

1

OCT 24 12-1 - 3014'

If centre to violet, increase the micrometer setting. 2

3

1

Dome Temp.

Focus

Dome Temp.

Hour Angle

East

5

Date Fr/Sat Apr 12/13 1963 Observer W.B. Julian Day 243.8132
 0 22 21 33.3 3527.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
256-2454	α Leo	10 06.2	+12 10		4/6/33	20		19:41		
256-2455	HD 75732	08 50.4	+28 28		6/6/33	20		20:01		
256-2456	"	"	"		"	28		20:11		
256-2457	δ Cnc	09 10.3	+15 12		6/6/33	28		20:20		
256-2458	"	"	"		"	"		20:30		
256-2459	θ UMa	09 30.2	+51 52		5/5/33	28		20:42		
256-2460	"	"	"		"	"		20:52		
256-2461	CERES	10 50.0	+24 00		7/5/33	28		21:13	+sky	
256-2462	VESTA	11 32.9	+15 26		7/4/33	28		21:40	+sky 45-40 min	
256-2463	γ UMa	10 57.4	+40 38		6/5/33	28		22:05		
256-2464	HD 97334	11 10.4	+36 01		6/6/33	28		22:28		
256-2465	"	"	"		"	"		22:38		
256-2466	10 CVn	12 43.3	+34 30		6/5/33	28		23:05		
256-2467	"	"	"		6/6/33	"		23:15		
256-2468	HD 115043	13 12.0	+56 55		6/6/33			23:35		
256-2469	"	"	"		"			23:45	+sky	

Dome Temp.

Focus

Dome Temp.

CO₂ in 1845

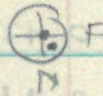
V = 700

Transparency Conditions Fine (clouds low) < T.M. (low) >

Date 24th Nov 1981
 Observer 2030 string NNN wind

Julian Day

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Object	Quality
01.14E		6"	125	B7D	DMK			
0020W		4"	597	AKO	DMK			
0030W		"	"	"	"			
0022W		5"	65	KOV	DMK			
0032W		"	"	"	"			
0025W		8"	319	F610	DMK	windy!		
0035W		"	"	"	"			
0026E		8"	7.1	(92V)				
0042E		8"	6.6	(92V)				
0021W			5.1	92V	DMK			
0026W		6"	6.32	SFG	DMK			
0036W		"	"	"	"			
0029E		6"	5.55	90V	DMK			
0019E		"	"	"	"			
0030E			6.8	90V	DMK	windy!		
0020E		"	"	"	"			



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12/13 Cont

Date Fr/Sat Apr 17/1963 Observer vdB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
256-2470	61 Vir	13 16.5	-18 05		4/5/33	28		00 06		
256-2471	"	"	"		"	"		00 16		
256-2472	70 Vir	13 26.6	+14 50		8/5/33	28		00 28		
256-2473	"	"	"		"	"		00 38		
256-2474	4D 126 53	14 21.3	+01 27		6/6/33	28		00 50		
256-2475	"	"	"		"	"		01 00	+sky	
256-2476	R324 ^{→ this}	14 00.6	+10 24		7/5/33	28	July 29, 64.	01 16		
256-2477	R372	15 41.1	-10 49		7/5/33	28		01 48		
256-2478	"	"	"		"	"		01 58	+sky	
256-2479	AD 144 579	16 03.7	+29 16							
256-2479	2 CrB	15 33.0	+26 51		5/4/33	28		02 30		
256-2480	R402	16 52.0	+42 54		7/4/33	28		02 50		
256-2481	"	"	"		"	"		03 00	+sky	

Sat April 13 166 vis lms. Shaw Mass. Slightly hazy & windy. MK, FL, Holm, I.

8

Dome Temp.

Transparency Conditions Fine but windy

Focus

transparency perfect all night

seeing very poor

Dome Temp.

Thin clouds move in at 245

seeing OK after 0030
wind died down

g Time S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0005E	(seeing 8-15")	10"	4.74	S6V	DMK	seeing very poor	
		0005W			"	"	"		
		0010W		8"	4.98	S5V	DMK		
		0020W		"	"	"	"		
		0021E		8"	6.26	dG3	DMK		
		0011E		"	"	"	"		
		0030W		7"	6.2	S0I or V	DMV		
		0044E		6"	7.2	SdFS	DMV		
		0034E		"	"	"	"		
				6.86	dG8		DMK		
		0008W		2.21	A0V		EXT ST.		
		0054E		6.8	S0V		DMV		
		0044E		"	"	"	"		
								Thin cloud rising from SW	

Dome Temp. 40°

Focus 12.66

Dome Temp.

Transparency Conditions *slight haze*

*Dome flashlight needs new batteries, or
a new flashlight needed.*

10

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 27E	45 26	0	7.64	F3	3-3-	appeared to be somewhat faint but coords check out. [KAFS] Sct 5 12-8 sec, Closed down 1:30 (JMF) 2 P.H. loaded.	fine (link) OK

21

Date SUN/MON APR 14/15 Observer Py - RM Julian Day 2438134
 (SH) @ 24 19 06.4 3523.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26732	HD 6688 HR 3164	7 ^h 59.6	+27°49'	I-12	II00	.008	9°C	19 ^h 52 ^m	20 ^h 31 ^m	#2
26733	HD 74393	8 36.7	+4°42'	"	"	"	"	20^h58^m		
26733	HD 74393	8 ^h 38.7	+4°42'	"	"	"	"	20 ^h 58 ^m	22 ^h 05 ^m	#4
26734	HD 107328	12 ^h 15.3	+3°53'	"	"	"	"	22 ^h 23 ^m	22 ^h 35 ^m	#1
26755	HD 136244	15 ^h 14.5	+60°29'	"	"	"	"	23 ^h 22 ^m	01:30	#2
26736	BD 29° 195 Focus 2.5	14 02.6	+29°45'	"	"	.016	8°C	01.49	04:31	3

13

Date April 15/16 Mr. I. T. ... Observer (MR) S₂ F - F Dm Julian Day 2438135.

0 25 17 50.3 3522.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26737 26737 . 1	α Lyn HD 80493	9 15.0	+34 49	I-2S	II-OB	008	7.100	20 : 01	10 : 05	4
. 2	"	"	"	"	"	"	9.5	20 05	20 47	4
26738	HD 95735	10 52.9	+36 38	"	"	"	9.4C	20 53	01 : 32	1
26739 . 1	HD 114710	13 07.2	+28 20	"	"	"	9.4°C	1.40	1:47	2
. 2	"	"	"	"	"	"	"	1.47	3 : 29	2
26740	HD 159181	17 28.2	+52 20	"	"	"	9.2°C	3.37	3.38	3
"	"	"	"	"	"	"	"	3.38	3.44	"
"	"	"	"	"	"	"	"	3.44	3 : 52	"
26741	HD 162076	17 44.1	+26 36	"	"	"	9.3	4:02	5 : 04	11
26741 F1	Focus Test	Set	15.31	Comp	12.5 C					
26742 F2	"	Set 0	15.34							
		Set 3	15.37							
		. 6	15.40							
		. 8	15.43							
		" 10½	15.46							
VIT April 17/18					Fs Py				Fog	

meteor EW @ 21:45 1st mag.

Dome Temp. 48°
 Focus 15.33
 Dome Temp.

Transparency Conditions good - remittance not
 April 15 Changed to 25" Camera 12 1/2" was Form Tilt 20.35
 14 15.31 Form 15.34 Tilt 23.15

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	3.3	M0	18	F-Co-Mv	Plate black
0 44W	+34 34	"	"	"	6-6-6	net 2/4 (23)	5956 scratched exposure OK
03 48W	+36 12	1	7.6	M2V	6-6-6	" 2MKntd	5981 FINE
	+28.02	2	4.3	G0 V	NONE	"	6026 Ca+ w/r
03 36W		2			6-6-6	net 1/4 (3)	6027 FINE
00 35 E	52° 18	3	3.0	G2 II	NONE	net 3 (2)	6030 Ca+ FINE
					9-7	net 2 (3)	6059 fine
00 2 E					7-7	net 5 (15)	6062 w/r
0 35W	20° 34	2	1.8	2.5	6-6-6	Set 8 (17)	6077 Ca+ fine
						Set 4/6 (24)	6078 Ca+ fine
							6103 complete
							6107 (net 5) found
							6127 *

* Plate loaded upside down? no probably tilted in PH
 Star jumps a lot - image seeing 2
 - drift is V.V. bad, see below
 345 guiding not OK (w.t. + no for W?)
 telescope drifts badly in R.A. -
 drift is off - but in 20"

3 PH loader!

Dome Temp. 46°C (20.30)
 Focus 5.30 11°C (corr'n 0.16)
 Dome Temp.

Transparency Conditions

Poor

16

MR 40 Wilson. 10.10 Chir Lunds
 *^m Discussion

Time T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	4	07W	+34 34	⊙	3.3	MO	6-6-6	F-Ca-Mv set 1 res 4	Ca fine 6135 6160
01	6		+69 30	⊙	4.1	MO II	6-6-6	FCa-Mv Set 6 res 4 20/16 Clouded out at Set 9 res 6 22:30 - clouds Chichemy	Ca wh? 6162 6152
Gerry. Telescope drifting in R.A. - same way									

Dome Temp. $+49^{\circ}\text{F}$ Focus 15.35 11°C .

Dome Temp.

Transparency Conditions Clear Showed mass to 220 visitors!
(3 groups)

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Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05	$03^{\text{h}} 53^{\text{m}} \text{W}$	$+34^{\circ} 24'$	0	5.5	GRV	6-6-6	set 3 F Ca M v sens. 6	6202 6226 Cap. fine
00	$01^{\text{h}} 05^{\text{m}} \text{W}$	$+19^{\circ} 17'$	0	6.0	K1	6-12	set 6 Sporadic clouding over! Sens 6	6226 630 Ca track fine
							Clouded out at $02^{\text{h}} 15$	
							SPH LISTED	

Dome Temp. 44°F

Focus 15.35 $+11^{\circ}\text{C}$

Dome Temp.

Transparency Conditions

Seamy Poor; High Wind ^{NW} 30-35 mph

12:30 Low clouds drifting in from North.

01:00 Cloud building up

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
32	0 ^h 13W	-10 27	-1	6.17	B9	6+6+6	38-39; HK 3846 - Set 4; Suro 6234 16/12 - no outside comparison!	no comparison fine no OTB!
38	0 ^h 47E	+03 35	-1	3.7	M3	6+6+6	F-Ca M ₂ Sling - Set 5; Suro 6238 6262	Ca fine
43	0 ^h 32E	"	"	"	"	6+6+6	" - Set 8, Suro 6264 6267	fine
44	0:06E	+19 17	-1	4.6	G2	6-6-6	" is double ^{two} Set 8 Suro 6269 6281	Ca fine
47	0:17W	"	-1	"	"	6-6-6	" - Set 3 " 6280	fine
48	3:37W	"	-1	6.8	K1 V	6-6-6	" - this is fainter Set 5 Suro 7 6284 20-16 set 9. 6303	Ca wk standard

3 PH loaded

PH #3 will not go into Caprona (the thread is
shipped on the reel
that holds no spring
on)

Film left in Dome.

Had trouble with outside iron arc - Funder Fields are not being drawn!
He fixed it; OK at 23^h15^m EST
Iron Arc Being Up

Dome Temp. 39°F

Transparency Conditions Poor

22

Focus 15.26 +4.5°C

Dome Temp. 34°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0203W	+9° 42'	0	5.9	K1 IV	6-6-6	set 3 F Ca Emission	6306 6330 Cu fine
0100 W	20 33	1	5.8	G5	6-6-6	" 6 " " "	6331 6349 Cu fine
					20/16	" 9	good
						2 P.H. Loaded	

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Date April 24/25 WITH Observer (F) M.S.V.B. - v. 3 Julian Day 2438144.
 @ 34 05 09.3 3506.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26752	HD 131873	14 51.0	+74 34	I-25	HO 013	008	6.8C	21 08	21 20	
	"	"	"	"	"	"	"	21 20	21 21	
26753	HD 164058	17 ^{54.3} 55.8	+51 30	"	"	"	6.4C	21 50	21 52	
	"	"	"	"	"	"	"	21 52	21 53	
26754	HD 163770	17 52.8	+27 16	"	"	"	6.5C	22 00	22 30	
257-2482	47 UMa	10 57.4	+40 38		615/33	28		22 45	3X	
257-2483	VESTA	11 27.5	+15 20		616/33	28		23 15		
257-2484	10 CVn	12 43.3	+39 30		616/33	28		23 38		
257-2485	"	"	"		"	"		23 48		
257-2486	HD 115043	13 12.0	+56 55		714/33	28		00 05		
257-2487	"	"	"		"	"		00 15	+5uy	
257-2488	HD 126053	14 21.3	+01 27		714/33	28		00 31		
257-2489	"	"	"		"	"		00 41		
257-2490	R 324	14 00.6	+10 29		715/33	28		00 54	+5uy	
257-2491	R 373	15 41.1	-10 49		715/33	28		01 21		
257-2492	"	"	"		"	"		01 31	+5uy	

Dome Temp. +0° F

CO₂ in 1900 Transparency Conditions good

Focus 15.26 70

V = 700 2200

Sino

Dome Temp. 24.5

2

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 18E	+74 17	0	2.2	KU III	18	F-Ca Mv β UMi net 3 unsh 4	6352 6387 Ca Fine
04 17E	" "	"	"	"	NONE	net 7	88 91 Fine
05 44E	+51 29	0	2.9	KU III	18	F-Ca-Mv γ Dra net 3	5596 6426 Ca Fine
06 17E	" "	0	"	"	NONE	net 5	626 629 Fine
05 39E	+37 14	0-1	4.0	KI II	"	F-Ca Mv θ-Her net 9	6450 Fine
(0147E) + 0155! W	" "	5"	5.1	S2V	"		
0146W	" "	"	6.5	(S2V)	"		
0052W	" "	5"	5.95	S0V	"	ΔHV	
0102W	" "	3"	5.95	S0V	"	"	
0048W	" "	3"	6.8	d'g 2	"	ΔHV	
0058W	" "	"	"	"	"	"	
0005W	" "	4"	6.26	d'g 3	"	ΔHV	
0015W	" "	"	"	"	"	"	
0052W	" "	8"	6.2	S0 II or V	"	ΔHV	
0022E	" "	8"	7.2	S1 F5	"	ΔHV	
0012E	" "	"	"	"	"	"	

NO FOCUS TEST !!

4 P.H. loaded.

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CONT

Date Apr 24/25 w/14 1963 Observer red 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.
257-2493	R 329	14 25.2	+2847		7/6/33	28		0151		
257-2494	R 329	"	"		"	"		0201	+54	
257-2495	ρ CrB	15 59.7	+3327		6/5/33	28		0219		
257-2496	ρ CrB	"	"		"	"		0229		
257-2497	R 402	16 52.0	+4254		7/4/33	28		0242		
257-2498	R 402	"	"		"	"		0252	+54	
257-2499	α CrB	15 33.0	+2651		5/4/33	28		0306		
257-2500	ξ HerAB	16 39.8	+3140		5/5/33	28		0328		

Dome Temp.

Transparency Conditions Fine

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Focus

Dome Temp.

g Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0122W	22	5"	8.2	KOM		ΔHV	
0132W	22		"	"		"	
0015W		4"	5.4	F8V		ΔHV	
0025W			"	"		"	
0013E		3"	6.8	90V		ΔHV	
0003E			"	"		"	
0132W			2.21	ΔOV		EXT ST	
0045W			2.81	90V		ΔMK	

Dome Temp. 45°

Focus 15.33

Dome Temp.

Transparency Conditions

OK but not good enough
Some absolute potential, hazy
in lower west 30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		3"	5.1	S20	38-40		
		"	"	"	"		
		3"	6.5	(S20)	"		
		3"	6.49	S8Vp	"		
		5"	3.63	F8V	"		
		3"	7.4	S8V	"		
		4"	4.92	S0V	"		
		4"	6.6	S8V	"	Star observed is in D (2 ^d brightest)	
		4"	4.30	S0V	"		
		4"	4.50	S8V	"		
0:45W	+49° 37'	2	6.8	M ₂	6-6-6	STD VEL STARS Set 5 Sens 7.	6599 6617 6620
3:48W	+19° 16'	2	6.0	K ₁	6-6-6	F. Ca. M.V. Set 5 Sens 6	fine check fine
					20:16		
						4 PH loaded.	

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Date Apr 27/28 1963 Sat/Sun Observer I vaB - F (Sat) Julian Day 2438147.
 0 37 00 22.4 2500.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
259-2511	HD106116	12 10.5	-02 52		8/4/33	28	2146		2x	
259-2512	BVN	11 48.7	+02 00		6/4/33	28	2204		2x	
259-2513	HD104556	12 00.4	+43 19		7/5/33	28	2229		2x	
259-2514	S-61830	11 50.4	+38 06		7/5/33	28	2251		2x	
259-2515	BCVN	12 31.9	+41 34		6/5/33	28	2215		2x	
259-2516	BCom	13 10.1	+78 04		6/5/33	28	2237		2x	
259-2517	HD131156AB	14 49.6	+19 16		6/5/33	28	2358		2x	
26760	HD 1653416v	18 00.4	+02 31	T-25	II-0B	008	11.8°C	00 ^h 39 ^m	01 ^h 00 ^m 14	1
	"	"	"	"	"	"	12.0°C	00 ^h 14 ^m	01 ^h 00 ^m 26	1
26761	HD 201091 m	21 02.4	+38 15	"	"	"	11.7°C	02 40	03 46	2
26762	HD 201092 m	21 02.4	+38 15	"	"	"	11.8°C	03 48	04 48	3
	Focus Test	(com'n 0.16)	15.31							
	"	(com'n 0.11)	15.37							
3PH loaded + 2 in loop										

Dome Temp. 47° at 01 h
 Focus 15.31 12°C
 Dome Temp. ...

CO₂ in 1930
 V = 700

Transparency Conditions OK

corr. in 16

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		(5")	7.4	58V		Dis. ... 38/40	
		7"	3.63	F8V			
		7"	6.6	58V			
		7"	6.49	58Vp			
		8"	4.92	50V			
		7"	4.30	50V			
		6"	4.50	58V			
						secondary too close to primary ↓	
14 146E	+02 29	0-2	4.1	K0V	6-6-6	DBL Seeing to ... net 3 lens 4	6657 6662
26 134E				"	18	FCaMv net 6	6662 6665
26 02 15E	+38 32	1-2	5.6	K5V	6-6-6	NP SEE FIELD FCaMv lens 6 net 3 (20)	6666 6686
48 02 12E	+38 32	1-2	6.3	K7V	6-12	SF " " FCaMv lens 6 net 5 (20) net 8 net 10.5	6677 6701
					20/16		
					20/16		
						170 units, Pass slower	
						0130 ...	

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Date Sun/Mon April 28/29 Observer I- R.M. Julian Day 2438148.

① 37 58 42.6 3498.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26763	21 L mi	10 01.5	+35 44	I-25	IIa0B	.008	13.8°C	20:09	20:48	1
MAY 1/63 26763 EXT 2	SKY	—	—	I-25	IIa0b	.002				
APR 29/63 26763 EXT	SKY	—	—	I-25	IIa0b	016		14 19 ³⁰	14 25 ⁰⁰	
	"				"	"		14 28	14 34	

Dome Temp. 50°

Focus 15.37

Dome Temp.

Transparency Conditions

- extremely poor at 2015 EST

- cloud low in W

34

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 ^h 11 E	35' 26	-3	4.63	A7V	18	MR-EW set 2 Lens 8 6706 6706 2 wk	
							- seeing impossible; gave up for a while	
							- integrator counts much too slowly	
							- either observing conditions are very poor or something wrong with integrator	
	Set. 2	1	COUNT				WK	
	5	3	"	#4	sens.		OK	exp meter now working
	9	6	"				STR?	
							PH loaded in dome	
							Opened at 02.00 seeing improved but exposure meter still not working. closed 03:15	
						18	RM, set 3	
							#7 6812	
							#7 6825	
							#7 6841	

25
34

35

Date May 12 1963 w/14 Observer RB - H Julian Day 2438151
 ☉ 40 53 30.8 3492.0

Plate No.	Object	R.A. 1900 +56	Declination 1900 -4	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
260-2518	56 Aur A	06 43.2	+43 38		G15/33	28		20:15	2x	
260-2519	104304	11 58.2	-10 10		714/33	28		20:42	2x	
260-2520	59 Vir	13 14.3	+09 41		714/33	28		21:07	2x	
260-2521	61 UMa	11 38.5	+34 29		714/33	28		21:32	2x	
260-2522	122742	14 01.1	+11 02		715/33	28		21:57	2x	
260-2523	130948	14 48.0	+24 07		714/33	28		22:19	2x	
260-2524	ε Boo A+B	14 49.1	+19 18		G15/33	28		22:43	2x	
260-2525	γ CrB AB	15 21.2	+30 28		G15/33	28		23:04	2x	
260-2526	λ Ser	15 44.0	+07 30		G15/32	28	5.5	23:27	4	
26764	HD 136849	15 17.8	33 17	I-25	IIa0b	008	5.4	00 36	00 48	1
"	"	"	"	"	"	"	5.2	00 49	01 15	
"	Focus Test		OTB							
26765	HD 169820	18 21.4	+14 55	"	"	"		02 16	03 02	2
26766	HD 172187	18 33.7	43 08	"	"	"	5.4	03 15	04 31	3

Dome Temp.

Focus 15.27

Dome Temp.

CO₂ in } 1900 EST
V = 700

Transparency Conditions OK Ci to 10° NW

D 7^d old
Fine night!

88

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			6"	5.31	SOV	38-40	has ST. Colpin.	
			8"	5.54	dgz	38-40		
			6"	5.52	SOV	38-40		
			6"	5.33	SOV	38-40		
			5"	6.28	SOV	38-40		
			4"	5.75	dgz	38-40		
			5"	4.70	SOV	38-40	A + B measured	
			6"	5.63	SOV	38-40	A & B not separated	
			6"	4.43	SOV	38-40		
48	0013E	+33 03	0-1	5.34	B9	6-6-6	Set 2 B8-B9 #5 6910 6915	+
5	0014W	"	0-1	"	"	9-9	" 5 " #5 6916 6926	+
						20/16	" 9 DEVELOPED.	OK
02	0103E	+14 54	0	6.43	B9	6-6-6	" 2 B8-B9 #7 6929 6946	+
31	0015W	+3 11	0	6.40	A5	6-6-6	" 2 N-Spot Bin. #7 6950 6964	+
							IPH + 8	

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

Focus 15.37

Dome Temp.

Transparency Conditions

38

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 4	0 48W	-24 39	0	7.1	B ₉	6-6-6	B ₈ -B ₉ prog.	7.5
13 1	00 31W	-23 52	0	6.6	B ₉	6-6-6	Set 5 " "	3.5
						20/16	Set 9	4.0
							0130 CLOUDS	
							3. P.H. +4	

Sens 7 { 6968
 { 6980
 { 6981
 { 6993

Dome Temp.

NOCO2

Transparency Conditions Poor

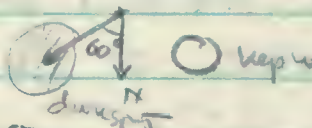
40

Focus

V = 700 20100EST

Dome Temp.

ing Time
.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Lunar Experiments	
	A 3800			2155			
						Closed up 2200	
						Sat May 4	
						159 visitors showed film, "Universe"	
						2100 5 slow motion not working	

41

Date ^{May} Sun/Mon 5/6, 1963 Observer F - R.M. Julian Day 2438155.

① 44 46 07.1 3484.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26769	HD 136095	11 47.2	+58° 28'	T-25	IIIa0B	.016	16°	23:50	23:18	2
26770	α Dno	14 01.7	64° 51'	"	IIa0b	.008"	"	00:00	00:20	3
00:21								00:31		
00:32								00:36		
26771	HD 136202	15 14.2	02° 09'	"	"	"	"	00:48	02:54	4
	Focus test		OTB.							

Dome Temp. 45°

Focus

Dome Temp.

?? → [May 6/7 focus
reads 15.42]

Transparency Conditions

42

clouds out 02:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:02 W	38° 02'	0	2.0	G-S	4-3-2	slid 1st 60 sens 8	6999 7039 7065 fine
0:52 W	64° 31'	0	3.59	A0 III	6-6-6	MR-EW 8 Set 3 Sens 5	7073 7074 7078 7079 7084 7084 7088 7095 stung fine fine
01:03 W	"	"	"	"	"	" 4 Set 5 "	
01:07 W	"	"	"	"	"	" 3 Set 7 "	
01:13 W	+01° 53'	0	5.6	G0	6-12	STD. VEL. STARS 8 Set 5 Sens 6	
					20/16	Set 9.	OK

4 PH loaded. + 4.

Clouded out 02:45

43

Date Mon. Tues. May 6/7 1963 Observer MR - R.M. Julian Day 2438.156

0 45 44 11.5 3482.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
{ 26772	21LMi	10 01.5	+35° 44'	I-25	IIaD6	^{set} .008	14.2°C	20:09	20:28	1
{ 26773	pleo	10 27.5	+09° 49'	"	"	"	"	20:40	20:52	"
26774	HD 111226	12 42.6	-24° 18'	"	"	"	"	21:30	22:57	2
26775	HD 131861	14 53.9	+45° 43'	"	"	"	14.1	23:14	02:40	3
26776	HD 172187	18 33.7	+43° 09'	"	"	"	14.1°C	02:47	03:13	4
26777	{ HD 190658	20 00.9	+15° 13'	"	"	"	"	03:20	04:24	1
	Focus test		OTR							

Dome Temp. 52°F

Transparency Conditions

Focus 15.49-11 = 15.38

Dome Temp. 48°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:01 W	+95° 25'	2	4.63	A7J	18 ^S	Set 0:18 ^{2?} / Set 1:9 / Set 3:5+c / MR EW	late fine (comp eye posed) good
0:59 W	+09° 27'	"	3.71	B16	18 ^S	Set 7:18+c / Set 9:9 / Set 10:5 /	late fine fine
0:50 W	-24° 40'	1	7.1	B9	6-6-6	Set 5 " B8B9 → In the field corrected drawn up in the sun? ⑧ 7253	good
2:26 W	+45° 26'	1	7.64	F3	6-6-6	Set 5 " KAFS ⑨ 7255 7408	fine
0:43 E	+43° 10'	2	6.40	A5	6-6-6	Set 5 Spect Binary - N Sans 7 7423 7427	good
1:00 E	+15° 23'	2	6.56	gM ₃ ²	9-9	Set 5 Hi Vel Spect Binary. Sans 8 7458 20/16 Set 9	late medium v d e trail

1 PH loaded + 0 in dome.

170 vis. stars - skewed ellipses

Dome Temp. 43°F

G.F.L., MR, S.H., + RASC

Transparency Conditions very good - some series

46

Focus 15.33 at

Dome Temp.

Time S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	2	2 ^h 28 ^m W	+20° 42'	-	2.59	A4V	18 ^s	Set 2: 18 cl's; Set 5: 9 cl's + comp; Set 8: 4 cl's 7469-87 ① 88-97 98-02 7505-33 ② 24-33 34-38	str. 1 d. str. 1 fine str. 1 fine
57	3	2 09 W	+14 44	-	2.21	A3 V	"	" " " " " " " "	"
15	-	2 21 W	+45 26	1	7.64	F3	6-6-6	Set 5 VAFS Area 34 (100) (9) 7539 27659	fine
15	0	0 43 E	+73 20 ⁰	2	8.5	FS	3-3-3	Set 3 FEB shadow cast? 1/2 min counting 3/2 min good! (100) (9) 7660 7703	weak
							10/8		ctored
								counting started very well - could have finished exposure the load right down (nervous 0/6 on shutter 1 ^h only!)	
								done locking body in N moving eastwards eg to W	

Dome Temp. 52°F
 Focus $15.39 \mu\text{m}$
 Dome Temp. 45°F

Transparency Conditions *Cirrus clouds (transparency 1000)*

03:00 Clouding over from N.W.

49

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
27	02 ^h 12 ^m W		-1	6.1	K1	6-6-	Std Vel Cirrus clouds in field	7751 fine but 7757 when v
07	03:7 ^m W	$45^{\circ} 26'$	0	7.64	F3	6-6	KAFS More clouds. 20/16.	7769 d wk 7784 Set 3 c to rd focus test super- posed on lower part of comparison
							Cloud too thick to continue 03:05	
							IPH loaded. On dome.	

49

Date Wed. ^{May} Thu. 15/16 1963 Observer R.M. Julian Day 2438165.
 @ 54 25 40.6 3449.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26784	α C Bor	15.30.5	27°03'	I-12 ²⁵	IIaob	.008'	+15°	01:00	01:11	3
"							01:13	01:15		
"							01:17	01:21		
26785	HD 172187, 18 Focus test.	18 33.7	43°08'	"	IIao	"	"	02:08	04:11	1

Dome Temp. 52°F

Transparency Conditions

Focus 15.42 Set

Dome Temp.

clouded over at 01:21
Thin Haze drifted over just after beginning of first exposure.
Cleared 01:45

Time	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11	3	0:53 W		0	2.21	Ao V		Set 3 MREW. Sens 5	7884 7892 fine
15		0:57 W					9-9	Set 5	7894 7898 fine
21		01:03 W						Set 8	7903 7903 fine
11		0:52 W	+43° 10'	00	6.40	A s	12-12-12	Set 5 N Spectroscopic mag. Saw 7 20/16 Set 9.	7912 7936 fine d. 2.1

4 IIao unbaked in dome

55

Date Tuesday - Wednesday May 21/22, 1963 Observer D₂ - H_v Julian Day 2438171

② 60 12 23.0 3462.9

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
26790	HD 131861	14 ^h 50.9	+45° 43'	I-25	IIA06	Set .003	+13.8°C	20 ^h 42	21 ^h 56	1
26791	HD 151043	16 ^h 39.8	+77° 57'	"	"	"	+14.0°C	22 ^h 32	23 ^h 20	2
26792	HD 172187	18 ^h 33.7	+43° 08'	"	"	"	"	23 ^h 30	00 10	3
26793	HD 175744	18 51.7	+17 52	"	"	"	"	0033	01 25	4
26794	" 178065	19 02.1	+0030	"	"	"	13.8	0224	0328	1
	Focus Test		Q.T.B.	"	"	"				2
Background density quite high in new batch of IIA06										

Dome Temp. +54°F

Focus 15.39 set

Dome Temp.

Transparency Conditions Hazy

Some clouds

56

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 E	+45° 26'	0	7.64	F3	6-6-6	set 7 Spect. Bin. (KAFS program) sens. 8 8203 20/16 set 2 Focus test. 8213	v weak OK
40 E	+77° 49'	0	7.42	F8	6-6-6	set 5 KA. 8x8 double lines sens. 8 8218 8238	OK
247 E	+43° 10'	0	6.40	A5	6-6-6	set 5 Spect. Bin. N sens. 8 8241 8271	OK
151 E	+17 55	0	6.39	B9	6-6-6	" 5 B8-B9 PRSS. #8 8282 8312	fine
001 W	+00 34	0	6.42	B9	6-6-6	" 5 " " " #8 8319 8349 20/16 " 9	fine OK
3 PH. Loaded IIa) b in fridge.							OK

51

Date Th/Fr May 23/24 1963

Observer vdB - F

Julian Day 2438173.

