarrow there are plenty of B8-B9 stars right to $\alpha = 16^h$. (HB)

221

Date 22/23 Dec 1955
Wed - Thur

Observer Hb, Mcl /

Julian 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.
28767	HD 9812	01 30.8	+58 08	G40	IIa06	13	26°F	18 ^h 27 ^m ⁴⁶	19 ^h 58 ^m	A
28768	HR 1161 HD 23594	03 41.3	+56 49	G40	IIa06	13		20 ^h 08 ^m ⁴⁶	21 ^h 00	B
28769	HD 27650	04 16.6	+42 12	G40	IIa06	13				C
28770	HD 27777	04 18.20	+53 54	G40	IIa06	13				
28768T	Calibration slip wedge for plates 28767-68									
<p>Sun Dec 26-27 - a perfectly clear night, but the shutter rails were hopelessly iced up after the rain and snow of Dec 24-25, even though the sun shone all day on 26th (Temp: ~+10°F) - Hd.</p>										

Dome Temp.

Focus 55

Dome Temp.

Hour Angle
East0^h 11^m W

00 58 W

1845 Echo (W→E) azimuth

Dome Temp. 34 °F

Focus 55

Dome Temp.

Transparency Conditions (fair) some absorption (1/2 m)
 Scattered Cs from fine to fine
 → Poor after 1900 EST. 222

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 ^h 58 ^m	A	0 ^h 11 ^m W	+58° 27'	0-1	7.4	B5V	15-15-15	B Std. Vel 400/15'	guiding
20 ^h 00 ^m	B	00 58W	+57° 00'	1+	6.5	B9	15-15-	B8-B9 2100 focused on north pier. 400/15'	lweak
	C				6.0	B9		B8-B9 400/15'	
					5.5	B8		B8-B9	

cloud up 2115 — frost on inside of telescope and on lower half of 74" mirror — quite thick on lower end of tube..... NUTS!

night,
 even
 up + 15'

2100 - 2 fixed shutter
225

mse
DB
mse
Hlx

Date 3-4 Jan 1966
Observer R.C. - 1
Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28769	HD 25752	3 ^h 54.7	+36° 44'	640	Ilford	13	28°	21:32 ¹⁴	22 ^h 13	A
28770	HD 28867	4 ^h 27.8	+17° 48'	640	Ilford	13	28°	22 ^h 28 ¹³	22 ^h 54	B
28771	HD 35656	5 ^h 21.2	+6° 47'	640	Ilford	13	28°	23 ^h 08 ¹⁴	23 ^h 35	C
28772	HD 39286	5 46.5	+19 50	640	Ilford	13	28	23 40	23 50	B
28773	HD 42055	6 34	+8 41	640	Ilford	13				
28772 J	Calibration step wedge for plates 28769-72									

Dome Temp.
Focus
Dome Temp.

Hour Angle
End

0^h 50

1:00

00:42 W

Dome Temp. 32°F

Transparency Conditions very good

2.26

Focus

Dome Temp.

Ending Time EST.	PR	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 13	A	0 ^h 50	36 54	0	6.31	B9	15-15-15	B8-B9 mag fours 5/6 200/15	fine
2 ^h 54	B	1 ^h 00 W	17 56	0	6.19	B8	15-15-15	B8-B9 fours 5/6 800/60	fine
3 35	C	00 42 W	6 52	0-1	6.37	B9	15-15-15	B8-B9 fours 5/6 800/60	fine
3 28	B	0 36	19 52		5.98	B9	15-15-15	B8-B9 <u>Some clouds</u> 800/60	fine
					6.43	B9			
completely clouded up 2130									

227

Date 4-5 Jan / 66 Tue-Wed Observer Re - Inse Cr - Incl Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28773	HD 13669	02 08.2	+55 20	C40	IIaB	17	29°F	17 39 ⁴⁴	19 07	A
28774	HD E 237056	02 55.0	+57 13	C40	IIaB	17		19 10 ⁵³	20 56	B
28775	BD 59° 612	03 07.3	+59 33	C40	IIaB	17		21 06 ⁵³	22 52	C
28776	HD 41335	05 59.4	-06 42	C40	IIaB	13	29°F	23 02	23 15	A
28777	"	"	"	"	"	"	"	23 16	23 30	B
28778	HD 44458	06 16.8	-11 44	C40	IIaB	13		23 37	23 51	C
28779	"	"	"	"	"	"	"	23 52 ⁸	00 08	A
MIDDLE										
414 #	HR 2473	6	41.8 25	10	t = 15 sec			0 35 ^m		
-1	HR 2990							0 37		
-2	HR 2990	7	43.2 28	07	t = 10 sec			0 58		
-3	HR 34510	8	35.8 +5	50	t = 15 sec			1 15		
-4	HR 3454	8	41.4 +3	31	t = 15 sec			1 36		
-5	HR 3800	9	32.1 36	33	t = 15 sec			1 48		
-6	HR 3815	9	33.7 35	59	t = 15 sec			2 04		

Dome Temp. _____
 Focus 56
 Dome Temp. _____
 Hour Angle End _____
 MIDDLE
 HD 28
 HD 39
 HD 05
 HD 40
 HD 30
 HD 04
 HD 50

Dome Temp. 35°

Focus 56

Dome Temp. 31°F

Transparency Conditions ^{bright moon.} Excellent

22.8

DOME VERY SLOW TURNING

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 07	00 28E	+55 39	1	8.25	B2ne	15-15-15	Cn Be field checks	800/60 fine
10 56	00 35W	+57 28	1	9.02	B0.5ipe	15-15-15	Cn-Be field checks.	500/60 lweak
12 52	02 19W	+59 48	1	9.33	B1.5pne	15-15-15	Cn-Be field checks	500/60 lweak
13 15	00 07E		0	5.13	B2ne	15-15-15	Cn-Be	200/12 fine
13 30	00 08W		0	5.13	B2ne	50	Cn-Be	200/12 fine
13 51	00 12W	-11 45	0	5.62	B1ipe	10 C10	Cn-Be	200/10 fine
00 08	00 22W			5.62	B1.5ipe	10 C10	lweak Cn Be	200/12 fine
							① slit face is dirty - line just above slit. [SINCE BEFORE XMAS]	
							② Dome turns <u>very</u> slowly (if at all)	
4 MIDDLE							HPN HPW 45 42 41 38 35	
W0 28							B3 A4 A6 B4 B4 B6 C2	
W0 39							B3 A4 A6 B3 B4 B6 C2	
E0 05							A5 A7 A3 A5 A5 A6 B2	
E0 40							B5 A6 B2 B2 B2 B3 B4	
E0 30							B4 A6 B2 B2 B2 B2 B2	
E1 04							B6 B2 B4 B5 B5 C2 C2	
E0 50							C2 B3 B5 C2 C2 C3 C3	

229

Date 5 Jan / 66 - Wed Observer _____ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle
414-7	HR 2473	6 41.8	25 10	t=15	See			2 ^H 9			W 17
-8	HR 2990	7 43.2	28 07	t=10	See			2 ^H 34 ^m			W 1 31
-9	HR 2473	6 41.8	25 10	t=15	See			2 55			W 2 50
-10	HR 3880	9 32.1	36 33	t=15	See			3 11			W 1 19
-11	HR 3815	9 33.7	35 59	t=15	See			3 32			W 0 38
-12	HR 2473	6 41.8	25 10	t=15	See			3 55			W 3 54
-13	HR 34 10	8 35.8	45 50	t=15	See			4 13			W 2 14
28780	HD 103095	11 47.2	38 26	G140	Ilad6	13	27	05 04 ²⁵	05 50	A	W 0 39
28781	HD 115043	13 09.5	57 14	G140	Ilad6	13	27	5 56 ³¹	06 58	B	E 0 03
28782	HD 115612	13 13.2	68 56	G140	Ilad6	13	27	06 34 ⁷	06 48	C	W 0 14
28783	80 U ma	13 21.2	55 30	G140	Ilad6	13	27	06 52	06 56	A	W 0 13
28784	"	"	"	"	"	"	"		07 00	B	
28785	"	"	"	"	"	"	"		07 03	C	W 0 20
28785 F ₁	focus test in in (out out)			G140	Ilad(6)	13	"			A	
28785 T	Calibration slip change for plates				28773	-85					

Dome Temp.

Focus 55'

Dome Temp.

Hour Angle

Dome Temp. 31°F

Focus 55 1/2

Dome Temp. 28°F

Transparency Conditions good - cirrus in N: 230
3:30 - cirrus coming up from S

Ending Time EST.	PH	MIDDLE Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	42	41	38	Quality	
								M3N M3W	45	42	41	38	35
		W2 17			3.18	G86b		B3 A4	A6	B3	B4	B6	C2
		W1 31			1.21	K02U		A5 A1	A3	A5	A5	A6	B2
		W2 54			3.18	G86b		B3 A4	A6	B3	B4	B6	C2
		W0 19			4.62	G87III		B6 B2	B4	B5	B5	C2	C2
		W0 38			5.48	G85U		C2 B3	B5	C2	C2	C3	C3
		W3 54			3.18	G86b		B3 A4	A6	B3	B4	B6	C2
		N2 18			4.18	A05		B5 A6	B2	B2	B2	B3	B4
05 50	A	W0 39	38	00	1.0	7.3 G15	15-15-15	std Vel. (cirrus)				800/120	fine
06 58	B	E0 03	56	54	0	7.30 G10	15-15-15	MK std (1/2 NORM)				800/60	fine
06 48	C	W0 12	68	35	0	6.09 B9	15-15-15	B8 B9				400/30	fine
06 56	A	W0 13			"	4.01 A5U	50	MK std (NORM)				200/15	fine
	B		55° 12'		"	"	50	" (1/2 NORM)				200/8	fine
07 03	C	W0 20			"	"	50	" (1/4 NORM)				200/4	fine
	A						50/50	(onco filter) unable to find					O.K.
								onco filter ✓					

Dome Temp. 31 F
 Focus 56 1/2
 Dome Temp.

Transparency Conditions Poor & getting worse 232

* Copper coupling came apart - set screw gone - Jerry please fix.

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 39	B	02 14 W	55 39	1 -	8.25	B20 [III-V]	15-15-15	<p>Howdy * at first</p> <p>then trouble with copper * 80/5/</p> <p>some light snow or mist?</p> <p>- Cloud.</p>	fine

Dome Temp. 33°F

Focus 56

Dome Temp.

