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6-12 FOCUS: MAKE FOCUS SETTING WITH RED NOS. DECREASING,
i.e., TURN KNOB C.C.W. AS VIEWED FROM ABOVE

NOTE:- THAT 50 DIVISIONS \equiv RELATIVE SHIFT OF 21 MICRONS
 \equiv PHYSICAL MOVEMENT OF PLATE BY 6×10^{-3} IN.

for centre to violet, correct by turning knob c.w.

6-40 FOCUS: MAKE SETTING WITH NUMBERS INCREASING;
IF CENTRE TO RED, INCREASE THE SETTING.

1854

N.

3

ome Temp.

us

ome Temp.

Hour Angle

End

Dome Temp. 20° F
 Focus
 Dome Temp.

Transparency Conditions EXCELLENT

VERY STRONG N.W. WIND

g Time i.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
42 27	A W 1: 47	50° 33'	4"	3.95	BOPE	15	G12	Spect Bin (H&R) 4x10/18	FINE
01	C W 1: 55	20° 41'		2.7	AS	15	G12	Hd. Rel. Bin 4x10/20	FINE
02	K W 0: 45	41° 15.5'	4"	2.5	BSU	5-5-5	G12	" " " STOPPED BY (3 PIECES) CLOUDS 8x100/114	BROKEN V. SL. WEAK
50	C F 0: 16	+6° 07'	5"	3.1	KO III	5-10	G12	B&K 10 4x10/35	FINE
10	A N 0: 57	-8° 28'		2.4	KAT	5/5/5	G12	Bright Standard Velocity Star (HD) 4x10/30	FINE
56	C W 0: 59	+23° 56'		3.76	GO II	5/5/5	"	" " 4x10/22	FINE
								close at 3:00 a bit of snow clouds a hole clouds...	

Date 6-7 FEB /69 THUR-FRI Observer Hd. Jf. Ci Trn / Bai Tn H. Wm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31819	HD 32963	05 ^h 01. ^m 8	+26° 12'	G12	IIa-O	13 short	23°	18 ^h 32' ⁵⁶	19 ^h 28'	C
31820	HD 42397	06 ^h 05. ^m 4	+25° 02'	"	"	"	23°	19 ^h 51' ⁶⁹	21 ^h 10'	A
31821	† Per.	01 ^h 37. ^m 4	+50° 11'	"	"	9 extra-long		21 ^h 27' ⁴	21 ^h 31'	C
31822	AG 4044	07 ^h 28. ^m 2	+28° 57'	"	"	13		21 ^h 56' ^{3:20}	01 ^h 16'	A
31823	HD 101013	11 ^h 32.5	+51° 10'	"	"	9	15°	02 24 ⁷¹	03 ^h 35'	C
31824	" 112299	12 50.6	26 16	"	"	13		03 51 ^{2:34}	06 25	A
31824T1	calibration step wedge for flatter				31813 - 31823					

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

Focus

Dome Temp.

check finder field - exposure times

g Time i.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	2 to 3x too low	Quality
26'	C	00 ^h 46 ^m E	+26° 19'	~3"	8.36	G2V	5-5-5	Sec. STD. VEL. finder field drawn	8x100/311	** FINE
10'	F	00 ^h 09 ^m E	+25° 03'	~4"	8.68	G0IV	5-5-5	S.S.V. Whole of finder field drawn	8x100/323	FINE
31'	C	05 ^h 20 ^m W	+50° 34'		3.95	B0 _{pe}	5-10	Spect. Bin. (HK)	4x10/20	
16'		02 ^h 34 ^m W	+28° 49'	~5"	9.29	G0IV	5-5-	Secondary STD. VEL. finder field drawn	8x100/349	V.SL. WEAK
35'	C	00 ^h 50 ^m W	+50° 48'	~3"	6.0	H1-B0.3	5/5/5	BK (broken)	200/153	* FINE
5'		7.	+25° 57'	~4"	9.19	F8V	3/5/5	S. STD. VEL.	400/200	*** V.SL. WEAK

* NOT GUIDED FAR ENOUGH TO EDGES OF PLATE

* * FOGGED IN MIDDLE (~45^m)

* * * FINGERPRINTS!