062 07 47.6 3460.3

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
262-2528	2 Leo	10 06 2	+12 10		5/4/33	20		20:42		
262-2529	HD 84737	09 46 4	+46 15		6/5/33	28		21:04		
262-2530	HD 84737	09 46 4	+46 15		6/5/33	28		21:21		
262-2531	47 UMa	10 57 4	+40 38		6/5/33	28		21:36		
262-2532	Vesta	11 32.6	+13 01		7/5/33	28		21:57	2x + 5v	
262-2533	Alcock	13 39	+ 34 18		7/7/33	28		22:36	2x 15v	
262-2534	HD 130548	14 48 3	+24 05		7/4/33	28		23:16		
262-2535	HD 131511	14 51 4	+13 19		7/4/33	28		23:36		
26795	HD 190020 Folies Test	19 57.9	+73 21	I-2S	Ilco B	010	80.0	0 ^h 10	04 00	2 01 E

Dome Temp.

Focus 15.31 80°C

Dome Temp. 38°F

CO₂ in 1945
V=700

Transparency Conditions Fine Polar air

Seeing poor after 1.30

58

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 28 W		10"	1.25	B7V		EXT. ST.	
03 12 W		7"	5.2	50V		DMK Sim. to @ ??? (Gcolor)	
			5.2	50V			
02 32 W		7"	5.05	490		DMK	
02 19 W			7	(50V)			
			8:			Severe drifting problems!	
		9"	5.75	492		38/40 (Li)	
		8"	6.02	41V		38/40 (one)	
00 20 11 E	+73 29	0 ⁺ 1 ⁻	8.5	FS	4-6-5 17/14	net-3 FElkin	run 9 (100) 8352 very weak OK
		2 PH's loaded					
						1.30 Bad seeing & scintillation present counts not ^{too} polar	

59

Date Fri Sat May 24/25 1963

Observer V.B. - F

Julian Day 2438174

O 63 05 27.9 3459.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
263-2536	HDB4737	09 46.4	+46 15		6/5/33	28		20 59	
263-2537	"	"	"		"	"		21 09	
263-2538	47 UMa	10 57.4	+40 38		6/6/33	28		21 26	
263-2539	61 UMa	11 38.6	+34 28		6/6/33	28		21 48	
263-2540	V1172	11 33.0	+12 58		7/5/33	28		22 12	
263-2541	S45 VV	13 16.6	+09 39		7/4/33	28		22 33	
263-2542	HD 122742	14 01.4	+11 00		7/5/33	28		22 55	
263-2543	HD 131511	14 51.4	+19 19		7/5/33	28		23 14	
263-2544	HD 135205	15 11.6	-01 12		7/5/33	28		23 34	
26796	110190020 From Test	19 52.9	+73 21	I-25	II00B	016	12.0	00 05	08 59

Dome Temp.

Focus 15.36 12.0

Dome Temp.

v = 700 } 20:00 EST
CO₂ i = }

Transparency Conditions

NOT P.E. 2100

60

2200 looks much better

1.30 thin low lying cloud up N.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0308		6"	5.2	50		DMY	
0318			"	"		"	
		7"	5.04	50	38/40	(L)	
		8"	5.33	58V	38/40	(L)	
		7"	(5.20)		38/40		
		5"	5.55	50V	38/40	(L)	
		7"	6.28	58V	38/40	(L)	
		6"	6.02	K1V	38/40	(low)	
		6"	6.60	58V	38/40	(low)	
5430	07E 73° 29'	0	8.5	F5	33-3 10/8	FEcl Bin	8434 8520 good OK watched
		1 PH	loaded			Very Thin cloud all over at dawn -	

Dome Temp. 54°F

Transparency Conditions

P₅₂Focus 15.41 16°C

Dome Temp.

Time
T.

574

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04.54 ^N	+45° 25'	-1	764	F3	6+6+6	Set 5 Spec Bin (KAFs) Sens. 8 20/16 Set 9.	8529 8549 OK
4 PH loaded, in Frig.							
The switch on the light illuminating the integrator is an electrical hazard —							

Dome Temp. +60°F

Transparency Conditions Good.

64

Focus (15.44) 15.41

Dome Temp.

2255 FORGOT TO SET HEAT CONTROL UNTIL NOW
FOCUS CHANGED TO 15.41

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
86	5 01W	+45 26	0-1	7.64	F3	6-6-6	Set 5 SPECT. BIN. (KAFS PROG) # 9 ⁸⁵⁸⁹ 8207	fine OK
							Seeing bad after 2 ⁰⁰ - comb value	
							3 PH's loaded.	

55

Date Thurs - Fri May 30-31 1963 Observer I - R.M. Julian Day 2438.190

0 68 51 00.3 3450.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26799	8 U Ma	11 48.6	54 15	I25	IIa06	008	18.2°C	20 ^h 43	60 ^m 22	
"	"	"	"	"	"	"	"	"	75 ^m 02	
"	"	"	"	"	"	"	"	"	47 ^m 22	
26800	131261	14 50.9	+45 43	I25	IIa06	008	18°C	21 15	23 ^h 37	
	Focus Test									
26801	HD 172187	18 33.7	+43° 08'	"	"	.008"	20°C	23 ^h 58	00:34	4
26802	HD 175190	18 49.1	-22 48	"	"	"	20°C	00:50	01:30	1
26803	HD 190658	20 00.8	+15° 13'	"	"	"	"	01:48	02:38	2
26804	HD 172187	18 33.7	+43° 08'	"	"	"	"	03:04	03:26	3
26805	β AQL	19 50.4	+6° 09'	"	"	"	"	03:35	03:40	4
	Focus Test.			O.J.B.						

Dome Temp. 61°F

Focus 15.41

Dome Temp. 56°F

Transparency Conditions *Good at Start*

66

1st 1/4
 - wasted some time at opening to find zone
 stars too low to observe

88-89

g Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0202	1h 14E	53 54	+1	2.37	A1V	no comp	MR EW (p. 4) Set 2 Sens 7	8149 8164 15 fine
0205	"	"	+1			12-6	Set 5	8165 8183 18 "no comp"
0207	1h 12E	"	+1			no comp	Set 8	8784 8797 13 good
0379	0h 57E	+45 23	0+1	7.64	F3	6-6-6	Hins 355 KAFS SB Set 5 Sens 8	8829 8859 20 "no comp"
						20/16	Set 8	no 0110
0344	01h 48E	+43 10	0	6.40	A5	6-6-6	N Sp. Primary ^{no faint visual} _{comp in version} Set 5 Sens 6	8861 8866 8868 5 "good"
0301	01h 09E	-22 45	0	6.0	S3Ks	6-6-6	Hi. Vel Spec Bin Set 5 Sens 6	8876 8878 5 "good"
0302	01h 12E	+15° 23'	1	8.0	gM2	9-9-9	Hi. Vel. Spec. Bin. Set 5 Sens 8	8918 8925 40 fine
0267	01h 5W	+43° 10'	1	6.40	A5	6-6-6	N Spec Bin Set 5 Sens 8	8930 8933 5 fine
0404	0h 2W	+06° 20'	1	3.90	G8IV	6-6-6	MR STDS. Set 5 Sens 4	8936 5 fine
						20/16	Set 9	9-1
							1 PH loaded in Fair.	
							Comparison spectrum partly missing because iron are off axis.	
							Slits a little scarce first half	
							-arc poor	
							-flashlight between poor	

67

SM

Date May 31/1 Fri/Sat 1963 Observer vdB - RM Julian Day 2438181.

O 69 48 30.8 3449.2

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
264-2545	GIU Pa	11 38.6	+34 28		714/33	28		2100			
		21.15	thin cloud		Spectrophoto						SM
264-2546	HD 122742	14 01.4	+11 00		715/33	28		2205			
264-2547	HD 135204	15 11.6	-01 12		715/33	28		2230			
264-2548	44 Boo A	15 02.3	+47 49		615/33	28		2310			
264-2549	η Cr 13	15 21.5	130 26								
26806	HD 172187	18 33.7	43° 08'	I-25	II aob	.008"	+20°C	01 03	03:11	1	0.54
26807	σ Cyg Focus test	21 13.5	+38° 59'	"	"	"	"	03:30	03:44	2	01:04

Dome Temp. 62°F
 Focus 1.5. 49
 Dome Temp.

CO2 in 19:45 EST
 V = 700

D 7^{old}
 Transparency Conditions

sky hazy with Ci and Altcum in W
 setting Sun very red. NOT photometric
 2115 Altcum moving 68
 2200 clear, sky improved OK

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		6"	5.33	S8V	38/40	Li	
		4"	6.28	S8V	38/40	Li	
		3"	6.60	S8V	38/40	OK	
		5.20	dg		38/40	Li	very close compact B just visible??
		4.98	S2V		38/40	Li	
0 54W + 43° 00'		0	6.4	As	6.6-6	Spec Binary N	8942 Set's Sun 8947 S
01:04E + 39° 12'		0	4.28	B9Iab	6.6-6	MK STDS	8948 Set's Sun 8953 E
					20/16		Set 9 good
2 PH loaded in frig.							
With ... HD 190030							

Dome Temp. 64°F Focus 15.50

Dome Temp.

Transparency Conditions *Poor Very!*

0040 haze checking

70

Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
51	0 08 E	-12 04	0	5.68	B8	6-6-6	B8-9 sens 6	8955 ④ 8959 fine
22		+15 46	0	3.71	B9V	NO ARC	MKStd Set 1 1 Count sens 4	8960 8961 good
29						9-9	Set 2½ 3 Counts	8961 8964 good
35	01 41 E					NO ARC	Set 4½ 2 Counts	8965 8967 fine
51	01 25 E					9-9	Set 7 4 Counts	8967 8971 fine
						20/16	Set 10	OK
<p>Close up because no stars bright enough for transparency conditions. 4 plate holders loaded.</p>								

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

Focus 15.55

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

Transparency Conditions FAIR

72

V. POOR Clear only 40° S 01.30 Zenith
to Zenith

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0124E	-2 02	0	6.09	B9	6-6-6	Sets B8-B9 Prog. #7 9014 9026	fine
0150E	-12 02	0	5.68	B8 ⁹	6-6-6	" 5 " " #7 9027 9039	good
0053E	+03 36	0	6.32	B9	6-6-6	B8-9 dbl line Set 3 #7 9041 9053	fine
0028E	+13 55	0 ⁺	6.07	B9	6-6-6	" " " " #7 9054 9066	completely good
			5.9	B8		B8-B9 Program Set 4 too slow #7 9067	
0036W	+00 33	0	6.42	B9	6-6-6	" " set 7 #7 9068 9080	fine
					20/16	set 10-5	OK
						3 OH's loaded.	

73

Date Tuesday June 4/5, 1963 Observer ^{Pa} DG- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26815	HD 131861	14 ^h 50.9	+45° 40'	T-25	IIa06	Set .008	+27.5C			2
<p>3 super panache press plates in IIa06 developed in Geopline June 6/63 +1 June 7/63</p>										

75

Date Fr/Sat June 7/8 1963 Observer SM - R.M. Julian Day 2438188.

0 76 30 31.1 2441.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
	observed through cloud ^S Sa Spectrophotometer practice										
265-2550	HD 122,742	14 ^h 01 ^m 46 ^s	10° 57' 7"		7/4 1874y	28		9 ¹⁵	A+B		
265-2551	HD 130,942	14 42 40	+4° 05' 7"		4/6/24	28		9 ⁵⁰	A & B trace		0 ¹⁰ 6
265-2552	HD 131,180	14 42 45	+4° 15' 2"				28	10 ⁵⁰	A		
265-2553	HD 130,120	14 40 19	+31' 19"		5/6/33+24	28		11 ²⁰	A+B		0 ¹⁰ 6 B
26814	HD 177410	18 59.5	+69° 23'	I 25	II aob	.008"	+24°c	00 58	01:38	2	0:35
26815	HD 182308	19 19.0	+64 13	"	"	"	"	01:45	02:21	3	0:13
26816	HD 191243	20 03.8	+34° 08'	"	"	"	"	02:34	03:10	4	0:29
	Focus Test O.T.B.										
2 images per plate + 3 trace spotted 6X's developed June 10/63											

Dome Temp. 168°

Focus 15.64

Dome Temp.

CO_2 in 20:15
700V

Transparency Conditions $\text{very good, thru cloud}$
Still very poor and thru cloud at 23:30

76

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		6"	6.28	B4V		thru cloud	
13" E +0"00		7"	5.75	B62		" "	} Do not reduce!
15" W		7"	4.70	G8V		" " Wrong star!	
06" E 006W		10"	2.91	B0TV		" "	
2 0:35 E +69° 26'		0	6.38	B9	6-6-6	B8-B9 Prog. Set 5 Sens 7	9105 fine
3 0:13 E +64° 15'		0	6.31	B9	6-6-6	" " Set 5 Sens 7	9117 good
4 2:29 W +34° 15'		0	6.02	B8	6-6-6	" " Ended exposure because down coming	9131 fine
					20/16	Set 9	9143
3PH loaded.							

Dome Temp. 58°F

Transparency Conditions

90

Focus 15.52

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:29 E	$-11^{\circ}03'$	0	5.2	gG7	6-6-6	STD VEL STARS. SET 5 SENS 79160	9152 1 weak
0:54 W	$+15^{\circ}23'$	0	8.0	gM2	6-6-6 20/16	Hi. VEL Spec Bin Set 5 Sens 8 Set 9.	9164 9204 fine OK
SPH loaded							

Dome Temp.

2200 { V=700
CO2

Transparency Conditions

OK except low humidity cloud

82

Focus 15.44

Dome Temp. 58°F.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0112 W		10"	2.21	AOV		EXT ST.	
0137 W	0145 W		4.43	60Σ			
0027 W	+43°10'	-1	6.40	A5	6-6-6	Sp. Bin - N Set 5 Sens 6	9222 9227
0105 W	+27°23'	-1	6.24	B9	6-6-6 20/16	B8-B9. Set 4 Sens 6 Set 8	9231 9235 OK
1 pht. LOADED							

83

Date JUNE Sun. Mon. 16/17 63. Observer R.M. Julian Day 2438.197.

0 85 06 27.5 3437.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
26821	HD 175190	18 49.1	-22° 48'	I-25	II aob	.008"	18.5	00:25	02:09	4
26822	HD 181828	19 16.9	+35° 00'	"	"	"	"	02:22	02:58	1.
26823	HD 192579	20 10.5	+46° 23'	"	"	"	"	03:09	03 45	2
	Focus Test.									
	fresh developer									

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

Transparency Conditions

84

Focus 15.44

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:09	$0.38\text{W } +22^{\circ} 44'$	0	6.0	S ₇ K _s	6-6-6	H. Vel. Spec Bin. Set 5 Sens 6 9253 9261	fine
3:58	$01.00\text{W } +35^{\circ} 06'$	1	6.24	B ₈	6-6-6	B ₈ B ₉ Prog Set 5 Sens 6 9262 9267	fine
4:45	$00:54\text{W } +46^{\circ} 35'$	2	6.92	B ₉	6-6-6	B ₈ B ₉ Prog Set 5 Sens 8 9269 9395	fine
					20/16	Set 9	OK
2 PH loaded.							

85

Mon-Tues.
Date JUNE 17-18/63

Observer S-CC-L-RMHR Julian Day 2438198.

0 86 03 45.1 3437.3

Plate No.	Object	R.A. 1900 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Ang End
26824 ✓	NGC 5904	15 16.6	+02 14	NEWT	103a0	—	—	21 38	21 40	1	00 25
26825 ✓	" 5634	14 27.5	-5 48	"	"			21 47	22 01	2	00 25
26826 ✓	" "	"	"					22 03	22 17	1	01 40
26827 ✓	" 6218	16 45.1	-01 53					22 31 ¹⁰	22 33 ¹⁰	2	04 40
26828 ✓	" 6254	16 55.0	-04 03					22 38 ³⁰	22 40 ³⁰	1	00 25
26829 ✓	" 6402	17 35.5	-03 13					23 40	23 52	2	50 15
26830 ✓	" 6171	16 30.3	-12 58					23 57	00 07	1	01 00
26831 ✓	" 6093	16 14.7	-22 54					00 11	00 17	2	00 25
26832 ✓	" 6356	17 21.3	-17 47					00 22	00 30	1	00 30
26833 ✓	" 6171	16 30.3	-12 58					00 39	00 49	2	00 25
26834 ✓	" 6356	17 21.3	-17 47					00 53 ³⁰	01 01 ³⁰	1	00 25
26835 ✓	" 6402	17 35.5	-03 13					01 05	01 17	2	00 25
26836 ✓	" 6356	17 21.3	-17 47					01 21	01 29	1	01 30
26837 ✓	" 6402	17 35.5	-03 13					01 34 ³⁰	01 46 ³⁰	2	01 30
26838 ✓	6934	20 32.2	+07 16					01 53	02 05	1	01 20
26839 ✓	6238	19 51.7	+18 31					02 09 ⁴⁰	02 13 ⁴⁰	2	00 25

Dome Temp. $+66^{\circ}\text{F}$ Dec, Add. 3^mTransparency Conditions FAIR - A few clouds

86

Focus —Dome Temp. —

ing Time L.S.T.	Hour Angle End	EX. TIME Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	00 12 E	2 ^m					Focused on α Boo.	
01	00 59 W	14 ^m						
7	01 14 W	14 ^m					" " λ Oph.	
33 ⁰	0 48 E	2 ^m					C. limits guiding	
40 ⁰	00 50 E	2 ^m					<u>22 45</u> Clouds.	
52	50 18 E	12 ^m					The 16 th hour of sidereal time lost in clouds, unfortunately.	
57	01 01 W	10 ^m						
7	01 27 W	6 ^m						
20	00 34 W	8 ^m						
47	01 44 W	18 ^m					Foc. on β Oph OK	
	01 55 W	8 ^m						
	01 07 W	12 ^m						
29	01 33 W	8 ^m						
45 ⁰	01 36 W	12 ^m						
05	01 22 E	12 ^m						
13 ⁰⁰	00 13 E	4 ^m					Seeing Good (S)	

Dome Temp.

Transparency Conditions

Good.

88

Focus

Dome Temp.

+59°F

Hour	Angle	End	EX. TIME Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	31	W	6 ^m						
01	28	W	4 ^m						
00	12	E	12 ^m						
00	37	W	4 ^m						
00	54	E	30 ^s					Very good night, except for occasional clouds	
GERRY WILL DEVELOP PLATES									

81

TUES. - WED.

Date JUNE 18-19/63

Observer S-CC-RM-HV Julian Day 2438199.

Plate No.	Object	R.A. 2000 1960	Declination 1900 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26845 ✓	NGC 5904	15 16.6	+02 14	NEWTON	103a0			21 59 ¹⁰	22 01 ¹⁰	1
26846 ✓	" 5634	14 27.5	-05 48	"	"			22 07	22 19	2
26847 ✓	" 5897	15 15.2	-20 51	"	"			22 24 ²⁰	22 32 ²⁰	1
26848 ✓	" 6218	16 45.1	-01 53	"	"			22 41 ⁵⁰	22 43 ⁵⁰	2
26849 ✓	" 6254	16 55.0	-04 03	"				22 51 ²⁰	22 53 ²⁰	1
26850 ✓	" 6171	16 30.3	-12 58	"				23 06	23 16	2
26851 ✓	6402	17 35.5	-03 13					23 22	23 32	1
26852 ✓	6171	16 30.3	-12 58					23 38	23 48	2
26853 ✓	6402	17 35.5	-03 13					23 52 ²⁵	00 02 ²⁵	1
26854 ✓	6356	17 21.3	-17 47					00 09	00 17	2
26855 ✓	6093	16 14.7	-22 54					00 23 ³⁰	00 29 ³⁰	1
26856 ✓	6171	16 30.3	-12 58					00 33	00 43	2
26857 ✓	6402	17 35.5	-03 13					00 53	01 03	1
26858 ✓	6356	17 21.3	-17 47					01 10	01 18	2
26859 ✓	6284	17 02.1	-24 42					01 28	01 38	1
26860 ✓	6544	18 04.9	-25 01					01 55	02 05	2

Dome Temp.

DEC. Corr. + 3°

Transparency Conditions

GOOD.

90

Focus

Dome Temp.

Hour	Angle	EX. TIME Distinction	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	00 13 W	2 ^m					Focus unchanged	
19	01 23 W	12 ^m					Seeing Poor	
32	00 46 W	8 ^m						
43	00 34 E	2 ^m						
	00 33 E	2 ^m					Foc. on λ Oph. focus OK	
	00 15 W	10 ^m						
	00 35 E	10 ^m						
	00 47 W	10 ^m						
25	00 04 E	10 ^m						
	00 25 W	8 ^m						
	01 15 W	6 ^m						
43	01 42 W	10 ^m						
03	00 51 W	10 ^m					Foc on η Ser Focus changed $\frac{1}{4}$ turn	
13	01 26 W	8 ^m						
38	02 04 W	10 ^m						
05	01 29 W	10 ^m						

Dome Temp.

Transparency Conditions

GOOD

Focus

Dome Temp.

IEEE group

Wed June 1912

150 in 2 waves,
4 hrs lobs; cloudy.

Sachwan, Perry, Clark, 4/1
Quality

ing Time E.S.T.	Hour Angle End	EXTIME Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS
16	0006 E	3 ^m					Seeing Poor
2	0031 E	10 ^m					
5	0151 W	6 ^m					
10	0148 W	4 ^m					
05	0002 W	8 ^m					
2	0049 W	2 ^m					
	0045 E	30 ^s					A sparkling night, but seeing only fair

2100 EST 0+
 2100 EST 0+
 2200 EST 0-0+

Mirror washed
 Amplifier repaired
 all the castles now started



03

Date June 21/22, 63. (Fri/Sat.) Observer VZB, R.M. Julian Day 2438202

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2556-267	G.B.	15 35.7	+26° 50'					21 05		
2556-267	HD 135, 101 A	15 11.2	+19° 25'		7/4/28			21 50	Areas A, B, C	
2556-267	135, 102 B	"	"		7/5/28			22 40	Areas A, B	
2557-267	152, 792	16 52.5	+42° 52'		7/4/28			23 40	Areas A, B	
2558-267	154, 345	17 01.8	+47° 07'		7/4/28			00 40	Areas A, B	
2559-267	157, 214 (1246)	17 19.3	+32° 31'		6/5/28			01 30	Areas A, B	
2560-267	178, 428	19 06.3	+16° 48'		6/6/28			02 25	Areas A, B	
2561-267	182, 522	19 21.3	11 52		7/5/28			03 15	Area A only	

Dome Temp.

Focus

Dome Temp.

Scorin 20:45
V = 700

23:45 AOK

Polar Air

2100

Transparency Conditions

OK, NOT AOK

Dr. Strong also staying

2145 rather thick cirrus shield, not pin.

2205: clouds from horizon up to 30°, pin at horizon
2210: region of observation to the S clouded over again (thinly)
2225: clouds only at horizon up to 30° (S)

2258: view field clear except horizon

REMARKS

2300 Sky Fine

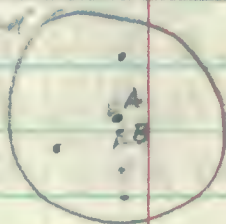
2345: clear sky all around

0045: all clear around

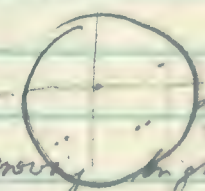
choose the brighter component

This is a binary, sky covered by clouds.

for 1/2" half of tracing, star was found at rim of aperture

log Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			2.23	A0 I			
00 ^h 30 ^m W; 00 ^h 45 ^m W; 00 ^h 54 ^m W		7"	6.68	G5 I	(B)	choose the brighter component	
01 ^h 16 ^m W; 01 ^h 45 ^m W;		6"			(F)	This is a binary, sky covered by clouds. for 1/2" half of tracing, star was found at rim of aperture	
00 41 W; 00 45 W		8"	6.81	G0 V			
01 25 W; 01 37 W;		8"	6.76	G8 I			
01 58 W; 02 09 W		8"	5.39	G2 V			
01 02 W; 01 12 W		7"	6.04	d64			
01 42 W		6"	5.15	G8 I			
						01 35: clear sky	
						02 45: view field clear, ←	
						03 20: western sky is growing bright	



but one cloud
hanging up in
south

Dome Temp. 62°F
 Focus 12.45
 Dome Temp. 57°F

170 visitors
 Showed $\Sigma 1785$
 M13

Transparency Conditions Excellent
 100 EST - some included in Smith & South
 100 - very slow counting.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ^h 24 ^m E	+43 10	H-D	6.4	A5	66-6	N Sp. Bin triple in finder sets Lens 6	9302 9308 5 fine
00 ^h 40 ^m W	+00 30	0	6.92	B9	66-6	B8-B9 triple in finder sets Lens 6	9311 9316 5 fine
00 ^h 13 ^m W	+34 17	+1	6.02	B8	66-6	B8-B9 HR 7699 sets Lens 6	9319 9324 5 fine
					20/16	sets 8	d.c. toward
seeing tests made during the night							
3 PH's located in fig							
<ul style="list-style-type: none"> - find cross-hair appears out of focus - broke up tracing. Lucy (vds). 							

Dome Temp. - 65°F

Focus 15.55

Dome Temp.

Transparency Conditions

98

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
16 2	00:03E	-00 34'	0	6.34	B8	6-6	B8 B9 Prog Set 5 Sens 6	9357 9362	5	good
2 3	00:24W	+27° 21'	0	6.24	B9	6-6-6	" Set 5 Sens 6	9364 9369	5	fine
3 4	00:59W	+35° 05'	1	6.24	B8	6-6-6	" Set 5 Sens 6	9370 9375	5	fine
3 3	00:23W	+46 40	1	6.13	B9	6-6-6	" Set 5 Sens 6	9376 9381	5	fine
29 2	00:53W	+53° 23'	2	6.43	B9	6-6-6	" Set 5 Sens 6	9387 9392	5	1 string
						20/6	Set 9			OK

4PH loaded.

Echo 23 50

Dome Temp. 71°F

Transparency Conditions good Aurora 100

Focus 15.70 - .11 = 15.59

Seeing 21:00 - 22:30

Dome Temp. 68°F

07:20 Light, dark cloud

heavy cloud from NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:00 W	+65° 42'	2	3.08	B6 III	18 ^S	Set 2 8 cl' / Set 5 4 cl' / Set 8 2 cl' / (in Secs 6)	fine
0:02 E	+02 41	2 ⁺	3.76	A0 V	18 ^S	set 2, 8 cl's / set 5, 4 cl's / Set 8 2 cl's	fine
0:08 E	-27 21	1	6.24	B9	6-6-6	set 5 38-39. sec 6 9608	fine
0:10 W	-19 20	1-0	6.7	B8	6-6-6	set 5 38-39. sec 7 9613	fine
0:45 W	-27 58	0 ⁺	6.31	B8	6-6-6	set 5 " " sec 6 9628	fine
0:52 W	+32 55	0 ⁺	6.42	B9	6-6-6	set 5 " " sec 6 9634	fine
0:27 W	-01 07	0 ⁺	6.26	B9	6-6-6	set 5 " " sec 6 9640	fine
					20/16	set 9	fine

PH looked

101

Date Tue. Wed. June 25-26, 1963 Observer vdB - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
2562-268	Cr 3	15 ^h 53 ^m 02 ^s	+26° 50'		5/5/14			20 ^h 30 ^m		
2563-268	122,742	14 ^h 01 ^m 46 ^s	+10° 58'		7/4/28			21 40	from A-B	
2564-268	130,948	14 48 40	+24° 04'		7/4/28			10 30	from A-B	
2565-268	133,640	15 02 35	+47° 48'		6/5/28			23 00	"	
2566-268	137,107 Cr 3	15 21 42	+30° 25'		6/5/28			23 45	" A-B	
2567-268	142,267 Mer	15 51 6	+13° 20'		6/6/28			00 20	" A-B	
2568-268	143,761	15 59 8	+33° 25'		7/3/28			00 56	from A-B	
2569-268	186,451 165 ⁰⁰	19 40 9	+50° 25'		7/4/28			02 45	from A-B	
2570-268	"	"	"		7/4/28			02 45	from A-B	

Dome Temp. 79°F

Focus 15.59

Dome Temp.

voltage on 700
ice in: = 20 55

2100 Not pe OK OK Δ

2200 looks OK
2300 Fine

107

Transparency Conditions

20⁰⁰: loads up the north - center 10.00
(yellow - red setting sun). faint stars

22⁰⁰: horizon cloudy, not very bright
sky bright

22⁴⁵: sky light

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ³⁰ E		2"	2.23	A0V	E+T	ST.	
01 38W, 02 01W,		(3")	6.28	G8V		01 ⁰⁰ : sky growing slightly bluish. no apparent clouds around; milky way coming out;	
01 40W, 01 54W,		6"	5.75	dG2		01 ²⁵ : no change from before	
02 03W, 02 14W,		6"	5.26	dG1		02 ²⁵ : sky O.K.	
02 27W, 02 37W,		7"	5.63	G2V		03 ⁰⁰ : sky alright, but a few clouds in south west to west.	
02 31W, 02 42W		7"	6.10	G2V			
03 4W, 03 37W		6"	5.40				
03 37W, 00 50W		7"	5.87	G5V		(1) = north preceding (2) = south preceding	
02W, 01 20W		7"					



Min. Sate. (and other faint text)

103

Wed-Thurs

VJ
L. Munn
45
m.c.Date June 26-27, 1963 Observer CN - C Julian Day 2438207.

① 94 39 05.6 3433.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26883	145001	16 03.6	+17 19	I-25	Ilford B	.008	30.0	23 52	01 26	4
"	D182691	19 46.2	+10 10	I-25	Ilford B	.008	29.7	01 51	02 17	4
26884	197226	20 37.3	+38 43	I-25	Ilford B	.008	29.5	02 41	03 05	1

Dome Temp. 80

Focus 125.63

Dome Temp.

Seeing obs.
22h seeing 1" → 2"

50 30 dome trolley wires shorted & blew in fusor

22" haze around horizon 104

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+17 06	2	6.1	G4	none	let's (Hd) Std Vel. - ^{first special detent as you move south} 9.65 1	fine
0 27W	+10 16	1	5.8	F8	none	" (Hd) ^{first special detent as you move south} 9.63 3	fine
0 25W	+38 54	2-1	6.42	B9	6-66	at 5 B9-B9 ^{giving total 9.62} 9.62 2	fine
07:15	Seeing test					down - <u>no focus test</u>	

21st loaded

00:30 one of meters changed closed
shutters sound as if require attention in oil
a new look for fusor fields will soon be req'd.

105

Thurs. Fri

Date June 27-28 / 63 Observer L. Hur Julian Day 2438208.

① 95 36 18.9 3432.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
268865	H.D. 131861	14 50.9	45 43	I-25	IIA0B	.008	29.7	21 39	23 50	1
268876	" 172187	18 33.7	43 08	"	"	"	29.1	00 38	00 54	2
268887	" 182308	19 19.2	46 13	"	"	"	29.1	01 05	01 37	3
268878	" 197668	20 21.8	53 14	"	"	"	29.1	01 54	02 16	1
268889	" 207614	20 59.7	56 16	"	"	"	"	02 56	03 16	1
	Focus Test O.T.B.									

Dome Temp. 80Focus 15.63Dome Temp. 78

Transparency Conditions

0110 CLOUDS

cloudy intervals all 2nd half

Fair

106

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 02W	45 29	0	7.64	F3	6-6-6	KAFS SB Haze later on lens 7 {9687 9699	fine
00 23W	43 11	1	6.4	A5	6-12	Set 5 SPECT. BIN. N. #7 ⁹⁷⁰⁴ 9716	fine
00 22W	64 19	0-1	6.3	B9	6-6-6	" 5 B ₂ -B ₉ #7 ⁹⁷²² 9734	fine
00 02E	53 24	0-1	6.43	B9	9-9	" 5 " " #7 ⁹⁷³⁹ 9751	fine
00 20W	56 31	0-1	5.72	B9	6-6-6	" 5 " " " 7 ⁹⁷⁶⁰ 9772	fine
					20/16	" 9	good
						1 P.H. Loaded in fridge	

Dome Temp. 780

* Seeing 0-1-2

Transparency Conditions poor - very hazy

108

Focus 15.61

* P.H. May have been inserted incorrectly
" Back on upside down.