Transparency Conditions 1945 - good

234

2040 - thick Ce 2100 overcast (w/ 2 mag absorption)

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	15-15-15 Comp.	REMARKS	Quality
20 20	A	01 18 E	+42° 22'	0-1	5.96	B9	15-15-15	B8 - B9 Prog 400/30	plate slightly fogged fine
20 30	B	50 53 E	+34 04		5.53	B8	15-15-15	B8 - B9 " 400/30	fine
21 25	C	00 16 E	+32° 25'	0-1	6.17	B9	15-15-15	B8 - B9 " clouds developing rapidly 400/219	l weak

235

Date Sat/Sun Jan 8/9 '66 Observer Re / Ar Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28790	HD 13669	02 ^h 08. ^m 2	+55° 20'	G40	IIaOb	17	+6°	19 10	21 30	B
28791	^{HD 27650} HR 1371	04 ^h 16.6	+42° 12'	G40	IIaOb	13	+6°	21 42	21 58	C
28791F	Focus test			G40	IIaOb	13	+2F	22 40		B
28791T	Calibration Step Wedge for plates 28790-91									

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

0212W

00 32W

Clouds after sunset then

236

Dome Temp. +50

Transparency Conditions Excellent

Focus 48"

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:30	B	02 12W	56° 39'	0-	8.25	B2e	15-15-15	Clutch Drive very stiff: Blow 2 fuses together it started Camptus BE program 800/150 FIELD ELECT used	fine guiding fused.
2:58	C	00 32W	42° 23'		S94	B9	15-30	B8-B9 few clouds... SNOW 800/14 only Probably fogged as capper broke 22:00 completely cloudy. Clutch Capper coupling fixed	Glass dipped
	B						3-3	Focus 48 at +2°F	center to red.

237

Date Mon/Tues Jan 10/11 Observer Db / Hb / Rc / Hb Julian 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.
28792	HD 10300	21 ^h 33 ^m 3	+34 ^m 41	090	Ilao	13	25°	18 ^h 56 ^m 18 ^s	19 ^h 34 ^m	C
28792	"	"	"	"	"	"	20°	19 ^h 45 ^m	20 ^h 13 ^m	B
28793	"	"	"	"	"	"	17°	20 ^h 23 ^m	20 ^h 45 ^m	C
28794	HD 30122						16°	21 ^h 8 ^m		B
28794 ⁴	HD 42035 6	3.4 + 8	41 640	Ilao	13	14°F	0 09 ^m	21 27		A
28794T	Calibration Slip Wedge for plates 28792-94									

Dome Temp. -
 Focus -
 Dome Temp. -
 Hour Angle
 End
 0^h 51^m W
 1^h 23^m W

Dome Temp. $+20$
 Focus 55.6. mial
 Dome Temp.

clearing after 11:30 PM 23/8
 Transparency Conditions Average

POOR SEEING
 POOR SKY
 HIGH WIND

partly cloudy
 with V. high wind
 seeing terrible - better later

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 24	C	0 ^h 57W	+35° 5'	0	5.4	B9	15-15-15	[Couldnt get dome around to north]	fine
0 23	G	1 ^h 38W	+35° 5'	"	"	"	15-15-15	(FOC 52.8) -	Not capped. death focused
0 45	C	2 ^h 9W	35° 5'	"	"	"	15-15-15		strong
								clouded in -	
								A good thing since plate was too small for plate-holder - could fall through	
0 27		21	23 + 8 42	0	6.43	B9	15-30	B8-B9 focus 50 1/2 800/10 1/2	weak
								clouded in again cloud up completely 0 200	
								SHUTTERS OPENED & CLOSED WITH DIFFICULTY	

239

Date Tues-Wed/Jan 11/12 1966 Observer Re Huse Cn - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
28795	HD 13669	02 08.2	+55 20	G40	Ilcob	17	-10°	17 52 ⁷	20 20 ¹⁷	A	01 13 ⁶
28796	HD 23662	03 41.8	+68 12	"	"	13	5°	20 30	21 04	B	01 23 ⁵
28797	HD 26670	04 08.1	+61 36	"	"	"	"			C	
28797	HD 38010	05 37.5	+25 24	G40	Ilcob	17	2°	22 34 ²⁰	23 14 ²¹	B C	00 40 ²⁰
28798	"	"	"	"	"	"	"	23 15 ⁴⁸	23 57	A	01 21 ^W
28799	HD 49787	06 ^m 45.0	-05° 24'	"	"	"	1°	00 01	1 37	B	01 56 ²⁰
28800	HD 58601	7 21.5	48 24	G40	Ilcob	13	-2°	01 45 ¹⁷	2 02	C	01 43 ⁴
28801	HD 66684	7 59.6	+27 49	G40	Ilcob	13	-2°	2 06 ⁵⁵	02 40	A	01 45 ^W
28802	HD 103095	11 47.2	38 26	G40	Ilcob	13		02 57	04 47	B	00 04 ^W
28803	HD 123782	14 04.6	49 56	G40	Ilcob	13	-5°	5 15 ²¹	6 13	C	00 46 ⁴
28804	HD 144579	16 01.5	39 24	G40	Ilcob	13	-6°	6 21	06 57	A	01 55 ^E
28804 F	focus not in im/pair/out				Ilcob	13	-6°			B	01 54 ^W

Dome Temp. 9°
 Focus $49/47/45/44$
 Dome Temp. $-7^{\circ}F$

Transparency Conditions $Good$ 240
 clouds low s.w.
 20 45 - completely clouded over for 10min
 21 " cleared + then clouded over again

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0 20	A	01 13 ^E W	+55 40	0"	8.25	B2/B1	15-15-15	Cu Be	800/50	fine
1 04	B	00 23 ^E W	+68 24	0"	6.28	B8	15-15-15	B8-B9	cloud 20' 50" 800/56	fine
					5.59	B8		B8-B9 20.50 clouds drifting over		
								21 15 closed shutter		
								22 30 opened again		
23 4	C	00 40 W	+25 27	0"	6.87	B1/B2	15-15-15	Cu Be Focus 45	800/60	fine
3 57	A	01 21 W	"	0"	"	"	15-15-15	Cu Be	800/60	fine
1 37	B	W1 56	-05 27	0	7.49	B1/B2	15-15-15	Cu Be field check	800/60	fine
2 02	C	01 43	48 16	0	5.55	B9/B1	15-15-15	B8-B9 focus 45	800/60	small exposure comp weak
02 43	A	01 45 W	27 38	0	6.14	B9	15-15-15	B8-B9	800/60	small exposure comp weak
04 47	B	00 04 W	37 58	00	7.3	G5	15-15-15	Std. Vel.	800/120	fine comp weak
								TRIED FOR HD 107 328 - TOO CLOSE TO MOON.		
6 13	C	EO 46	49 37	00	6.8	M2	15-15-15	Std. Vel.	800/200	comp weak
6 57	A	01 58 E	39 15	00	7.2	G8	15-15-15	"	800/54	spectrum weak comp weak
	B	UNEXP.	ALATES					IN N.P.I.F.R. 5/5 - G10 filter		D.K.

246

Date Wed Jan 12-13/66 Observer HdMf

Julian 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.
28805	5 Lac	22 25.4	+47 12	640	Duob	13	+21°	18 06	18 12	A
06	"	"	"	"	"	"	"	18 16	18 19	B
07	"	"	"	"	"	"	"	18 30	18 41	C
08	"	"	"	"	"	"	"	18 47	18 50	A
28808 T	Calibration Step Wedge for plates 28805-08									

Dome Temp.

Focus 46

Dome Temp.

Hour Angle
End

W 2 54

W 3 02

W 3 24

W 3 33

W 3 42

Dome Temp. +8

Transparency Conditions

242

Focus 46/

Dome Temp. +6

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 12	A	W2 ^h 54	147 48	2	4.61	KO+AO	22/22	Hynck Comp. Focus 46.	with comp. l weak
8 17	B	W 3 02	"	"	"	"	22/22		l weak
8 17	C	W 3 24	"	"	"	"	45		spectrum fine v l weak comp
8 50	F	W 3 33	"	"	"	"	45		guiding v v weak comp

Warning

Due setting North sticks on 1/4 has to
be changed to stop telescope
Somebody fix

switch

- Later: Focus comp OK now

Dome Temp. 17°

Focus 52.5/

Dome Temp. 16

Transparency Conditions ... Clouds from early in evening 24.4
Clearing ~ 22h

23^h 10^m - l. cloud in W seeing poor - even X's in zenith desirable
0^h - cloud moving in from W & W.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							seen from upper end of declination!	
							loaded! why? Plate removed, marked X & pelt in "Exposed Plate" way.	L
22 55 A	00 32 W	+25 28	0	6.87	B12/p	15-15 ¹⁵ L Be	right star - see funda field 800/60	fine
00 10 B	00 41 W	-05 26	0	7.49	B12/p	15-15 ¹⁵ L Be	field check, Clouds 0 ^h 02 ^m 800/60	blank? (some 2nd order)
							closed up 0020 - few snowflurries	→ probably no exposure after this time

Little flashlight needs new bulb(?)

245

— L₂H ✓

Date Sat/Sun JAN. 15/16 1966 Observer Re/Ai Mel Julian 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.
288 ¹⁰ H	HD 4622	00 ^h 43. ^m 0	-22° 16'	G40	IIaOb	13	12°	17:46	18:10	C
288 ¹² T	"	"	"	"	"	"	11°	18:12	18:38	A
415-1	HR 617	02 05.1	+23° 18'	t=20 ^s			800 ✓		middle 09:07	
415-2	NGC 821	02 06.4	+10° 31'	t=60 ^s					middle 19:59	
415-3	NGC 1023	02 38.0	+38° 57'	t=30 ^s				middle	20:51	
415-4	HR 617	02 ^h 05. ^m 1	+23° 18'	t=20 ^s					21:23	
415-5	HR 1577	04 ^h 54.7	+33° 06'	t=20 ^s					21:48	
415-6	HR 1641	05 ^h 04. ^m 0	+41° 12'	t=20 ^s					22 29	
415-7	HR 2473	06 41.8	+25 10	t=20 ^s					23 20	
415-8	HR 617	02 ^h 05. ^m 1	+23° 18'	t=20 ^s					23 41	
415-9	NGC 2549	08 ^h 16. ^m 1	57° 55'	t=60 ^s					00 15	
415-10	NGC 2768	09 09.0	60° 12'	t=60 ^s					01 16	
415-11	HR 3300	09 32.1	36 33	t=20 ^s					02 00	
288 ¹³ T	HD 92588	10 36.3	-01 13	G40	IIaOb	17	-6	0307	0605	B
28812 T	Calibration step video for plates 28809-12									

Dome Temp.
Focus 49
Dome Temp.
Hour Angle
End
0 44
1 16
2 24
3 51
4 35
5 40
6 55
7 47
8 01
9 58
1 22
0030 E
0001 E
2 53 W

Dome Temp. 10°F
 Focus 49 43.2
 Dome Temp.