Date 7-8 Feb/69 *Tri. Sat.* Observer ^{Tn} ^{Tn} Bü Max/Sc, L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.	Hour Angle End
31825	BD 57° 258	01 ^h 12 ^m .6	+57° 47'	G-40	IIa-O	18	22°F	19:23	21 ^h 08	A	14 ^h 45'
31826	φ Per	01 ^h 37 ^m .4	+50° 11'	G-12	IIa-O	9	22°F	21:38	21:48	C	5 ^h 02'
31827	28 Tau	03 ^h 42 ^m .2	+23° 50'	"	IIa-O	"		22 ^h 05	22:18	A	3:26
31828	27 Tau	03 ^h 43 ^m .7	+23° 65'	"	"	"		22 ^h 25	22 ^h 27	C	3:35h
31829	ε Ori B	05 ^h 20 ^m .5	-5° 59'	"	"	"		22 ^h 46	23 ^h 54	A	3:15W
31830	γ Aur	4:59.5	41° 6'	"	"	"		00 ^h 07	00 ^h 10	C	4 ^h 17'
31831	α Ori	5:49.8	17° 23'	"	"	"		00 ^h 38	00 ^h 43	A	3 ^h 46'
31832	"	"	"	"	"	"		00 ^h 51	00 ^h 56	C	4 ^h 10'
"	"	"	"	"	"	"		01 ^h 01	01 ^h 08	C	
31833	15 γ Com	12 27.0	+26 49	"	"	9		01:41	2:13	A	1:16E
31834	HD 128661	14 33.1	+36° 22'	"	"	13		02:28	3:15	C	2 ^h 26E
31834 T1	calibration	step	wedge	for #	318 25			(2A0C11E)			
T2	"	"	"	"	31826-34			(2A01R68)			

Dome Temp. 27

Transparency Conditions Clear

Focus

Dome Temp.

g Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
08 A	09 ^h 45 ^m W	+58° 11'	3"	10.7	B-V =2.15	8-8-8	GH* (forced to stop exposure early because telescope got too close to N-pier)	200/58
08 C	5 ^h 02 ^m W	+50° 34'	6"	3.95	B0 _{pe}	5-5-5	HK* broken (2 pieces)	40/17 BROKEN SL. STRONG
18 A	3:26 W	+24° 05'	3"	5.01	B8 _p	5-5-5	VG*	200/80 FINE
27 C	3:35 W	+23° 59'	3"	3.54	B2III	5-10	VG*	40/15 FINE STRONG
54 A	3:15 W	-05° 53'	3"	~7.3	B9	5-5-5	VG* clouds.	could be 200(?) 400/100 VERY WEAK
10' C	1 ^h 02 ^m W	+41° 12'	"	2.99	B3V	5-10	VG*	40/15
43 A	3 ^h 46 W	"	"	"	M2 Iob		calcite prism - L.H. side of slit, position 2	20/15 OK
56 C	4 ^h 00 W	"	"	"	"		L.H. + R.H. side - R.H. = position 1	DOUBLE EXPOSURE
04	1:16 E	+29° 29'	3"	5.6	K1 _{UE} -IV	5-5-5	X150*	49/30 FINE
5 C	2 ^h 26 E	+30° 04'	"	7.0	A0	5-5-5	cel. bin heavy clouds	400/175 (56-GUIDINA) FINE