Dome Temp. 780

g Time S.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
35 2	0048 E	+43° 11'	0	6.4	A5	6-6-6	Sels 5 Speil Run N. Sens #7 9776	no stellar spectrum
11 4	0018 W	+00° 33'	0-1	6.42	B9	6-6-6	Sels 5 BB-B9 * Sens #7 9788	nothing on plate
53 3	0000	34 19	1*	6.02	B8	6-6-6	" 5 " " " 7 9824	fine
43	0037 W	46 42	1*	6.13	B9	6-6-6	" 5 " " " 7 9837	fine
3 4	0050 W	26 18	1	5.50	B9	6-6-6	" 5 " " " 7 9849	fine
						20/16 " 9		fine
							IPH found in filter.	
							#26891 - taken with sens 10 hence underexposed. ml	

Dome Temp. 82

Focus 15.67

Dome Temp. 84 79° 03' 00"

Transparency Conditions poor - hazy. 110

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
54 2 ND 57	+1 54	2	5.6	G0	—	sets { Through the first round hole as you slide the prism carriage north. sens 6 { 9877 9885	fine
46 ND 55	+17 07	1	6.1	G4	—	sets { Through the second hole as you slide the carriage north. " 6 { 9885 9893	
00 06 W	41 23	1-2	5.86	B9	6-6-6	sets " B8-B9. #7 9902 9914	fine
02 01 W	+03 38	0-1	6.32	B9	6-6-6	" 5 " " #7 9917 9929	fine
00 37 W	38 57	1	6.42	B9	6-6-6	" 5 " " #7 9935 9947	fine
					20/16	" 9	OK
						3 P.H. Poudet, in fidge	

Dome Temp. 86°

Focus 15.69

Dome Temp. 75°

Transparency Conditions

$>1^m$ extinction

poor - extremely hazy ¹⁹²

EST 02:13

Bright fireball from N.W. through south

Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10 E	-02 01	0	6.09	B9	6-6-6	net 5 B8-B9	9951 56 fine
15 E	+03 56	0-1	6.32	B9	6-6-6	net 5 " "	9957 62 fine
45 E	+43 11	0-1	6.40	A5	6-6-6	net 5 N Sp B.	9963 68 fine
32 E	+34 18	0-1	6.02	B8	6-6-6	net 5 B8-B9	9970 75 fine
06 W	-12 28	0	6.39	B9	6-6-6	net 5 B8-B9	9977 82 fine
28 E	-01 06	0	6.26	B8	6-6-6	net 5 B8-B9 ⁶³¹⁰² clouds 6	9984 85 fine
						20/16 net 9	OK

loaded
DH

113

Date July 2-3, 1928 ^{rAB} _{D2} Tues - Wed. Observer Sm - RM Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Ang End
2571 - 269	139, 206 x 628	15 ^h 33.1	+26° 50'		5/4/28			21 ⁵⁵	21 ⁵⁰		
2572 - 269	146, 233 18508	16 137	-08° 17'		6/5/28			21 ⁵⁵			
2573 - 269	152, 391	16 51.2	+00 03		7/4/28			22 ⁴⁰	"		
2574 - 269	150, 680 ⁹ Her	16 40.3	+31 40		6/3/28			23 ²⁰	"		
2575 - 269	150, 997 ⁷ Her	16 46.7	+38 59		6/4/28			23 ⁵⁰	"		
2576 - 269	152, 792	16 52.5	+45 59		7/4/28			20 ⁵⁰	"		
2577 - 269	157, 214 78 Her	17 19.8	+52 31		7/3/28			01 ³⁰	"		
2578 - 269	159, 222	17 30.75	+54 18		7/4/28			02 ⁰⁰	"		
2579 - 269	152, 572	19 21.25	+17° 52'								
2579 - 269	217, 214	23 01.9	-20 35		7/6/28			03¹⁵			

Dome Temp. 76°F

dry ice: 20⁰⁰ EST
 voltage on 7001: 20⁰⁰ EST

Transparency Conditions

2100. Fine polar air

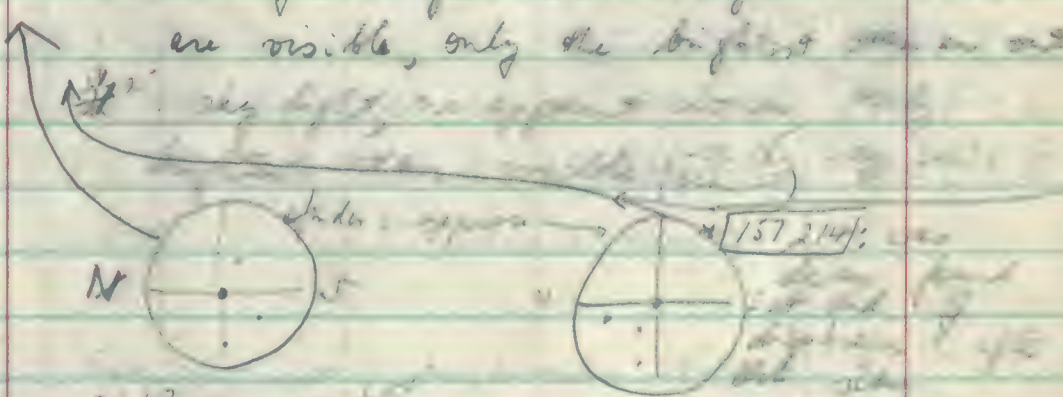
114

Focus

Dome Temp.

ing Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22W		12"	2.23	A0V			
20W 00 30W		12"	5.49	d51		22 ⁰⁰ : moon very close to star observed,	
20W 00 31W		9"	6.64	G6V		22 ⁰⁵ : moon located right behind west end of structure	
16W 01 37W		11"	2.82	G0TV		22 ³⁷ : no clouds in field of view	
46W 02 09W		10"	3.46	G8TV	TV	23 ⁰⁰ : sky is "light" and though no clouds,	
14W 02 21W		8"	4.81	G0V		are visible, only the brightest stars are out.	
27W 02 50W		9"	5.09	G2V		23 ⁰⁰ : sky light, no apparent clouds	
20W 03 00W		2"	6.58	G5V			
			5.17	G8TV			
			5.53	G5V			



115

Wh = Whobros.

Wed-Thur
Date July 3-4, 1963.Hd
Observer (Pa) - RM.
Julian Day 2438214.

0 101 19 28.5 3430.6

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
26903	HD 144661	16 ^h 01.9 ^m	-24° 11'	I-25	IIaOB	008	20.1	21 ^h 35 ^m	22 ^h 27 ^m	4
26904	HD 169033	18 ^h 17.6 ^m	-12° 03'	"	"	"	20.1	23 ^h 03 ^m	23 27	1
26905	HD 171391	18 ^h 29.5 ^m	-11° 03'	"	"	"	20.0	23 ^h 39 ^m	00 01	2
{ 26906	HD 171391	"	"	"	"	"	20.3	00 05	00 33	3
{ "	HD 187691	19 46.2	+10° 10'	"	"	"	"	00 39	01:47	3
26907	HD 187691	19 46.2	+10° 10'	"	"	"	20.1 ^c	01:53	02:09	4
26908	HD 191243	20 03.8	+34 08	"	"	"	20.1 ^c	02:17	02:47	1
26909	HD 199892	20 54.9	+41° 35'	"	"	"	"	03:03	03:41	2
	Focus Test.									
	#26909 unidentified		$\alpha_{1900} \sim 20^h 54.9^m$		filed with "unidentified spectra"					
			$\delta_{1963} \sim +40^\circ 50'$							

117

Date ^{fin} Thursday July 4/5 - 1963 Observer ^{Hol} GR - CN ^{Gr} HW Julian Day 2438215
 @ 102 16 39.1 3430.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	1
(26910	HD 144844	16 02.8	-23 25	I-25	KB <u>KB</u>	008	24.0	21 27"	22 09	3
26910 ¹	HD 145001	16 03.6	+17 19	I-25	"	"	22.8	22 58"	23 22	3
26912 ²	HD 145001	16 03.6	+17 19	"	"	"	22.8	23 24	23 49	4
"	HD 171391	18 29.5	-11 03	I-25	KB <u>KB</u>	008		00 12	00 25	4
(26911 ²	Focus Test							01 20		4
26912 ³	200614	20 59.4	+56 16	I-25	KB <u>KB</u>	008	22.7	01 20	01 34	1
26912 ⁴	HD 204428	21 23.4	+52 28	"	"	"		02 52	03 04	2
26914 ⁵	HD 204754	21 25.7	+54 59	"	"	"	22.9	02 13	02 25	3
26915 ⁶	HD 212937	22 22.8	+77 44	"	"	"		02 49	03 11	1
26916 ⁷	HD 216057	22 44.6	+53 53	"	"	"	22.7	03 19	03 29	2

set on Jupiter for John, 3/4/63

Dome Temp. 72 F.Transparency Conditions Clear clouds

120

Focus 15.510230 Clouds (rain)Dome Temp. 71

Time End of Night.

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
47	E 0 ^m 10	-25 22	0	6.7	B ₉	6-6-6	Set 5 B ₈ -B ₉ pair. sees 6 { 0205	fine
30	W 0 50	-21 12	0	6.3	B ₉	6-6-6	» » » » » 6 { 0208.5	fine
06	W 1 35	+17 08	1-3	6.1	G ₄	6-6-6	std vel set 5 » 6 { 0209	l. strong
3	W 2 01	"	2-3	"	"	—	Through the first window as you move the prism carrying with " 6 { 0212.5	fine
02	W 00 05	-11 01	3	5.2	gG ₇	—	Through the second window " " " 5 " 6 { 0218	fine
25	W 00 27	-11 01	"	"	"	6-6-6	" " " 5 " 6 { 0225	fine
0031	W +13 57	0-1	6.07	B ₉	6-6-6	Set 5 B ₈ -B ₉	#6 { 0226	fine
0236	E 62 52	1-2	7.8	B ₀ II	6-6-6	" 5 Hd B ₁ N ₁	#8 { 0233	fine
0034	W 53 24	0-1	6.43	B ₉	6-6-6	" 5 B ₈ -B ₉	#6 { 0234	fine
0033	W 51 45	0-1	6.26	B ₉	6-6-6	" 5 " "	#6 { 0241	fine
0111	W 50 55	0-1	6.30	B ₈	6-6-6	" 5 " "	#7 { 0242	fine
						20/16 " 9	#6 { 0249	fine
							#6 { 0250	fine
							#6 { 0253.5	fine
							#8 { 0256	fine
							#6 { 0282	fine
							#6 { 0290.7	fine
							#6 { 0291	fine
							#6 { 0294.7	fine
							#7 { 0296	fine
							#7 { 0305	fine
								OK
							3 P.H. Landed in field	
							iron are rather weak	

121

next observer please clean "window"
 comparison spectra last day were rather weak

Date ^{Tue} Mon July 8-9/63 Observer ^{Had} ~~Sh~~ - ^{Ca} Pa Julian Day 24382.19
 @ 106 05 21.3 3431.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26928	146416	16 11.1	-21 03	I-25	IIaOB	008	17.1	21 20	22 24	1
26929	144579	16 01.5	+39 24	" "	" "	46	17.1	22 42	23 48	2
26930	HD 170973	18 ^h 27.1	+03° 35'	" "	" "	"	17.2	00 ^h 02 ^m	00 38	3
26931	HD 174853	18 47.5	+13 51	" "	" "	"		00 50	01 22	4
26932	HD 217312	22 54.8	+62 32	" "	" "	"	17.4	01 34	02 24	1
26933	HD 212454	22 ^{19.3} 21.5	+56 47	" "	" "	"	17.4	02 29	02 39	2
26934	HD 212986	22 23.2	+55 56	" "	" "	"	17.4	02 45	03 01	3
26935	HD 216057	22 44.6	+53 53	" "	" "	"		03 12	03 24	4
	Focus Test		075/37A							

Part from July 12

Dome Temp. 68

Focus 15.50

Dome Temp. 64

Transparency Conditions Fair

00¹⁴ some clouds

60 30 clearing

MS

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
05 1	W 0 57	+39 15	0-1	7.2	G8	6-6-6 Std Vel. prog. set 5	photo { 0389 0401	fine
45 2	W 1 36	+39 15	1	"	"	" " set 5 Through the first window as you push from camera north.	photo { 0408 0420	large scale + other fine
25 2	E 0 12	-11 01	1-2	5.2	9G7	" " " set 5 Through the second window ... etc...	photo { 0421 0433	fine
50 3	W 0 14	"	1	"	"	6-6-6 " " set 5	photo { 0434 0446	fine
01	W 0 14	+47 38	1+	6.55	B8	6-6-6 B8-B9 set 5	photo { 0449 0453	fine
2	0 01 E	+46 37	1+	6.92	B9	6-6-6 " set 5	photo { 0454 0458	fine
2	0 11 W	+46 43	1-2	6.13	B9	6-6-6 " set 5	photo { 0459 0463	fine
9	0 22 W	+53 27	2-3	6.43	B9	6-6-6 B8-B9 set 5	photo { 0464 0468	fine
40	1 21 E	+62 32	2+	7.8	B0 IV	6-6-6 Hd Binary set 5	photo { 0469 0477	fine
1	0 22 E	+78 03	2	6.48	B9	6-6-6 B8-B9 set 5	photo { 0501 0505	fine
2	0 00	+57 06	2+	6.14	B8	6-6-6 " set 5	photo { 0506 0510	fine
3	0 15 W	+56 15	2+	6.37	B8	6-6-6 B8-B9 set 5	photo { 0511 0515	fine
						20/16 set 9		OK

4PH
washed

127

July 11/63 from one set of 125 plates until tomorrow!

Thompson on PH 3.

Date July 11-12/63 Observer Gh - C Julian Day 2438222
 @ 108 56 55.3 3432.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +26°	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26947	HD 131861	14 50.9	45 43	I25	IIaOb	008	26.0	21 39	22 57	1
26948	HD 172187	18 33.7	+43 08	"	"	"	25.9	23 05	23 19	2
26949	HD 177817	19 01.1	-16 23	"	"	"		23 40	00 10	3
26950	HD 192666	20 10.9	-12 39	"	"	"	25.7	00 21	00 43	4
26951	HD 197226	20 37.3	+38 43	"	103aD	"		00 47	00 59	1
26952	HD 197018	20 35.9	+40 13	"	103aD	"		01 03	00 11	2
26953	HD 194939	20 23.2	-03 41	"	103aD	"		01 20	01 38	3
26954	HD 199280	20 51.1	-03 57	"	103aD	"		01 43	02 07	4
26955	HD 202773	21 12.9	-04 57	"	103aD	"		02 19	02 29	1
26956	HD 215143	22 38.0	-07 29	"	103aD	"	25.9	02 34	02 56	2
26957	HD 216494	22 48.2	-12 09	"	103aD	"		03 05	03 17	3
26958	HD 199552	20 54.9	+41 33	"	103aD	"		03 22	03 36	4
	From first									

Dome Temp. +75

Focus 15.56

Dome Temp. +67°F

Transparency Conditions

Good a few clouds
00^h - a little haze up to alt. 40°
- Milky way visible.

128

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0304W	45 28	0-1	7.64	F3	6-6-6	Set 5. Spect Bin. LAPS #8 0547 0572	fine
0017E	43 12	1	6.40	A5	6-6-6	" 5 " " #7 0575 0585	no back light fine 968
0005W	-16 17	1 ⁺	5.88	B8	6-6-6	" 5 B8-B9 prog. #7 0593	fine
0032E	-12 26	1-2	6.39	B9	6-6-6	set 5 B8-B9 prog #6 0603 0605	Ⓣ fine
0041E	+38 57	1-2	6.42	B9	6-6-6	set 5 B8-B9 prog #6 0610 0614	fine guiding
0027E		2-3	5.88	B8	6-6-6	set 5 B8-B9 prog #6 0615 0619	strong
0012W	-03 29	1-2	6.01	B9	12-6	set 5 B8-B9 prog #6 0621 0625	fine
0013W	-03 42	2	6.45	B9	6-6-6	set 5 Field does not check! B8-B9 prog #6 0626 0630	fine
0012W	-04 41	2 ⁺	5.63	B8	12-	set 5 Not spotted properly #6 0631 B8-B9 program #6 0635	fine
0045E	-07 10	2 ⁻	6.28	B9	6-6-6	set 5 " B8-B9 program #6 0636 0640	fine staring
0034E	-11 49	2	5.87	B9	6-6-6	set 5 " B8-B9 program #6 0641 0645	good
0140W	+41 48	3 ⁺	06.01	B9	12-6	set 5 " B8-B9 program #6 0646 0650	fine guiding
						20/16 set 9 → temp dropped 50° went from 3+ to 0	OK
						loaded	
						Spitzer not working on. - does not click & stay on.	
						<u>NO</u>	

129

no. 1. J. H. L. Baker II a O - emulsion 2706123

51 51

Date Frid/Sat 12-13 July 1963 Observer Hd Sm Ln Julian Day 2439223

GR

① 109 54 07.5 3432.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26958 ⁹	14 6416	16 11.1	-21 03	125	IIaOB	0.008	27.0	21 14	22 10	
2579 - 270	STANDARD STAR 172, 167 α dgr	18 ^h 35.7	+38° 45'		4/5/33	14		22 40		
2580 - 270	130, 948	14 ^h 48.7	+24° 04'		6/6/33	28		23 05	trace a	
2581 - 270	133, 640 uv 30	15 ^h 02.6	+47° 48'		6/5/33	28		23 40	trace a, b	
2582 - 270	154, 345	17 ^h 01.8	+47° 07'		7/4/33	28		00 10	trace a, b, sky	
2583 - 270	176, 051	18 ^h 55.7	+32° 51'		7/3/33	28		00 40	trace a, b	
2584 - 270	182, 428	19 ^h 22.1	+33° 08'		7/4/33	28		01 15	trace a, b, sky	
2585 - 270	190, 360	20 ^h 02.1	+29° 49'			28		01 46		
2585 - 270	190, 406 15 Sgr	20 ^h 02.5	+16° 58'		7/4/33			02 10	trace a, b	
2586 - 270	192, 163 WN6	20 10.7	+38 14		7/5/33	20		02 40	trace a	

dry ice in: 21⁴⁰ EST, 02⁰⁰ EST;

Dome Temp. 72 voltage on: 22¹⁵

Focus 15.58

Dome Temp.

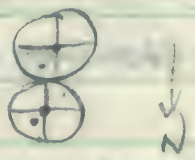
Transparency Conditions Good in zenith

130

23⁰⁰ - distinct yellow sunset very hazy at low alt.
 - haze all around horizon; otherwise night in clear
 and no clouds visible

03²⁰ light clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 ⁵⁸	-21 13	0	6.3	B ₉	6-6-6	Sat 5 B ₉ B ₉ mag. sun 6 { 0652 0654.5	
		11"	0.03	A0V			
23 ³⁰ W		5"	5.75	d62		23 ¹⁵ : suspect haze at position around 130, 948	
3 ⁴⁶ W		7"	5.26	d61			
2 ¹⁶ W 02 ²⁷ W		7"	5.77	G8V		00 ³⁰ : moon in east, sky milky	
01 ⁰⁶ W, 01 ¹⁶ W		9"	5.36	G0V		← focus not too good	
01 ⁰⁶ W, 01 ¹⁵ W		8"	6.4	G8V			
			5.70	G6IV		make finder's field:	
1 ¹⁴ W, 01 ²⁵ W		7"	5.80	d61		for reverse run of track, star found towards dir. of dispersion	
1 ⁵⁵ W		6"	7.4			02 ⁰⁰ : sky still milky; no clouds	
						03 ²⁰ : CLOUDS! after all night of no clouds	
						03 ³⁰ : light cirrus clouds in southern part of field	
						in first clouds appear only in path of range	



PH loaded

Dome Temp. 68

Focus 15.47

Dome Temp. 60

Transparency Conditions Good.

122

23:30^h - few light clouds
 00^h - clear, transparency excellent
 seeing 2-3 in zenith
 02 - very light cloud cover
 02:15 leaving dew forming
 02:30 closed up because of dew

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
27	2 W 0 28	-21 12	1	6.3	B9	6-6-6	Set 5 B8-B9 prog	fine
12	3 W 0 33	-19 28	0-1	7.0	B8	6-6-6	" 5 " " "	fine
21	4 W 0 29	-25 29	0-1	6.7	B8	6-6-6	" 5 " " "	fine
19	1 W 0 20	-00 30	1	6.34	B8	6-6-6	" 5 " " "	fine
51	2 W 0 18	-12 27	1	6.39	B9	6-6-6	" 5 " " " <i>loader fixed</i>	fine
5	W 0 02	-14 53	1	6.14	B9	6-6-6	set 5 B8-B9 Prog.	fine
11	0 01 W -04 42	1	6.45	39	6-6-6	set 5	" " "	fine
24	0 27 W -10 45	1	6.47	39	6-6-6	set 5	" " "	fine
						20/16	set 9	fine

3 PH loaded.

123

Date Tue - Wed July 16-17, 1963 Observer D. J. C. W. Julian Day 2438227.

① 113 43 02.1

3435.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26968	HD 172177	18 23.7	+41° 08'	I25	Ilford	set .008	+25.3°C	23 ^h 24	23 ^h 40	2
26969	HD 178744	19 ^h 04.7	-00° 36'	"	"	"	+25.6°C	23 ^h 50	00 06	3
26970	HD 190658	20 00.8	+15 13'	"	"	"	"	00 15	01 13	1
26971	HD 199280	20 51.1	-03 57	"	"	"	+25.8°C	01 21	01 49	2
26972	HD 217312	22 54.8	+62 32	"	"	"	"	02 02	02 42	3
26973	HD 217348	22 55.0	+59 16	"	"	"	"	02 49	03 05	4
26974	HD 217833	22 58.4	+54 42	"	"	"	+25.6	03 12	03 28	1
26975	HD 216523	22 48.5	+49 53	"	"	"	"	03 34	03 50	2
	} focus test									

Dome Temp. 67°F

Focus 15.55 set

Dome Temp. 66°F

Transparency Conditions

From sunset to 23:10h

exp. 1/16

134

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 24 W	+43° 13'	1	6.40	A5	6-6-6	set N SBinary	0737
06 18 W	-00° 30'	1+	6.34	B8	6-6-6	set B8-B9	0740 sens.6 0744 0746
13 10 30 W	+15 24	1-2	8.0	gM2	9-9-9	set vdB SB	#8 0786 (40)
19 20 14 W	-03 42	1-2	6.45	B9	6-6-6	set B8-B9	0788 #6 0792
42 30 55 E	+62 53	2	7.8	B0 IV	6-6-6	set Hd BEB	#8 0793/30 0823
05 10 34 E	+59 36	2	6.36	B9	6-6-6	set B8-B9	0826 #6 0830
27 10 13 E	+55 03	2+	6.45	B9	6-6-6	set B8-B9	0832 #6 0836
30 20 18 W	+50 12	1+	6.42	B9	6-6-6	set B8-B9	#6 0837 0841
					20/16	set 9	

3 PM loaded

Dome Temp. 78°F

Focus 15.67 - .11 = 15.56

Dome Temp. 73°F

dry ice : 210⁵; 2240

Voltage : 700V

Transparency Conditions

2100: haze and clouds moving up from north
2245: all clear except cirrus = 10° up from horizon in south; fair wind;

136

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ³⁹ E, 00 ³⁷ E 01 ¹¹ W		9"	6.4	G2V		21 ⁰⁰ : perfectly clear all around except in SW	
		13"	0.33	A0V		22 ⁵⁵ : a big bit of haze. clouds at center edge to	
						00 ⁰⁰ : cirrus clouds moving quickly up from horizon in east, north, and south.	
						00 ¹⁵ : all clouded in strong wind.	
						02 ⁴⁰ clearing	
						- clouding up after a seeing observation	
						02 ⁴⁵ closed up	

137

Date Sat/Sun July 20/21, '63 Observer I - L Julian Day 2438231

① 117 32 06.6 3437.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26976	HD 194939	20 ^h 23.2	-03° 11'	E25	Ilab	008	21.0 C	23 ^h 37	23 ^h 49	3
26977	16 CVR (p)	19 39.2	+50 17	E25	Ilab	008	+21.0	00 30	00 56	2
26978	HD 198513	20 46.7	+51 38 ²	"	"	"	+21.0	01 00	01 14	1
26979	" 2021 ⁴ 29	21 08.9	-11 01	"	"	"	+21.0	01 22	02 20	4
26980	" 215143	22 38.0	-07 29	"	"	"	+21.0	02 25	03 37	1
	Focus Test				O T B					

Dome Temp. 68°F

Focus 15.48

Dome Temp. 66°F

170 visitors;
"Universe" to 1st group
M13 to record

Transparency Conditions

Some haze

138

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
49	1 ^h 3E	-03 29	+1	6.1	B9	6-6-6	B8-B9 Pg. HR 7821; Sets; Len 6	849 854 fine guiding
50	0 50W	50 26	2-3	6.37	G5 I	6-6-6	MIK Ltd.	" 6 861 869 fine det
54	0 02W	51 47	1-2	6.26	B9	6-6-6	B8-B9	" 6 870 875 fine
55	0 43W	-10 46	1	6.47	B9	6-6-6	" "	" 6 872 882 fine
57	0 32W	-7 09	1-0	6.28	B9	6-6-6	" "	" 6 882 887 fine
						20/16		re to visit
							2 P.H.s loaded.	

Dome Temp. 79

Transparency Conditions

140

Focus 15.57

Some clouds

Dome Temp.

ing Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
56	2 W 0 6	-26 14	0	5.9	B9	6-	Set 5 B8-B9 Prog (clouds)	Senob { 0890 0891	weak
49	3 E 0.48	64 19	1	6.31	B9	6-6-6	" 5 " " "	Senob { 0891 0899	good quality
30	W 34	43 12	1	6.40	A5	6-6-6	" 5 Spect. Binary-N	" 6 { 900 902	fine quality
20	10:40 E	+40° 27'	1	5.88	B8	6-6-6	" 5 B8 B9 Prog.	Senob { 0909 0914 0917	l. stars fading
45	2 0:24 E		2	6.26	B9	6-6-6	" 5 - - -	Senob { 0922 0929	2 stars fading
5	3 0:01 E	+50° 56'	2	6.30	B8	6-6-6	" 5 - " -	" 6 { 0934 0936	fine stars
37	4 0:12 W	+56° 32'	1	5.72	B9	6-6-6	" 5 - " -	" 6 { 0941 0942	2 stars
48	10:02 W	+52° 43'	1	5.90	B8	6-6-6	" 5 - " -	" 6 { 0947 0948	2 stars fading
3	2 0:23 W	+55° 15'	1	6.04	B9	6-6-6	" 5 - " -	" 6 { 0953 0954	fine
25	3 0:43 W	+57° 05'	1	6.14	B8	6-6-6	" 5 - " -	" 6 { 0959 0971	fine
13	10:22 W	+56° 14'	1	6.37	B8	6-6-6	" 5 - " -	" 6 { 0976 0978	2 stars fading
30	10:12 W	+59° 36'	1	6.36	B9	6-6-6	" 5 - " -	" 6 { 0983 0986	2 stars fading
56	2 0:35 W	+55° 02'	1-0	6.45	B9	6-6-6	" 5 - " -	" 6 { 0991 0992	2 stars fading
18	3 0:02 W	+59° 47'	1-0	6.37	B8	6-6-6	" 5 - " -	" 6 { 0997	fine stars fading
						20/16			
							4 P.H. loaded.		

242

Mon-Tue

Date July 22-23 / 65

Observer H^W - C^W

Julian Day 2438233.

@ 119 26 42.0 3438.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 26.0	Starting Time E.S.T.	Ending Time E.S.T.	P
26995	HD 174553	18 47.5	+13 51	I25	IIa06	.008	26.0	23 12	23 44	1
26996	" 194939	20 23.2	-03 41	"	"	"		23 50	10 10	2
26997	HD 199280	20 51.1	-03 57	"	"	"		00 23	00 53	3
26998	HD 198513	20 45.7	+51 32	"	"	"	25.9	01 03	01 21	4
26999	HD 199578	20 53.1	+50 41	"	"	"		01 26	01 42	1
27000	HD 200614	20 59.4	+56 16	"	"	"		01 51	02 01	2
27001	HD 204428	21 23.4	+52 28	"	"	"	25.6	02 09	02 19	3
27002	HD 212937	22 22.8	+77 44	"	"	"		02 32	02 48	4
27003	HD 217312	22 57.2 ^{55.0}	+62 32	"	"	"		02 59	03 37	1
27004	HD 217348	22 55.0	+59 16	"	"	"	26.0	03 41	03 51	2
27003a	Focus Test	0 17 34A								

filed under "focus test plates"

Dome Temp. +74

Focus 15.56

Dome Temp. 70

Transparency Conditions

Clearing at 2200? 142

00⁺ light cloud in south
considerable haze

02 cloud patches

light, high clouds at dawn.

ing Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	00 36W	+13 54	0-1+	6.07	B9	6-6-6	Set 5 B8-B9 Proc. #7 0999 1009	fine
10	00 33E	-03 29	0-1	6.01	B9	6-6-6	" " " #7 1011 1021	fine
53	00 19E	-03 42	0-2	6.45	B9	6-6-6	" " " #6 1022 1026	fine
21	00 14W	+51 46	1-2	6.26	B9	6-6-6	" " " #6 1027 1031	fine
42	00 30W	+50 56	1-2	6.30	B8	6-6-6	" " " #6 1032 1036	fine
07	00 44W	+56° 32'	0-1	5.72	B9	6-6-6	" " " #6 1038 1042	fine
19	00 37W	+52° 45'	3	5.90	B8	6-6-6	" " " #6 1043 1047	fine
4	00 07W	+78° 02'	2-3	6.48	B9	6-6-6	" " " #6 1049 1053	fine
37	00 24W	+62° 51'	3	7.8	B0IV	6-6-6	" Ad Bin # 1054 1079	fine
51	00 37W	+59° 36'	2-3	6.36	B9	6-6-6	" B8-B9 " #6 1081 1085	fine

20/116 Set 9

20/116 loaded

143

Date Tue-Wed July 23-24, 1963 Observer Sum - C ²¹ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2589-272	172,167 x Lyll	16 ^h 35.7	+32° 40'		7/3/33	28		20 ⁴⁰	from a, b	
2590-272	172,051	18 ^h 36.7	-21° 05'		8/2/33	28		21 ⁵⁵	from a, b	
2591-272	143,761	15 ^h 59.2	+33° 25'		7/3/33	28		22 ³⁵	from a, b	
2592-272	144,579	16 ^h 03.7	+29° 15'		8/3/33	28		23 ⁰⁰	from a, b	
2593-272	196,761	20 ^h 38.0	-21° 55'		8/3/33	28		23 ²⁵	from a, b, c	
2594-272	176,051.5	18 ^h 55.7	+32° 51'		7/3/33	22		00 ³⁰	from a, b	
2595-272	178,428	14 ^h 06.3	-16° 48'		6/6/33	28		01 ²⁵	from a, b, c	
2596-272	164,922	18 ^h 05.9	-26° 19'		7/5/33	28		01 ⁴⁰	from a, b, c	
2597-272	197,076	20 ^h 39.1	+19° 41'		6/6/33	28		02 ¹⁵	from a, b, c	
2598-272	112,647 112,196	22 ^h 20.6	-16° 56'		7/4/33	28		02 ⁵⁵	from a, b, c	

Dome Temp. +52°F

CO₂ in : 20¹⁰ EST 21⁴⁵ EST 01⁵⁵ EST

Transparency Conditions

Clear

Focus

20⁵⁵: clear except for scattered
airborne clouds
and haze at horizon all the
sky abundant

Dome Temp.