Transparency Conditions Fair
0600 Clouds. sky bright at first.
 Excellent ~ 2200 on

246

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1810 C	0 ^h 49' W	- 22° 09'	0	5.4	B9	15-15-15	B8-B9 PROGRAM (EXTENSION) 800/60	fine
1838 A	1 ^h 18' W	"	0	"	"	15-15-15	" (SPECTROGRAPH NEAR NORTH PIER) 800/40	fine
							H ₃ N H ₃ W 45 42 41 38 35	
0907	0 ^h 24 W		15"	2.23	K2 III		A9 A1 A3 A5 A5 B2 B3	
1919	1 ^h 15 W			12.0			D6 D2 D4 D5 D5 D4 D4	
2041	1 ^h 35 W			10.4	G5		D6 D3 D4 D6 D6 D5 D5	
2133	2 ^h 40 W			2.23	K2 III		A5 A1 A3 A5 A5 B2 B3	
2143	0 ^h 15 W			M=2.9	K3 II		B2 A3 A5 B3 B3 B6 B6	
2229	0 47 W						B2 A3 A4 A4 A4 A4 A4	
2300	0 01 W		15"	3.18	G8 Ib		B3 A4 A4 B3 B3 B5 B6	
2341	9 53 W			2.20	K2 III		A5 A1 A3 A5 A5 B2 B3	
0015	1 22 W			12.2	G4		D6 D3 D5 D5 D5 D5 D4	
0116	0030 E			11.2	G5		D6 D3 D4 D5 D5 D5 D4	
0200	0009 E			4.62	G8 III		B5 A6 B3 B5 B5 B6 B6	
0205	2 53 W			7.4	K1	15-15-15	STD. VEL 800/170	strong

247

Date Wed Jan 19 Observer C. Re Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
28812-T1	Sky		$\delta = 30^\circ$	C40	IIaD	7	19°	2 ⁵		A	00 30 E
T2	Sky			C40	IIaD	7	19°	4 ⁵		B	00 30 E
T3	Sky			C40	IIaD	7	19°	8 ⁵		C	00 30 E
<p>Jan 19/66 from tent in morning/ outside also T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T26 T27 T28 T29 T30 T31 T32 T33 T34 T35 T36 T37 T38 T39 T40 T41 T42 T43 T44 T45 T46 T47 T48 T49 T50 T51 T52 T53 T54 T55 T56 T57 T58 T59 T60 T61 T62 T63 T64 T65 T66 T67 T68 T69 T70 T71 T72 T73 T74 T75 T76 T77 T78 T79 T80 T81 T82 T83 T84 T85 T86 T87 T88 T89 T90 T91 T92 T93 T94 T95 T96 T97 T98 T99 T100</p>											
28812 F ₁					IIaD	9	19° F			C	

Dome Temp.

Focus 52

Dome Temp.

Dome Temp. 20°

Transparency Conditions

248

Focus 52

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	00 30 E					2 ^s	no filter	SET 2 / 1 count	comp. good 1 unit
	00 30 E					4 ^s	no filter	2 / 2	comp. strong gd
	00 30 E					6 ^s	no filter	2 / 4	comp. strong fine
						6/6	no filter (dome 2 ^o)	(D-19)	OK

249

Closed up at 0500 EST

Date Fri/Sat 21/22 JAN 1966 Observer MCL^{CM} Hb Julian 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.
416-1	HR 617	02 ^h 05.1	+23° 18'	T=15 ^s		800 ^v			middle 18 24	
416-2	NGC 821	02 06.4	+10 51	T=50 ^s					19 07	
416-3	NGC 890	02 19.9	+33 07	T 60 ^s					19 52	
416-4	NGC 1023	02 38.0	+38° 57'	T=40 ^s					20 35	
416-5	NGC 1270	03 16.6	+41° 21'	Cond found it						
416-5	NGC 1700	04 55.1	-04° 54'	T=40 ^s					22 06	
416-6	HR 617	02 ^h 05.1	+23° 18'	T=15 ^s					22 35	
416-7	HR 617	"	"	"					22 49	
416-8	HR 617								22 59	
416-9	HR 617	"	"	"					23 10	
416-10	HR 2473	06 41.8	+25° 10'	T=20 ^s					23 37	
416-11	HR 2097	05 52.9	+20° 16'	T=20 ^s					23 53	
28813	RU CAM HD 56167	07 10.9	+69 51	G40	IIa0L	21 shot	20°F	00 20 ³⁵	01 30	A
28814	HD 83650	09 34.9	-10 07	G40	IIa0b	13	20°F	02 38 ¹³	03 03	B
28815	HD 96314	11 01.1	-26 45	G40	IIa0b	13	19°F	03 13 ²⁵	04 08	C
28816	HD III 226	12 42.6	-24 18	G40	IIa0b	13	18°F	04 15 ⁵	04 24	A

Dome Temp.
Focus 52
Dome Temp.

Hour Angle
End
0^h 05^m W
0^h 58^m W
1^h 3^m W
1^h 43^m W
0^h 58^m W
2^h 5^m W
4^h 30^m W
4^h 43^m W
4^h 51^m W
0^h 41^m W
0^h 47^m W
0^h 59^m W
0^h 13^m W
0^h 51^m W
0^h 3^m W

Dome Temp. 28° F

Focus 52.5

Dome Temp.

Transparency Conditions Excellent - (clouds around horizon)

250

0335 clouds from south Thin clouds after midnight

0424: Snowing but no clouds higher than ~30° above horizon!!

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS							Quality
							H3W	H5W	45	42	41	38	35	
8 24	0h 05m W		5"	2.23	K2 III		A6	A2	A4	A6	A6	B3	B4	
9 07	0h 48m W			12.0	G5		D6	D2	D4	D5	D5	D5	D5	
19 52	1h 19m W			12.6	G4		D6	D2	D4	D5	D5	D5	D5	
20 35	1h 43m W			10.48	G5		D6	D2	D4	D5	D5	D5	D5	
22 06	0h 58m W			12.1	G4		D6	D3	D4	D5	D5	D5	D5	
22 35	4h 16m W		5"	2.23	K2 III		A6	A2	A4	A6	A6	B3	B4	
22 49	4h 30m W			"	"		"	"	"	"	"	"	"	
22 59	4h 42m W						"	"	"	"	"	"	"	
23 13	4h 51m W													
23 37	0h 41m W		9"	3			B3	A4	A6	B3	B4	B5	B6	
23 53	0h 47m W						B5	A6	B3	B4	B4	B4	B5	
01 30	01 59 W	+69° 45'	1	9.5	K0	15-30	Densers <u>OK for counting?</u> 1800/30 13					fine		
03 03	01 13 W	-10° 23'	1	6.2	B9	15-15-15	B8-B9 (SB) <u>counting</u> much too cloudy 400/30 10					fine		
07 08	00 51 W	27 04	0	5.6	B8	15-16-15	B8-B9 (SB) <u>etc</u> (0335 night cloud) 400/30 8					lweak		
08 24	00 34 E		0	7.1	B9	15-30	B8-B9 (SB) <u>snow!</u> 400/30					to want		

251

23/24 Sun/Mon - 00:30 EST Shutters would not open. MCL

Date MON/TUES 24/25 JAN '66 Observer ^{DR} ^{RC} MCL M. S. Julian 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.
28817 ⁶	HD 3765	0 ^h 35.3	+39° 46'	G40	Ilford 6	17	18°	18 08	19 ^h 08	A
417-1	HR 617	⁶⁵ 02 ^h 05.1	⁶⁵ 23° 18'		T = 15 sec			middle →	19 ^h 34 ^m	
417-2	NGC 890	" 2' 19.9	" 33° 07'		50 sec			end →	20 ^h 28 ^m	
417-3	NGC 1023	2 38.0	38° 57'		40 sec			4 ^h 20 ^h 37 ^m		
28818 ⁷	HD 58599	7 21.2	+11 12	G40	Ilford 6	13	13°F	01 10	1 56	B
28819 ⁸	HD 58661	7 21.5	48 24	G40	Ilford 6	13	12°F	2 03	2 21	C
28820 ⁹	HD 83650	9 34.9	-10 07	G40	Ilford 6	13	12	2 29	3 21	A
28821	of Vix (SPICA)	13 20.1	-11 16	G10	Ilford	9		3:40	~ 3:45	C
28819T	Calibration Slip Wedge	for plates 28813-19								

Dome Temp.
Focus 50
Dome Temp.

Hour Angle
End

W 2 30
1 25 W
2 04

W 2 24

W 2 53

W 1 42

E 1 36

Dome Temp. $14^{\circ}F$
 Focus 50
 Dome Temp. 10

Transparency Conditions *Excellent*

0300 - partial clearing after midnight
 - thick cum. in west

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality						
7:28	A	W 2 ^h 26	40° 04	1	8.2	K5	15-15-15	std. val.	fine						
19:34		mid. 1 ^h 25 ^m W		8 ¹¹	2.23	K2 II		HBW R6	HBW R2	45 R4	42 B6	41 B6	38 B3	35 B4	
20:24		end 2 ^h 04 W ✓			12.6	G4		D6	D2	D4	D5	D5	D4	D4	
								D6	D2	D4	D5	D5			HA OK Endig Tue?
								Clouds!!!!							
19:56	B	W 2 30 + 11	06	0	6.26	B8	15-15-15	B8-139	(EXP. PLATES 500/60 IN UNEXP. BOX #1 ")					strong	
20:24	C	W 2 53 48	17	0	5.55	B9p	15-15-15	B8-139						fine	
20:34	A	W 1 42 -10	23	0	6.2	B9	15-15-15	B8-139	#20 / 3 counts 800/50					fine	
20:45	C	E 1 ^h 36			-0.24	B10	45								
		clouded in while setting on SPICA - G10 camera in pos'n.													
															what has happened to the small flashlight?

253

Date TUES/WED, JAN 25/26 1966 Observer Cm - mce ^{Av} _{Mce} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
28820	HD 3765	00 35.3	+39 40	G40	IIaOb	17	8°C	19 05 ⁴⁵	19 35	A	02 58 W
28821	HD 22298	03 30.3	+54 50	G40	IIaOb	17	5°F	19 45 ³⁵	20 55	B	01 21 W
28822	HD 37318	05 32.6	+28 24	G40	IIaOb	17	5°F	21 02 ⁵⁵	22 52	C	01 17 W
28823 288237	HD 49787 Calibration by Wedge 1965	06 45.0	-05 24 1965	G40	IIaOb	17	3°C	23 00	23 44	A	00 58 W
								MID			MID
418-1	²⁹⁹⁰ HR 2421	7 43.2	28 07								W 0 26
-2	NGC 2549	8 16.1	57 55								-
-3	" 2768	09 09.0	+60 12					0132			0025 W
418-4	HR 2990	7 ^h 43.2	+28 07				+1°F	0212			0231 W
" -5	" 3800	9 ^h 32.1	+36 33					2 36			W 0 07
-6	NGC 3384	10 45.7 ¹⁹⁵⁰	12 54					3 17			W 0 34
-7	HR 2990	7 43.2	28 07					0414	END		0437 W
-8	"	"	"					0421			0501 W
-9	NGC 4258	12 17.3	47 30				-1°F	0451			0037 W
-10	" 4736	12 49.4	41 18					0531			0047 W
-11	NGC 5055	13 14.3	42 12				-2°F				

Dome Temp. 80°F
 Focus 48/47/46
 Dome Temp.