Thu - Fri

Date 13-19 Feb/69 Observer T. H. J. F. / H. C. M. Julian Day 297

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	How Angl End
31835	ϕ Per	1 37.4	+50 11	G12	Ilford	9 ^L	"	19 17 ⁽¹⁰⁾	19 27	A	03 04
31836	HD 32963	05 ^h 01 ^m 8	+26° 12'	"	"	13 ^S	12°F	19 50 ⁽¹⁹⁷⁾	23 07	C	03 19
31836 F	Focus test					9	"			A	
31837	S. Cms	08^h 38^m 2	+19° 24'	"	"	13	"			C	
31837	HD 112299	12 ^h 50 ^m 6	+26° 16'	"	"	13 ^S	7°F	01 26 ⁽²⁹⁷⁾	06 23	C	
31837 71	calibration step wedge for plates 31835 - 31837							14 Feb/69 // m.w.p. 2/48°F			

Dome Temp. 14°F Transparency Conditions clear

Focus

Dome Temp. 6°F

Work about 1 hr passing with Super telescope
 Someone had turned off the voltage.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 A	03 ^h 04 ^m W +50° 34'		3"	3.95	B0pe	5-10	1He bin. SCIT <u>TO</u> <u>LONG</u>	40/184 GUIDING FINE
07 C	03 ^h 19 ^m W +26° 19'		"	8.36	G2V	5-5-5	30/30 snow in Air, closed	800/314 FINE
				8.45 → 10.1	A0		Ecl. Bin.	V. SL. C TO VE; OK ~ 4800
23 C	02 11 PW	+25° 55'	6"-8"	9.19	F8V	5-5-5	Sec. STD. V&L.	400/185 FINE

I don't agree with v. sl.
 - it is pretty badly out
 of focus. J208

A

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Date 14/15 Feb 1969

Observer G. Th. Hns. / Th. Hns. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
31838	ϕ Pers.	1 ^h 37.4	+50°11'	G12	II AO	9L	14°F	18 ^h 32 ^m ^(A)	18 ^h 36 ^m	C 217 ^m
31839	"	"	"	"	"	"	"	18 ^h 40 ^m ^(B)	18 ^h 43 ^m	A 20 ^m 24 ^m
31840	28 Tau.	3 ^h 43.2	+23°50'	"	"	"	"	19 ^h 06 ^m ^(C)	19 ^h 12 ^m	C 0 ^m 46 ^m
31841	27 Tau.	03 ^h 43.2	+23°45'	"	"	"	"	19 ^h 26 ^m ^(D)	19 ^h 28 ^m	A 0 ^m 03 ^m
31842	HD 21699	3 ^h 25.4	+47°04'	"	"	"	"	19 ^h 38 ^m ^(E)	19 ^h 43 ^m	C 1 ^m 35 ^m
31843	HD 36919	5 ^h 29.9	-6°04'	"	"	"	"	20 ^h 09 ^m ^(F)	22 ^h 20 ^m	A 2 ^m 31 ^m
31844	HD 101013	11 ^h 32.5	+51°10'	"	"	"	"	23 ^h 05 ^m ^(G)	23 ^h 55 ^m	C 2 ^m 16 ^m
31845	HD 112127	12 ^h 49.1	+27°19'	"	"	9	"	03 ^h 05 ^m ^(H)	06 ^h 07 ^m	C 2 ^m 38 ^m

Dome Temp. 17°F

Transparency Conditions clear

Focus

Dome Temp. 19°F

ing Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
36 ^m	2 ^h 17 ^m W	+50° 34'	3"	3.95	B0p	5-5-5	14k * exposure meter start count late	40/14 (GUIDING) STRONG *
45 ^m	2 ^h 24 ^m W	"	"	"	"	5-5-5	"	40/17 (GUIDING) VERY, VERY STRONG
12 ^m	0 ^h 46 ^m W	+24° 04'	3"	5.01	B8p	5-5-5	r c *	200/80 (GUIDING) FINE
28 ^m	1 ^h 03 ^m W	+23° 57'	3"	3.54	B8 ^{II}	5-5-5	r G *	40/15 (GUIDING) * FINE
1 ^m	1 ^h 35 ^m W	+47° 56'	"	5.46	B8	5-5-5	r G *	200/80 (GUIDING) FINE *
20 ^m	2 ^h 31 ^m W	-05° 58'	"	8.35	B8	5-5-	r G *	400/150 BROKEN FINE
55 ^m	2 ^h 16 ^m E	+50° 48'	5"	6.0	K1	5-5-5	Bake *	200/150 FINE
07 ^m	2 ^h 38 ^m W	+27° 02'	"	8.7	K2 ^{III}	5-5-5	Sc *	400/300 V.S.L. WK
							* STRONG AT ENDS OF SLIT	