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
16 E 1 ³⁶ E	+35°46'	15"	0.23	AVI		Instrumental diffraction in Fraunhofer lines	
47 E 0 ¹⁵ E		6"	5.67	dG4		← suspect haze at horizon	
W 2 ¹⁷ W		9"	5.40	dG4		focused star	southern horizon is better
W		8"	6.67	152		suspect haze at horizon	02 ¹³ : Frank came to repair 3rd mirror
W 5 ³⁶ E 0 ⁰⁰ E		8"	6.36	dG7		20 ⁰⁰ : night clear except for scattered	
W 1 ¹¹ W		9"	7.00	GZ		for the 1st time since 01 ⁰⁰ all clear & haze	
W 2 ¹¹ W		9"	6.44	dG4		haze at horizon	
W		2"	7.00	GZ		suspect haze at horizon	01 ³⁰ : mostly clear but some clouds
23 W 1 ⁴³ W		9"	6.46	152		01 ²⁰ : cloud of cirrus in SW 15° up	
W 0 ⁴¹ W		6.44		dG2		the 2nd star in the field by comparison cloud moving rapidly from N to S along horizon; faint cloud appeared	
		6.50		dG2		02 ²⁵ : all clear again	

145

Wed / Thurs
Date July 24/25 1963

Observer

MT - Pa
VB - Cr

Julian Day 2438235

121 21 19.1 3439.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27004	HD 131861	14 50.9	+4543	25 ⁿ	Ilco 0b	008	30.2	21:30	23:30	
27005	HD 140658	20 00.8	+1513	25 ⁿ	Ilco 0b	008	30.0	23:35	00:29	2
27006	HD 194939	20 23.2	-03 41	"	"	"		00:39	01:03	4
27007	HD 200340	20 57.8	-01 19	"	"	"		01:08	01:32	1
27008	HD 197226	20 37.3	+38 43	"	"	"	30.2	01:41	01:57	2
27009	HD 215143	22 38.0	-07 29	"	"	"		02:10	02:32	3
27010	HD 216494	22 48.2	-12 09	"	"	"		02:36	02:52	4
27011	HD 222247	23 39.0	-18 50	"	"	"		03:03	03:13	1
27012	HD 216523	22 48.5	+49 53	"	"	"	30.3	03:38	03:48	2
27013	HD 217348	22 55.0	+59 16	"	"	"		03:52	04:00	3
	Focus Test									

Dome Temp. 77° 60^v

Focus 4?

Dome Temp. 76°

20:00 EST U=200

CO₂

Transparency Conditions

+45 Ci. vol. p. a.

60% clear but hazy.

146

ing Time
EST.

30

29

3

32

57

32

52

3

48

M

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+45° 26'	0-1	7.64	F3	6+6+6 SB	9 count only	very mo. on plate Lack comp. data
0 ^h 19 ^m W	+15° 25'	0+	7.0	g77	6+6-6 SB	109X - 111- (VAB)	good
0 27 U	-03 28	0	6.01	B9	6-6-6 set 5	38-39 #6 1111	fine
0 23 W	-01 04	0	6.26 5.72	B8	6-6-6 set 5	38-39 #6 1116	fine
1 ^h 07 ^m W	+38 58	0-1	6.42	B9	6-6-6 set 5	38-39 #6 1121	fine
0 18 E	-07 10	0	6.28	B9	6-6-6 set 5	38-39 #6 1126	l. strong guiding
0 07 E	-10 48	0	5.87	B9	6-6-6 set 5	38-39 #6 1131	fine
0 37 E	-18 28	0	5.21	B8	6-6-6 set 5	38-39 #6 1137	l. strong guiding
0 48 W	+50 13	1	6.42	B9	6-6-6 set 5	38-39 #6 1145	l. strong guiding
0 55 W	+59 37	1	6.36	B9	6-6-6 set 5	38-39 #6 1150	fine
					20/16 set 9	#6 1154	comp. wtk. OK

3 PH loaded.

347

(Mollusc)

Mc

Date ~~Thurs/Fri~~ July 25/26 Observer ~~- Co~~ Julian Day 2438236

© 122 19 38.3 3439.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27014	HD 194939	20 23.2	-03 41	I-25	DaOB	^{set} .008	29.4	00:17		4
27014	HD 194939	20 23.2	-03 41	I-25	DaOB	^{set} 1.008	29.4	00:26	01:10	4
27014	HD 197018	20 35.9	+40 13	I-25	DaOB	1.008		01:17	01:37	4
27015	HD 199578	20 53.1	+50 41	I-25	DaOB	1.008	29.3	01:44	02:14	1
27016	HD 200614	20 59.4	+56 16	I-25	DaOB	.008		02:19	02:39	2
27017	HD 217348	22 55.0	+59 16	I 25	DaOB	1.008	29.2	02:44	03:18	3
27018	HD 216523	22 48.5	+49 53	I-25	DaOB	1.008		03:22	03:46	4
	} Focus Test									

Dome Temp. 78°F
 Focus $15.72 - .11 = 15.61$
 Dome Temp. 75°

Transparency Conditions

Extremely hazy

148

∞^+ - opened up (clear area $21''$)
 02:30 hazy (smog?) worse extinction $1-2''$

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	6.01	B9	6	set 7 B8-B9 sens 6 1156	⊙ there but very soft
0 37 W	-03 29	0	6.01	B9	6-6-6	set 8 B8-B9 sens 6 1158	
0 54 W	+40 27	0 ⁺	5.88	B8	6-6-6	set 8 B8-B9 sens 6 1162	⊙ fine
1 ^h 13 W	+50 56	0 ⁺	6.30	B8	6-6-6	set 5 B8-B9 sens 6 1166	fine
1 33 W	56 32	0 ⁺	5.72	B9	6-6-6	set 5 B8-B9 sens 6 1170	fine
0 16 W	+59 37	0+	6.36	B9	6-6-6	set 5 B8-B9 sens 6 1171	fine
0 50 W	+50 12	0+	6.42	B9	6-6-6	set 5 B8-B9 sens 6 1175	fine with some light
					20/16	set 9	1180
							1181
							1185

2
Good

after a false start, focussed telescope & rebalanced exposure meter & then forgot to open plate holder!
 at least Bob got some practice!

OK
 SL 2-15-100

Dome Temp. 82° F

Focus 15.63

Dome Temp.

Transparency Conditions

lazy
S by p.m. all night

150

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	W 0 ^m 23	+43 12	0-1	6.40	A5	6-6-6	set 5. Specth Binary-N	good quiet
10	21 01 W	-00 30	0	6.34	B8	6-12	» 5 B8-B9 Prog. A.F.W.A.P.	2. wky scattered comp. mark
24	3 01	+26 21	0-1	5.50	B9	6-6-6	" 5 " " #7 1204/1198.9	fine chip with
			0-1	5.93	B8	6-6	" 5 " " #7 1214 1217	fine comp. mark
	116 W	+40 27	"	"	"	6-12	" 9 " " #7 1235 1245	1st. guiding comp. mark
	224 W	+25 15	0	6.42	B9	6-6-6	" 5 " " #7 1209 1256	good mark
						20/15	" 9	OK etc. via

4 P.H. finished.

VISITORS - 160.

1ST HOUR: CLOUDY

2ND HOUR: SHOWED M13: 21:30-22:30 EST: P4. Sq.

152

Sat-Sun

Date 27/28 JULY

Observer R.M.

Julian Day 2438238

124 13 18.1 3440.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
27024	HD 187235	19 43.9	38° 09'	I 25	II aob	.008"	31°c	23:30	23:46	1
27025	HD 190658	20° 00.8	15° 13'	1 "	"	"	"	00:07	00:47	2
27026	HD 199892	20° 54.9	41° 33'	"	"	"	"	00:57	01:11	3
27027	HD 204428	21 23.4	52° 28'	"	"	"	"	01:25	01:32	A
27028	HD 204754	21 25.7	54° 59'	"	"	"	"	01:44	01:59	1
27029	HD 212454	22° 19.3'	56° 47'	"	"	"	"	02:09	02:21	2
	Focus test									
			02:20		clouded over					

Dome Temp. 80° F

Transparency Conditions

152

Focus 15.67

Dome Temp.

02:00 Clouds drifting in from S.W.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
46	0:03 N		1	5.65	B ₉	6-6-6	Set 5 Sans 6 B ₈ B ₉ Prog.	1269 1274 1279	strong
47	0:4 SW	15° 24'	1	8.0	gM ₂	6-6-6	" Sans P Hi. Vel. Spec. Bin.	1319 1326	good
11	0:16 W	41° 48'	0	6.01	B ₉	6-6-6	" Sans 6 B ₈ B ₉ Prog.	1331 1334	strong guiding
12	0:11 W	52° 45'	0	3.90	B ₈	6-6-6	" " -	1339 1343	l strong guiding
59	0:34 W	55° 15'	0	6.04	B ₉	6-6-6	" " -	1348	l strong
21	2:02 W		0	6.14	B ₈	6-6-	" " -	1350 1355	fine guiding
						20-16	Set 9.		c to red
							2 PH loaded.		

Dome Temp. 77°

Focus 15.61

Dome Temp.

Transparency Conditions

light cloud
01^h heavy cloud from NW

154

ing Time
E.S.T.

06

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 37 E	+50 13	0 ⁺	6.42	B9	6-66	set 5 B8-B9 Program #6 1362 1366	fine
01:20 closed up							
4 PH loaded +1							

155

Date July 21/30 Mon/Tu 1963 Observer ^{MT} ~~vd~~ - ^{Hw} ~~CW~~ Julian Day 2438240.
 @ 126 07 59.7 3441.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
2595-273	η Her	16 41.7	+ 28 59		5/6 133 28			20:40	ab	
2600-273	λ Sco	15 49.7	+ 07 38		5/6 133 28			21 05	ab	
2601-273	γ Her	16 40.3	+ 31 40		5/6 133 28			21 30	ab	
2602-273	HD 152792	16 52.5	+ 42 52		7/5 133 28			21 55	ab	1
2603-273	HD 177051	18 36.3	- 21 05		7/4 133 28			22 25	ab	
2604-273	α Lyr	18 35.6	+ 38 45		4/5 133 20			22 50	ab	2
2605-273	HD 179957	19 11.1	+ 49 44		7/4 133 28			23 20	ab	
2606-273	σ Dra	19 38.5	+ 63 26		6/5 133 28			23 45	ab	
2607-272	Saturn	21 34.4	- 15 42		5/4 133 28			00 15	ab	
27031	HD 182308	19 ^h 19.0	+ 64 ^m 10 ^s	I-25	Ilco B	.008	21.0°C	0045	01 07	1
27032	HD 202753	21 12.9	- 04 57	I-25	Ilco B	.008	"	01 19	01 43	2
27033	HD 216498	22 ^h 48.2	- 12 09	L-25	Ilco B	.008	"	01 56	02 14	3
27034	HD 215143	22 38.0	- 07 29	L-25	Ilco B	.008	20.6°C	02 21	02 49	4
27035	HD 222897	23 39.0	- 18 50	I-25	Ilco B	.008	"	03 05	03 19	1
27036	HD 1064	00 09.8	- 10 07	I-25	Ilco B	.008	"	03 29	03 57	2
	From Test									

Dome Temp.
 Focus 1550
 Dome Temp.

V=700 }
 CO₂ in } 1950

Transparency Conditions 8^d 3

2845 cloudless moonless
 PE=10-10-20

180m West C1

158

ing Time
 EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:15W + 1:23W		8"	4.43	50Z		sky OK	
2:04, 2:02W		7"	5.637 5.92	52Z		sky OK A+B	
1:44W 1:52W		6"	6.67	498		cloud dang!	
0 ^h 07 ^m E	+15° 24'	0 ⁺	8.0	3M2	6+9+6	(dB) SB 1401 - 1440	fine
00:17W	-14° 53'	6+	6.14	B9	6+6.6	Same 6 1444 - 1449 B8-B9	fine
00:57W		0	6.01	B9	6-6.6	Same 6 B8 B9 Prog Set 5 1450	fine
00:47E	-11° 19'	0	5.87	B9	6-6.6	Same 6 B8 B9 Prog Set 5 1450	fine
01:11E		0	6.37	B8	6-6.6	Same 6 B8 B9 Prog Set 5 1450	fine
01:47E	-66° 55'	0	6.40	B8	6-6.6	Same 6 B8 B9 Prog Set 5 1450	fine
00:00E	47° 45'	0	5.77	B9	6-6.6	Same 6 - A — Set 5 1450	fine
					20/16	Set 9	OK det vis

4PH ended.

Thin cloud in east of sky for rest of night.

161
 Counters. -60 from U of T. Shoud M13, 20:30-21:20 EST. - Py.
 Tried moon on Celestat, but not bright enough

Date Aug 1/2 Thurs-Fri 1967 Observer *Cu - Cu* Julian Day 2438243.
 0 129 00 06.3 3443.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27044	HD 170973	18 27.1	+13 55	T-25	Ilford B	1008	21.1	21:36	22:04	1
27045	HD 174858	18 47.5	+13 51	T-25	Ilford B	1008	21.1	22:20	22:34	2
27046	HD 178065	19 02.1	+10 30	T-25	Ilford B	1008	21.1	22:42	23:25	3
27047	HD 190658	20 00.8	+15 13	T-25	Ilford B	1008	21.1	23:22	00 16	4
27048	HD 138280	20 31.1	-03 57	T-25	Ilford B	1008		23:22	00:51	1
27049	HD 202753	21 12.9	-04 57	T-25	Ilford B	1008		00:59	01:17	2
27050	HD 209619	22 01.0	-14 21	"	"	"		01:24	01:32	3
	} Focus Test									

Dome Temp. 65°
 Focus 15.48
 Dome Temp.

Transparency Conditions *poor bright moon, haze
 & light cloud*
 00^h *more light cloud
 & dew starting to form* 162

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 5 ^m E	+3° 37'	0	6.32	B9	6-6-6	set 5 B9-B9 (M6.0) #6 1490	fine guiding
0 ^h 5 ^m W	+13° 55'	0	6.07	B9	6-6-6	set 5 " " #6 1492	good
0 ^h 36 ^m W	+10° 35'	0+	6.43	B9	6-6-6	set 5 B9 #6 1501	fine
0 ^h 35 ^m W	+15 24	0-1	6.00	M2	3-3-9	set 5 (VDE) SP #8 1520	fine
0 ^h 18 ^m W	-03 42	0	6.43	B9	6-6-6	set 5 #6 1547	fine
0 ^h 23 ^m W	-04 41	0	5.63	B8	6-6-6	set 5 B8-B9 #6 1552	fine
0 ^h 10 ^m E	-14 01	0	4.30	B8	12-6	set 5 B8-B9 #6 1557	best guiding
					20/16	set 9	to orbit

01:45 *cloud up
 light cloud & heavy dew*
 background fog level
 higher with fast
 developer

2 PH loaded.

163

Date Sun/Mon 4/5 Aug 63 Observer Ch - Gh Julian Day 2438246.

① 131 52 19.1 3446.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
27051	169033	18 17.6	-12 03	T-25	IIa06	0.008	20.0	21 30	21 43	4
52	177817	19 01.1	-16 23	" "	" "	0.008	20.0	21 55	22 35	1
53	193452	20 15.2	-15 06	" "	" "	0.008	20.0	23 06	23 27	2
54	192666	20 10.9	-12 39	" "	" "	0.008	20.0	23 38	23 58	3
55	190658	20 00.8	+15 13'	" "	" "	0.008	20.0	00 11	00 31	4
56	202149	21 08.9	-11 01	" "	" "	0.008	20.0	00 43	01 11	1
57	202753	21 12.9	-4 57	" "	" "	0.008	20.0	01 21	01 32	2
	} Focus test									

Dome Temp.

+72°F

Transparency Conditions

166

Focus

15.53

Dome Temp.

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 33 E	-14 02	1	6.33	B9	6-6-6	B8-B9 Png. Set 7 { 1659 1571	good
0 03 E	-18 48	1-2	6.32	B8	6-6-6	B8-B9 Png. Set 7 { 1724 1736	good
0 08 W	+15 23	2	8.0	9M ₂	6-6-6	Spect. Bin. VdB. Set 8 { 1744 1754	fine
0 00	-10° 45	2	6.7	B ₇	6-6-6	B ₇ -B ₈ Png. Same Set 5 { 1807 1812	good guiding
0 11 W	-04 30	2	5.33	B ₈	6-6-6	— " — Same Set 5 { 1818 1824	poor guiding
0 25 W	-02 27	3-2	8.7	G ₂	6-6-6	Fal Spec Bin. Same Set 5 { 1834 1840	good
0 41 E	07 15	2	5.74	B ₇	6-6-6	B ₇ -B ₈ Png. Same Set 5 { 1846 1852	fine
0 41 E	47 45	2	5.74	B ₇	6-6-6	B ₇ -B ₈ Png. Same Set 5 { 1858 1904	fine guiding
0 41 E	59 15	2	5.90	B ₇	6-6-6	— " — Same Set 5 { 1910 1916	good guiding
					20/5	Set 9.	OK w/ slightly to
Clouded over							
2 PM break							

Dome Temp. $+78^{\circ}\text{F}$
 Focus $15.67 - .11 = 15.56$
 Dome Temp.

Transparency Conditions *Hy Clouds until 20:45 then wispy* 168

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:55 W	$+12^{\circ}36'$	0	2.14	AS11	6-6-6	pet 5 MK STD Prog. #4	{ 1925 fine 1927 fine
0:35 E	$+13^{\circ}55'$	0+	6.07	B9	6-6-6	pet 5 BB-B9 - dbl line #6	{ 1933 L W K 1937 L W K
0:45 W	$+43^{\circ}12'$	1+	6.40	A5	6-6-6	pet 5 N S.B. period 1.3" #6	{ 1939 good 1943 guiding

NO FOCUS TEST!

22:45 closed up. Heavy cloud

3 P.H. loaded.

169

Date Aug 28 1933 Wed Thur Observer Gh - 56
me RM
Sm - J Julian Day 211.5

Plate No.	Object	R.A. 1900	Declination 1000	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour En
272-2611	172, 107 Vega	18 35.7	+38° 45'		5/14/33	14		20 ⁴⁰			
275-2612	165, 201	18 34.0	+38 25		2/3/33	28		21 ⁰⁰	trace		
273-2613	154, 345	17 01.9	+42° 02'		8/12/33	28		21 ⁵⁵	trace		
225-2614	160, 249-265	17 34.6	+61 54		8/20/32	28		22 ⁰⁰	trace		
276-2615	182, 572	19 23.3	+41 52		8/12/33	28		23 ¹⁰	trace		
275-2616	182, 973	19 50.5	+41 34		8/13/33	28		23 ³⁵	trace		
275-2617	182, 422	19 22.1	+33 08		8/13/33	24		00 ¹³	trace		
275-2618	179, 817 S	19 11.1	+47 44		8/13/33	28		01 ⁰⁰	trace		
275-2619	186, 277-105	19 40.9	+50 25		8/13/33	28		01 ⁴²	trace		
275-2619	"	"	"		"	"		01 ⁴⁰	trace		

Dome Temp.

Focus

Dome Temp.

log ... : 19⁰⁵ EST
VAD ... : 700v

Transparency Conditions

MOON up 170

19⁰⁰: sky perfect

20⁰⁰: strong wind. the state ...

all of sky; haze ...

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ⁰⁰ W		7"	6.08	G2 V		20 ⁰⁰ : ...	
0 ⁰⁵ W		7"	6.79	G2 V		keeps dropping ...	
0 ¹⁰ W		7"	6.77	G8 V		21 ⁴⁵ : thin ...	
0 ¹⁵ W, 01 ⁵⁰ W		9"	5.31	G0 V		20 ⁰⁰ : sky ...	
0 ²⁰ W, 02 ⁰⁰ W		10"	5.7	G8 V		it was focused	
0 ²⁵ W, 02 ³⁰ W		7"	5.78	G2 V			
0 ³⁰ W, 02 ⁴⁵ W		8"	6.4	G8 V			
0 ³⁵ W, 02 ⁵⁵ W		7"	6.75	G4 V		A+S in ...	
0 ⁴⁰ W, 03 ⁰⁵ W		8"	6.20	G5 I		02 ⁰⁵ : ...	
0 ⁴⁵ W		9"	5.96	G2 V		- amplifier ... - and ... found it ...	
						02 ⁰⁷ : ...	
						02 ¹⁰ : ...	
						02 ¹⁵ : ... - MOON UP	

571

Date Aug 2/9 Thurs. Fri Observer RM ME
SM - HW Julian Day 2438250

① 135 42 10.0 3450.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
276-2620	HD 251	18 ^h 36.7	-21° 05'	6/6/33	2C			22 ⁰⁰	focus	
276-2621	HD 251	20 ^h 31.0	-23° 55'							
27070	HD 1279 MWC 395	22 ^h 56.3	+38° 10'	I-25	Ilcob	.008	24	0203	0247	2
27071	HD 217543	22 ^h 56.3	+38° 10'	I-25	Ilcob	.008	24	0203	0247	3
27072	HD 1279	0 ^h 11.9	+47° 24'	I-25	Ilcob	.008	24	0255	0305	4
27073	HD 7546 } focus test	1 ^h 10.5	+47° 33'	I-25	Ilcob	.008	24	0316	0336	1

Dome Temp. _____
 Focus 5.52
 Dome Temp. 58°

CO₂ m: 210.5
 Volteq: 700V

Transparency Conditions _____
 20³⁰: say cloudy & haze
 21¹⁵: clearing all gone
 but up at horizon still haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ¹⁵ N			5.69	d64		focused star ← 22 ¹⁵ : light cumulus clouds moving over star 22 ⁰⁰ sky all clouded over again except low & long on east. Very little haze then too 22 ²⁴ : clouds moving over 190, 261 to !! 22 ¹⁵ : all fast moving up from west.	
2 ¹⁵ W	15° 24'	0	6.0	B3ne	6-6-6	set 5 vdB SB	#6 { 1977 fine
47 3 ⁰ 38 W	+38° 31'	0 ⁺	6.4	B3ne	6-6-6	set 5 Be Prog - Hd.	#6 { 1982 fine 1983 complete
05 4 ⁰ 22 E	+47° 44'	0 ⁺	5.77	B9	6-6-6	set 5 B8-B9 prog.	#6 { 1983 fine 1987 scanned at 2930
36 4 ⁰ 48 E	+47° 53'	0 ⁺	6.45	B8	6-6-6	set 5 " set 9	#6 { 1984 fine 1983 good

173

Date Aug 9/10 Observer GH - RM Julian Day 2438251

0 136 39 40.7 3452.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
<u>27074</u>	158706	17 25.6	-26 40	825	Ilford	c.c.28	22.0	20 56	21 22	2
277-2621	172 051	18 ^h 36.7	-21 05		616/33	28		21 ⁵⁰	trace a, b	
277-2622	142 267	15 51.6	+13 20		7/4/33	28		22 ²²	trace a, b, sky	
277-2623	122 572	19 23.3	+11 52		6/5/33	28		23 ⁰⁶	trace a, b	
277-2624	196 761	20 38.0	-22 55		813/33	28		23 ⁴³	trace a, sky, b, sky	
277-2625	197 076	20 39.1	+19 40		6/6/33	28		00 ⁰⁰	trace a, b, sky	
277-2626	208 776	21 36.8	+02 37		7/5/33	28		00 ⁰⁰	trace a, b, sky	
277-2627	195 107	17 27.0	+19 45		4/7/31	28		02 ¹⁰	trace e	
277-2628	15 116	02 28.2	+08 18		6/4/33	28		02 ⁵⁵	trace a	
277-2629	217,014	20 31.3	+20 35		7/5/33	28		03 ⁴⁵	trace a, b	

Dome Temp. 68°
 Focus 15.50
 Dome Temp.

CO₂ in : 20^{45} 50^{35}
 1) Stage : 790V

Transparency Conditions Good 174
 21⁰⁰ : sky perfect
 21⁰⁶ : sky perfect all around
 except for a few clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 46W	-26 14	0	5.9	B ₉	6-6-6	Set 5 - B ₉ Prog.	1997 good
01 11W, 24W		8"	5.69	dG4		22 ¹¹ : blue cloud at top	1998
01 30W, 20W		9"	6.10	G ₂ I		← 22 ⁴⁵ : sky perfect	
01 42W, 00W		10"	5.17	G ₈ V		← 22 ¹¹ : blue cloud at top	
01 55W, 00W		10"	6.36	dG7			
02 00W, 01W		7"	6.46	dG2		60 ³⁵ : sky perfect	
02 11W, 00W		7"	6.94	G0I		01 ¹⁸ : visitor's eyes light on for time & eye	
02 40W		13"	0.03	H0I		01 ²⁵ : sky still fine	
02 50W		11"	4.27	89I		04 ²⁴ : brown recorder pen makes trouble - its	
03 50W, 20W			5.53	G5I		slight does not pull it out sufficiently to get ink	
						for 2029 b, sky growing very bright	
						some plates have been exposed at our end they are marked on back for 2029	

Dome Temp. 65°F.

Transparency Conditions

176

Focus 15:50

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:50 W	-43° 11'	2	6.90	A _s	66-6	N Spec Bin Set 5 Sens 6	2017 plate mount seeing 0.5" good
01:22 W	+15° 23'	2	8.0	9M ₂	6-12 20/16	Hi. Vel. Spec Bin. Set 5 Sens 8 Set 9	2021 2023 l ut - see com - above det violet
Clouded over. 00:00 - 00:30							

Dome Temp.

Focus

Dome Temp.

dry air in: 20³⁵, 23⁴⁵
 voltage: 700V

Transparency Conditions

20³⁵: yellow sunset
 21⁰⁰: night perfect

178

g Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10 ³⁰ W, 00 ³⁰ W		8"	6.28	G5		21 ⁰⁰ : excellent night, Milky Way out,	
11 ⁰⁰ W, 00 ³⁰ W		7"	6.79	G2V		other visible in September on low clouds	
11 ³⁰ W, 01 ⁴⁵ W		9"	6.58	G5V			
12 ⁰⁰ W, 01 ³⁰ W		8"	7.0	G8V			
15 ⁰⁰ W		14"	0.03	G0V			
16 ⁰⁰ W, 01 ¹⁵ W		9"	5.78	G2V			
17 ⁰⁰ W, 00 ³⁰ W		10"	5.06	G2		focused star	
18 ⁰⁰ E, 00 ⁰⁰ E		7"	6.07	G2		21 ⁰⁰ : Moon in east, 00 ⁴⁰ : clearing of both from sky	
18 ⁴⁵ W, 00 ⁴⁵ W		8"	6.14	G0			
19 ⁰⁰ W		7"	5.42	G1		02 ⁰⁰ : cirrus high over the evening, Venus whole sky 02 ⁰⁰ : cirrus cloud a night - left of eye 317, 116, 111 - 110 - double stars, the left one is G6 star - only the right 02 ⁴⁵ : eastern horizon passing from red hot to blue to black	

Dome Temp. 15°
 Focus 15.43
 Dome Temp.

CO₂ in: 21⁴⁵ EST
 Voltage: 700V

Transparency Conditions

21⁴⁰: sky perfect

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 52W	-25° 27'	0	6.7	B8	6-6-6	sets B8-B8 programme #6 2147	fine
0 527W	-19° 17'	0+	6.7	B8	6-6	sets B8-B7 #6 2151	fine
0 22 ²⁵ W		5"	5.31	G0I			spots scratched
0 10° W 00° W		8"	3.71	G8IV		22 ⁵⁵ : sky perfect all over except at horizon	5 up
0 12 ²⁴		10"	0.03	A0I		23 ¹⁴ : ink stopped running	
0 12 ²² W		7"	5.70	G6IV			
0 12²²W			6.00	26			
			6.50	162		00 ¹⁸ : wind moving up quickly in SE, S, SW	
						running = 70° up	
0 12 E	12° 29'	1	8.7	G5	6-6-6	sets Ecl Spec Bin Sans 8 2151	fine
0 12:25 E	56° 57'	0	6.49	B8	6-6-6	sets B8-B7 Sans 6 2201	fine
0 12:17 E	47° 45'	1-2	5.77	B9	6-6-6	" " " 2213	guiding
0 13:0	59° 46'	1	5.70	B9	6-6-6	" " " 2219	guiding
0 13:0 E	47° 55'	1	6.45	B8	6-6-6	" " " 2210	lottery
0 13:0	40° 07'	1	6.59	B9	6-6-6	" " " 2214	guiding
					20/14	2215	lottery
						2217	fine
						2218	
						3PH ended	good

181

Date Thu - Fri 15/16 Aug 68 Observer Cm - H Julian Day 2438257
 0142 25 15.5 3461.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27085	17195	15 32.4	-14° 06'	I-25	Ilford	.008	18°	20 26	20 40	3
280 -2644	157,214	17 ^h 19.3	+32° 31'	7/4/33		28		20 ⁵³		
-2644	172,167 Vega	18 35.6	+38° 45'	4/5/33		28			a	
-2645	177,758 Arcturus	19 10.1	+49° 44'	6/6/33		28		21 ⁴⁴	a, sky	
-2646	187,923	19 50.5	+11° 34'	6/6/33		28		22 ¹⁰	e, b	
-2647	192,067	20 20.7	+15° 29'	7/5/33		28		22 ⁴⁰	a, sky	
-2648	193,360	20 02.1	+29° 47'	7/4/33		28		23 ⁰⁰	e, b	
-2649	193,664	20 17.1	+66° 45'	6/6/33		28		23 ³³	a	
-2650	190,406 Sige	20 02.5	+16° 58'	6/6/33		28		23 ⁴⁸	a	
27086	HD 1256	00 11.7	-20 46	I-25	Ilford	.008	18.2	00 58	01 46	4
27087	" 8937	01 22.0	+39 48	"	"	"	"	01 58	02 12	1

Dome Temp. 30°
 Focus 15.44
 Dome Temp.

CO₂ in 1915
 voltage 200V

Transparency Conditions
 1920; all clear except a few clouds
 1921; all clear except a few clouds
 1922; all clear except a few clouds

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	0 38 E	-14 01	0"	5.39	B9	6-12	set 5 B8-B9 #6 2256	good
	0° W		8"	5.03	B0			
	0° W		4"	6.75	G4			
	0° E, 90° E		4"	6.78	G2		20 ⁴⁵ : bright for dark level kept jumping all over - used time	
	0° W		3"	7.1	G8		21 ⁰⁰ : keep getting 219° star, in the foreground	
	0° W, 00° W		4"	5.70	G6		21 ⁰⁵ : fine all over except one irregular spot in S	
	0° W		3"	5.94	G5		21 ¹⁰ : haze in S = 80° up	
	1° W		5"	5.80	G6		21 ¹⁵ : haze in S = 40° up - rest of sky fine	
							21 ²⁰ : haze blotch 4" up in SE, rest of sky milky	
							21 ²⁵ : although around 193, 194 is high what is	
							21 ³⁰ : stroke of comet in SW = 47° up not 40°	
							for Jan 193346	
6	0111 E	-20 23	00	6.40	B3	6-6-6	Set 5 B3-B3 #8 2288	fine
2	0105 E	+40 10	0-1	6.34	B9	6-6-6	" 5 " #7 2303	fine

183

Date Aug 15-16/43 Cont'd. Observer Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
27088	HD 3298	01 26.4	+34 13	I ²	506	.008	18.2	02 26	02 40	2
27089	" 11905	01 51.9	+41 12	"	"	"	18.4	02 52	03 14	3
27090	" 14272	02 13.1	39 23	"	"	"	"	03 20	03 36	4
27091	" 16204	02 27.2	39 15	"	"	"	18.5	03 41	03 51	1
27092	" 19698	03 05.2	+11 30	"	"	"	"	04 01	04 13	2
	Focus Test		TOB							

Dome Temp.