Transparency Conditions EXCELLENT

254

00:30 - heavy clouds over lake moving almost due west

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality					
9:35	A	02 58 W	+40 02	0	8.2	L5	15.15-15.15	field checks 800? about 90	fine					
0:55	B	01 21 W	+55 04	0-1	8.20	B2 ₂ [IV-III]	15-15-15	field checks. 800/40	fine					
22:52	C	01 17 W	+28 26	0-1	8.84	B0.5 ₂ [III-III]	15-15-15	field checks. 800/50	fine					
3:44	A	00 58 W	-05 27	0	7.49	B1V:pe	15-15-15	800/30	fine					
		MID												
								M3N						
								HBW						
								45						
								42						
								41						
								38						
								35						
06		W0 26			1.21	K0 III		A4	A1	A3	A4	A4	A6	A6
					12.2	G4		D6(5 [?])	D2	D4	D5	D5	D4	D4
		00 25 W			11.2	G5		D6(5)	D3(2)	D4	D5	D5	D4	D4
		02 31 W		15 ^s	1.21	K0 III		A4	A1	A3	A4	A4	A-6	A6
		01 07		10 ^s	4.62	G8 III		B5	A6	B3	B5	B5	B6	C2
		00 34			10.9	G5		D6	D2	D4	D5	D5	D4	D4
		04 34 W	END		1.21	K0 III		A4	A1	A3	A4	A4	A6	A6
		04 41 W			"	"		"	"	"	"	"	"	"
		00 37 W			8.90	G0		D6	D2	D4	D5	D5	D4	D4
		00 44 W			8.91	G0		D6	D2	D3	D5	D5	D5	35 D5
					9.26	F8		D6	D2	D4	D5	D5	D4	D4

Dome Temp. $-2^{\circ}F$

Transparency Conditions EXCELLENT! 256

Focus

Dome Temp.

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

MID
WZ 07

4.3 G05

H3N HAW +5 42 41 38 35
B4 A5 B2 B3 B3 B4 B4

Dome Temp. 7°

Transparency Conditions

258

Focus 47.4

Dome Temp. ~~was~~

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 39	A	W 0 50 ^m	+14 59.	0	5.69	B8	15/15/15	B8-B9	400/30 fine
22 11	C	W 1 20	+14 56.9	0	5.95	B8	15/14/15	"	400/31 fine
22 45	B	W 1 55 ^{alt}	+01 34	0	6.16	B8	15/30	" <u>clouds</u>	400/10 1 week

259

Date *T. Lura - Fri 27/2 Jan* Observer *Lu - HV* Julian Day *DB*
use use

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28827	HD 3765	0 35.3	39 40	G40	IIaOb	17	9°F	18 06	18 46	A
28828	HD 33461	05 05.3	+41 06	G40	IIaOb	17	6°F	20 09	21 24	B
28829	HD 42259	06 04.6	-05 05	G40	IIaOb	17	5°F	21 32	23 32	C
28830	BD 45° 1859	10 38.3	45 12	G40	IIaOb	17	0°F	23 43	02 03	A
28830 T	Calibration Step Wedge	for plates		28827-30						

Dome Temp.

Focus 42/47

Dome Temp.

Hour Angle
End

2 2/4

W 24 1

W 11 35

002857

Dome Temp. 10° F

Focus 4.8/4.7/4.5/

Dome Temp.

Transparency Conditions very clear very windy (NW)!!! 260

IMPOSSIBLE TO WORK WEST OF MERIDIAN



00.30 some auroral activity

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 46 A	02 21	40 03	1	8.2	K5	15-30	std. vel. clear but snow falling! thin clouds	lweath
							Closed shutter 18" 50" - 20"	Snow
01 24	W 00 24	41 12	1	8.05	B2V	15-15-15	Considerable image motion Telescope very unstable.	fine
01 32	V14	35 05	0.1	8.87	B0.25	15-15-15	ln Be	fine
02 03	0028E	44 53	0	9.59	F4	15-15-15	Hd KAT'S FIELD focus 45" DRAWN	lweath
							0230 LIGHT SNOW (w wind turning down) Too WINDY!!	

261

mse

Date 28-29 Jan/66

Observer Ri -

Julian Day

FRI - SAT

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
28831	HD17929	2 47.8	68 25	G40	Ilab	17	4°F	18 10	18 54	C	WD 136
28832	HD26670	4 08.1	61 36	G40	Ilab	13	4°F	19 01	19 13	A	EO 436
28833	HD27026	4 11.2	41 54	G40	Ilab	13	4°F	19 17	19 31	B	EO 324
28834	HD27742	4 17.6	+20 45	G40	Ilab	13	4°F	19 35	19 49	C	EO 202
28835	HD27777	4 18.0	33 54	G40	Ilab	13	4°F	19 51	20 05	A	EO 84
										B	
										C	
28835 ¹	focus test			G40	Ilab	13	4°F			B	

Dome Temp.

Focus 47

Dome Temp.

9:00 clouds in N, W, & S - UNSETTLED. 262

Dome Temp. 9°F
 Focus 471
 Dome Temp.

Transparency Conditions very good (+ very little wind)

note: 1812 appears to be the earliest possible plate time
 time, now.

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 54	C	ND	13 68 43	0	8.1	B8	15-15-15	(Fornix) clouds #800/40	
9 13	A	EO	43 61 47	0	5.59	B8	15-15-15 B8-B9	#400/30	guiding
9 31	R	EO	32 42 05	0-1	6.07	B8	15-15-15 B8-B9	#400/30	guiding
9 49	C	EO	20 20 56	0	5.87	B8	15-15-15 B8-B9	(replaced 6 F used) #400/30	fine
10 05	A	EO	04 34 05	0	5.53	B8	15-20 B8-B9	clouds #400/18	guiding
								shutters closed 8:30	
								5/5 610 fites	O.K
								closed up completely 2300	

263

Date 29/30 JANUARY

Observer

Rg
Al

Julian 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.
28836	HD 23324	03 ^h 39.2	+24° 32'	G40	IIaOb	13	8°	18:11 ²⁰	18.51	C
28837 ^h	16 Tau	03 ^h 38.8	+23° 58'	G40	IIaOb	13	8°	18:59 ⁹	19.17 ²⁰	A
28838	"	"	"	"	"	"		19.19 ¹¹	19.41	B
28839	17 Tau	03^h 38.9	+23° 48'	"	"	"				
28838F1	Focus test			G40		13	8°			C
28838F2	"			"		"	"			A
28838T	Calibration	Step Wedge			for plates 28831-35					

Dome Temp.

Focus 4

Dome Temp.

Hour Angle
End

00 34E


00 09E

00 15W

Dome Temp. 12°
 Focus 49
 Dome Temp.

Transparency Conditions POOR (HAZE)
 19:30 - 1st mag. stars obscured by haze

Ending Time
 E.S.T. P.M.
 18.51 C
 19.17 A
 19.41 B
 C
 A

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 34 E	$+24^{\circ} 45'$	1	5.6	B8	15-15-15	B8-B9 SPEC. BINARY  ^{should be OK (H₂)}	800/60 fine
00 09 E	$+24^{\circ} 08'$	1-	5.5	B7IV	15-15-15	NK STANDARD (1/2 N)	800/30 fine
00 15 W	"	0	"	"	22-	" Thick haze (1/4 N)	800/15 ^{scattered moonlight} poor
						Side up! Focus 49	shutter fogged? O.K.
						→ RED CAUTION LIGHT (PLATE, EXPOSURE METER CAPPING) BURNT OUT	
						<u>FIXED</u>	

Dome Temp. 27°F

Focus 54/

Dome Temp. 22°F

Transparency Conditions Considerable cloud

19^h - East half of sky cloudy

- considerable haze

- moon nearly full.

20^h - more clouds

266

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 03	01 45W	6.8 42	1-2	8.1	B8.	15-15-15	Fernie 800/35	fine
21 19	01 33	5 17	2-3-4	4.2	A2V	15-15-15	Yip Eg. with UNUSUAL SMALL IMAGE!! 200/203	fine
							21 ^h <u>CLOUDS</u>	
							Closed up 21 30	

PH B7C loaded in N pin.

267

Date February 1/5 1966

Observer ^{ai} Re / Re

Julian 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.
28841	HD 16219	02 ^h 31.1	+39° 27'	G40	IIaOb	13	21°	19:12 ¹⁶	19.44	C
28842	RU Com	07 ^h 10.9	+69° 51'	G40	IIaOb	17	21°	20.06	22.34	A
28843	α CMi	07 ^h 36.7	+05° 21'	G10	IIaO	9	17°	22:51	22.59	C
28844	"	"	"	"	"	"	"	23:09	23.25	C
28844F				Focus	4L	G10				A.
28845	HR 3745	09 ^h 22.4	-28.21							
28845	BD 45° 1859	10 ^h 38.3	+45° 12'	G40	IIaO	17	16°	2 ^h 21 ⁹⁶	3 ^h 33	B
28846	HR 2453	13 ^h 44.4	-28° 35'	"	"	17	12°	3 ^h 55 ³⁵	5 ^h 04"	C
28847	HD 131861	14 ^h 50.9	+45° 43'	"	"	13	12°	5 ^h 22 ³⁹	6 ^h 40	B
28844T	Calibration Step Wedge for plates					28843-44				
28847T	Calibration Step Wedge for plates					28841-42; 45-47				

Dome Temp.

Focus

Dome Temp.

Hour Angle End

Hour Angle

00:01 E

00:06 W

00:31 W

02:11

03:00

03:11

Dome Temp. 22°F

Focus 53.3/52.5/51

Dome Temp.

Transparency Conditions 19.00 Poor

268
 Rather thick cirrus drifting.
 clearing up?

2000 clear

Ending Time EST.	PA	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
9 44	C	1 ^h 50 ^m W	39° 46'		5.6	B8	6.5-5-15	B8 B9 Sp. Bin	400/20	fuzzy edges, fine
12 34	A	00 01 E	69° 44'	1+	9.5	K0	15-30	Demers' (Focus 52.5)	800/132	l weak
22 59	C	00 06 W	+05° 21'		0.5	F5 IV	18-18	Equivalent width (g-n)	40/40	fine
23 25	C	00 31 W	"		"	"	18-18		40/70	strong
	A							Some trouble from 610 → 640. Not full dew spec. fixed back in now. - couldn't find -		O.K.
5 32	B	1 ^h 24 W	+45° 52'	2	9.59	F4	15-15-15	Focus 51 KA FS	800/120 ⁴⁰	l weak
5 30	C	0 ^h 00	-28° 51'	low dew rate	6.5	B9	15-15-15	" 50 B8 B9	800/102	fine
5 30	C	0 ^h 27 W	+45° 28'	1	7.64	F3	15-15-15	" 1 KA FS	800/120 ⁵⁰	fine

Dome Temp. 14°F

Focus 49.5

Dome Temp.

Transparency Conditions ... clear - full moon ...
cirrus in south

270

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 49	A	00 47E	+11° 11'	0-	5.79	B8	15-15-15	B8 - B9 400/30	fine
13 19	B	00 27E	+17° 59'	0	6.19	B8	15-15-15	B8 + B9 probably exposed close double pin 400/30	fine
19 4	C	00 13E	+23 35	0	6.12	B8	15-15-15	B8 - B9 400/30	guiding
20 31	A	01 13W	+39' 58"	0	6.21	B8	15-15-15	B8 - B9 400/30	fine
20 52	B	01 06W	-03° 14'	0	5.89	B9	15-15-15	B8 - B9 400/30	fine
21 15	C	00 54W	-08 40	0	5.62	B8	15-15-15	B8 - B9 400/30	guiding
21 54	A	01 22W	-18° 32'	0-	6.12	B8	15-15-15	B8 - B9 400/30	l weak
22 24	B	01 52W	-18° 31'	0	6.31	B8	15-15-15	B8 - B9 400/30 ¹⁹	l weak
22 47	C	01 52W	-18° 32'	0-	5.73	B9	15-15-15	B8 - B9 400/30	fine
23 15	A	01 03W	-20 31	0-	5.6	B8	15-15-15	B8 - B9	fine
23 45	B	01 07W	-25' 07	0-	5.5	B9	15-15-15	B8 - B9	fine
00 37	C	0 50W	-20 48	0	6.4	B8	15-15-15	B8 - B9	fine
03 10	A	1 18W	45 02	0	9.76	K5	15-12-15	KAFS lunar (circus bands) after 25 counts 800/43	l weak guiding

EXP. MTR. FRANK -
BEGAN COUNTING
DURING IRON ARC

Light Clouds from 2.30 on
Star gone at 3.19
(-expect PMT, shutter didn't close)
(-closed by jiggling knob.)