Date 15/16 Feb/69 ^{SAT.} _{SVM.} Observer Ir Cke Tn/Ri _{Tn} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
31846	ϕ Pers	1 ^h 37 ^m .4	+50° 11'	G12	IIaO	9L	18°F	18:26 ⁽⁹⁾	18:30	A	2 ^h 15 ^m
31847	α Ari	2 ^h 1 ^m .5	+22° 59'	G12	IIaO	9L	"	19:00 ⁽⁹⁾	19:02	A	2 ^h 45 ^m
31848	δ Tau	4 ^h 14 ^m .1	+15° 23'	"	"	"	"	19:21 ⁽¹⁰⁾	19:35	A	0 ^h 04 ^m
31849	δ Tau	4 ^h 17.2	17° 18'	"	"	9L	"	20:26 ^(22.5)	20:48.5	A	1 ^h 55 ^m
31850	e Tau	4 ^h 22.8	18° 58'	"	"	9L	"	21:11 ^(15.5)	21:23	A	2 ^h 22 ^m
31851	HD 92968	8 38 35	-7° 38'	"	"	9L	"	21:39 ⁽³⁵⁾	22:14	A	0 52 ^m
31852	HD 71866	8 ^h 24 ^m .6	+47° 33'	"	"	"	"	22:36 ⁽³²⁾	23 28	A	0 ^h 26 ^m
31853		try HD 90240			hd to faint				too far south		
31853	HD 112299	12 ^h 50 ^m .6	+26° 16'	"	"	13	18°F	00:41 ^(15.5)	03:17	A	0 ^h 0 ^m
31854	HD 122693	13 ^h 58 ^m .3	+25° 03'	"	"	"	16°F	03:24 ⁽¹⁹⁾	05:14	C	0 ^h 4 ^m
31855	HD 128661	14 ^h 33 ^m .1	+36° 22'	"	"	9	17°F	05:19 ⁽⁵⁸⁾	06:17	A	1 ^h 09 ^m

Date 16/17 Feb. 69 / SUN-MON. Observer Cs. Bü/hp Ri. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Ang End
31856	HD 21699	03 ^h 25. ^m 1	+47° 41'	G-12	II _a O	9	24°F	18:37	18:46	A	0 ^h 46 ^m
31857	27 Tau	03 ^h 43. ^m 2	+23° 45'	"	"	"	"	19:00	19:02	C	0 ^h 45 ^m
31858	28 Tau	03 ^h 43. ^m 2	+23° 50'	"	"	"	"	19:09	19:15	H	0 ^h 58 ^m
31859	27 Tau	03 ^h 43. ^m 2	+23° 45'	"	"	"	"	19:24	19:27	C	1 ^h 10 ^m
31860	HD 21699	03 ^h 25. ^m 1	+47° 41'	"	"	"	"	19:51	20:05	A	2 ^h 05 ^m
31861	δ Aps	01 ^h 37. ^m 4	+50° 11'	"	"	"	23°F	20:22	20:26	A	4 ^h 15 ^m
31862	λ Ori B	05 ^h 30. ^m 5	-5° 59'	"	"	"	"	20:48	22:47	C	2 ^h 40 ^m
31863	η Aur	4: 59.5	41° 06'	"	"	"	"	22:57	22:59	H	3 ^h 26 ^m
31864	β Gem	07 ^h 39. ^m 2	+28° 16'	"	"	9 ^{long}	"	23:33	23:35	C	1 ^h 23 ^m
31865	ε Gem	06 ^h 37. ^m 8	+25° 14'	"	"	9 ^{long}	21°F	23:40	23:46	H	2 ^h 40 ^m
31866	HD 86801	09 ^h 55. ^m 8	+29° 02'	"	"	135	20°F	0:17	05:00	C	4 ^h 33 ^m
31867	HD 128661	14 33.1	+36° 22'	"	"	9	20°F	05:14	05:49	A	0 ^h 45 ^m
31868	HD 139892	15 35.6	+36 58	"	"	"	20°F	05:59	06:09	C	0 ^h 03 ^m