Transparency Conditions

Good

184

Focus

Dome Temp.

+53° F

Out for inspection

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0432E	+34 37	0-1	6.23	B ₃	6-6-6	sets B ₃ -B ₃ #7 ²³⁰⁷ / ₂₃₁₇	ok
0123E	41 32	0-1	6.56	B ₃	6-6-6	" " #7 ²³²³ / ₂₃₃₃	ok
0125E	39 42	0-1	6.46	B ₃	6-6-6	" " #7 ²³³⁵ / ₂₃₄₅	ok
0124E	39 32	1	6.26	B ₃	6-12	" " #7 ²³⁴⁷ / ₂₃₅₇	ok
0127E	+11 45	0-1	5.89	B ₃	6-12	" " #7 ²³⁶³ / ₂₃₇₃	fine
					20/15	" 9	OK
3 P.M. Load in folder.							
#22097 → 27097 developed for 7.7							
in 65° Airframe							

Dome Temp.

Transparency Conditions

Good

186

Focus 15.44

Dome Temp. 56.0°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 ^h 04 ^m W	+15° 24'	0	8.0	M2	9-9-9	set 5 (VdB) - SB	select # 8 { 2375 2405 } fine
09 ^h 09 ^m W	+23° 15'	0	6.42	B9	6-6-6	set 5 W4 - dde	select # 6 { 2407 2411 } fine many times
04 ^h 42 ^m E	-18° 27'	0+	5.21	B8	6-6-6	set 5 "	select # 6 { 2413 2417 } fine
0 ^h 00	-9° 46'	0	5.74	B9	6-6-6	set 5 B8 - B9 prog.	select # 6 { 2422 2426 } 2 strong quadrup
0 ^h 43 ^m W	-20° 24'	0	6.40	B8	6-6-6	set 5 "	select # 6 { 2428 2432 } fine complex wk
0 ^h 00	+34° 36'	0+	6.23	B8	6-6-6	set 5 set 9 "	select # 6 { 2433 2437 } fine
							OK

4 ph loaded.

27093 → 27.01 dec 8.1 in 64" Cc pipe

using temp as in time course 5

187

Date ^{7 Nov} ~~July 1933~~ 1933 Observer ^{Hrc} ~~RM~~ RM Julian Day 2438260.
 @ 145 18 22.7 3465.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Ang End
1211-2651	190,269 26 Dra	17 ^h 34.6	+61° 54'	6/5/33	28			20 ¹⁵	a		
-2652	154,345	17 01.8	47° 07'	6/6/33	28		20 ¹⁵	a, b			
2653	172,051	18 36.7	-21° 05'	6/6/33	28		21 ²⁰	a, b			
2654	158,614 3	17 28.5	-01° 02'	6/6/33	28		21 ⁵⁰	a; b			
2655	α Lyr	18 35.6	38 45	3/5/33	28		22 ¹⁵	a, b, c, d			
"	"	"	"	5/4/33	14		20 ¹⁵	c			
Thin clouds from 01:30 on											
Clouds getting in thick. 03:15 Clouds up.											
No further work since East plate unloaded											
27099	HD 584	10 15.2	-56° 36'	I 25	Ilacoh	.008"	-18.4°	01:15	01:41	1	0:55
27100	HD 2626	10 24.3	+59° 25'	I 25	Ilacoh	.008"	-18.4°	01:49	02:07	2	0:50
27101	HD 11291	1 45.8	+50° 15'	"	"	"	"	02:39	03:05	3	0:15

Dome Temp. $+60^{\circ}F$

Focus 1547

Dome Temp.

Transparency Conditions

190

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
03:15W	$52^{\circ}17'$	2+	7.5	09Ib	6-6-6	MK STDS. Set 5 Ser 8	2469 2507 -2	entirely sup fine guiding
	calc $\alpha 1963 = -21^{\circ}10''$	10 ^m				(+1" elev + slightly lower dec.)		
20:42W	$-59^{\circ}47'$	1	5.90	B9	6-6-	B8 B9 Prng Set 5 Ser 6	2512 2516	guiding 2 string
20:12W	$-40^{\circ}09'$	1	6.34	B9	6-6-6	B8 B9 Prng Set 5 Ser 6	2518 2522	fine
					20/16			OK
						2 PH loaded.		

CO₂ in: 20²⁰ EST

Dome Temp. +72°F
 Focus 15.52 at
 Dome Temp. 65

Transparency Conditions *light haze, 100' cloud in SW*
 20⁴⁵: uniform milky sky } *good! 192*
 21⁰⁰: 100' much haze for photography

22:20 clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 29 E	+43° 14'	1	6.40	A5	6-6-6	set 5 N Spectr. Bin. sens. 6 2528 2534	fine
01 00 W			5.31	G0V		21 ⁰⁵ : small ladder very hard to move	
00 07 W	+15° 24'	1-2	8.0	g112	9-9-9	set 5 vdB Spectr. Bin. sens. 8 2581 2582	fine
00 14 E	-01° 03'	0.1	6.26	B8	6-6-6	set 5 B8-B9 program sens. 6 2588 2590	good
00 00	-04° 42'	1	5.62	B2	6-6-6	set 5 " " sens. 5 2595 2599	fine
00 15 W	+23° 11'	1	6.42	B9	6-6-6	set 5 " " sens. 6 2603 2604	fine
00 15 W	+02 29	1	8.7	G5	6-6-6	set 5 SEB SZ Pac 9 2644 40	fine
00 48 E	+66 33	2+	6.40	B9	6-12	set 5 B8-B9 6 2646 2650	fine
00 46 E	+65 46	2	7.1	B5eB	6-6-6	set 5 Hd Be program (right star?) 7 2651 2662	fine
00 35 E	+63 08	3	7.5	B5e	6-6-6	set 5 Hd Be program 7 2663 2675	fine
00 08 E	+59 28	3-2	8.2	B3e	6-6-6	set 5 Hd Be program 8 2676 2706	fine
00 35 W	+58 25	2	6.19	B9	6-6-6	set 5 B8-B9 field does not check 6 2708 2712	fine

3rd H loaded

Small ladder repairs left near eastern
 replaced.

field drawn for #2712 signals
 with that for some plates of
 this star, but, neither
 in the field drawn.

Dome Temp. 78°F

Focus 15.67 - .11 = 15.56

Dome Temp.

Transparency Conditions *very sl. haze*

194

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26	0:28 E	+43° 12'	1	6.40	A5	6-6-6	Sets SB-N (7) { 2755 2967	fine
27	1:11 F	+69° 30'	2	6.38	B9	6-6-6	Sets BF-B9 AR7227 (7) { 2773 2785	fine
31	1:12 W	+02° 56'	2:	4.00	B5 Ib	18 ^s	Set 0 2cls, 1 4cls, 3 8cls + comb (6) { 2795 2798	fine
	0:31 W	+32 38	2:	3.30	B9 III	18 ^s	Set 7 8cls, 9 4cls, 10 2cls + comb (6) { 2832 41 47	fine
03	00 44W - comb.	+15 23	1+	8.0?	M2	6-6-6	Sets VABsB (8) { 2851 2893	fine
3:36	0:13 E	+23° 15'	1+	6.42	B9	6-6-6	Sets BF-B9 (7) { 2901 2913	fine
3:13	0:16 N	+43° 13'	1+	6.40	A5	6-6-6	Sets SB-N again (7) { 2917 2929	fine
2:07	1:40 E	+52° 15'	1+	7.5	09Ib	6-6-6	Sets MK STDs (7) { 2981 2971	fine
1:40	1:40 E	+56° 58'	2	6.77	B2	6-6-6	Sets B2 B9 Png (8) { 2986 2994 3000	fine
1:30	1:30 E	+40° 07'	1	6.34	B9	6-6-6	Sets B2 B9 Png (7) { 3000 3000	fine
1:15	1:15 E	+74° 07'	1	6.37	B8	6-6-6	Sets B2 B9 Png (7) { 3000 3000	fine
1:04	1:04 E	+60° 51'	1	6.58	B2	6-6-6	Sets B2 B9 Png (7) { 3000 3000	fine
0:13	0:13 E	+58° 27'	1+	6.19	B9	6-6-6	Sets B2 B9 Png (7) { 3000 3000	fine
0:07	0:07 E	+61° 32'	2	6.00	B9	6-6-6	Sets B2 B9 Png (7) { 3000 3000	fine
						20/6	Set 9	
		2 PH					CAUTION - ladder is now very skittish!	

Dome Temp. 74°

Focus 15.66 - 11 = 15.55

Dome Temp.

Transparency Conditions

196

ing Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:30 W	-00° 30'	+	6.3K	B-8	6-6-6	set 5 B8-B9 #5 { 3088 3092	1. weak guiding
0:10 W	+26° 23'	1	5.9	B8re	6-6-6	set 5 Be programme #6 { 3074 3100	guiding good
0:05 E	-35° 22'	1	4.5	B6e	6-6-6	set 5 Be #4 { 3107 3110	guiding good
0:00	+42° 35'	1+	7.1	B5re	6-6-6	set 5 " #7 { 3112 3127	guiding good
0:52 W	+57° 35'	2	7.0	B0ne	6-6-6	set 5 " #8 { 3132 3139	guiding good
3:43 W	-56° 35'	3	8.1	Bse	6-6-6	set 5 " #8 { 3185 3220	guiding very poor
3:28 W	+50° 00'	3	6.8	A ^{4?} R ^{6?}	6-12	Set 5 " 7 { 3224 3238	guiding poor
					20/16	set 9	partly fogged
	1.20						thin clouds covering sky
							Guiding very poor
							3 PH loaded
							Frank. there are no more fuses in dome

1917

Visitors: 85 first hr. 19.45-20.45 } showed
 84 second hr. 20.45-21.45 } M13 - Py. Ln. CC.

Date Sat/Sun Aug 24/25 Observer - H.V. Julian Day 2438266.
 @ 151 05 13.3 3472.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 26.0	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27137	HD 217312	22 54.8	+62 32	I-25	Ilab	008	20.0	23 00	23 46	2
27138	HD 226075 MWC 409	23 57.3	-55 00	"	"	"	19.8	00 00	01 18	3
27139	HD 223501 MWC 402	23 45.0	61 39	"	"	"	19.8	01 26	02 36	3
	SZ Pk							02 49	03 30*	4

*
 E.S.T. 03 30
 MWC 402

Dome Temp. $+6/0^{\circ}F$

Transparency Conditions

 $V, Good$

198

Focus 15.47 2340 DOME WINDOWS OPENED

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0118E	62 53	0-1	7.8	B ₀ II	6-6-6	Set 5 Double line Bin (Ad) #8 3237 3263	good. 1 side comp. with
0050E	55 19	1-2	7.6	B ₁ e	6-6-6	" 2 Be Para #8 3267 3304	good
0112W	62 01	1-2	8.2	B ₃ e	6-6-6	" 8 " #8 3306 3345	good
<					6	" 2 E-1 Bin #8 3351	very weak
						2 PH. Loaded	
						USE PH #4 ON SET 8 ONLY	

109
Date Sun. Mm. Aug 25/26 Observer Hw - Mt Julian Day 2438267
 ☉ 152 03 06.1 3474.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27140	HD 169033	18 ^h 17.6	-12° 03'	I-25	IIaob	^{set} .008	21.5	20 06	20 26	4
27141	{ HD 170973	18 ^h 27.1	+03° 35'	I-25	IIaob	.008	21.5	20 33	21 05	1
27142	{ HD 174353	18 ^h 47.5	+13° 51'	I-25	IIaob	.008	21.5	21 : 13	21 : 39	1
27143	{ HD 182618	19 ^h 20.4	+27° 53'	I-25	IIaob	.008	21.5	21 : 44	22 : 06	2
27144	{ HD 193452	20 ^h 15.2	-15° 06'	I-25	IIaob	.008	21.5	22 : 14	22 : 44	2
27145	{ HD 205087	21 ^h 27.9	+22° 56'	I-25	IIaob	.008	21.5	22 : 53	23 : 15	3
27146	{ HD 209819	22 ^h 01.0	-14° 21'	I-25	IIaob	.008	21.5	23 : 22	23 : 26	3
27147	{ HD 202149	21 ^h 08.9	-11° 01'	I-25	IIaob	.008	21.5	23 : 37	01 : 05	4
27148	{ HD 219113	23 ^h 2.3	+2° 08'	I-25	IIaob	"	21.5	01 : 18	01 : 58	4
27149	{ HD 3038	0 ^h 28.6	+66° 12'	I-25	"	"	"	02 : 41	03 : 00	1
27150	{ HD 10425	1 ^h 36.6	+60° 05'	"	"	"	"	03 : 10	03 : 20	1
27151	{ HD 10760	1 ^h 35.3	+60° 32'	"	"	"	21.0	03 : 35	03 : 55	2
27152	{ HD 11257	1 ^h 51.4	+61° 12'	"	"	"	"	4 : 13	4 : 31	2

Dome Temp. 68°F

Focus 15.49

Dome Temp.

Transparency Conditions

200

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26 4 0 ^h -00	-12° 02'	0 ⁻	5.68	B8	6-6-6	set 8 B8-B9 prog. sens 6 {3366 3370	fine comp. work
05 1 0 ^h 30 W	+3° 38'	0	6.32	B9	6-6-6	set 2 " dbl line. sens 6 {3371 3375	fine
39 1 0 ^h 45 W	+13° 56'	0	6.07	B9	6-6-6	set 8 " " sens 6 {3376 3380	fine
06 2 0 ^h 39 W	+28° 01'	0 ⁺	6.31	B8	6-6-6	set 2 B8-B9 prog. sens 6 {3381 3385	fine
4 2 0 ^h 21 W	-14° 54'	0	6.14	B9	6-6-6	set 8 " sens 6 {3386 3390	fine
15 3 0 ^h 19 E	+23° 15'	0 ⁺	6.42	B9	6-6-6	set 2 Wt d & e sens 6 {3391 3395	fine
3-2 3 0 ^h 40 E	-14° 02'	0 ⁺	4.30	B8	6-6-6	set 8 " sens 6 {3396 3400	fine
0 4 22 53 W etc	-10° 45'	0	6.47	B9	6-6-6	set 2 B8-B9. sens 6 {3407 3411	fine
158 2 5 42 W	+2 29'	0 ⁺	8.7	G-5	6-6-6	set 8 ^{Hg} B8 sp. bin ^(no other) available sens 8 {3411 3415 (20)	good
1 2 0 ^h 27 W	+6 33'	1 ⁺	6.4	B-9	6-6-6	set 2 weight d & e sens 6 {3431 3435	fine
20 1 0 ^h 22 E	-60 21'	2	5.73	B-9	6-6-6	set 8 " sens 6 {3436 3438	fine ^{good}
55 2 0 ^h 15 W	160 51'	2	6.58	B-8	6-6-6	set 2 B8-B9 sens 6 {3448 3452	fine
31 2 0 ^h 34 W	161 31'	2	6.00	B-8	6-6-6	set 8 B8-B9 sens 6 {3453 3457	fine

Plates were not put in dark room drawer!!

They were left in observing case!

203
 Visitors: 85 } showed
 + 65 } M13 1930-21 30 EST
 Pu. Ln.
 M.C. M.C.

Date Sat/Sun Aug 31/Sep 1 Observer Jr. Julian 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.
283-2687	1937.55	20 27.6	+09° 48'		4/5/33	28		22 ⁰⁰	a, b, c, d	
288	1937.55	18 25.6	+10° 45'		4/5/33	28		22 ¹⁵	a	
289	214 232 X 24	21 29.6	-12° 26'		7/4/33	28		23 ⁰⁰	a, b, c, d	
280	M13, M	21 29.6	-09° 42'		4/5/33	28		00 ⁴⁵	a, b, c, d	
286	213 014 S.P.	21 29.7	+20° 35'		4/5/33	28		01 ⁰⁰	a, b	
287	214 232	00 35.4	-24° 58'		7/4/33	28		01 ²⁵	a, b	
288	1937.55	00 42.9	+31° 28'		5/18/33	28		02 ¹⁰	a, b	
289	6584 X 24	01 05.7	+56° 45'		6/5/33	28		02 ⁴⁰	a, b	
290	2032	01 17.9	-30° 40'		6/4/33	28		03 ⁴⁵	a, b	
2666	13974 X 24	02 11.0	-22° 59'		6/4/33	28		04 ¹⁰	a, b	
2667	13974 X 24	02 11.0	+34° 00'		6/5/33	28		04 ⁰⁰	a, b	

Dome Temp. 57°F
 Focus
 Dome Temp.

CO₂ in: 22.07
 Voltage: 700V

Transparency Conditions Perfect for 30 days
 at all times. Clear
 only with

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W		10"	502	162		100% clear, very blue	
W		14"	500	162		20%: 100% clear, 20% instrumented diffraction	
W		4"	514 515	162		primary stars, faint spots	
N 00° W		6"	500	162		90% ²⁰ , all clear	
N 30° W		4"	508	162		01% for view of light	
E 00° E		8"	571	162		01 ²⁰ under cloud at 100% up N	
E 00° W		10"	545	162		02 ¹⁰ light cloud at 100% up	
W 00° W		4"	512	162		01% under 2 light clouds at 100% up	
W 00° W		8"	586	162		01 ⁰⁶ sky clear again	observed by cloud?
E 00° E		8"	537	162		00% all clear	
W 30° W		8"	487	162			

205

Date Jan 17, 1933 Observer W. I. Julian Day 334.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
2668	161,797	17 25.0	+27° 29'		5/3/33	28		21 ⁵⁵	a, b, c	
2669	161,533	17 24.7	+27° 21'		7/4/33	28		22 ⁵³	a, b, c	
2670	162,572	17 20.3	+27° 52'					22 ⁵⁰		
2671		16 54	+28° 45'		5/3/33	28		21 ⁵¹	c, d	
2672	168,525	18 53.5	+06° 19'		6/4/33	28		21 ⁵⁰	a, b	
2672	196,755	20 37.4	+09° 58'		6/5/33	28		22 ²⁵	a, b	
2673	197,076	20 39.1	+19° 48'		7/4/33	28		22 ⁵⁴	a, sky	
2674	202,110	21 52.2	+06° 42'		7/4/33	28		23 ¹⁶	a, b, sky	
2675	217,166	22 56.7	+09° 10'			28		23 ⁵⁵	a, b, c	
2676	217,014	23 01.9	+20° 35'			28		23 ⁵⁰	a	

Dome Temp. $32^{\circ}E$ CO₂ in 1 $12^{\circ}EST$

Transparency Conditions

Fair 5000

206

Focus

102000 700V

Some clouds low in E

Dome Temp.

Full Moon 4p

ing Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$2^{\circ}N, 20^{\circ}W$	$01^{\circ}20'W$	6"	2.42		55V	20° : sky clear to horizon; some clouds low in E	
$1^{\circ}W$		6"	2.42		50	20° : sky clear to horizon; some clouds low in E	
		5.17			52IV	1° : all clear around	
$0^{\circ}N, 2^{\circ}W$		10"	2.42		A5I	1° : all clear around	
$3^{\circ}N, 20^{\circ}W$		6"	2.71		58IV	20° : sky clear to horizon; some clouds low in E	
$5^{\circ}W, 00^{\circ}32'W$		4"	5.08		dG2	21° : sky clear to horizon; some clouds low in E	
$5^{\circ}W$		4"	6.46		dG2	22° : all clear around	
$2^{\circ}E, 00^{\circ}E$		4"	6.14		G0	22° : sky clear to horizon; some clouds low in E	
$1^{\circ}E, 00^{\circ}W$		6"	6.42		dG1	22° : cirrus in E; W high up (15000) 00° : big group of cumulus species coming from W to E 20° : had to wait till clouds moved out from S $00^{\circ}50$: cirrus coming in from W 00° : cirrus filaments fill sky in N, W and S from large up to go on. finally go on light	
						It shows that process goes west of obs. - cannot say	

207

Date 20 Sept 1963 Observer MT - HW Julian Day 2438.278

① 162 41 17.8 3490.8

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 At End
	HD 177678 MWC 310	19 ^h 00.5 ^m	+25° 11'	I-25	IIaob	.002	18.0	20:40	21:40	3	1:17 W
285-2676	190,360	20 ^h 02.1	+29° 49'	7/4/33	28			21:55	2		1:54 W
2677	192,264	20 17.1	+25 45'	7/4/33	28			21:55	2		1:54 W
27154	HD 203374 MWC 366	21 16.7	+61 25'	I-25	IIaob	.002	19.0	22:30	23:27	3	2:10 W

Dome Temp. 5

CO₂ in 18³⁵ EST

Transparency Conditions

End completely obscured with fog (21)
 0700 W 2 at 0700 0800 0900
 info from J By 2:00 PM

Focus

Dome Temp.

ing Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 W	23 18"	0	7.5	B3e	6-5-6	net 2 Be programme	good
2 W		6"	5.70	60V		21 ⁰⁰ E.S. still full of stars but fog in W	
3 W		6"	5.94	60V		21 ⁰⁰ E.S. still full of stars but fog in W	
10 W	31 43"	1	6.6	Bare	6-3-6	net 8 Be programme	good

Closed down 0005 - heavy dew

209

Date Sept 6/7 2nd list 1963 Observer CW - CW Julian Day 24382.79

0163 39 28.6 3492.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
27155	HD 172817	19 01.1	-16 23	2-25	DaOB	008	19.9	20:05	20 29	1
27156	HD 172187	18 33.7	+43 08	2-25	DaOB	008		20:35	20 52	2
27157	HD 190638	20 00.8	+15 13	2-25	DaOB	008	19.5	20:59	21:33	4
27158	HD 200775	21 00.4	+67 47	2-25	DaOB	008		21:41	22 19	2
27159	HD 208682	21 52.9	+64 52	"	"	"		22:23	22:33	2
27160	HD 217050	22 52.7	+48 09	"	"	"		22:40	22:46	2
27159	HD 217312	22 54.8	+62 32	"	"	"	19.4	22:54	23:38	3
	Focus Test									
27160	HD 219113	23 08.3	+02 08	"	"	"		00:06	01:08	4

Dome Temp. 60°F

Focus 15.58-11 15.47

Dome Temp.

Transparency Conditions

Exposure meter does not seem to "fire" properly - OK now

good
23:30
00:50

21^h some haze 210
light cloud from N to south
cloud again!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 07W	-16 47	0-1	5.88	B8	6-6-6	set 6 B8-79	3489 fine complete
00 59W	+43 1.3	0-1	6.40	A5	6-6-	set 5 NS Binary	3491 fine complete
00 17W	+15 24	1	8.0	M2	6-9-9	set 5 udB SB	3497 fine
00 02W	+68 02	1	7.2	B5e	6-6-6	set 2 Be program	3537 fine
00 37E	+65 07	1	5.8	B3ne	6-12	set 5 Be program	3551 fine
01 25E	+48 27	0+	5.2	B3neb	6-6-6	set 8 Be program	3557 fine
00 35E	+62 53	1	7.8	B0II	6-6-6	set 5 Hd sp. Bin cloud	3564 fine
					20/10	set 9	3586 fine
00 30W			8.7	G5	6-12	set 5 E.S.B.	3587 fine
							3600 complete

01:20
closed up
3PH loaded

Dome Temp. 67°F

Transparency Conditions Some haze 212

Focus 15.50

Dome Temp.

Clouds delayed start.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
44 0 14 W	37 22	0	5.7	Bzhe	6-6	Set 2 1/2 Re Proj	3634 3639 fine
35 0 27 W	46 02	0-1	5.2	Bzhe	9-9	" 7 1/2 " " clouds " 6	3641 3646 2. heavy guiding
						Clouds fog heavy dew	
						NO FOCUS TEST	
						2 PHS loaded	

Dome Temp. 60.0

Focus 15.48

Dome Temp.

20.6 15.59
 $\frac{11}{15.48}$ ✓

Transparency Conditions
0240 CLOUDS

good, some cloud earlier

214

ing Time
 EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 32 ^m W	+43° 13'	1	6.40	A5	6-6-6	Oct 2 Sp. Bin RW 7 3668 3680	fine
1 30 W	+15 24	0+-1	8.0	M2	9-9-9	" 8 " " sudB 8 3681	fine
0 15 W	+50 01	1-2	6.8	A4e	6-6-6	" 2 Hd BE - Proc. 7 3760 3776	fine - 2 stars
0 07 E	46 12	1-2	6.5	B3ne	6-6-6*	" 8 " " " 7 3778 3794	fine - 2 stars
0 31 E	+23 05	1	5.76	B3	6-6-6	" 2 BB-B9 Proc. 7 3800 3813	fine
0 16 E	+36 55	0-1	6.31	B7	6-6-6	" 8 " " " 7 3812 3827	fine
0 21 E		0	6.20	B8	6-6-6	" 2 " " " 7 3835 3840	good comp but
					20/15	" E	OK
						114 found in field	comp but
						Sunder - Boyer on Tins is H ₂ O	

215

Date Tue-Wed Sept 10-11 '63 Observer Hw - mt Julian Day 2438283.

@ 167 32 32.0 3501.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
{ 27172	HD 169820	18 ^h 21.4 ^m	+14° 55'	I-25	IIaob	^{act} .008	20°C	19 20	19 32	3
{ 27173	HD 176313	18 ^h 54.6 ^m	+38° 07'	I-25	IIaob	.008	20°C	19 38	19 44	3
{ 27174	HD 180398 MWC 312	19 ^h 11.3 ^m	+12° 56'	I-25	IIaob	.008	20°C	20 01	21 29	4
{ 27175	HD 193009 MWC 336	20 ^h 12.9 ^m	+32° 04'	I-25	IIaob	.008	20°C	21 35	22 13	4
27176	HD 195407 MWC 346	20 ^h 26.0 ^m	+36° 39'	I-25	IIaob	.008	20°C	22 19	23 43	1
<hr/>										
a part of 1011										

Dome Temp. 67°F Focus 15.47

Dome Temp.

Transparency Conditions

Good.

216

Clouds started rolling in around
2300ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
32 3 0 ^h 08 ^m W	+14° 57'	1-2	6.43	B9	6-6-6	set 2 ^{B8-B9} wt d & e.	sens 6 { 3847 3851	fine
44 3 0 ^h 13 ^m E	+38° 14'	0 ⁺	5.70	B8	6-6-6	set 8 "	sens 6 { 3852 3856	fine guiding
29 4 1 ^h 15 ^m W	+13° 03'	0 ⁺	7.7	B3 ne	6-6-6	set 2. Be prog Hd.	sens 8 { 3861 3898	good look
13 2 0 ^h 58 ^m W	+32° 17'	0	7.0	B0 ne	6-6-6	set 8 "	sens 7 { 3899 3911	good look
43 1 2 ^h 15 ^m W	+36° 54'	0	7.7	B3 e	6-6-6	set 2 "	sens 8 { 3912 3934	l. wk comp weak

NO FOCUS TEST!

Cloud down 23:50 Cloud.

Comparisons for
#2774 - 6 very weak

Dome Temp.

Transparency Conditions

At 2230 - few clouds
in south & high wind

218

Focus

Dome Temp.

50°F

ing Time
EST.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2310 - Clouds much thicker so closed up.

Dome Temp. 54°F

Focus 15.39

Dome Temp. 44°F

Ammonia 23.20

01:00

01:20 strong

02 very strong

03 (very) strong

Transparency Conditions

Excellent

04 entire sky "shimmering"

220

ing Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
53	1 50W	25 04	0	6.9	Bse	6-6-6	Set 2½ Be Prog	53942 73954 fine
20	2 06W	18 14	0-1	6.9	B9se	6-6-6	" 7½ " "	" 7 { 3956 3968 good
28	2 10W	44 13	0-1	7.2	B1.5e	6-6-6	" 2½ " "	" 7 { 3969 3981 fine
43	2 07W	46 00	0-1	4.9	B2.5e	9-9	" 7½ " "	" 6 { 3983 3994 d. strong
22	01 08E	+48 06	0+	4.7	B4neβ	9-9	set 3 Be Program	5 4004 fine slightly fogged
51	00 22W	+39 58	1	8.2	K5	6-6-6	set 3 Std Vel	8 4006 fine & strong
49	01 11E	+48 34	0+	7.9	B9ne	6-6-6	set 7 Be Program	8 4046 4051 good
3	01 43E	+19 31	1	6.4	K1	9-9	set 7 Std Vel	6 4081 4087 fine fading
55	01 32E	-07 40	0	5.67	B8	9-9	set 2 B8-B9	6 4091 4097 fine
51	01 27E	-03 16	0	5.89	B9	9-9	set 5 B8-B9	6 4098 4103 fine
11	01 43E	-02 42	0	5.62	B8	9-9	set 8 B8-B9	6 4105 4109 guiding per
13	01 18E	-18 32	0	6.12	B8	9-9	set 2 B8-B9	6 4111 4115 fine
12	01 02E	-18 31	0	6.31	B8	9-9	set 5 B8-B9	6 4115 4118 guiding good
						20/16	set 8	OK dots red

3 P.H. loaded
103 a 0

Dome Temp. 60°F

Focus 15.43

Dome Temp. 64°

Transparency Conditions *few wispy clouds in north 224*
at 1900
00^h excellent

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
26	10 ^h W	+43° 13'	0	6.4	A5	6-6-6	set 2 S.B. - N	4321 sens #6 4326	fine
19	45 ^h W	-22° 42'	0	6.0	SgKS	6-6-6	set 8 Vd B - SB	4327 sens #6 4335	weak
41	36 ^h E	-02° 33'	0	6.3	B9e	6-6-6	set 2 Be prog Hd.	4336 sens #6 4340	fine
2	29 ^h W	+36° 15'	0	7.1	B2ne	6-6-6	set 8 "	4341 sens #7 4353	fine
41	30 ^h E	+23° 14'	0	6.42	B9	6-6-6	set 2 ^{B8-B9} Wt. d & e	4355 sens #6 4359	fine
2	52 ^h E	-14° 02'	0	4.30	BB	6-6-6	set 8 "	4361 sens #6 4365	fine
26	45 ^h W	-01° 05'	0	6.26	B8	6-6-6	set 2 B8 - B9 prog	4373 sens #6 4377	fine
45	05 ^h E	+02° 29'	0	8.7	G5	6-6-6	set 8 E.S.B S2PSC	4378 sens #8 4418	fine
42	10 W	+62 53	0 ⁺	7.8	B0TV	6-6-6	set 2 dbl. lens bin - Hd.	4421 sens #8 4451	fine
27	17 E	+54 20	2 ⁺	8.6	B3.e	6-6-6	set 2 Hd Be program	4454 sens #8 4484	fine
28	47 E	+62 15	1 ⁺	6.5	B2e	6-6-6	set 8 Hd Be prog	4486 sens #7 4498	fine
54	35 E	+63 22	1 ⁺	8.1	B3e	6-6-6	set 2 Hd Be	4501 sens #8 4531	fine
26	44 E	+41 36	2	7.2	B5ne	6-6-6	set 8 Hd Be	4534 sens #7 4546	fine
2	3 W	+48 53	2	19.1	F7	6-6-6	set 2 x - Purse	4547 sens #9 4615	fine
						20/16	set 8		fine
	3 P# loaded								
							no more plates!		