Dome Temp. ... 15° F

Focus ... 5.10

Dome Temp.

Transparency Conditions *Clouds only then haze
more clouds* 272

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2015 8			0	.56	198	15-	Taken through tubes in clouds had to stop at 3.5 (out of 15 required) counts because of clouds. Three plates away	
							closed up completely: 0 H. 0	

273

Date Wed Thurs Feb 9-10/56 Observer Hd Eng - NYC - M.S.E. Julian 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.
28861	52 Tau	04 22.6 ¹⁹⁵⁰	+17 48.9 ¹⁹⁵⁰	G10	IIaO ^{1/2}	9 ^{XL}	30.0	18 17 ⁸⁰	20.56	ntc A
28862	α Cmi	07 36.7	+5 21.	G10	IIaO	9 ^{XL}		21 11 ⁴	21 21	B
28863	"	"	"	"	"	"	30	21 28	21 38	A
28864	^{RU Cam} HD 56167	07 10.9	+69 51	G40	IIaO	17S	30.0	22 01 ⁸⁸	0 17	B
28863 T	Calibration Step Wedge for plates 28861-63									
28864 T	Calibration Step Wedge for plate 28864									

Dome Temp. _____
Focus _____
Dome Temp. _____

Hour Angle
Ecl _____
_____ 34 W +
81.5
50.58
22 40.6

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

Poor

274

very heavy
cirr. band off SE of the
midnight

fog

Ending Time EST.	PR	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 56	A	h 34 ^m W	+17 ⁵⁵ 50.8	0	4.2	A2V	15-15-15	Ey. mag. + (forgot to write # on plate)	200/200 fine
2 21	B	E 15 ^m	+5 20	0	0.5	F5IV	20-20	Very hazy	40/43 fine
2 38	A	0 58 ^m	"	0	"	"	20-20		40/40 fine
0 17	B	24 00	69 45	0	9.5	K0	15-15-15	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> IMPOSSIBLE TO BR4 EXP INTR - HUMID. </div> STAR NO LONGER VISIBLE	300? d.w.

Apparently in reaching 70° S,
 with this humidity, in
 turning the table over a few
 drops of condensation landed
 on the mirror.

11 Feb/66 G40
 Plateholder, a, B left loaded in N. Pier

275

Date Saturday 12 Feb, 1966 Observer H.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
28865	HD 83650	09 ^h 34 ^m .9	-10° 07'	G40	IIaOb	13	32	00 55 ¹⁵	01 30	A	01 01W-
28866	HD 96314	11 01.1	-26 45	G40	IIaOb	13	32	01 41 ²⁰	02 21	Z	03 26W-
28867	HD 92728	10 37.4	+57 43	G40	IIaOb	13	32	02 23 ¹⁷	02 53	A	01 21W+
28868	HD 92728	10 37.4	+57 43	G40	IIaOb	13	32	02 26 ⁴⁵	03 30	Z	01 28W+
28869	HD 131861	14 50.9	+45 43	G40	IIaOb	13	30°F	03 46 ¹⁰	05 15	A	00 28E+
28870	HD 142301	15 48.7	-24 57	G40	IIaOb	13	30°F	05 26 ¹⁰	06 06	C	01 21E-
28871	HD 146001	16 08.8	-25 13	G40	IIaOb	13		06 12	06 32	A	00 30E-

Dome Temp. 33°F

Focus 57

Dome Temp. 29°F

Transparency Conditions

Poor after 0115

fair (scattered on star board) 276

[DEC. BUTTON FOR MOTION NORTH, ON WEST SIDE OF PIER NOT WORKING]

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 30	A 01 01W	$-10^{\circ} 23'$	0	6.2	B9	15-15-15	B8-B9 (S.B.) clouds interfering after 0115.	4.0/3.0 fine.
							<u>Clouds</u>	
02 21	B 00 26W	$-27^{\circ} 04'$	0	5.6	B8	15-15-15	B8-B9 (S.B.) several magnitudes absorption	lweak.
02 53	A 01 21W	$+57^{\circ} 24'$	0	5.8	B9	15-15-15	B8-B9 (S.B.)	fine.
03 30	B 01 58W	$+57^{\circ} 24'$	0	5.8	B9	15-15-15	" "	strong.
05 15	A 00 28E	$+45^{\circ} 26'$	0+	7.64	F3	15-15-15	KAFS BINARY	fine.
06 06	B 00 36E	$-25^{\circ} 05'$	0+	6.2	B8	15-15-15	B8-B9 (SB)	fine.
06 32	B 00 30E	$-25^{\circ} 21'$	0	6.7	B9	15-15-15	B8-B9 Prog.	lwk.

Ph A and C were found loaded — one in cupboard and other
 either on counter in north pier. Ph B could not be
 found — a poor way to leave things. [H5]

277

Date Feb 12 - Johnson - 1966 Observer R.C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28871	H 028459	21 ^h 20 ^m 2	+32 ^o 2	G40	IIaD	13	32 ^o	18 ^h 40 ^m	19 ^h 00 ^m	A
28872	H 028503	4 ^h 24 ^m	+39 ^o 48	"	"	13	31 ^o	19 ^h 11 ^m	20 ^h 10 ^m	A
28874	H 039286	5 ^h 46.5 ^m	+19 ^o 30	"	"	"	"	20 ^h 21 ^m	21 ^h 06 ^m	C
28874T	Calibration Slip Wedge for plates 28865-74									
	Feb 14 1966		Cu.		Cu, Hd, L removed G40,					
28874 F1	Focus Test: In-L / Out-Out			G40	IIaD	13	29 ^o	Focus	57	A
F2	"			"	"	13	27 ^o	Focus	45	A
F3	"			"	"			Focus	47	B
F4									49	C
F5									51	A
F6									53	B
F7							26 ^o		51	C

Dome Temp.
 Focus
 Dome Temp.

Transparency Conditions *Several rays of absorption*
- Intermittent cloud - had haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	$0^h 16^m \frac{E}{W}$	$32^{\circ} 21'$	0	6.15	B7	15-15-15	focus 57 temp 32.	guiding
2340	$0^h 56^m W$	$39^{\circ} 58'$	0	6.21	B8	15-15-15	focus 57 exposure meter used stay balanced.	fine
1100	$0^h 29^m W$	$19^{\circ} 53'$	0	5.98	B9	15"	B8-B9 focus 57 haze thickened into cloud	fine
in — attempt to correct doubling in the dispersion								
640,	re-aligned mirror and put in a new B4L grating.							
57	A					$25/25$	B40 filter	wk c to v
45	A					$5/5$	G10 filter	
47	B					"	"	
40	C					"	"	
41	A					"	"	
53	B					"	"	
51	C					"	"	
							Best focus but lines double	

279

Date Feb 14-15 1966 Observer Cn, L, Hd, ^{Stevenson} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
	Test of guiding device			19 ^h		22 ^h					
	<u>Feb 15 1966</u>			Cn, L, Hd, L							
28874F8	Focus Test	In-2	10 ^h 1 ^m 10 ^s	240	Ilad	13	20° F			B	
F 9	Focus Test					13	25°			A	
F 10						13				A	
F 11						13				B	
F 12						13				C	
F 13						13				D	
F 14						13				B	
F 15	Focus Test					13				A	
F 16	Test.	Full	Aperture			13				C	
F 17	Focus Test					13				B	
18	Focus Test					13				A	
19	Focus Test					13					

Dome Temp.

Focus

Dome Temp.

Hour Angle

End

Callen

- down
lines

L

Remind

Dome Temp.

Transparency Conditions *Poor - some cloud all night*

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							<i>Removed R40, re-aligned corrector & mirror in & out of telescope.</i>	
B		Focus	51			7/7	<i>R40 filter</i>	
			51			7/7	"	
			38			7/7	"	
B			40			7/7	"	
C			42			7/7	"	<i>Best Focus</i>
A			44			7/7	"	
E			46			7/7	"	
			42			7/7	"	
L			42			7/7	"	
B			42			7/7	" <i>held-down. One camera screw loosened.</i>	
			42			10/10	<i>Loosened corrector screws.</i>	
			42			10/10	<i>Removed new grating & replaced with old one. Found new grating had been punched by ring of concrete plate</i>	
			42			10/10	<i>Very much C to me</i>	

Call very bad - double lines

F20	T	slit	setting	PH
	25°F	13	52	A
21			55	B
22			58	C

OK

283 PH 'c' loaded in n. pier

Date 16-17 Feb/66 Observer (Hd) Mse Julian Day
(Wed - Thurs)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28876	BD 45° 1859	10 38.3	45 12	G40	East	17	24.0	16 ⁴²	2 20	C
28876 F ₁	four tent in m / out and over				East	13	20 ⁰			C
							20			

MS

Dome Temp. 2

Focus 17/8

Dome Temp.

Hour Angle
Ecl

01/06

Dome Temp. 25°F
 Focus $17/5\text{R}$
 Dome Temp. 24°F

(heavy clouds over observatory)
 Transparency Conditions 2.84
 good after midnight
 strong NW wind.
 0100 - wind is better

Ending Time E.S.T.	P.L.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	C	W1 06	44 53	0.9	9.59	F4	15-15.15	KAFS- ^{FIELD DRAWN} focus 57 hyp. meter not really working OK in centre c to avoid in v. hot & red. SUGGEST SOME ATTENTION IS NECESSARY. focus 56.72 0200: $7\frac{1}{2}$ mag absorption over all sky 0215 - solid overcast	

285 *PH* *loaded*

Date *17-18 Feb/66*
Thurs - Fri

Observer *Mse - Hs* Julian Day *Mse*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28877	HD67725	8 4.2	-11 3	G40	IIa06	13	15° F	22 22 ¹³	22 48	C
28878	HD83650	9 34.9	-10 07	G40	IIa06	13	15	22 53 ¹³	23 19	A
28879	BD45°1859	10 38.3	45° 12	G40	IIa06	17	14/10	23 26 ⁸³	02 12	B
28880	HD131861	14 50.9	45 43	G40	IIa06	13	10	3 14 ⁴⁵	4 44	C
28881	HD131861	14 50.9	45 43	G40	IIa06	13	8	4 45 ¹¹	5 06	A
28881 F ₁	<i>focus test in in/out</i>				G40	IIa06	13			B
28881 T	<i>Calibration Step Wedge for plates 28877-81</i>									

Dome Temp.
Focus *54/5*
Dome Temp.

Hour Angle
Ecl
E0 10-
E0 46-
0103W 4
E0 354
E0 13-

Dome Temp. 17.0 F

Focus 54/53 1/2 / 52 / 51 1/3

Dome Temp.