225

Date Mon Tues 1963 Sep 16/17 Observer MR Sm Sm ^{Hw} Julian Day 24382.89

0 173 23 10.1 3513.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27211a	HD 190658	20 ^h 00.8 ^m	+15° 13'	I-25	103a0	cut 008	20.40	19:39	20:27	1
27212	HD 172187	18 33.7	+43 08	"	IIa0	"	20.50	20:42	21:44	4
27212b	HD 190658	20 00.8	+15 13	"	103a0	"	20.30	21:52	22:44	1
2678	172,107 Vega	18 35.6	+33° 45'		4/5/33	28		22 ⁴⁷	-	
2679	215,816	20 26.0	-04° 25'		7/5/33	28		23 ⁰⁰	a, b	
2680	217,014	23 01.9	+20° 35'		7/4/33	28		23 ⁵⁵	a	
2681	221,130 - 1.24	20 00.3	+26° 54'		7/4/33	28		00 ¹⁵	a	
2682	225,239	00 02.9	+24° 28'		7/4/33	28		00 ⁵⁷	a, b, c	
2683	10,700 - 2.64	01 42.4	-16° 01'		6/4/33	28		01 ⁰⁰	a, b	
2684	9,562	01 31.9	-07° 13'		7/4/33	28		01 ⁵⁵	a, b	
2685	16,141	02 32.0	-03° 22'		7/5/33	28		02 ²²	a, b, c	
2686	10,299 - 2.65	04 42.9	-17° 00'		6/6/33	28		03 ⁵⁵	a, b	
2687	14,300 - 9.26	03 06.4	-47° 29'		6/4/33	28		04 ¹³	a, b	

Dome Temp. 64.95
 Focus 15.47
 Dome Temp.

20.4
 15.58
 - 11

 15.47

Transparency Conditions 22nd Fairly Good

226

Esch 8:15 PM EDT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	dev at 54° among curves	Quality
0:14 E	+15° 21'	0	8.0	M2	9-9-9	Set 2 VdB SB	8 { 4632	too weak
02:30 W	+43° 12'	1-2	6.40	A5	9-12-12	Set 2 NSB NB: Not Baled I ₂ 0	7 { 4680 4716	
2:04 W	+15 21	2	8.0	M2	9-9-9	Set 8 VdB SB again	8 { 4718 4758	fine
3:00 W		12"	2.08	G5E		24" ...		
4:00 W		4"	6.66	G5E		for about 20 ...		
5:00 W		6"	5.52	G5E	216, 01	have a small ...		
6:00 E, 00° W		8"	2.75	G5E	211"	... improving ...		
7:00 W		6"	6.12	G5E	10"	by good ...		
8:00 E, 00° E		8"	3.52	G5E				
9:00 W		5"	5.74	2G2				
10:00 W		6"	6.82	G5E	0"	still good ...		
11:00 W		6"	3.47	2G2		... W ...		
12:00 W		8"	4.00	G5E		24" ...		

Plotted dec 28300
 loaded with 10300
 others empty
 10300 disc. det.

for Sept 17/18 - PH's
 loaded with II₂OB.

22 IIaOC plates (71) 2AOC2G3
 51 51
 net Sept 17/63

(12 unbalanced IIaOC were cut Sept 16/63 - same emulsion no. - only 1 used).
 1 IIaOC plate used for testing

Date Tues - Wed, Sept 17-18, 1963 Observer Wt - Cn

Julian Day 2438.290

☉ 174 21 43.5 3515-3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
27214 ³	HD 177817	19 ^h 01 ^m	-16° 23' ^m	I-25	II aocB	ref. 008	22.8°C	19 ^h 32 ^m	20 ^h 00 ^m	2
27215 ⁴	MWC 320	19 41.3	+05 44	"	"	"	"	20 ^h 17	21 ^h 06	3
27216 ⁵	HD 193964	20 18.0	+61 56	"	"	"	"	21 ^h 25	21 ^h 35	1
27217 ⁶	HD 190558	20 00.8	+15 13	"	"	"	"	21 ^h 50	22 ^h 55	4
27218 ⁷	HD 219113	23 8.3	2° 02'	"	"	"	22.8°	23 ^h 13	00 ^h 23	1
27219 ⁸	HD 16004	02 29.2	+39 15	"	"	"	"	01 ^h 40	01 ^h 56	2
	"	"	"	"	"	"	"	01 ^h 56	02 ^h 06	2
27220	HD 19736	03 05.5	+42 01	"	"	"	"	02 ^h 13	02 ^h 21	3
27221 ¹⁹	MWC 68 HD 21650	03 28.6	+41 25	"	"	"	22.8	02 ^h 29	03 ^h 03	4
27222 ²⁰	BD +50° 738	03 13.1	+50 37	"	"	"	"	03 ^h 13	03 ^h 35	1
27223 ¹	BD +49° 900	03 11.7	+49 26	"	"	"	"	03 ^h 41	04 ^h 13	2
27224 ²	MWC 79 HD 24560	03 49.3	+44 38	"	"	"	22.8	04 ^h 19	05 ^h 13	3
	Focus test	20/16	at 8							
<p>Slits are a bit too wide: Use width of slit down in gutter & locate it trying to load a Sandman. 1/2 the width makes it down on the EST clock. 2 PH loaded</p>										

Dome Temp. 71° F
 Focus 15.51
 Dome Temp. 62° F

22.8
 15.62
 +11
 15.51

Transparency Conditions at 19:00 very good.

228

air conditioner stopped for winter.

00^h: excellent
 01^h: light cloud
 04^h: still a few light clouds
 05^h: w all cloudy.

see using camera

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	0:23 W	-16 17	0	5.88	B8	6-6-6	set 5 B8-B9 prog sense 6 { 4773 24777	fine
06	0:50 W	+05 55	0 ⁺	8.5	B5 ne	6-	set 5 (terminated due to light cloud) Be prog. (right star?) sense 8 { 4779 4783	very weak right star
5	0:45 W	+62 09	1 ⁺	5.59	B9	6-6-6	set 5 B8-B9, WEIGHT d/e sense 5 { 4786 4791	fine comp with
15	2:20 W	+15 24	2	8.0	GM2	9-9-9	set 5 wd B S.B. sense 8 { 4797 4837	fine good
28	0:40 W	+02 30	1-2	8.7	G-5	6-6-6	set 5 SZ PSL wd B S.B. sense 8 { 4832 4872	fine good
40	1:10 E	+39 31	0	6.26	B9	6-6-6	set 2 guided on W ext. of slit B8-B9 #6 4876	fine good
46	00 59 E	"	0	"	"	9-9	set 8 guided on E ext of slit B8-B9 #6 4876	fine good
21	1:20 E	+42 16	1	5.95	B8	9-9	set 5 B8-B9 full #6 4882 4886	fine good
05	00 58 E	+41 37	1 ⁺	7.2	B5 ne	6-6-6	set 5 Hd Be #7 4887	fine good
35	00 15 E	+50 51	2	7.0	B9	6-6-6	set 5 a Per. #7 4899 4901	fine good
3	00 25 W	+49 39	3	7.8	A0	6-6-6	set 5 a Per. #8 4913 4915	fine good
13	00 47 W	+44 49	2 ⁺	7.8	B3 ne	6-6-6	set 5 Hd Be light cloud #8 4945 4947	fine good
	00 30						set 5 B8-B9 HR 562 Sandra - f.f. done 4977	fine good

not match previous f.f. on the one I saw. (I spec with 26415)
 Dec 5M. not working. After checking everything, showed Gary & he
 told me that probably the voltage had dropped. - it had, + 98v!

Dome Temp. 67° = CO₂ in 15th EST, 19th EST

Transparency Conditions 19th sky possibly just ok. 230

Focus VOLTS: 700V

Dome Temp. 19th cloudy from NE, high clouds, only stars

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h W		10"	202	G5TY		1 ^h W star not here in observation, earlier in field	
1 ^h E		6"	200	G5		just into field, milky sky	
1 ^h W		4"	203	G5I		10 ^h star in field, very faint	
1 ^h W		10"	208	G5I		10 ^h star in field, very faint	
1 ^h W		4"	294	G5V		21 ⁰⁰ star high in E, (10 ^h 40 ^m). There is haze in W (for alt. < 60°) and S (for alt. < 45° up)	
1 ^h E		4"	202	G5V		22 ¹⁵ : haze appears not so thick, but now spread out all across the milky sky	
						3 rd mag star slow just visible	
						23 ¹⁰ : jet air coming from SW, then rising and stretching up for E to W 20 yards west partially covered too - finally gone up	

Dome Temp. 21.5

Focus 15.36

Dome Temp. 42

CO₂ - 245 ST
10.8 days - 7.25 V
12.9 11.99m

Transparency Conditions 1.8

18⁵⁰ - 19²³

12²¹ ...
... isolated ... NW and SW

ding Time EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
73" W		8"	5.5	5.5		20 ¹⁰ : X-aurora stopped ...	
		6"	5.7	5.7		20 ¹⁰ : aurora of V = -3 mag! in S in violet ...	
						20 ⁵⁰ : aurora still bursts in V, S, E, W - ...	
01 30 W	47 32	0	46	KCA0	6-6-6	set 5	6 5099 5111
02 46 W	57 04	0	67	AZpB	6-6-6	set 5	7 5112 5135
01 05 W	66 22	0	62	FSAZ6	6-6-6	"	6 5136
02 46 E	02 00	0	65	GCAD	6-6-6	"	6 5150 5160
01 40 E	-01 45	0	62	35	6-12	"	6 5161 5165
					20/12	S	

3 24 + 8 plates in the dome

OK
1/10/50

235

Date Nov. 10, 1945 Observer H. P. ... - H Julian Day 2438296.

0180 13 42.7 3526.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
MR + FC	UCCing field	19 30.5	+20° 25'	20	FC	0.12	13.0	01 02	02 46	2
2697	196,761	20 30.0	+23° 35'		7/4/30	01		02 00	02 46	
2698	192,512 p 19/1	19 30.5	+21° 19'		6/4/30	01		02 00	02 46	
2699	192,067	20 30.7	+15° 29'		7/5/30	01		02 00	02 46	
2700	192,044 03.49	20 30.6	+12° 23'		7/4/30	01		02 00	02 46	
2701	192,448	20 36.4	+20° 05'		7/4/30	01		02 00	02 46	
2702	208,774	21 35.8	+2° 07'		7/4/30	01		02 00	02 46	
2703	192,463	20 46.7	+22° 14'					02 00		
2704	192,167 Vega	18 35.6	+27° 48'		4/5/30	01		02 00		
27233	BD +17° 781	03 06.4	47 43.5	I-25	IIa06	.012	13.0	04 02	05 46	2
27234	+18° 934	03 23.2	49 11	"	"	"	13.0	03 09	05 31	3
	Focus Test		0, 1, 2, 3			"				

Dome Temp. *41.5*Focus *15.37*Dome Temp. *38.5*Transparency Conditions *Good**New Moon*ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>00 00 W</i>		<i>4"</i>	<i>6.36</i>	<i>257</i>			
<i>01 00 W</i>		<i>8"</i>	<i>371</i>	<i>505</i>			
<i>02 00 W</i>		<i>4"</i>	<i>71</i>	<i>518</i>			
<i>03 00 W</i>		<i>5"</i>	<i>215</i>	<i>261</i>			
<i>04 00 W</i>		<i>6"</i>	<i>5.42</i>	<i>50</i>		<i>20" sep. still close to each other</i>	
<i>05 00 W</i>		<i>4"</i>	<i>6.14</i>	<i>538</i>		<i>2.4" sep. for 1st time since 1940</i>	
			<i>7.4</i>	<i>WV6</i>		<i>10.0" sep. 1st time since 1940 - for 1st time</i>	
<i>06 00 W</i>		<i>5"</i>	<i>8.03</i>	<i>458</i>		<i>1.5" sep. 1st time since 1940</i>	
<i>0033 E</i>	<i>47 58</i>	<i>0-1</i>	<i>8.5</i>	<i>K:</i>	<i>4-4-4</i>	<i>Sets Ecl. bin (F) #8 5191</i>	<i>+</i>
<i>0156 W</i>	<i>48 23</i>	<i>0</i>	<i>8.6</i>	<i>A3</i>	<i>4-8</i>	<i>" " Per. Cluster #8 5234</i>	<i>+</i>
					<i>15/10</i>	<i>" 9</i>	<i>direct</i>
						<i>1 P.H. Landed in Dome +8</i>	

Dome Temp. 52°F

Focus 15.39

Dome Temp. 47°F

15.50

.11
15.39

Transparency Conditions some clouds in the west

238

0230^{EST} cloud over most of sky
03-15 aurora in northern sky
(seen through hole in cloud)
0350 sky partly clear (in west)ing Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
31	0 37 E	+15° 25'	1	8.0	g142	9-9-9	set 5 HV spect. bin. vdB sens. 8	5259 5299	fine
38	01 25 W	+64° 21'	0-1	6.31	B9	6-6-6	set 5 B8-B9 prog. clouds sens. 7	5312 5324	fine
3	00 48 W	+62° 08'	0-1	5.59	B9	6-6-6	set 5 " " " weight dand e sens. 6	5329 5334	fine
2	02 36 E	+61° 06'	1	5.85	B9	6-6-6	set 5 " " " " " sens. 6	5338 5342	fine
40	00 23 W	+02° 29'	1	8.7	G5	6-6-6	set 5 S2 Psc. Eclipsing spect. bin. sens. 8	5343 5345	fine
	00 12 W	-18° 28'	1	5.21	B8	6-6-6	set 5 B8-B9 prog. wt d & e sens. 6	5344 5398	fine
49	01 49 E	+39° 45'	1	6.35	B8	6-6-6	set 5 B8-B9 prog. wt d & e sens. 6	5400 5404	fine
20	02 58 E	+42° 04'	1-2	6.07	B8	6-6-6	set 5 B8-B9 prog. sens. 6	5405 5409	fine
21	02 13 E	+17° 55'	2	6.19	B8	6-6-6	set 5 clouds " " (this is a 2") " " (double star) sens. 6	5410 5414	fine
43	01 11 E	+11° 46'	2	6.44	B9	6-6-6	set 5 clouds " " corner broke off plate B8-B9 prog. sens. 6	5416 5419	fine
									OK
							He rejects spittle. turned in when box open! 27157		
							Closed down at 0443 - Clouds.		
							1 P.H. Loaded. in frig.		
							Could not find PH #2.		

239

Date Thurs-Fri, 26-27 Sep Observer Fl; Lg-Cw Julian Day 2438.299

① 183 10 06.1 3531.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27245	α Ser.			I-12	KaOb	0.008	70°	19 57	19 57	4
								20 01	20 02	4
	γ (HD 168723)	18 16.1	-0 255					20 05	20 09	4
27246	31 Aql	19 20.2	+11 44	"	"	"	70	20 32	20 34	1
	31 Aql	HD 182572		"	"	"	"	20 37	20 43	1
	31 Aql			"	"	"	"	20 51	20 58	1
27247	β Aql.	19 50.4	+06 09	"	"	"	"	21 27	21 29	4
51	β Aql.	HD 188512		"	"	0.016	"	21 31	21 32	4
	β Aql.			"	"	"	"	21 35	21 37	4
27248	HD E 235807	22 17.4	+55 03	"	"	0.016 set	20.3	22 30 ⁸	00 54	3
27249	HD 9812	01 30.8	+58 08	"	"	0.008		01:10	01:32	4
27250	HD 10700	01 39.4	-16 28	"	"	0.008		01:45	02:01	2
	γ Aql							02:01	02:07	2
								02:08	02:18	2

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Date Thurs Aug 26-27 1963 (cont.) Observer - CW Julian 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.
27251	HD 20630	03 14.1	+03 00	I-12	DuoB	.008		02:32	02:36	3
	K Est "	"	"	"	"	"		02:37	02:41	3
	"	"	"	"	"	"		02:42	02:50	3
27252	HD 23249	03:38.5	-10 06	"	"	"		02:59	03:01	4
	δ Eri "	"	"	"	"	"		03:01	03:05	4
	"	"	"	"	"	"		03:05	03:09	4
27253	HD 26965	04 10.8	-07 49	"	"	"		03:17	03:21	1
	0 ² Eri	"	"	"	"	"		03:21	03:25	1
	"	"	"	"	"	"		03:25	03:33	1
27254	BD +47 528	03 20.0	+47 52	"	"	"		03:51	04:05	2
27255	HD 27371	04 14.1	+15 23	"	"	"		04:12	04:14	3
	δ Tau "	"	"	"	"	"		04:20	04:22	3
	"	"	"	"	"	"		04:22	04:28	3
27256	HD 27697	04 17.2	+17 18	"	"	"		04:33	04:39	4
	δ Tau "	"	"	"	"	"		04:39	04:47	4
	Focus test	"	"	"	"	"		04:47	05:01	4

02^h - 04^h excellent 242

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
36	0 37 E	+03 16	1	5.74	G5V	9	net 2 Y855 #6 5604 5605	①
41	0 32 E	"	"	"	"	?	net 5 #6 5606 5608	①
50	0 23 E	"	0 ⁺	"	"	9	net 8 #6 5609 5613	④
51	0 36 E	-1 53	1	4.7	KO IV	9	net 2 Y855 #6 5616 5617	①
55	0 32 E	"	1	"	"	9	net 5 #6 5619 5621	③
59	0 28 E	"	1	"	"	9	net 8 #6 5622 5626	④
21	0 49 E	-7 42	0 ⁺	5.0	dKO	9	net 2 #6 5629 5630	①
2	0 45 E	"	"	"	"	9	net 5 Y855 #6 5630 5632	②
33	0 36 E	"	"	"	"	9	net 8 #6 5634 5638	①
05	0 43 W	+48 06	1.0	6.8	BA	5-4	net 5 α Per #7 5639 5643	①
14	0 0	"	2	4.60	KO VII	9	net 2 Y855 #6 5646 5647	①
22	0 08 W	"	"	"	"	9	net 5 #6 5651 5653	①
28	0 15 W	+15 33	"	"	"	9	net 8 #6 5654 5659	①
39	0 22 W	"	1	4.72	KO VII	9	net 1 light cloud #6 5660 5661	①
47	0 20 W	"	"	"	"	9	net 4 Y855 #6 5662 5663	①
01	0 44	+17 28	1	"	"	9	net 7 4.84 loaded in fridge #6 5664 5665	①

243

Date *Mon - Tues 10/11 1943* *Sent* *sent* Observer *Sm* *Re MR* *Can - H* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
290-2703	165,401	18 04.0	+22° 40'		7/4/33	28		19 ¹⁵	a, b, sky	
2704	159,222	17 30.7	+34° 18'		7/4/33	28		19 ⁴⁵	a, sky	
2705	181,514 <i>page</i>	19 05.5	+06° 19'		6/4/33	28		20 ¹⁵	a, sky	
2706	172,167 <i>a sky</i>	18 05.6	+32° 45'		4/5/33	14		20 ²⁸	a	
2707	192,443	25 10.7	+38° 14'		^{7/3/33} 7/4/33	28		20 ⁵⁰	a, b, sky	
2708	193,664	20 17.1	+46° 45'		7/3/33	28		21 ⁰⁰	a	
2709	206,110	21 52.2	+06° 42'		7/4/33	28		21 ⁰²	a, b, sky	
2710	217,166	22 56.7	+09° 10'		7/4/33	28		22 ²⁵	a, sky	
2711	224,980 <i>85 sky</i>	00 00.3	+26° 54'		7/3/33	28		23 ⁰⁰	a, b	
2712	3,443	00 35.4	+24° 58'		7/4/33	28		23 ²²	a	
2713	8,036	01 17.9	+00° 42'		7/4/33	28		23 ⁵⁰	a, b	
2714	12,235	01 56.2	+02° 56'		6/6/33	28		24 ¹⁵	a, b	
2715	14,803 <i>K Fe</i>	02 21.0	+23° 29'		^{7/3/33} 5/6/33	28		25 ⁴¹	a, b	
2716	16,171	02 03.6	+03° 42'		5/6/33	28		26 ⁴¹	a, b, sky	

Dome Temp. 51°F

CO₂ in: 18⁰⁵ 19⁴⁰ 22⁰⁰
 voltage 200V

Transparency Conditions 18⁰⁰: Good

244

Focus

Nearly Full Moon

Dome Temp.

0200 CLOUDS.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0° W 01° W		5"	6.79	65V	18"	Good no air	
1° W		6"	6.57	65V	20"	X common star - faint	
2° W		10"	3.71	58V		20"	
22° W		12"	0.05	25V			
76° W		4"	7.4	WN6			
7° W		4" 8'	5.9	65V		21"	
0° W, 25° W		6"	6.14	60		21"	
2° W		6"	6.72	65V			
17° E 25° E		6"	5.92	65V		20"	
2° E		6"	5.71	60			
4° E, 20° E		6"	5.46	60		20"	
1° E 20° E		6"	5.87	65V		20"	
2° E, 00° E		5"	6.77	65V		00"	
1° E		4"	6.72	65V		01"	
20°		10"	6			seeing 10" clouds in 00"	

245

Date Tues-Wed Oct 1/2, 1963 Observer Sm Pa D₂ - 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.
271	160,269 2nd dia	17 34.7	+21° 32'		6/5/33	22		18 ⁴⁰	a, b	
2717	161,757 2nd dia	17 45.0	+20° 40'		5/6/33	28		19 ¹⁵	a, b	
2719	179,957	19 11.1	+44° 20'		6/6/33	28		19 ⁴⁰	c, d	
2720	172,167 edge	18 35.6	+32° 45'		4/5/33	24		20 ¹⁶	a	
2721	190,360	20 00.	+20° 49'		6/6/33	28		20 ³³	e, f	
2722	192,624 Wcb 2nd dia	20 18.1	+16° 38.5'		6/6/33	28		21 ⁰¹	g, h	
2723	193,624	20 17.1	+15° 45'		6/6/33	28		21 ⁰⁰	i, j	
2724	214,824	22 36.4	+38° 05'		6/6/33	24		22 ⁴⁰	k, l, m	
2725	217,014 3rd dia	22 35.7	+20° 35'		6/5/33	28		22 ⁵⁷	n, o	
2726	225,225	00 06.8	+34° 27'			28		23 ¹⁵	p, q, r	
27257	HD 3651	20 34.2	+20° 43'	I-12	II 00B	.008	16.4°C	01 ^h 00 ^m	01 ^h 05 ^m	
	54 Psc "	"	"	"	"	"	"	01 ^h 09 ^m	01 17	
	"	"	"	"	"	"	"	01 ^h 20 ^m	01 35	1
27258	HD 20630	03 14.1	+03° 00'	"	"	"	16.4°C	01 ^h 58 ^m	02 ^h 00 ^m	2
	2 Cr "	"	"	"	"	"	"	02 ^h 04 ^m	02 ^h 08 ^m	2
	"	"	"	"	"	"	"	02 ^h 13 ^m	02 20	2

Dome Temp. 65°F

Focus 15.43

Dome Temp. 58°F

12.79 0.2 m: 18" 21.5 m to 47.5
1000 ft. 1000

Transparency Conditions 18.00 Good, see spec of light
see to delay SW

should be 12.66 Full 7190m

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 2 ^m W		6"	5.81	GIV		19" ...	
5 ^h 10 ^m W		8"	6.42	GIV		...	
5 ^h 18 ^m W		5-6"	6.76	GIV			
5 ^h 26 ^m W		10"	7.00	GIV			
5 ^h 34 ^m W		6"	6.70	GIV		20" ...	
5 ^h 42 ^m W		4"	7.95				
5 ^h 50 ^m W		6"	6.14	GIV			
5 ^h 58 ^m W		7"	6.26	GIV			
6 ^h 06 ^m W		8"	6.50	GIV			
6 ^h 14 ^m W		6"	6.12	GIV			
6 ^h 42 ^m W	+21° 03'	1+	6.70	KIV	3-3-3	set 2 YOSS.	5691 5692
6 ^h 50 ^m W	"	1	"	"	3-3-3	set 5	5694 5696
6 ^h 58 ^m W	"	1	"	"	3-3-3	set 8	5697 5701
7 ^h 06 ^m E	+03° 14'	1	5.74	GIV	3-3-3	set 2	5703 5704
7 ^h 14 ^m E	"	1	"	"	3-3-3	set 5	5709 5710
7 ^h 22 ^m E	"	1	"	"	3-3-3	set 8	5711 5715

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(Cont.)

Date Tues. Wed. Oct 1/2 1963 Observer me Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
27259	HD 23249	03 38.5	-10° 06'	I 12	IIaOB.	.008	16.4°C	02:47 ^h	02:48 ^h	3
	δ Eri "	"	"	"	"	"	16.5°C	02 55	02 58	3
	"	"	"	"	"	"	"	03 03	03 09	3
27260	HD 26965	04 ^h 10.8 ^m	-07° 49'	"	"	"	"	03 42	03 44	4
	0 ² Eri "	"	"	"	"	"	"	03 52	03 55	4
	"	"	"	"	"	"	"	03 58	04 03	4
27261	HD 28305	04 22.8	+18 58	"	"	"	16.3°C	04 41	04 42	1
	ε Tau "	"	"	"	"	"	"	04 46	04 49	1
	"	"	"	"	"	"	"	04 52	04 56	1

Focus Test.

Completely out of focus

Focus of 12 1/2" was changed on Fri. night. He who changed it did not know what to put it back to. A note was left but it was lost, & I did not focus as it was (as instructed)!

Dome Temp.

Transparency Conditions *Good*

248

Focus

Dome Temp. *54°F*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 48	00 ^h 29 ^m E	-09° 53'	1	4.7	KO IV	3-6 set 2	Yoss sens 6 { 5718 5719
2 58	00 ^h 19 ^m E	"	1	"	"	3-3-3 set 5	" sens 6 { 5720 5722
3 09	00 ^h 08 ^m E	"	1	"	"	3-3-3 set 8	" sens 6 { 5723 5727
3 44	00 ^h 05 ^m E	-07° 42'	1+	5.0	dKO	3-3-3 set 2	" sens 6 { 5728 5729
3 55	00 ^h 06 ^m W	"	1+	"	"	3-3-3 set 5	" sens 6 { 5730 5732
4 03	00 ^h 14 ^m W	"	1+	"	"	3-3-3 set 8	" sens 6 { 5733 5737
4 42	00 ^h 40 ^m W	+19° 07'	2	4.58	KO III	3-6 set 1	" sens 6 { 5738 5739
4 48	00 ^h 46 ^m W	"	2	"	"	3-3-3 set 4	" sens 6 { 5740 5742
4 56	00 ^h 54 ^m W	"	2	"	"	3-3-3 set 7	" sens 6 { 5743 5747
					" / 8	set 9.5	
3 dH loaded in fridge							

Dome Temp. 68°F

Focus 12.66

Dome Temp.

Transparency Conditions

Much cloud

250

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 28 ^m W	+11° 52'	1	6.0	48 IV	3-3-3	set 2 Yoss's	series # 6 { 5763 5765 } (2) poor
0 ^h 32 ^m W	"	"	"	"	3-6	set 5 "	series # 6 { 5766 5767 } (1) fair
0 ^h 43 ^m W	"	"	"	"	3-3-3	set 8 "	series # 6 { 5768 5772 } (4) complete lines double

20^h cloud closed up. cloud
Focus OK.

Plate apparently
was not seated
correctly in
plate holder
These IIAD plates are
a little wider than normal!
Load them carefully

25L

Date Fr/Sat Oct 4/5 '63 Observer V.B. J. FL Julian Day 2438307.

0191 01 47.4 3546.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
292-2727	51 Peg	22 55.7	+20°35		615/33	28		2124	ab 154	
292-2728	15 Sge	20 07.5	+16 58		615/33	28		2154	ab 154	
292-2729	85 Peg	00 00.3	+26 54		615/33	28		2225	ab 154	
292-2730	HD 225239	00 02.9	+34 28		616/33	28		22 55	ab 154	
292-2731	HD 166	00 04.7	+38 50		616/33	28		23 27	ab 154	
292-2732	HD 10307	01 39.5	+42 26		615/33	28		23 51	ab	
27258	47 And.	01 18.0	+37 12	I-12	II ₀ (b)	0.008	12°	00 ^h 26 ^m	00 ^h 34 ^m	1
00 36								00 46	1	
00 49								00 54	1	
27259	HD 3546	0 33.3	+28 46	I-12	II ₀ (b)	0.008	12°	1:19	1:21	2
1:24								1:26	2	
1:28								1:32	2	
27260	BD 49° 900	03 11.7	+49 26	"	"	"	"	2:07	2:28	1
27261	BD 150 738	03 13.1	+50 31	"	"	"	"	2:41	2:48	2
27262	BD 48 931	03 22.6	+48 41	"	"	"	"	3:09	4:37	1

Searched for Comet Perseus but could not find it - probably due to brevity of sky scan.

Dome Temp. ~50°

CO₂ in 2000?

Transparency Conditions Per Sec. 1, Sull. 1700m

252

Focus

V = 700 20 50

Dome Temp.

Record focus

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
053E-043E		5"	5.53	55V		<p>Appears that when exp. met. is balanced on scale 10 it is <u>not</u> necessarily balanced on scale 8 in fact needle falls slowly. <i>Should be balanced at mid-scale</i></p> <p>- Focus test made at beginning of night.</p>	
0232W-0242W		5"	5.80	dg1			
0058E-0048E		5"	5.82	53V			
0030E-0020E		3"	6.12	52V			
0004E-0006W		4"	6.14	K0			
0110E-0100E		4.94		52V			
012E	37 31	~5"	5.5	A2m	4-5	plate position: 1 Seeing generally	5788-5792 strong
000					4-5	:5 horrible!!	5793-5797 strong
009W	37 31				4-5	:9 sens 6	5798-5800 1 strong
120W	29 08		5.3	G8IIIp	9	:1 [Y] this plate a very	counts: 1 fine
125W			"	"	9	:5 [S] light fit - may be	:2 strong
131W			"	"	9	:9 [S] out of focus due to this.	:4 strong good
013E	49 38	3"	7.8	A0	4-2-3	Set 5. α Per clean up.	Sens 8 5817-5827 strong good
006W	50 49	"	7.0	B9	3-3-3	Set 5. α Per "	Sens 8 5829-39 1 strong good
145W	48 53	4"+	9.1	E7	3-3-3	Set 5 α Per " Seeing <i>might slow</i>	Sens 9 5842-5852 good poor

by moon and rising saw.

QMF.

2 PH loaded and put in refrig.

253

Visitors 170 Showed Ring Nebula 19.00-21.00 E.S.T. Py. Pa. PH

Date Sat/Sun Oct 5/6, 1963 Observer mce - HJ Julian Day 2438308.
@ 192.00 54.1 3548.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27263	HD 3651	00 34.2	20° 43'	I 12	IIaOB	.008	16.5	22 ^h 46 ^m	22 ^h 52 ^m	4
	54 Psc "	"	"	"	"	.008	"	22 ^h 57 ^m	23 ^h 02 ^m	4
	"	"	"	"	"	.008	"	23 ^h 08 ^m	23 ^h 20 ^m	4
27264	HD 6582	01 01.6	54 26	"	"	.008	16.6	23 52	23 55	1
	" m Cas							00 05	00 08	1
	"							00 10	00 18	1
27265	HD 10700	01 37.4	-16 28	"	"	"		00 50	00 50 ³⁰	2
	" J Cet							00 53	00 54	2
	"							00 56	00 57 ⁴⁰	4
27266		01 03.9	+54 13	"	"	"		01 20	01 27	3
	HD 6833	"	"	"	"	"	16.3	01 28	01 43	1
27267		"	"	"	"	"		01 45	02 17	1
	HD 20630	03 14.1	+03 00	"	"	"		02 37	02 40 ³⁰	4
	" K Cet	"	"	"	"	"		02 42	02 47	1
27268		"	"	"	"	"		02 48	03 10	1
	BD +47° 7A1	03 06.1	47 43.5	"	"	"	16.2	04 06	05 40	1

Pa PH

Dome Temp. 57°F

Transparency Conditions

some haze

234

Focus 12.65

Dome Temp.