Transparency Conditions good after 10:00 ²⁸⁶

strong w wind

5:00 - > 4! mag. absorption

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 48 C	00 14	-11 13	0	6.23	B9	15-15-15	B8 B9 (prog) focus 54	plate fogged
2 19 A	E0 46	-10 23	0	6.2	B9	15-15-15	B8 B9 (B) focus 53 1/2	fine
02 12	0103 W	44 53	1	9.59	F4	15-15-15	(Hd) KAFS Field OK. (2nd unit)	l weak
4 44 C	E0 35	45 28	0	7.64	F3	15-15-15	(Hd) KAFS focus 52 #800/22?	fine
5 06 A	E0 13	45 28	0	7.64	F3	15	Hd KAFS focus 51 1/3 - clouds during exp	very weak
						7/7	Gr LD plates	slender to violet
							STAR NO LONGER VISIBLE	
							- adjusted exp. meter	
							plates 28879 + 28880	
							- intermittent clouds after 02:00 [POOR]	

289

Date Feb 19/20 1951 Observer R. McC. 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.
28882	R.U. Cam	7 ^h 10. ^m 4	+69 ^o 06'	G40	Ilford	17	7 ^o F	19 ^h 32'	20 ^h 39'	A
28882	HD 33461	5 ^h 05. ^m 3	+41 ^o 06'	G40	Ilford	17	4 ^o F	19 ^h 32'	20 ^h 39'	A
28883	HD 40737	6 ^h 20. ^m 6	+2 ^o 19'	G40	Ilford	17	2 ^o F	20 ^h 52'	21 ^h 25'	B
									middle	
419-1	HR 2990	07 43.2	+28 07				800	✓	22 ^h 02	
419-2	NGC 2403									couldn't find it
419-2	NGC 2950	09 40.3	+59 01				T = 40 ^s		22 59	
419-3	HR 3800	09 32.1	+36 33				T = 20 ^s		23 43	
419-4	NGC 3226	10 ^h 21. ^m 6	+20 ^o 04'				T = 60 ^s	{ after first set → 0 ^h 41 end → 1 ^h 13		
419-5	NGC 3227						T = 60 ^s		end → 1 ^h 46	
419-6	HR 2990	07 43.2	+28 07				T = 10 ^s	middle	2 ^h 05	
419-7								end of 2 nd set	2 25	
								3 rd set	2 34	
								4 th set	2 40	
								end of 5 th set	2 50	

Dome Temp.

Transparency Conditions *Excellent*

290
1-25

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							<i>found star but also tail illumination would not work - ditto Key</i>	
<i>20 39</i>	<i>A 11^h 10^m</i>	<i>+41° 13'</i>	<i>0"</i>	<i>8.05</i>	<i>B2: I. m. 15-15</i>	<i>15m-3e</i>	<i>focus 50</i>	<i>800/27</i>
<i>21 25</i>	<i>A 11^h 43^m W</i>	<i>2° 19'</i>	<i>0</i>	<i>6.26</i>	<i>B9</i>	<i>15-15-15-138-09</i>	<i>focus 49</i>	<i>800/45</i>
							<i>H311 H3W 45 42 41 38 35</i>	
<i>22 02</i>	<i>0^h 01^m E</i>		<i>10"</i>	<i>1.21</i>	<i>K0 III</i>		<i>A5 A1 A3 A5 A5 B2 B2</i>	
<i>22 59</i>	<i>01^h 00^m E</i>			<i>11.9</i>	<i>G2</i>	<i>Sap</i>	<i>D6 D3 D5 D6 D6 D5 D5</i>	
<i>23 43</i>	<i>00^h 08^m E</i>						<i>B5 B2 B4 B5 B5 B6 C2</i>	
<i>00 4</i>	<i>00^h 00^m</i>			<i>12.6</i>	<i>G2</i>	<i>E2</i>	<i>D6 D3 D5 D6 D5 D5 D4</i>	
<i>1 13</i>	<i>00^h 32^m W</i>							
<i>1 46</i>	<i>01^h 06^m W</i>			<i>11.3</i>		<i>J6</i>	<i>D6 D3 D5 D5 D5 D5 D4</i>	
<i>2 05</i>	<i>04^h 03^m W</i>			<i>1.21</i>	<i>K0 III</i>		<i>A5 A1 A3 A5 A5 B2 B2</i>	
<i>2 25</i>	<i>04^h 22^m</i>			<i>"</i>	<i>"</i>		<i>- one hole clipped</i>	
<i>2 34</i>	<i>04^h 31^m</i>						<i>- wrong gains</i>	
<i>2 43</i>	<i>04^h 43^m</i>						<i>- good</i>	
<i>2 50</i>	<i>04^h 48^m</i>							

293

Date Feb 21/22

1966 Observer

Cm
Db

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28885	HD 30122	4^h 39.7	23° 27'		IIa06	13				A
28884 F1	Focus Test	Cent Cent / D	D	D	IIa06	13	10°			A
<p style="text-align: right;">partly clear 21^h</p> <p>Dr Poeddy, Mt + Scarborough College students showed Jupiter + <u>Sirius</u> TB </p> <p>21^h 30^m started to snow - cloud up.</p>										
		Feb 23 1966		Cm						
28881 F2	Focus Test	Cent-Cent / D	D	D	IIa0B	7	17°			
F3	"	"	"	"	IIa0	7	17°			
T1	sky	11 ^h EST	0-30°		IIa0	7	17°			4 sec
T2	sky	11 ^h L	0 ^h		IIa0	7	17°			8 sec

Dome Temp. 15° F

Transparency Conditions 0

294

Focus 10(10) 52

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
A				6.12	B8		focus 52	800/60
A				6.10 filter		5/5	focus 52	slight violet
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p><u>Merry</u> - One of hooks for 74" merry flaps broke off</p> </div>								
				focus 54.5		7/7	6.10 filter	OK
				focus 53.0		7/7	2.0 filter	logged (OK)
						3 ^s	no filter	Link
						8 ^s	6.10 filter	fine

295

Date Feb 23/24 Observer M.P. - M.S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
28885	HD 23324	3 39.2	+24 32	G40	Ilao	13	25°	19 56	20 12	A	17 26
- 86	^{R.V. Com} HD 56167a	7 10.4	+69 51	"	"	17	26°	21 16	23 46	B	12 23
28887	HD 92728	10 37.4	57 43	G40	Ilao	13	.	0 0	0 17	A	10 26.5
28888	BD 45° 185910	38.3	45 12	G40	Ilao	17	22°	0 25	1 55	C	10 10.4
28888 F,	focus test			G40	Ilao	13	21				
28888 T	Calibration step wedge			for plates		28885	-88				

Done Temp.

Focus 25

Done Temp.

0:30 - quite foggy.

296
P.S.

Dome Temp. 26
Focus 26° (58) 56 1/2
Dome Temp.

Transparency Conditions

Dome turning W. bottom is too stiff!

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 12 P	W2 26	+ 24 45	0	5.6	B8	15/15/5	B8-B9 trione couldn't find 40 225289 1 of mirror cover flaps fell down	400/31 strong
23 46 P	W2.23	+69.45	0	9.5	K0	15/5-15	Dennis eye meter not working - plate holder C slide nearby no comp	fine
0 17 A	E0 26	57 22	0.1	5.8	B9	15-15-15	B8-B9 (SB) broken. 400/30	strong
1 55 c	W1 10	44 53	0.1	9.59	F4	15 30	Hd-KAFS focus 56 1/2 7/7 no fields	weaker & sending very badly out of focus.

297

Date 24-25 Feb/66

Observer Ai -

Julian 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.
28888F ₂	focus test					13	25			A
28889	HD 17929	2	47.868	25	G40 IIaob	17	25	18:40 ²⁰	19:31	C
28890	HD 16219	2	31.139	27	G40 IIaob	13	25			A
28890	HD 23324	3	39.224	32	G40 IIaob	13	25	19:41	19:55	A
28891	HD 51892	6	54.047	27	G40 IIaob	13	25	20:01	20:17	C
28891T	Calibration Step Wedge for plates 28889-91									

Dome Temp.

Focus

Dome Temp.

Hour Angle
Ecl

62 37

62 42

60 41

Dome Temp. 32°F

Focus

Dome Temp.

Transparency Conditions *high-speed*
 POOR - clouds from SE
 0700 - high circ moving slowly from S.W.
 (298)

Ending Time E.S.Z.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				8.1			G10 filter focus 57 1/2	slightly
19 31	WZ 3768	42 0		8.1	B8	15-15-15	FERNIE * 800/24	fine
	6.4 B8				B8-B4 (SB)		TELESCOPE IN BALANCE IN R.H. 400/15	
19 55A	WZ 1224	44 0-1		5.6	B8	15-30	B8-B4 (SB) (circus) 400/10	guiding weak
20 17C	EU 4147	42 0		6.3	B8	15-15-15	B8-B4 (SB) clouds 400/5	guiding weak
							wrong star	

* trying semi auto guides

209) H C Coated in 4 piles

[P H B is in the shop for repairs]

Date 26/27 Feb Sat/Sun Observer ai | MCB
Re | Db Julian 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.
28891F	focus test			G40	IIaOb	13	27°			A
28892	HD 23324	03 ^h 32	+24° 32'	G40	IIaOb	"	"	18:35	18:51	C
28893	RUCAM HD 56167	07 ^h 10.9	+69° 51'	G40	IIaOb	19		19:17	21:30	A
28894	HD 44996	06 19.8	-12.55	G40	IIaOb	13	26	21:56	22:25	C
									(middle)	
420-1	HR 2990	07 43.2	+28 07		t = 10 ^s		800V		22:50	
420-2	HR 3454	08 ^h 41.4	+03 31		t = 20 ^s				23:09	
420-3	HR 3800	09 ^h 32.1	+36 23		t = 20 ^s				23:26	
420-4	HR 3815	09 33.7	+35 59		t = 20 ^s				23:42	
420-5	HR 2990	07 43.2	+28 07		t = 10 ^s				00:03	
420-6	HR 3379	10 ^h 46.0	+12 46		t = 40 ^s				00:49	
420-7	NGC 3384	10 45.7	+12 54		t = 40 ^s				01:17	
420-8	NGC 3489	10 58.5	+14 05		t = 50 ^s				01:57	
420-9	HR 2990	07 43.2	+28 07		t = 10 ^s				02:24	
420-10	- - -	- - -	- - -		10				233	

Dome Temp. 3.2

Focus 58.5/57.5

Dome Temp.

Transparency Conditions Excellent

300

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						5-5	focus 58.5	clear
18:57	01:17 W	+24° 45'	good	5.6	B8	15-15	B8-B9 SPEC. BINARY	400/34 guiding
2:30	00 19 W	69° 46.5'	~2"	9.5	K0	15-30	(Exposure meter no good at this level)	800/- fine weak.
22:25	02 ^h 11 ^m W	-12° 55'	~3.5"	5.95	B8	15-15-15	B8-B9 Focus 57.5	400/~20 guiding
(middle)				mm			HBW HBW 45 42 41 38 35	
22:50	01:15 W		~3"	1.21	K0 III		A5 A1/A2 A3 A5 A5 B2 B3	
23:00	00:36 W			4.32	B3 V		B5 A6 B2 B2 B2 B2 B2	
23:20	00 05 W			4.62	G8 III		B6 B2 B4 B5 B5 (B4) C2 C2	
23:42	00 17 W			5.48	G8 IV-I		C2 B3 D5 C2 C2 C3 C3	
01:00	02:29 W			1.21	K0 III		A5 A1/A2 A3 A5 A5 B2 B3	
00:49	00 12 W			10.5	G7 (E1)		D1 D2 D4 D5 D5 D6 D6	
01:17	00:40 W			10.9	G5 (E7)		D6 D3 D4 D6 D6 D6 D6	
01:57	01:07 W			11.3	G0 (E6)		D6 D2 D4 D5 D5 D6 D6	
02:29	4 50						A5 A1/A2 A3 A5 A5 B2 B3	
233	4 55						A5 A1/A2 A3 A5 A5 B2 B3	

THE ENTIRE SOCKET WAS SHINGLED

illumination in top finder not working!

Dome Temp.

Transparency Conditions *Excellent*

302

Focus

Dome Temp.

Ending Time E.S.T. <i>minute</i>	Hour Angle End <i>middle</i>	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	43N	43W	REMARKS	42	41	38	35	Quality
03 03	00 59W			11.5	G3	(Ep)	D6	D3	D5	D6	D6	D6	D6	
04 14	00 35W			11.1	G8	(E2)	D6	D3	D5	D6	D6	D6	D6	
04 4	01 02 W			11.1	G8	(E2)	D5	D3	D5	D6	D6	D6	D6	
05 11	05 49 W			4.62	G8 III	=	B6	B2	B4	B5	B5	C2	C2	
06 01	1 28 W			2.75	K2 III		B2	B3	B5	B2	B3	B5	B6	

303

Date March 2/3 1966 Observer M.F. YP ^{Hd} Mse Julian 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.
28895	68 Tau	¹⁹⁵⁰ 4 22.6	¹⁹⁵⁰ +17 42.9	G10	II00	9 ^{xL}	33F	18 49 ⁹⁰	21 49	note
28896	HD 63112	7 42.1	-12 26	G40	IIa0B	13	33	22 21 ¹⁰	22 52	e
28897	HD 63655	7 44.9	-13 06	G40	"	"	"	23 04 ¹¹	23 38	g
28898	HD 65141	7 57.1	+02 36	"	"	"	"	23 46 ¹¹	0 07	c
28899	HD 89449	10 14.3	+19 59	G40	IIa0b	13		0 12 ⁵	0 22	A
28900	HD 92588	10 36.3	-01 13	G40	IIa0b	13	33 ⁹⁰ F	0 27 ³¹	1 29	c
28900 F ₁	focus test in in/ out out			G40	IIa0b	13	31			A
28901	HD 131861	14 50.9	45 43	G40	IIa0b	13	"	2 04 ⁴¹	3 26	A

Dome Temp. 37

Transparency Conditions

very poor

304

Focus 60 1/2

Dome Temp. 34

Ending Time
E.S.T.

21 49

22 52

23 38

0 07

0 22

1 29

3 26

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 3 50	+17 53	2	4.2	R2V	15/15/15	clouds much of time ✓ Ex. into working only spasmodically EW* our counts 1st 41 mins count = 53 sec 410	fine
W 1 30	-12 34	1	6.37	B9	15/30	B8-B9	good
W 2 15	-13 13	1	6.10	B9	15-15-15	"	fine
W 2 30	+2 26	2	5.5	K3	15-30	std Vel 800/90	fine
W 0 28	+19 41	1	5.3	F5	15-30	std. Vel. (CIRRUS) 800/45	Too strong
W 1 15	-01 32	1	7.4	K1	15-30	std. Vel. mag. absorption 800/24(?)	fine
					5/5	600 filter getting worse (propped in one)	OK
E 1 02	45 27	1	7.64	F3	15-15-15	HD KAFS (clearing again)	fine

~~* RED WARNING LIGHT STAYS ON ALL THE TIME - TROUBLE APPEARS TO BE IN ON 40 CAPPING KNOB. FIXED~~

Sunday, Mar. 6 Overcast (20:30) and threatening to clear. Jupiter visible through thin cloud 115
 (21:50, some snow)

305

light snow beginning 01:30 from

Hb

Date Mar 7/5

Observer Mc - McE
Do Wise

Julian Day ?

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
28902	HD 42708	6 ^h 8.3	-8° 47'	G40	Ilford	17	10°	19 ^h 22 ^m	20 ^h 42 ^m	A
28903	HD 54309	7 ^h 8.2	-23° 41'	G40	Ilford	13	10°	20 ^h 52 ^m	21 ^h 30 ^m	L
28903T	Calibration step wedge for plates 28902-03									
421-1	HR 2930	07 ^h 43.2	+28° 07'				800 Volts		10 ^h 00 ^m	
-2	HR 3454	08 ^h 41.4	+03 31						10 ^h 20 ^m	
-3	HR 3800	09 ^h 32.1	+36 33						10 ^h 46 ^m	
421-4	HR 3815	09 33.7	+35 58						11 07	
-5	HR 3974	10 ^h 05.3	+35° 25'						11 27	
-6	BS 4090	10 ^h 23.7	+34 00						11 56	
421-7	HR 3454	08 ^h 41.4	+03 31						00 16	
-8	HR 3800	09 32.1	+36 33						00 35	
-9	HD 95735	11 01.5	+36 17						1 08	
-10	HR 3454	8 41.4	+3 31						1 25	
-11	"	"	"						01 33	
421-12	HR 4883	12 50.0	+27 44						01 53	
-13	HR 4785	12 32.2	+41 33						02 12	

Dome Temp. -

Focus

Dome Temp.

Hour Angle End

11 22

11 30

11 40

11 50

12 00

12 10

12 20

12 30

12 40

12 50

13 00

13 10

13 20

13 30

13 40

13 50

14 00

14 10

14 20

14 30

14 40

14 50

15 00

15 10

Dome Temp. 18°

Transparency Conditions Very good
- Photometric later

306

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:42	N 12	+8° 44	0	8.22	B3	15-15-15	Ca-Be Focus 55 Exposure 800/ ? <u>not focusing</u>	Lowest
21:30	N 04	-23° 45	0	5.48	B1	15-15-15	Ca-Be Focus 55 OK! 800/25	fine
	middle						43-N 43-W 45 42 41 38 35	
00:00	1h 0.5W		4" <u>1.21</u>		KO III		A4 A1 A3 A5 A5 B2 B3	
00:20	00 23W		4" 4.32		B3 V		B4 B1 B2 B2 B2 B2 B2	
00:46	00 02E		4.62		68 III		B5 B2 B4 B5 B5 B6 C2	
11:07	00 17W		5.48		68 IV V		C2 B3 B5 B6 B6 C2 C3	
11:27	00 05W		4.47		A7 V		B5 A6 B2 B3 B3 B4 B4	
11:56	00 16W		?		F0 V		B6 B2 B3 B3 B3 B4 B5	
00:10	02 20W		4.32		B3 V		B4 B1 B2 B2 B2 B2 B2	
00:35	01 46W		4.62		C8 III		B5 B2 B4 B5 B5 B6 C2	
1:08	W 0 51		~7		M		D2 C3 C5 D2 D1 D2 D2	
1:25	W 3 28		4.32		B3 V		B4 B1 B2 B2 B2 B2 B2	
01:33	03 36W		" "		" "		B4 B1 B2 B2 B2 B2 B2	
02:50	00 12E		5.07		G0 IV		B6 B2 B4 B5 B5 B6 B6	
2:12	00 24W		4.3		G0 V		B5 B1 B3 B3 B3 B4 B4	

307

Date 8 Mar - Tues

Observer

Hb
Mch
Mse

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
421 - 14	HR 4920	12 57	17 38						2 32
- 15	HR 3800	9 32.1	36 33						
- 16	HR 5447	14 33.1	29 54						03 15
- 17	HR 3800	09 32.1	36 33						03 35
421 - 18	"	"	"						03 50
- 19	HR 5511	14 44.5	+02 02						04 06
- 20	HR 5854	15 42.6	+6 32						4 23
- 21	HR 5933	15 54.8	+15 47						4 41
- 22	HR 6355	17 03.7	+12 47						5 02
- 23	HR 6629	17 46.2	+02 43						05 25
- 24	"	"	"						05 45

Dome Temp. 14

Focus

Dome Temp.

Hour Angle

End

00 20

00 30 E

04 48 W

05 02 W

00 07 W

00 43

00 29

01 16

01 35 E

01 16 E

Dome Temp. 14°F

Transparency Conditions

308

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End.	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS						Quality	
2 32	00 20						HBN	HBW	45	42	41	38	35	
							B6	B3	B5	C2	C2	C4	C5	
				4.62	^{C8 III} 4.62		B5	B2	B4	B5	B5	B6	C2	
03 15	00 34E			4.48	4.20		B5	B1	B3	B3	B3	B4	B4	
03 35	04 48W			4.62	C8 III		B5	B2	B4	B5	B5	B6	C2	
03 55	05 02W			"	"		"	"	"	"	"	"	"	
04 00	00 07W			3.76	A0 V		B4	A4	A6	A6	A6	B2	B3	
4 23	E0 43			2.75	K2 III p		B2	A3	A5	B2	B3	B5	B6	
4 41	E0 29			3.86	F6 U		B4	A5	B2	B3	B2	B3	B4	
5 14	E1 16			4.91	A3 U		B6	B2	B3	B4	B4	B5	B6	
05 25	01 35E			3.74	A0 V		B4	A5	A6	B2	B2	B3	B4	
05 55	01 16E			"	"		B4	A5	A6	A6	A6	B2	B3	

30A

Date Wed Jan 9-10/66

Observer ^{HJ} ~~my~~

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
28904	HR 1327	04 11.3	+64 54	F40	II60	13	38 ³⁰	18 51	19 13	A
28905	γ Aur	06 17.2	+49 20	"	"	"	"	19 19	19 35	C
28906	η Aur	04 59.5	+41 06	"	"	"	"	19 41	19 42	A
28907	"						"	19 53	19 53 $\frac{1}{2}$	A
28908	119 Tau	05 56.3	+18 31	"	"	"	37 ³⁰	20 07	20 13	C
28909	"	"	"	"	"	"	"	20 17	20 21	A
28910	56 Ori	05 47.4	+01 50	"	"	"	38	20 28	20 42	C
28911	"	"	"	"	"	"	34	20 47	20 55	A
28912	6 Gem	06 6.3	+22 56	"	"	"	36	21 09	22 17	C
28913	HD 43818	06 13.2	+23 30	"	"	"	30	21 26	21 55	A
								2	2	
28913T	Calibration step Wedge									for plates 28904-13

Dome Temp.

Focus 59

Dome Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions

310

Focus 59 (found it set at 44! who set it so low?)