2 PH Loaded in fridge

#27268 - out of focus in all exposures
 test being centre to field - plate probably not fogged
 plate 27263-5 partially covered
 fogged - good for microphotography

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 07 ^m E	21° 04'	1-2	6.70	KOII	3-3-3	set 2 "Yoss" sens 6 { 5893 5894	guiding
2 ^h 56 ^m E	"	1-2	"	"	3-3-3	set 5 " sens 6 { 5896 5898	strong
3 ^h 38 ^m E	"	1-2+	"	"	3-3-3	set 8 " sens 6 { 5900 5904	strong
4 ^h 32 ^m E	54° 46'	2	6.1	G5IV	3-3-3	set 2 " (10) sens 6 { 5905 5906	fine part fogged
00 19 E					9	" 5 (20) " 5 5911	strong good
00 07 E		1-2+			9	" 9 (40) " 5 5914 5918	strong good
00 12.5 E			4.2	G6IV	9	" 2 " #5 1/2 Count	fine weak good
00 09.2 E		0-1			9	" 5 " 1 "	fine good
00 05.5 E	-16° 07'				9	" 9 " 2 counts	fine good
00 59 W		1-2	8.1	K.III	9	" 2 Yoss 25% #8 5949 5954	strong
01 15 W					3-3-3	" 5 50% " 5952 5960	strong good
01 49 W	54° 34'	1-2	"	"	3-3-3	" 9 " 70% " 5966 5986	strong good
00 02.5 W		0-1	5.74	G5V	9	" 2 #6 1 count	fine
00 09 W			"	"	9	" 5 " 5913 5995	strong
00 31 W	+03 15'		"	"	9	" 9 " 5916 6000	strong
00 31 W	48 50'	1-2	8.5	K:	3-3-3	" 2 Ecl B ₁ F Focus Test #7 6005 6042 center to vid.	strong good

255

Date Oct 6 / 7 1963 Observer MT - G Julian Day 2438309

0 193 00 03.0 3551.3

Plate No.	Object	R.A. 1900	Declination 1000	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27269	HD 212496	22 19.6	+51 44	D12	II aob	set 1002	22°	21:40	21:44	3
"	"	"	"	"	"	"	"	21:48	21:53	3
"	"	"	"	"	"	"	"	21:54	22:02	3
27270 F	Focus Test									2
27271	3443	00 38.4	-24 58							
27272	4514 g Leo	00 46.9	+07 38	5/6/33					2.6	
27273	6562 g Leo	01 05.7	+54 45	6/5/33	26				2.6	
27274	1036	01 17.9	+00 42	1/1/33	28			00:15	0	
27275	15107	01 30.8	+42 26	1/2/33	28			00:41	2.6	
27276	STANDARD 5111 g Leo	02 24.2	+12 18	6/4/33	28			01:06	2	

Dome Temp. 58°F

Focus 12.66

Dome Temp.

no CO₂
Voltage 790 : 22²⁰

Major sp. =

Transparency Conditions Cloudy until about 21^h (E.S.T.)

21^h: clouds gone, very much better
stars in sight & recognized, but
not from best transparency
very uniform one.

256

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 06 W	+52 00	0	5.6	G9 III	3-3-3	set 2 25% YOSS (p.2) sens 5 { 6053 6054	usiken. data stopped?
0 15 W	+52 00	0+	"	"	3-3-3	set 5 50% sens 5 { 6057 6058	listing
0 24 W	+52 00	1	"	"	3-3-3	set 9 100% sens 5 { 6060	strong comp. action weak
						set 5	center to violet!
			5.71	G9 III			
		6"	5.45	G5 V		21 ^h 21 ^h 21 ^h ...	
		3"	5.2	G5 V		... unusual	
		5"	5.06	G6 B		for 7/20 ...	
		1"	4.94	G2 V		for 7/20; 01 ^h ...	
		5"	4.27	G9 II		01 ^h ...	
						01 ^h : had used not "SPECT" setting, but "EXMTR"!	

257

Date 3d 6/7 ^{cont'd} Observer glt Julian 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.
27270	HD 7106	01 06.2	+29 34	I-12	IIaOb	.008	21.4°	2:02	2:06	3
"								2:06	2:12	3
"								2:12	2:20	3
27271	HD 23249 ε Eri	03 38.5	-10 06	I-12	IIaOb	.008	21.6°	2:38	2:40	4
								2:41	2:45	4
								2:46	2:56	4
27272	HD 26965 δ Eri	04 10.8	-07 49	I-12	IIaOb	.008	21.5	3:08	3:12	1
								3:13	3:21	1
								3:22	3:34	1
27273	HD 20305 ε Tau	04 22.0	+18 58	I-12	IIaOb	.008		3:45	3:47	2
								3:48	3:50	
								3:50	3:52	
27274	BD+47° 781	03 06.4	+47 43.5	I-12	IIaOb	.008	21.4	4:06	5:38	3

Transparency Conditions *Poor Seeing.*

Dome Temp.
 Focus
 Dome Temp.

3 07: 5:39

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1 39 W	+29 54	0 ⁻	5.7	KOIII-R	9	Set 2 25% YOSS P2. sens 6.	78. 79. 80.	guiding very poor
1 45 W		0			3+3+3	Set 5 50%	81. 82.	disturb guid
1 53 W		0 ⁻			3+3+3	Set 9 100%	83. 87. 89.	disturb
0 18 E	-9 54	0 ⁻	4.7	KOIV	9	Set 2 25% YOSS P1. sens 5	90.	fine
0 13 E		0 ⁻			3+3+	Set 5 50%	91. 93. 94.	disturb
0 22 E		0 ⁻			3+3+3	Set 9 100%	98.	disturb
0 18 E	-7 42	0 ⁻	5.6	dkO	9	Set 2 25% YOSS P1 sens 5	100 01.	fine
0 09 E		0 ⁻			3+3+3	5 50%	02. 04. 05.	disturb
0 04 W		0 ⁻			3+3+3	9 100%	09.	disturb
0 04 W	+19 07	0-1	4.58	KOIII	9	2 25% YOSS P1. Sens 5	11. 12.	fine
0 07 W		1+			9	5 Moon is very near & may have influenced the spectra	13. 15. 16. 20.	disturb
0 09 W		1-2			3+6	9	20.	disturb
3 11 W	+47 59	1+	8.5	K:	3+3+3	4 Locked telescope in Dec. sens 9.	28. 78.	good
3 PH's loaded in frsq.								

259

Date *wed, 9/10/63* Observer *Sq - 4th students* Julian Day *2438312.0*
1 *Fl & Pa; Cn*
 @ 195 57 43.8 3558.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27275	HD 196755	20 ^h 34 ^m 3	+09° 44'	I-12	IIa0t	.008	16.2°	19 ^h 11 ^m	19 ^h 21 ^m	1
"	"	"	"	"	"	"	"	19 40	20 07	1
27276	HD 202109	21 ^h 08 ^m 7	+29° 49'	I-12	IIa0b	.002	16.2°	20 18	20 21	2
"	"	21 ^h 08 ^m 7	+29° 49'	"	"	"	"	20 27	20 32	2
27277	HD 190658	20 00.8	+15 13	I-12	IIa0b	0.008	16°	20 50	21 50	4
27278	HD 16066	02 29.8	+67 38	I-12	"	"	"	22 08	22 36	1
27279	HD 16440	02 33.2	+68° 03	I-12	"	"	"	22 43	23 14	2
27280	HD 15784	02 27.2	+67 55	I-12	"	"	"	23 24	23 32	3
27281	HD 6833	01 03.9	+54° 13	I-12	"	"	"	23 50	23 56	4
	"							23 58	00 12	4
	"							00 15	00 41	4
27292	BD +47° 281	03 06.4	+47 43.5	I-12	IIa0b	.008	"	00 54	02 06	1
27283	BD +49° 967	03 26.5	+49 59	I-12	IIa0b	.008	15.8	02 17	04 23	2
27284	AD 42807	06 07.7	+10 40	"	"	"	"	04 38	04 42	3
								04 42	04 50	3
								04 51	05 09	3

7 rows total

Dome Temp.

52°

Record Focus!!

Focus

Transparency Conditions

01^h 1/2 moon reveals heavy fog rolling in + heavy dew forming

Dome Temp.

04^h extremely foggy

260

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 22' E	+09° 58'	0	6.0	65 IV	9	Set 2 50% Yoss	6191 6193 fine well guided
0 ^h 31' W	+09 57.5	0	"	"	~9	Set 5 100% "	6197 6201 d strong comp very strong
0 ^h 31' W	+30° 05'	0	4.4	68 II	9	Set 2 50% "	6209 6211 strong good
0 ^h 15' W	+30° 06'	0	4.4	68 II	9	Set 5 ^{must like set 10 or more !!} 100% "	6217 6221 w/out hyper set 5 100% strong
2 ^h 41' W	+13° 24'	0	8.0	gM2	3-5-5	Set 5 VaB Lt. Vol. star S.E.	6235 6255 fine
3 ^h 05' E	+67° 54'	0-1	7.7	F2 II	3-3-3	Set 5 VaB High Luminosity Stars	6258 6268 fine good
2 30 E	+68° 18'	0-1	8.0	B7 III	3-3-3	Set 5 " " " "	6270 6280 fine good poor
2 06 E	+68° 12'	2	6.77	F4 II	3-3-3	set 5 " " " "	6283 6287 d strong good poor
0 16 E		2	8.1	K1 III	9	set 1 Yoss's Lumm. (25%)	6290 6294 weak good
0 02 E					9	set 5 (50%)	6296 6306 good
0 28 W		1			3-3-3	set 9	6308 6328 (20) 1 star
0 10 E	+47 58	0	8.5	K:	3-3-3	set 5 = set 2 in	6332 6352 (20) fine good
0 47 W	+50 "	1-0.9	9.2	A2	3-3-3	set 5 x Pru.	6353 6373 (20) fine
0 33 E	+10 40	1	7.24	dg5	9	set 1 Yoss	6377 6379 (2) good
0 26 E		0	"	"	9	set 3.5 expansion N finder	6414 6415 (2) fine
0 07 E		1	"	"	9	set 4.0 PH loaded on side	6417 6418 (2) fine

Dome Temp. 65°F

Focus 12.66

Dome Temp.

Transparency Conditions Poor - Very hazy 1900h 262
light clouds in south

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
16 10 ^m W	+15°24'	0	8.0	gM23-5-7	set 5 set 9	(VdB) SB also 8 ⁶⁴²³ 6434	fine good OK d.c. 7010.
Closed down 2020 - very heavy haze & clouds from south.							
Note: 1) Some plates do not fit flat into grooves because they are too big							
2) "Winn" light on exposure meter with beam 1/2 out or doesn't work.							
3) Could not find "regular" arc strikes							
4 plates loaded.							

263

Sort trace should be 294-2738
change numbers!

Date T. S. T. Oct 11/12 1963 Observer V. S. - G. M. C. E. Julian Day 2438314.

0197 56 22.7 3562.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
293-2733	α Lyr	18 35.7	+38°45'		4/4/33	28		1845		
293-2734	HD 179 957A+B	19 11.1	+4945		6/5/33	28		19 05	2x + sky	
293-2735	♃ Dra	19 32.6	+6436		6/4/33	28		19 34	2x	
293-2736	HD 182572	19 23.3	+11052		6/5/33	28		19 58	2x	
293-2737	HD 187923	19 50.5	+1134		6/5/33	28		20 20	2x	
293-2738	HD 190067	20 00.7	+15°29'		7/4/33	28		20 42	2x + sky	
293-2739	HD 190360	20 02.1	+2949		6/5/33	28		21 12	2x	
293-2740	HD 208110	21 52.2	+0652		6/5/33	28		21 38	2x	
293-2741	HD 208776	21 56.8	+0337		6/6/33	28		22 01	2x + sky	
293-2742	HD 217166	22 56.7	+0910		6/6/33	28		22 35	2x	
293-2742	HD 116	00 04.7	+78°50'		6/5/33	28		22 58	2x	
294-2749	HD 3443	00 35.4	-2458'		6/5/33	28		23 23	2x + sky	
294-2750	HD 8036	01 17.9	-0042		6/5/33	28		23 51	2x	
27286	HD 3651	00 ^h 34 ^m 2	+20° 43'	I 12 ^{1/2}	7a0B	.008	14.0°	00 ^h 52 ^m	01 ^h 03 ^m	1
"	" 54 Psc	"	"	"	"	"	"	01 ^h 10 ^m	01 ^h 33 ^m	1
"	"	"	"	"	"	"	"	01 ^h 35 ^m	02 38 ^m	1

Dome Temp. 51 °F

Focus 12.66

Dome Temp.

CO₂ in } 1800 EST
V = 750 }

Transparency Conditions Partly cloudy (Strato-cum) 264

855 fine clouds very low in S and W.

2030 very fine

0100 very good.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0116W		8"	0.0	AOV		EXT-ST	
0100W + 0110W		5"	6.75	54V		A+B	
0107W + 0117W		5"	4.68	KOV			
0143W + 0153W		6"	5.17	58IV			
0136W + 0146W		7"	5.78	52V			
0148W + 0158W		6"	7.1	58V			
0216W + 0226W		4"	5.70	56IV		} ratew strong image motion - gusty wind	
0052W + 0104W		5"	6.14	50			
0113W + 0123W		5"	6.54	50V			
0045W + 0055W		5"	6.42	elg1			
0000 + 0010W		5"	6.41	KO			
0005E + 0005W		8"	5.71	KO			
0019E + 009E		4"	5.86	g K3		F type Spectra!	
01°28'W + 21°04'		0	6.70	KOV	9	set 2 "Yoss"	sens 6 {6444 6445 fine - good
01°53'W		0+	"	"	3-3-3	set 5	sens 6 {6446 6448 1 strong
03°03'W		0-	"	"	3-3-3	set 8	sens 6 {6449 6453 strong

265

(cont'd)

Date Fri/Sat Oct 11/12 1963 Observer gmce Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27287	HD 28325	04 22.8	+18 58	I-12 $\frac{1}{2}$	IIaOB	.008	13.8°C	03 ^h 01 ^m	03 ^h 02 ^m	2
	" E Tam	"	"	"	"	"	"	03 12	03 16	2
	"	"	"	"	"	"	"	03 18	03 25	2
27288	HD 37171	05 ^h 31.5	+10° 58'	"	"	"	"	03 ^h 45 ^m	04 24	3
27288 ⁸ F	Focus Test									
	Closed up. Dew is beginning to drip off dome 05 06 EST.									

267

Visitors - 170

1st hour: Cloudy Demonstration only
2nd hour: Showed Ring Nebula1900-2000 EST } Py.
2000-2100 EST } HW

Date Sat/Sun Oct 12/13, 1963. Observer [unclear] Julian Day 2438315.

© 198. 55 45.6 3565.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2725-2751	[unclear]	01 24.6	-05° 28'		2/4/50	28		21 45	<	
2751-2752	[unclear]	01 25.4	-05° 05'		2/4/50	28		22 00	0.6 only	
-2753	3, +43	00 25.4	-05° 58'		2/4/50	28		22 00	0.6 only	
-2754	[unclear]	00 25.4	+05° 58'		2/4/50	28		22 00	0.6 only	
-2755	[unclear]	01 25.4	+05° 58'		2/4/50	28		22 00	0.6 only	
-2756	[unclear]	01 25.4	-05° 21'		2/4/50	28		22 00	0.6 only	
-2757	[unclear]	01 25.4	-05° 10'		2/4/50	28	01 20	22 00	0.6 only	
-2758	[unclear]	02 26.2	+05° 18'		2/4/50	28	01 20	22 00	0.6 only	
-2759	[unclear]	02 26.4	-06° 38'		2/4/50	28	01 20	22 00	0.6 only	
-2760	[unclear]	02 26.4	+05° 21'		2/4/50	28	01 20	22 00	0.6 only	
-2761	[unclear]	02 26.4	+05° 21'		2/4/50	28	01 20	22 00	0.6 only	
2729 ⁸⁹ ₀	E Tau HD 28305	04 22.8	+18 58		IIa (bk)	808	9°	03 45	03 45 3	
								03 47	03 49	
								03 52	03 54	
								32	rate	33

Dome Temp. *12.66*

Focus


12.66

Dome Temp.

Transparency Conditions

268

10^h: very good, almost clear, some fog
 21^h: very good, mostly clear
 22^h: very good, light rain to heavy, but no clouds
 23^h: the same

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>PW</i>		6"	6.00	d61			
<i>PW</i>		6"	6.22	60			
<i>E 00 E</i>		4"	5.71	KO		focused star	
<i>W 30 W</i>		6"	6.14	KO			
<i>00 E 00 E</i>		6"	6.96	60E			
<i>W 30 W</i>		4"	6.82	KO			
<i>00 W</i>		4"	5.74	d62			
<i>00 W</i>		11"	4.87	71I			
<i>00 W</i>		4"	6.18	52102		01 ^h : clear night, clear, dry, good seeing	
<i>00 W</i>		8"	2.91	5511		02 ^h : 1 meter hole down - tried to get it going	
<i>00 W</i>		8"	4.04	60I		In last 14 minutes - I could only see	
<i>00 26 W</i>			4.58	KOII	9	as my log, do not attempt	Sen 5 ^{counts} 1 fine
<i>00 30 W</i>					9	set 1, 5, 9.	2 better
<i>00 35 W</i>					9		4 very good
<i>00:39</i>						Closed down dew forming on telescope and spectrograph.	
						2 P.H. worked in dome.	

269

Date *Sept 17, 1955* 9:14 12:14 6:3. Observer *Mr. S. - H^v* Julian Day 2438316.

© 199 55 10.8 3567.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2762	Vega	18 35.6	+38° 45'		4/15/32	4		18:30	a	
2762	16, 437, 16 Egg B	19 40.9	+50° 25'		6/6/32	28		19:00	a, b	
2764	16, 437, 16 Egg A	"	"		6/6/32	28		19:30	a, b	
2765	19, 211	20 32.0	-2° 55'		7/4/32	28		19:58	a, b, sky	
2766	21, 211, 53A	22 24.6	-16° 56'		7/4/32	28		20:10	a, b, sky	
2767	214, 403	22 16.4	-08° 05'		7/4/32	28		20:30	a, b, sky	
2768	40	00 04.7	+28° 50'		9/4/32	28		21:40	a, b, sky	
2769	8, 084	01 13.9	-00° 42'		7/4/32	28		22:10	a, b	
2770	4, 211, 7, 211	01 44.8	+51° 27'		1/4/32	28		22:00	a	
2771	1, 211, 7, 211	01 05.7	+54° 45'		7/5/32	28		22:16	a, b	
2772	9, 562	01 34.9	-07° 18'		1/6/32	28		22:01	a	
2773	12, 847, 06	01 39.2	-40° 26'		1/17/32	28	13.0	22:00	a, b	
27 29X	HD 16646	02 29.8	+67 38	I 12 1/2	II 0 b	008	13.0	00 44	01 08	2
27 29X'	" 6833	01 03.9	+34 13	"	"	"		01 18	01 24	1
	"	"	"	"	"	"	12.9	01 26	01 41	1
	"	"	"	"	"	"		01 44	02 21	1

Dome Temp. *38°F*Focus *12-66*

Dome Temp. _____

CO₂ in 17⁰⁰ EST, 22⁰⁰ EST
1022000V

Transparency Conditions

*18⁰⁰: heavy patches in E & 25 up**19⁰⁰: N & 25 up
Saw some faint clouds, blue, yellow, orange**210*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
<i>01⁰⁰ W</i>		<i>10</i>	<i>6.00</i>	<i>A0 I</i>		<i>Vega kept drifting out</i>		
<i>01⁴⁰ W</i>		<i>4"</i>	<i>6.20</i>	<i>65 V</i>		<i>18⁰⁰: sky much improved - good & clear everywhere</i>		
<i>01⁰⁵ W, 01¹⁶ W</i>		<i>4"</i>	<i>5.96</i>	<i>62 I</i>				
<i>01³⁶ W, 00⁴⁶ W</i>		<i>2"</i>	<i>6.30</i>	<i>657</i>		<i>Several stars</i>		
<i>01³⁸ E, 00²⁷ E</i>		<i>2"</i>	<i>6.44</i>	<i>661</i>				
<i>01¹⁹ E, 00⁰⁹ E</i>		<i>2"</i>	<i>6.20</i>	<i>662</i>				
<i>01¹⁰ E, 00⁰⁷ E</i>		<i>3"</i>	<i>6.22</i>	<i>60</i>		<i>21⁰⁰: sky good, mostly clear</i>		
<i>01¹⁰ E, 00⁰⁷ E</i>		<i>3"</i>	<i>6.14</i>	<i>60</i>				
<i>01⁴⁵ E, 01³⁴ E</i>		<i>3"</i>	<i>5.86</i>	<i>653</i>		<i>20⁰⁰: sky excellent everywhere</i>		
<i>01⁵⁰ E</i>		<i>2"</i>	<i>6.45</i>	<i>60 I</i>		<i>20⁰⁰: sky has a few faint clouds, all in E</i>		
<i>01⁴⁰ E, 00⁰⁰ E</i>		<i>2"</i>	<i>6.12</i>	<i>65 V</i>		<u>0100 Thin Cirrus</u>		
<i>01⁴² E</i>		<i>2"</i>	<i>6.74</i>	<i>652</i>				
<i>01³⁴ E, 00²⁴ E</i>		<i>2"</i>	<i>6.94</i>	<i>62 I</i>				
<i>0117E</i>	<i>67 54</i>	<i>0-1</i>	<i>7.7</i>	<i>F₂ II</i>	<i>3-3-3</i>	<i>Sot 5 vdB Hi Lun.</i>	<i>#8 6513 6523</i>	<i>Very good</i>
<i>0127W</i>		<i>0-1</i>	<i>8.1</i>	<i>K III</i>	<i>9</i>	<i>" 2 You 25%</i>	<i>#9 6527 6532</i>	<i>Very good</i>
<i>0147W</i>	<i>54 34</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>3-3-3</i>	<i>" 5 " 50%</i>	<i>" 6534 6541</i>	<i>Very good</i>
<i>0223W</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>3-3-</i>	<i>" 9 " 100%</i>	<i>" 6545 6565</i>	<i>Very good</i>

271

Date Oct 12-14/63 Cont'd Observer -HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2729 ²	HD 26065	04 10.3	-07 49	I-12 $\frac{1}{2}$	Ilford	808		02 39 ⁰⁰	02 40 ³⁰	3
	" o ² Eri	"	"	"	"	"		02 44 ²⁰	02 46 ²⁰	"
	"	"	"	"	"	"	12.9	02 50	02 55	"
2729 ³	BD +47° 781	03 06.4	+47 43.6	"	"	"	"	03 16	05 20	4
	Focals	150	0.3							

Dome Temp. $+48^{\circ}$

Transparency Conditions

FAIR

272

Focus

0335 Faint Aurora

Occasional Circus all Night

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 E		00	5.0	dk	9	Setz 1/555 25% #5 1 count	fine
10 E		"	"	"	9	" 5 50% " 2 counts	strong good
007 E	-07 42	"	"	"	9	" 9 100% 4 counts	strong
03 21 W	47 59	1	8.5	K	3-3-3 10/8	" 5 Ecl. Bin. (F) #9 6581 6637	strong OK
2 PH + 12 IN DOME							
0535 Looked for comet but could not find it. Sky too bright Suggest looking at least 1/2 hr earlier							

273

Date Jan 14/15 '63 Observer B - H Julian Day 2438317.

① 200 54 38.2 3569.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
297-2774	α Lyr	18 35.6	+38°45'		4/4/33	28		18:40		
297-2775	HD 193664	20 17.1	+66°45'		6/5/33	28		19:05	2x	
297-2776	HD 196761	20 38.0	-73°55'		7/4/33	28		19:31	2x + sky	
297-2777	HD 187923	19 56.5	+11°34'		6/5/33	28		20:02	2x	
297-2778	53 Aqr A+B	22 24.6	-16°56'		6/5/33	28		20:27	2x + sky	
297-2779	HD 214448	22 36.4	-08°05'		6/6/33	28		20:53	2x + sky	
297-2780	HD 215812 A+B	22 46.0	-04°25'		6/6/33	28		21:22	2x + sky	
297-2781	51 Peg	22 55.7	+20°35'		6/5/33	28		21:50	2x	
297-2782	HD 8262	01 20.4	+18°30'		6/6/33	28		22:17	2x + sky	
297-2783	γ (5-p) 10	00 52.7	+03°51'		2/5/33	14		23:00	2x	
297-2784	γ A	00 52.7	+03°51'		6/5/33	14		23:19	2x + sky	
297-2785	HD 10307	01 39.5	+42°26'		6/5/33	14	(16.5)	23:52	2x	
27295 ⁴	HD 16066	02 29.8	+67°38'	I-12½	IIaOb	008	16.5	00:39	01:27	1
27296 ⁵	BD +17° 828	03 20.0	47 52	"	"	"	"	01:39	01:45	2
27297 ⁶	BD -46° 230	03 30.6	47 47	"	"	"	16.4	02:01	03:00	3
	Focus Test									

OTB

Dome Temp.

Focus

Dome Temp.

CO₂ i- } 1820
 v = 750 }

Transparency Conditions Fine, Ci Low in W and N

1940 Haze Low in South

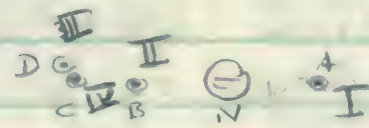
2200 Haze moving up

Night OK, NOT AOK

274

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0118W		3"	0	A0V		EXT. ST	
0005W + 0015W		3"	5.96	SSV			
0015W + 0025W		5"	6.36	dg 7			* Seeing good <u>most</u> of TIME TRANSPARENCY <u>poor</u>
0130W + 0140W		3"	5.78	SSV			
0040E + 0030E		5"	6.30 + 6.44	dg 1 + dg 2		A+B	
0025E + 0015E		5"	6.22	SO			
0005E 0005W		5"	6.66	SSV		A+B <u>NOT C</u>	
0015E 0030E		4"	5.53	SSV			
0140E + 0120E		5"	6.96	SSV			
0030E		-	-1	S2V		no g	
0013E			+6	42V		Smallest g	
0026E		4"	4.94	S2V		= HR 483	
0006W	67 54	00	7.7	F2 II	33-3	Set 5 vdB Hilum.	#8 6645 6655
0025E	48 04	2	6.8	B9	9	" 5 α Per	#7 6657 6661
300W	47 13	2*	9.0	F3	3-3-3	" 5 " "	#9 6666 6700
				10/8	4 9	3 P.H. + 5 in Q. H. E	fine, good " 1 g. d. L. g. g. g. OK d. e. v.



275 Fe, New astronomy by students (25) showed to, H

Date Tues/Wed Oct 15/16 1963 Observer Loy Cr - Jst Julian Day 2438318.

⊙ 201 54 07.8 3571.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27298 ⁷	HD 212496	22 19.6	+51 44	I-12 ^{1/2}	IIaOB	.008	19.5	20 43	20 44	4
								20 45	20 46	
								20 46	20 48	
27298 ⁸	TB 5-18 HD 239925	22 16.6	+55 54	I-12 ^{1/2}	IIaOB	.016	19.6	21 10	22 46	1
27300 ²⁹⁹	HD 215441	22 40.0	+55 02	I-12 ^{1/2}	IIaOB	.008	19.6	23 09	23 59	2
27300 ⁰	HP 16066	02 29.8	+67 38	I-12	IIaOB	.008	19.7	00 21	00 57	3
27300 ¹	BD +47 781	03 06.4	+47 43.5	I-12	IIaOB	.008	19.6	01 10	02 34	4
27300 ²	HD 37171	05 31.5	+10 58	I-12	IIaOB	.008	19.4	02 49	03 11	1
27303 ⁴³	HD 141 ⁴³	02 12.2	+56 40 ³	I-12	IIaOB	.008	19.2	03 31	03 37	2
27304	HD 14134	02 12.1	+56 40	I-12	IIaOB	.008	19.2	03 52	04 04	2
27305	BD +48° 143	03 24.8	+48 25	I-12	IIaOB	.008	19.1	04 18	04 28	3
27306	HD 35600	05 20.8	+30 07					4 46	04 48	4
								4 49	04 53	4
								4 53	05 01	4

Focus test

Dome Temp. 65

Focus 12.66

Dome Temp. _____

Transparency Conditions

*few low clouds in NW
very hazy*

276

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
44	0 20 E		2	5.6	G9 III	NO set 2	Yoss #6	6709 6710 (1) guiding
46	0 18 E 9 21 E	+52 03				9 red 5		6711 6713 (1) strong quad cut
48	0 16 E					9 red 8		6714 6718 (2) strong guiding
46	1 44 W	+56 14	2	10.53	Bipd IV	2-1-2 red 5	OB #10	6720 6790 (20) fine quad
49	2 35 W	+55 22	2	8.6	ADp	3-3-3 set 5	Lg Pec A. #8	6794 (10) fine
57	0 19 E	+67 53	2-1	7.7	F2 II	3-3-3 set 5	LUM HU S.B. #7	6806 (15) strong quad in v.10
2	0 43 W	+47 59	2-1	8.5	Ki	3-3-3 set 5	F Ecl Ben #8	6817 6827 (20) strong quad
11	1 06 E	+11 01	1	7.59	K5 III	3-3-3	HU S.B. filter filter #8	6859 (20) strong quad in v
32	2 39 W	+57 00	1	6.4	B2 ¹ Sg	3-3-3	Set 3. Stand. Vel. #7	6862. 6866. (4) strong quad
34	3 06 W	+56 59	1	6.4	B2 ² Sg	3-3-3	Set 3. #7	67 71 (4) strong quad
26	2 17 W	+48 37	2	6.5	B9	3-3-3	Set 3. A Pers. #7	73 (4) strong quad
48	0 41 W		1-2	5.7	B9 Ib	9	Set 3. Mk Stand. #7	83 (5) strong quad
58	0 46 W					3-3-3	Set 5	87 (6) fine
501	0 54 W					3-3-3	Set 9	88 97 (3) strong quad
							Set 9	OK mount w/tilt quad

2 PH's in Dome.

Dome Temp. $+68^{\circ}\text{F}$ Transparency Conditions *poor*

278

Focus *12.66*

Dome Temp.

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 21	0 23 E	53 07	0-1	6.6	A3I _b	9	Set 2 MK Std.	Sens 6 1 count fine
12	0 28 W		0-1			9	Set 5	" " 2 " fine quiet
31	0 47 W		0-1			9	Set 9	" " 4 " strong
							Clouds and more clouds IPH loaded.	

Dome Temp. 67°F

Focus 12.66

Dome Temp.

Transparency Conditions

Poor

0.40

clouds

280

Hour Angle End	Declination	Seeing	Pg. Mag.	Sp.	Comp.	REMARKS	Quality
01:04 ⁿ E	77.26	0-1	4.4	K IV	9	set 2 Yoss counts 1 sens 6 { 6913 6914	good
00:48 E	"	0-1	"	"	3-3-3	set 5 2 sens 6 { 5915 5917	good
00:39 E	"	0-1	"	"	3-3-3	set 8 4 sens 6 { 6918 6922	good
01:07 E	29.07	0-1	5.3	G8 III p	5-4	set 2 Yoss 1 sens 6 { 6929 6930	good
00:58 E	"	0-1	"	G8 III p	3-3-3	set 5 2 sens 6 { 6931 6933	good
00:30 E	"	0-1	"	"	3-3-3	set 8 Small clouds passing part of star 4 sens 6 { 6934 6938	good
00:34 E	29:54	1	5.7	K III-IV	3-3-3	set 2 (clear) Yoss 1 sens 6 { 6939 6939	good
00:21 E	"	1	"	"	3-3-3	set 5 " 2 sens 6 { 6940 6942	good
00:03 W	"	1+	"	"	3-3-3	set 8 " 4 sens 6 { 6943 6947	good
00:44 W	"	1-2	6.1	G5 IV p	9	set 2 1 sens 6 { 49 50	good
00:52 W	55 45	0-1	"	"	3-3-3	5 " " { 51 53	good
00:34 W	"	0-1	"	"	3-3-3	9 " " { 54 58	good
						Set 5.	OK
2 P+1's in Dome.							

281

TELESCOPE WRAPPED in plastic

Date Fr/Sat OCT 18/19 1963 Observer B-H Julian Day 2438321
 0204 52 48.9 3577.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
298-2786	α Lyr	18 35.6	+38°45'		4/5/33	28		18 35		
298-2787	16 Cyg A	19 40.9	+50 25		6/6/33	28		19 00	2x	
27312	HD 190658	20 00.8	+15°13'	12"	IIa0b	008	22°	19 59	21 22 ^m	1
27313	+B S-39	23 53.7	+60°36'	"	"	016	"	21 50	23 50	
298-2788	Mira	02 17.5	-03 09		5/7/33	28		00 07	15 ^m	
298-2789	"	"	"		"	50		00 32	Fixed at 3900	
27314	HD 16066	02 29.8	67 38	I-12	IIa0b	016*	22.8	01 15	01 39	1
"	"	"	"	"	"	008	22.8	01 43	02 39	
27315	BD+47 781	03 06.9	47 43.5	"	"	012	22.6	02 47	05 35	2
	Faint Trace					008				

Sun/Mon Oct 20/21, 1963

Plastic catches in wind image bounced all over —

Dome Temp. 70°F

Focus 12.66

Dome Temp.

17:30 EST { CO2 in
V = 700
2300 { CO2 in
V = 900

Transparency Conditions Getting Sun very red, hazy
typical tropical anomalies OK for A
Altocum wave in 1310 EST

282

oo oo sky OK but not AOK

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0136W			0.0	AOU			
0051W + 0142W						Cloud large Do not reach	
0246W	+15°24'	1+	8.0	g172	3+5+3	vdB (SB) 6959-6979	Partly cloudy photo scaled, 1 2 stars guiding poor & comp table quid, poor exp. fine
0123W	+60°59'	1-2	10.51	B1V	2+1+	for 5t. 55-58 57045	OB prog p18
0631E			8	g17			
0005E			8	g17			
0034W		0-1	7.7	F2II	2-1	Sets 5 Hr. Lum. vdB. *ERROR	#8 7051 7061
0124W	+67°54'	0	"	"	3-3-3	" 9 " " "	#8 7062+1 7073
0335W	47°52'	0-1	8.5	K1	2-2-2	" 5 Ecl. bin (F)	#9 7076 7140
					10/e	" 9	
IPH. Loaded.							
A POOR NIGHT.							
Closed Down - FL-Pa.				2 P.H. loaded.			

Mon. 21 John Percy had visitors (WEA)

Richard Vandenberg = vW

1953

Date Mon Tues 21st Oct '53 Observer Re mce - H Julian Day 2439324

207 51 47.6 3583.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27316	HD 198149	20 ^h 43.3 ^m	+61° 27'	I 12 $\frac{1}{2}$	IIaOB	.008	17.2	20:29	20:33	3
	α Cep	"	"	"	"	"	17.2	20:35	20:59	3
	"	"	"	"	"	"	17.2	20:42	20:52	3
27317	HD 222404	23 35.2	+77° 04'	"	"	"	"	21:00	21:11	4
	γ Cep "	"	"	"	"	"	"	21:13	21:34	4
	"	"	"	"	"	"	"	21:38	22:23	4
27318	HD 15784	02 27.2	+67° 55'	"	"	"	"	22:43	00:29	1
	Focus TEST					.008				

slit width probably changed after #27316 when focus checked.

Dome Temp. 52°

Focus 12.66

Dome Temp.

*SLIT.000

23:00 Transparency Conditions Good (slight haze in south)

23:40 scattered clouds 284

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 ^h 18 ^m W	+61° 42'	0-	4.6	K0 IV	3-3-3	set 2 "Yoss" sens 6 1 count	fine strong
01 ^h 26 ^m W		0-			3-3-3	set 5 " sens 6 { 7156 7158	strong
01 ^h 38 ^m W		0-			3-3-3	set 8 " sens 6 { 7160 7164	strong
00 ^h 46 ^m E	+77° 26'	0-	4.4	K1 IV	3-3-3	set 2 " sens 6 { 7167 7168	fine strong, comp good
00 ^h 22 ^m E	"	0		K1 IV	3-3-3	set 5 " sens 6 { 7169 7171	strong
00 ^h 27 ^m W	"	0		"	3-3-3	set 8 " sens 6 { 7172 7176	strong
00 21 E	68 10	00	6.77	F4 II	3-6	set 5 High Lum V.D.S. sens 7 { 7177 7173.5	fine strong good
					10/8	" 9	center to violet
						2 P.H. +8	

Shown MIS to Astronomer, 14 Clouds to 20:00

less - more clouds

Transparency Conditions some haze later

286

Dome Temp. 56°F

Focus 12.66

Dome Temp.

clouds at 22:35!

ding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			10.51	B.I		set 5 - OB program for 55	
	+54° 33'	0	8.1	K.III	9	set 2 Yoss standard luminosity 25% sens. 8	7202 very weak
						clouds	
						no useful plate - no focus test.	
						1 P.H. + 8	

287

Date ^{Thurs} Wed Oct 23-24/63 Observer L-VW-Hg-H ✓ Julian Day 2438326.
 @ 209 51 15.7 3586.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27320	H.D. 198149	20 43.3	61 27	I-12 $\frac{1}{2}$	BIIA ₀	set 003	19.8	19 08	19 09	3
	u η Cep							19 13	19 15	u
	u							19 16	19 20	u
27321	HD 222404 γ Cep	23 35.2	477 04	u	u	u	23	19 47	19 48	4
								19 51	19 53	4
								20 01 ³⁰	20 05 ³⁰	4
27322	HD 225095	23 58.3	55 00	"	"	"	19.6	21 23	22 07	1
27323	" 6343	00 59.4	65 26	"	"	"	19.5	22 11	22 35	2
27324	" 9105	01 24.6	62 51	"	"	"	19.4	22 39	23 19	3
27325	" 12302	01 56.4	59 12	"	"	"	19.2	23 34	00 38	4
27326	" 20017	03 07.7	45 19	"	"	"	19.1	01 20	02 38	1
27327	" 24560	03 49.3	44 38	"	"	"	19.0	03 05	05 21	2
	Focus Test		073							
	Oct 24-5/63 VW + Hg exposed but was doublet									

Dome Temp. +66°F

Focus 12.65

Dome Temp.

Transparency Conditions *Poor, Hazy*

288

Fog & Haze 2nd Half.

Hour	Angle End	Declination	Secing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
09	14 W		1	4.6	KOTU	9	set 1 4065	plate { exp. fine guiding not
15	19 W	+61-42				9	set 5	badly { fine guid on vis
20	24 W					9	set 9	scratched { strong
48	02 01 E	calculated	1	4.4	KITV		" 1	good { fine
50	01 56 E					9	" 5	vis { strong
55	01 43 E					9	" 9	strong
07	0 05 E	55 22	1-2	7.6	B1e	3-3-3	" 5 MWC 429 Be prog. Su 8 { 7261 7273	exp. fine guid not over
35	0 39 E	65 48	1-2	7.1	B5eR	3-3-3	" 5 MWC 10 " " Br. Aurora" 8 { 7274 7286	plate scratched over fine guid strong
19	0 20 E	63 09	2	7.5	cB5e	3-3-3	" 5 MWC 13 " " 8 { 7287 7299	fine not quite ready
34	0 27 W	59 30	0-1	8.2	B3e	3-3-3	" 5 MWC 23 " " 8 { 7300 7312	fine guid
45	0 16 W	42 33	0-1	7.9	B9ne	3-3-3	" 5 Be prog. MWC 13 #8 { 7319 7331	fine chip mark guid
51	0 12 W	44 51	0-1	7.3	Bine	3-3-3	" 5 " MWC 75 #8 { 7334 7347	fine not quite ready
						10/8	" 9	center to v. lot
							1 P.H. + X 3 used for sensitive plate Oct 25/63	
							other included with new plates	

Baked 70 plates 2400263 cut Oct 25/1962

Visitors 89 1st hour *97 2nd hour
 Showed Ring nebula

288

* including 7 guests from the
 Kellogg Obs. in Buffalo. - Py Fl. Co

Date Sat/Sun Oct 26/27 Observer FL cc

Julian Day 24383.29

0 212 50 40.9 3591.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27328	54 Psc.	00 34.2	+20 43	I-12	PaBb1	0.008	21°	21 58	22 10	3
	HD 3651							22 12	22 25	3
								22 26	23 15	3
27329	HD 6582	01 01.6	+54 26	I-12	IIaOB	1.008	21.2°	23 ^h 51 ^m	00 02	4
	4 Cas "	"	"	"	"	"	"	00 ^h 06 ^m	00 42	4
	"	"	"	"	"	"	"	00 ^h 48 ^m	01 06	4
27329F	Focus Test.									1

fast developer used
 mixed Oct 3, 1962
 used only for 20 plates
 of 20 plates

Dome Temp. 64
 Focus 12.66
 Dome Temp. 65

CO₂ m: 22⁴⁰ EST

Transparency Conditions

Slight haze with patches of cloud.

22⁰⁰: clear and no air

290

23⁰⁰: sky covered with air in E-W-E

Image of star has strange irregular shape.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 26 E	+29 04'	0	6.70	K02	9	Set 1 YOSS	probable only 2 counts. fine
0 61 E	"	"	"	"	9	" 5 YOSS	" spotted once. 7366
0 40 W.	"	*	"	"	9	" 9 Seeing - horrid!!!	7370 7370 7318
00 ^h 57 ^m W	"	1-2	6.1	G8 ⁵ I _r	3-3-3	set 2 } Pleiades P.H. 4 has been double spotted	7389 7390 fine
01 ^h 38 ^m W	+54 46'	1	"	"	3-3-3	set 5 } 23 ²⁰ : what is an endless source of air	7391 7393
02 ^h 02 ^m W	"	1-2	"	"	3-3	set 8 ← Clouds YOSS	7394 7396
					1/8	set 5	OK

Completely Clouded over 01 05 EST.

1 pH loaded + 8

* telescope very much out of focus.

203

Date Wed/Thurs Oct 30/31 Observer 4th yr Lab Julian 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.
27330 F1	Four test	DTB	117A	I-12	IIa0 B	.008	7°C			1
"				"	"	"	"			1
"				"	"	"	"			1
27330 F2				I-12	IIa0 B	.008	7.5°C			3
F2										
F3				I-12	IIc0 B	.008	7.7°C			2
27330 F3				I-12	IIc0 B	.008	7.7°C			2
F3		DTB	117A	I-12	IIa0 B	.008	7.7°C			2

Dome Temp.

Transparency Conditions

Thick Cloud.

Focus

294

Dome Temp.

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					12/10	set 2 - Focus test - focus 12.85	How
						set 5 " " " 12.80	Mt
						set 8 " " " 12.75	Sm
						set 2 " " " 12.70	mcl
						5 " " " 12.65	Ellis
						8 " " " 12.60	Re
						2 " " " 12.55	Hulse
						5 " " " 12.40	Clarke
					12/10	8 " " " 12.45	Viner

redo
Nov 6

Developed

6 min
D19

#2
Empty Plateholder was left in
ds. box in closed & latched
condition. Someone might have
assumed it was loaded.

was F1 done time ✓

Dome Temp.

Focus

Dome Temp.

CO₂ in } 19:30
V = 700 }

Transparency Conditions Fine, between Cumulonimbus clouds

2100

sky very fine


2300

drifting

cloudfields (alto cumuli)

296

ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
0250w+30w		5"	5.96	52V		Strong wind images dancing		
0312+0322		5"	6.20	55V		" " " "		
0105 E		5"	5 (52)	28 ^g				
0035 E		6"	5 (52)	28 ^g				
0013 E		6"	5	32	28 ^g			
0400 ⁷		Traced across 21 d.74 with slit						
OBSERVED		ARISTARCHUS		2245 - 2255. EST. Seems to have it)				
normal yellow color								
0400		5"	4.94	52V				
0105		8"	4.87	50E				

Clouds, Very heavy cloud 19:20
"one plate was broken"

297

Date Nov 19/12 1963 170/1- Observer VAD - Re Julian Day 2438345.
0228 52 11.2 3622.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
301-2797	γ^2 C ₀ T	02262	+08'18"		6/4/33	28		0017		
301-2798	X C ₀ T	03177	+03'14"		6/5/33	28		0036		
301-2799	HD37234	03400	+06'18"							
27331	HD37171	5 ^h 31 ^m .5	+10°58'	25"	IIaOb	.008	6°C	01 ^h 32	02 ^h 58	4
27332	HD37184	6 ^h 7 ^m .6	+12°43'	25"	IIaOb	.008	6°C	03 ^h 20		2
7330	Focus Test	012	20/13	Temp	7°C	Focus	1520	0000	1520	

Cozim 2340

Partly Cloudy Alto Cumulus

298

Dome Temp.

V = 700

Transparency Conditions

Focus

Nov. 9/63

Focus 12.66

F 15.32

Dome Temp.

Changed to 25

12" camera

Walt Telt 20.35

25"

T 23.15

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0105W		6"	4.27	B9 IV		E-T-55	
		6"	4.82	S5 II			
		0.95		F5 IV			
0113W	+11°03m	0-1	7.6	K5 III	6-6 12	VdB HVshen. (lines swings that occur) Sub 2; sens Co	good
	+18°42m	1+	6.1	B8		B8-B9 Proj. Sub 2; sens Co	nothing in plate
						Light from NW. Clouds forming overhead	
						should have been left in plate holder to be used!	
						(Plate 27332 opened but not exposed)	
						1 PH loaded in N mag	
						Close at 3 ^h 50 EST	

d.c. 10/11/63

Dome Temp. +50°F

Focus 5.33 sec

Dome Temp.


Transparency Conditions Clear

302

23⁰⁰ quite good

23²⁰ very milky - a lot of clouds

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
032W	+0° 20'	1	8.0	gM2	6-10-1	21.5 vAD SB	fine
037E	+07° 50'	1	7.7	F2II	6-6-6	21.5 vAD SB 4.2 mag	poor
042W	+42° 11'	1	5.90	B1	6-6-6	21.5 B2-19	fine
045E		2	5.90	dG1		faded star, in field telescope view	
050E		3	4.71	GJII		00 ⁴⁰ ; clear on all bearings, no clouds seen	
		2	5.94	d34		01 ⁰⁰ ; 1 meter stopped again at 01 ⁰⁰ and saw	
055E		2	5.28	S0II		01 ⁰⁰ ; sky clear. 01 ⁰⁰ ; ample for deep	
						irradiance to low end. Faint clouds and	
						02 ⁰⁰ ; 2 by stream of clouds over	
						03 ⁰⁰ ; clear sky - 1. mag. 10.0	
						04 ⁰⁰ ; clear sky - 1. mag. 10.0	
						05 ⁰⁰ ; clear sky - 1. mag. 10.0	
0145W	+07° 56'	00	6.08	B9	6-6-6	21.5 P3-B4	fine
					20/15	11.9 2 P.H. LONDED	OK

Dome Temp. 32° F

Focus 15.24

Dome Temp.

Transparency Conditions ~~Clear~~

304

Windy
Exp. Water not working properly

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15 W 3" 15" W	415 35	0	9.0	9M2	9-9-9	125 vdB Sp. Bin. mostly overcast Cloud at 20:00 No relief in night Closed up at 21:30 3 P.H. loaded. Clear: 23 ⁰⁰ Starting to cloud over again: 23 ³⁰ Completely covered up to = 02 ⁰⁰ Clear again = 05 ¹⁵	weak faintest

205

Date Dec 7-8 1963

Observer M E, V N, S. - V N, S. Julian Day 2438371.

Ex 8

⊙ 255 09 26.3 3656.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
27337	HD 170552	20 00.9	-17° 13'	T-25	IIaob	ref .012	3°C	18:46	19:36	1
27338	HD 3038	0 28.6	+65 12	T-25	IIaob	ref .020	3°C	20:25	20:32	2
27339	HD 10425	1 36.6	+60 05	T-25	IIaob	.008	3°C	20:45	21:00	1
33340	HD 9812	1 27.2	7 25	"	"	"	"	21:16	21:32	2
304-2803	HD 12,294	00 01.4	-06° 02'		7/4/33	28		21:00	e, b, sky	
2804	" 25,580 31.5	04 03.2	+21° 54.3'		7/8/33	28		22:50		
2805	21,087 25,090	03 42.5	+21° 15'		7/31/33	21		23:00	e, b, sky, test	
2806	24,411 λ H _α	05 55.5	+44° 04'		4/3/33	21		23:05	a	

Dome Temp. 36°

Focus 15.2 N

Dome Temp.

only 52 left for 2-3 on filling - 22" East
valley 200 - 41"

Transparency Conditions Clear

306

Expensive water not used for fuel

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1200 W	45 20'	0	2.0	210	7-7-7	not 5 vdB 2 spec. Binary	weak
1205 W	45 30	0	5.4	67	6-6-0	not 5	fine
1215 W	45 22	1	5.7	89	6-6-5	not 5	little beyond in vis
1225 W	45 25	1	5.8	80	6-6-5	not 5	exp. it
1235 W	45 25	3	6.18	58	2.0	clear - ... out of 5th mag - ...	small mag.
1245 W			5.90	161		long star suspected - ...	good mag.
1255 W		4"	4.79	5	11"	good mag.
1305 W			4.71	655	11"	good mag.
					24"	
					24"	
					00"	heavy	

307

Date Feb 13/1953 Observer W.D. - J. Julian Day 2438377.

① 261 15 22.7 3662.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
27241	HD 14132	0212.4	+39° 23'	300	11/016	018	-5°	2100	2145	
305-2807	X 001	0317.7	+02° 14'		6/5/53	28		2230		
305-2808	HD 22211	0340.0	+08° 18'		33	282				
305-2808	23 Tau	0403.2	+12° 55'		6/6/53	28		2255		
305-2809	58 Eri	0449.6	-13° 03'		6/6/53			2325	24+34	
305-2810	104 Tau A2	0504.4	+18° 36'		6/5/53	28		2355	24	
3811	23 J29	0544.7	+01° 10'		6/6/53	28		0151	21	
3812	W 161	0606.0	-25° 51'		7/7/53	28		0145	22	
3813	W 229	0658.2	-25° 00'		7/7/53	28		0140	22	
3814	W 075 92	0754.0	-12° 48'		7/7/53	28		0215	22	
3815	69, 530	0814.7	-12° 31'		7/4/53	28		0310	22	
3816	21, 501	0926.8	-08° 55'		7/4/53	21		0310	22	

Dome Temp. 20°F

Focus 15.14

Dome Temp.

v = 700
CO2 in 24.5

Transparency Conditions partly cloudy

2200 clear & Windy

Very Windy

clouds keep blowing out

~~INTEGRATOR STICKS AT FIRING POINT~~
REMARKS

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0°40' W	+35°41'	0	5.46	20	451	20-25 mag.	comp weak fine grad in vis slightly off
0°40' 30" W		4"	4.82	20V		Very Windy	
			6.78	25H			
0°55' 10" W		5"	5.30	25G	1		
1°05' 10" W		2"	5.97	25I			
1°10' W		6"	5.57	25J	342		
1°E 00' W		7"	5.44	25K		00 ^h 5: clear night for the stars are clear to horizon	
1°W 08' W		11"	6.37	25L		01 ^h : no stars visible	
1°W 10' W		1"	6.23	25M			
1°E 00' W		1"	6.10	25N			
1°W 00' W		8"	5.0	25O		3 ^h : still clear	
1°W		5"	6.25	25P		04 ^h 5 ^m	
Trouble with the side of spectrophot. Sliding. Must be							
Close up 5.30 PST							
SPECTROPHOT. SLIDE MUST BE TREATED WITH SOME LUBRICATOR. MUST							
WASH FREQUENTLY VISITING TO MAKE IT MOVE FT ALL WITH							

309

Date Sun-Mon Dec 15/16 '63 Observer Cr -

Smm

Julian Day 2438379.

15 @ 262 16 25.5 3663.7

16 @ 263 17 29.2 3664.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27342	4D 693	19 50 10 08.7	19 50 -15° 45'	50	IludB	0.02	-7.5	17 52	18 40	4
27343	47 And	21 20	157 12	525	IludB	0.02	-7.1	19 45	20 01	1
26-2317	14,802 n for	22 210	-22° 59'		7/4/33	28		20 ⁴⁰	2,6	
2818	16,001 S 54	02 26.2	+02° 12'		6/4/33	28		21 ⁰	0	
2819	16,004	03 00.4	-06° 22'		7/4/33	28		21 ³⁰	0,6	

Dome Temp. 15.0 E

Transparency Conditions excellent

310

Focus 15.21 - 11 = 15.10

Dome Temp.

after 3 counts, stopped making on 7 sec
had to charge to 8

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:00 W	-15° 40'	0	5.0	d F5	6-12	set 2 Hd bld Uel (EAV 45°) #7	fine - later photo sensitive
20:00 E	+27 34	0.1	5.5	H2M	6-8	set 2 FL Bin. #7	fine
20:00 W		9"	5.37	F5		for image danced around quite a bit, 20" mag	
20:00 W		2"	4.27	F9			
20:00 W		4"	6.18	F8		21:00: 20" mag N. side of the horizon, 20" mag up 10" up 22:00: 1st atmospheric clouds 10-15" up, 20" mag up to 10" 23:00: 20" mag - 5" up up to 10", 20" mag up 20" up, 20" mag up 10" moved all over 20" mag up 10" up, 20" mag up 10" up -WAITED A WHILE- 21:00: SW & N supply some clouds, 20" mag up SNOWING LIGHTLY - OUTDRIP IN N MORE ACTIVE -CLOSE UP-(20")	

20:00 W 20:00 E 20:00 W 20:00 W

Dome Temp. 16°F


ocus $15.21 - .11 = 15.10$

Dome Temp.

Transparency Conditions *Clear* 392

20° : clear, a few surface clouds only

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:32	$+15^{\circ} 74'$	0	80	gMa	9-12	ref 5 used B Sp binary no use ref range of 77/3	fine - quad. in v10
10:00		7"	3.00	68E		held in 	best test?
			4.27	89E		1" air patches in N, NW, W up to 20° E, S free; 20° air patches 20° : top of air up to 20° patch, not heavily covered up to 20° 20° : very dense cloud over all over sky now -	

Dome Temp. +10° F

Focus 15.24 - .11 = 15.13

Dome Temp. +3° F

Cloud - 11 - 20h 3/6

Transparency Conditions ... full moon

10h of haze - 2h obs - several more.

00-30 very hazy

0200 - clouded over.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0			26	set 2 Sky 9 Feb Dec 1963	#4
				Q	30	5 exposure ~ 1/2 min	"
					30	8	"
00 26 W	-7 40	0	5.67	B8	6-6-6	set 2 BB-57	#7 7791 7906 fine
02 14 W	+11 02	0	7.59	K5 III	8-8-8	set 2 v d B JB	#8 7507 7847 good
					2 1/2	Clouds.	center to mid

Dome Temp. *18.5*Focus *15.19*Dome Temp. *+10*FULL MOONTransparency Conditions *Good*

318

*18.55: clear, no clouds, deep, surface clouds -
20.40: bright, photographically, bright moon*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>00⁰⁰ 5⁰⁰ W</i>		<i>6"</i>	<i>6.92</i>	<i>KO</i>		<i>20⁰⁰: deep behind in at seeing not time left to finish the observation</i>	
<i>00⁴⁰ W</i>		<i>6"</i>	<i>7.27</i>	<i>EPV</i>			
<i>00⁰⁰ W, 00⁴⁰ W</i>		<i>3"</i>	<i>6.42</i>	<i>LSI</i>			
<i>00²⁰ W, 00⁰⁰ W</i>		<i>4"</i>	<i>5.90</i>	<i>LSI</i>		<i>21⁴⁵: middle of sky</i>	
<i>00⁴⁰ W, 00²⁰ W</i>		<i>5"</i>	<i>6.77</i>	<i>G=I</i>		<i>22⁰⁰: quiet, very few stars</i>	
<i>00²⁰ W, 00⁴⁰ W</i>		<i>4"</i>	<i>6.16</i>	<i>dG2</i>		<i>23⁰⁰: and up - very faint comparison stars</i>	
<i>00⁰⁰ W, 00²⁰ W</i>		<i>4"</i>	<i>6.59</i>	<i>dG0</i>		<i>00⁰⁰: observation made at 11:00 AM PST</i>	
<i>01¹⁵ W</i>	<i>2° 2'</i>	<i>4"</i>	<i>9</i>	<i>ASB</i>	<i>3-3-3</i>	<i>YYCM. set 2. sens 7871</i>	<i>2.5</i>
<i>01³⁰ W</i>	<i>2° 1'</i>	<i>5"</i>	<i>9</i>	<i>ASB</i>	<i>3-6</i>	<i>set 5 sens 7991</i>	<i>2.5</i>
						<i>set 8 sens 7997</i>	<i>2.5</i>
						<i>some of the stars are very faint, in comparison</i>	<i>2.5</i>
						<i>exposure</i>	<i>2.5</i>
						<i>○ PH loaded</i>	<i>2.5</i>

319

Date Wed - Thurs Jan 8-9, 1964 Observer Fl. Jim Julian 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.
309-2829	9,407	01 30.1	+52° 46'		7/4, 33	28		12 ⁴⁰	2, 6, sky	
3180	9,403	02 05.1	+52° 46'							
3170	10,357	02 00.7	+51° 26'		7/4, 33	28		9 ¹¹	2 h. sky	
3161	11,426-270	03 00.0	+53° 22'		7/4, 33	28		20 ²⁰	6	

Dome Temp. 30°F

CO₂ L, volty 700: 18⁰⁰ EST

Transparency Conditions

18³⁰: O.K.

320

Focus ~~15.30~~

Dome Temp.

19⁰⁰: 30 selected ...
not still O.K.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 11 ^m 33 ^s W		4"	653	66 \bar{I}		19 ⁴⁰ : night already - 2 stars saw one star in twilight	
5 ^h 11 ^m 33 ^s E		3"	650	67 \bar{I}		19 ⁴⁵ : 6 stars in twilight any more known - but not in twilight all stars from twilight	
5 ^h 11 ^m 33 ^s W		10"	2.91	25		20 ⁰⁰ : 6 stars in twilight all clear again	
Clouded Out 21:15 ^h PL.						20 ¹⁵ : made from 19 ⁴⁵ ... found by ... 21 ⁰⁰ : 8 stars in twilight - Best. Note: not long ... 1 PH loaded in pier.	

Dome Temp.

CO₂, voltage 720 : 19⁰⁵ EST

Transparency Conditions

Focus

19⁴⁵: - clouds in S to ¹⁰ up, horizon low part
 - north clear mostly overcast
 - but improving

Dome Temp.

ding Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		7"	6.53	06E		20 ⁴⁵ : much overcast except in E. sky part but big section of cap just cleared see section	
107		9"	4.27	89E		second set of trans 1733 locked in height much not with photometric can't move telescope on P.A. anymore can't close shutters without them being being called Frank Clouds coming from North	

323

Date ~~Mon - Feb 7~~ ^{Jan} 13-14-1944 Observer *Lg; Ro* Julian Day 2438408.

① 292 51 00.6 3668.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
27547	HD37171	05 31.5	+12 58'	I25	2008	1008	-13	22 ^h 15	23 55	/
27550	HD07110	08 ^h 1 ^m 4	+07°13'	I25	do	do	-15°C	0 ^h 45"	2 ^h 47	/
27551	HD11500	08^h2^m8	+17 36	I25	do	do	-15°C			
27551	HD71000	08 ^h 20 ^m 8	+37.36	I25	do	do	-15°C	02 ^h 20	04 ^h 10	
27552	HD11220	11 ^h 01 ^m 11	-24.18	I25	do	do	-15°C	02 ^h 40	04 ^h 05	
275572 =										

#27350 - should have used slit .016 -
read instructions!

Dome Temp. +2.0

-1.0

Transparency Conditions

Very fine in 2nd half.

324

Focus 15.0

Dome Temp.

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 35W	+11°	0+	7.59	KIE	5-6	one flk on mirror fell during exposure set 30 vdo star	1 set = 2nd weak comp. wk too weak comp. wk not spotted
1 52W	+02°02'	0+	9.50	FLU +A5V		set 5 Dec slow motion does not work. note to <u>GUIDE BY HAND!</u>	
2 05W	+37°	1	4.3V	B3	4-6	set 5 B3-B3 Program.	found most spots
2 05W	+40°	0-	7.1	B3	6-8	B3-B3 JTB Focus Test	weak not spotted at a to vis
						Close up 02 ^h 30	
						1 PM in N. J. ...	

223

Date Tue-Wed Jan 14-15, 1963 Observer DA - [unclear] Julian Day 24384.09

Jan 15 - ① 293 52 09.1 3668.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
27353	HD 16066	3° 29.8	105° 30'	D-25	Ilco 06	100	-10.0	02 30	02 58	1
27354	BD 44770	3° 26.4	105° 03.5	"	"	"	"	02 30	02 52	2
27355 ^{SP}	H.S. 27171	5° 30.5	110° 28'	"	"	"	-10.4	03 30	02 26	3
27356	HD 112245	11° 47.2	133° 26'	"	"	"	-10.2	03 30	03 56	4
"	"	"	"	"	"	"	-10.2	03 57	04 41	11
27357	HD 111226	12 42.6	-24 18	"	"	"	"	04 59	06 21	1
	Focus Test		07 B	"	"	"				

Dome Temp. +15°F

Focus 115.25

Dome Temp. +8°

Transparency Conditions *Some clouds*

326

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0000	-57°54'	2.1	7.7	FII	6-6-6	215 v d 3 SB	not spotted exp. time good plate comp. in out of focus quite useless
0004	-57°58'	1	8.5	K	6-6-6	215 F SB	
0004 12 ^m 0004 11		2	7.1	K	6-6-6	215 v d 3 SB	Look good good in blue
0037 E	+37°59'	1+	7.1	65	6-6-6	215 ^{no comp} STD Vel P.H. out of Position	broken into 2 pieces 1 in focus other out of focus good OK
0009 W	"	2	"	"	6-6-6	" 2 " *	#7 8467 #7 8483
0050 W	-24°39'	0	7.1	B9	6-6-6	" 2 B8-B9	#7 8489 #7 8497
					20/15	" 8	ITA
						1 P.H. Loaded.	
						6? in Dome	
						1 P.H. loaded + 6 plates remain of emulsion * 2AOC263 51 51	#27354 - prob loaded dark side not likely - MR - maybe plateholder shifted
						* Plate found broken in P.H.	

328

Ending Time
E.S.T.

329

Exposure Chart

April 30/62

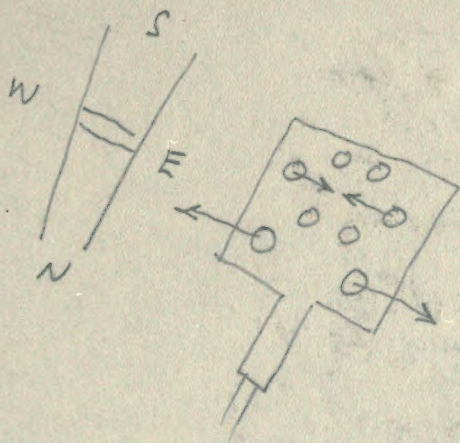
IIa06 or 103a0 developed in Acupine

I-12 $\frac{1}{2}$			I-25		
Input Selector	B-F	G-M	Input Selector	B-F	G-M
4	1	2	4	2	3
5	2	4	5	5	8
6	2	4	6	5	8
7	4	8	7	12	16
8	10	20	8	30	40
9	40	70	9	120	180
10	70	100			

89.7
39.3
50.4

39.3
58.4
97.7

330



49

50.6

Oct 4. 9 31.1 - 10 50.6

- push focus North
- push focus South

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AT THE



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