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 13	W 1 46	+65 05	2	6.08	G5 III	15/15/15	MR Std missed 5 min →	800/40 strong
19 25	Σ 3 m	+49 18	2	6.0	M O Ia	15/15/15	MR Std.	800/42 weak
19 42		+41 07	2	3.17	B3 V	45	" won't count on 400 or 200.	guiding strong
19 53	W 1 41	"	2	"	"	45	"	guiding weak comp
20 07	W 1 35	+18 35	2	4.73	M2 Ib	45	"	800/29 fine
20 21	W 1 42	"	2	"	"	45	"	800/15 fine
20 42	W 1 45	+01 51	2	6.16	H2 II	15/15/15	"	800/4 fine
20 55	W 1 54	"	"	"	"	30/15	"	800/2 fine
21 17	W 2 59	+22 55	"	7.2	M1 Ia	15/15/15	" clouds 1 cont = 100 ^s 22:05-22:10 +1 " = 1 ^h 6 m	800/1 weak
21 30	W 3 30	+23 30	"	6.8	B0 II	15/15/15	" field drawn - check it ✓ - clouds	weak

313

Date Mar 14/15 M.M./C. Observer Re-Mc Db 146 msec Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28914	HD 52348	6 ^h 33.8	-20° 01'	G 40	IIaOb	13	39°	19 ^h 35 ^m	20 29	A
422-1	HR 2990	07 ^h 43.2	28° 07'		12 sec		800V		21 ^h 08'	
-2	"	"	"		12 sec				21 ^h 21'	
-3	HR 3454	08 ^h 41.4	+03 31'		20				21 36	
28915	HD 83650	09 34.9	-10 07'	G 40	IIaOb	13	38	22 ^h 15 ^m	22 ^h 53'	C
28916	HD 92728	10 37.4	+57 43'	G 40	IIaOb	13	37	23 ^h 27 ^m	23 45	A
-28917	HD 92124	10 ^h 36.9	+45° 2'	"	IIaOb	17	37		0 53	A
28917	31 Com	12 46.8	+28 05'	G 40	IIaOb	13	35	01 42	01 57	A
28918	"	"	"	"	"	"	"	01 58	02 05	C
28919	"	"	"	"	"	"	"	02 06	02 10	A
28920	HD 131861	14 50.9	45 43'	G 40	IIaOb	13	34	2 18	03 45	C
28921	HD 143187	15 53.9	+59 12'	G 40	IIaOb	13		03 51	04 16	A
28922	HD 155711	17 08.2	+52 32'	G 40	IIaOb	13	30	4 22	4 37	C
28923	HD 169820	18 21.4	+14 55'	G 40	IIaOb	13		4 45	5 05	A

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

00 42 W

00 36 W

00 49 W

00 06 W

00 27 W

00 14 W

00 20 W

00 27 W

00 32 W

00 04 W

00 28 W

00 21 W

00 06 W

Dome Temp. 44°

Focus

Dome Temp. 30°

Transparency Conditions

clouds at sunset for about 1 hr.
0000 - Poor. As over most of southern half of sky

31.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 29 A	00 42W	-20° 06'	0"	5.9	B8	15-15-15	B8-B9	weak guiding NO EIPM
21 08'	00 36W		4"	1.21	K0 III		H3N H3W 45 42 41 38 35	
2 2	00 49W						A4/A5 A1 A3 A5 A5 B2 B2	
21 11	00 06W			4.32	B3 V		A5 A1 A3 A5 A5 B2 B2	
							B5 B1 B2 B2 B2 B2 B2	
							cloudy in SW, but fading.	
22 53 C	00 27W	-10° 25'	1"	6.2	B9	15/15/15	focus 62, Spect. Binary. B8-B9	Weak
23 45 A	00 14W	+57 22	2	5.8	B9	15/15/15	B2 - " - B8-B9	Strong
0 53 -			2	7.70	K5	15/15	Pause to fix dec. buttons KAFS BINARY	blank
0 53 A	00 20W	+27° 44'	0.1	5.63	G0 III	15/15/15	0:00 sunset MK. STAR. 1X NORMAL	fine
02 05 C	00 27W	"	0	"	"	20/40	" 1/2 X NORMAL	guiding
02 00 A	00 32W	"	"	"	"	150	" 1/4 X NORMAL	fine
03 45 C	00 04W	45 26	0	7.64	F3	15/15/15	SHD/KAFS focus 61	Weak
0 10 A	F0 3 2	+59° 00'	0	6.15	B9	15/15/15	B8-B9 (dte)	fine
37 C	E1 21	52 25	0	6.11	B9	15/15/15	B8-B9 (dte) focus 59	fine
5 05 A	E2 06	14 27	0	6.43	B9	15/15/15	B8 B9 (")	fine

315

Date 15 Mar/66 Tues Observer HB, Hse Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28924	HD170200	18	23.1 +6 08	G40	Ilc06	13		05 09	05 25	C
28925	HD174853	18	47.5 +13 51	G40	Ilc06	13		5 30	5 45	A
28925 F ₁	focus test in in/out out			G40	Ilc06	13				C
28925 T	Calibration Step Wedge for plate									

Dome Temp. 3

Focus

Dome Temp. 2

Hour Angle
End

E1 49

E1 52

Dome Temp. 30

Transparency Conditions ... fair - poor

316

Focus

Dome Temp. 28°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E1 49	40 6° 11' 00"	5.6	B8	15/15	15/15	B8-B9 (SB)	stationary
E1 52	13 57	6.1	39	15/15	15/15	B8-B9 (SB)	fine
						7/7 600 files	center to violet

2902

Dome Temp.

2300

Transparency Conditions

None around Horizon at dusk

Focus

617

20:00 Excellent

Dome Temp.

1577

1691

2473

318

Ending Time EST Local	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS						Quality
	0 ^h 03 ^m W			3.18	GB I b		H _{6N} H _{6W} 45	42	41	38	35		
19 30	0 ^h 03 ^m W			3.18	GB I b		B3 A4 A6	B3	B4	B6	B6		
19 43	1 ^h 11 ^m W			4.62	GO I		B5 B1 B3	B4	B4	B5	B5		
20 10	0 ^h 18 ^m W			1.21	KO III		A5 A1 A3	A4	A5	A6	B2		
20 59	0 ^h 39 ^m W			8.80	F2	Sc III	D4 D2 D4	D5	D5	D5	D5		
21 09	0 ^h 33 ^m W						B4 B1 B2	B2	B2	B2	B2		
22 07	1 ^h 49 ^m W			1.21	KO III		A5 A1 A3	A4	A5	A6	B2		
22 09	0 44 W			9.48		Sb I-II	D6 D2 D4	D5	D5	D5	D5		
0 04	N1 26			7.85	G3		D5 D2 D4	D5	D6	D6	D6		
0 14				1.21	KO III		A5 A1 A3	A4	A5	A6	B2		
1 09	W1 40			10.5	G7		D6 D2 D4	D6	D6	D6	D6		
02 03	0 12 W			8.90	GO	S	D6 D2 D4	D5	D5	D5	D6		
02 18	0 54 W			7.88	G7	E1	D6 D3 D4	D6	D6	D6	D6		
04 19	02 10 W			9.26	FS	Sb II	D6 D3 D5	D6	D6	D6	D6		
04 57	0 ^h 19 ^m W			3.86	F6 II		B4 A5 B2	B3	B2	B3	B4		
05 15	0 ^h 33 ^m E			4.91	A3 IV		B6 B2 B3	B4	B4	B5	B6		

310

Date

16/17 March/66

Observer

mcl
Hd
mf

Julian Day

mcl
m se

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End	
28926	HD 35600	05 20.8	+30 07	540	D40	13	28°	18 59	19 13	A	W 106	
28927	"	"	"	"	"	"	"	19 14	19 20	C	W 119	
28928	3 Mem	06 3.7	+23 08	"	"	"	"	19 25	19 45	A	W 55	
28929	"	"	"	"	"	"	"	19 46	19 56	C	W 117	
28930	HD 48856	06 13.7	+23 19	"	"	"	"	20 07	20 53	A	W 155	
28931	↑ Leo	09 54.9	+08 31	"	"	"	"	21 03	21 36	C	E 102	
	my plate holder is loaded									middle		add
424 -1	HR 2990	07 43.2	+28°07'		800✓	↑ 12S			22 15"		1° 51' W	
-2	HR 3800	09 32.1	+36 33			20S			22 35"		0 23 W	
3	NGC 2903	09 30.2	+21°40'			00S						
-4	NGC 3031	9 51.5	69 18			20S						
-5	HR 2990	07 43.2	+28 07'			12S			00 ^h 59 ^m		4 31 W	
-6	HR 3800	09 32.1	+36 33			20S			01:10		2 30	
-7	NGC 4258	12 17.3	47 30			40S						
-8	HR 3800	9 32.1	36 33			20S			02 14		4 02 W	

Dome Temp. 32

Transparency Conditions Fair → Poor 3:20

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 13	A W 1 06	+30 10	1	5.7	B9 I 6	15-15-75	MK Standard AtgW clouds,	fine
19 20	G W 1 14	"	"	"	"	"	"	fine
19 45	A W 56 ^m	+23 -07	1	5.98	B2.5 I 6	15-15-15	"	l.weak
19 56	C W 1 ^h 07 ^m	"	"	"	"	#5	"	l.weak
20 53	A W 1 55	+23 17		7.0	B9 II	15-15-15	"	l.weak
1 36	C I 1 02	+8 12	1	6.31	M ₂ III	15	"	fine
	reddle						H ₂ N H ₂ N 45 42 41 39 35	
22 15	1 ^h 51 ^m W			1.21	K0 III		A5 A1 A3 A5 A5 B2 B2	
22 35	0 23 W			4.82	G8 II		B6 B2 B4 B5 B5 C2 C2	
							D6 light clouds	
	W 1 49			7.95	G3		D5 D2 D4 D5 D6 D6 D6	light clouds
01 59	4 31 W						A5 A1 A3 A5 A5 B2 B2	
01 11	2 38						B6 B2 B4 B5 B5 C2 C2	light clouds
				8.40	G0		D6 D2 D4 D5 D5 D5 D5	
02 16	4 02 W			4.62	G8 II		B6 B2 B4 B5 B5 C2 C2	

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Date 17 March/66 - Tulsa Observer Mse Julian 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.
28932	HD131861	14 50.9	45 43	G40	IIaOb	13	25° F	2 41 ⁷⁵	4 11	A
28933	HD144579	16 01.5	39 24	G40	IIaOb	13	24	4 16 ⁵⁰	5 16	C
28934	HD161701	17 41.9	-14 42	G40	IIaOb	13	24° F	5 21 ¹⁰	5 41	A
28934 F ₁	focus test in in/umbaut			G40	IIaOb	13	24° F	—	—	C
28934 T	Calibration step Wedge for plates 28926-34									

Dome Temp. 2

Focus 5.7 1/3

Dome Temp. 1.5

Hour Angle
End

W 0 32.4

W 0 32.3

E 0 44.1

Dome Temp. 27

Focus 57 1/3

Dome Temp. 25

Transparency Conditions

fair poor ✓
322

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 11 A	W 0	32 45	27	0-1	7.64	F3	15-15-15 (Hd) KAFS	fine
5 16 C	W 0	32 39	15	0-1	7.2	G.8	15-15-15 std. Vel.	~ 1/2 mag. absorption fine
5 41 A	E 0	44 -14	42	0-1	6.1	B9	15-15-15 BB-139 (SB)	> 1/2 mag " weak
							7/7 G10 filter	DAWN ultraviolet

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Ending Time
E.S.T.

325

326

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AT THE



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