Dome Temp. 26°F

Transparency Conditions clear, clouded in S. (22:15)

Focus

Dome Temp. 20°F

Lp:- Mr is with flu so arching will be in. Please take as much of it as you can by yourself, but have him check you on closing up especially.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
46	0 ^h 46 ^m W	+47° 57'	2.5"	5.36	B8 III	5-5-5	rG* 2 pieces 1 big; 1 small.	200/80 BROKEN FINE	
02	0 ^h 45 ^m W	+24° 00'		3.54	B8 III	5-10	rG* 3 pieces 1 big; 2 small	40/15 BROKEN (GUIDING) FINE	
15	0 ^h 58 ^m W	+24° 05'		5.01	B8 _p	5-5-5	rG*	200/80 FINE	
21	1 ^h 10 ^m W	+24° 00'	~3"	3.54	B8 III	5-10	rG* 2 pieces 1 big; 1 small	40/15 (GUIDING) BROKEN FINE	
05	2 ^h 05 ^m W	+47° 56'	~3.5"	5.36	B8 III	5-5-5	rG*	200/80 FINE	
26	4 ^h 15 ^m W	+50° 34'	~3"	3.95	B0 _p	5-10	HK*	40/18 FINE	
47	2 ^h 40 ^m W	-5° 53'	~3"	~7.3	B9	5-5-5	rG* stopped because of clouds	400/140 FINE	
	3 ^h 26 ^m W	+41° 15'	~3"	2.99	B3 V	5-10	rG*	40/15 (GUIDING) FINE	
15	1 ^h 23 ^m W	+28° 07'	~3"	1.2	K0 III	5-5-5	BK*	20/23 (GUIDING) STRONG	
46	2 ^h 40 ^m W	+25° 12'	~3.5"	3.1	G8 Ib	5-5-5	BK*	40/31 (GUIDING) SL. WEAK	
0	4 ^h 33 W	+28° 46'	~2"	9.48	G0 V	5-5-5	SSV	800/334 field clear	FINE
49	0 ^h 45 W	+36° 05'	~2"	7.0	A0	5-5-5	Col. Bin.	400/150 FINE	
09	0 ^h 03 W	+36° 45'	2"	5.1	B8 _n	5-5-5	Sptic. Bin.	200/80 FINE	
							NO MORE UNEXPOSED PLATES		

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
						4/4	no filter	focus set from 50R → 100R (C.W. as viewed from above)	
						4/4			
							focus set to 85 R		
							final focus setting by turning knob c.c.w. as viewed from above, i.e. with red numbers <u>decreasing</u> .		

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Date FEB. 17/18, 1969 - Mon./Tues. Observer Hk-C5/Ri 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.
31869	HD 42397	6 ^h 05. ^m 4	+25° 02'	G-12	IIa-O	13 SHORT	28°F	23:41 ⁽¹¹⁷⁾	01:38	A
31870	HD 132737	14 ^h 55. ^m 6	+27° 33"	"	"	"	"	01:54 ¹⁷¹	04:45	A
31871	HD 128661	14 ^h 33. ^m 1	+36° 22'	"	"	9	"	04:54 ⁴²	05:38	A
31872	HD 36202	15 ^h 14. ^m 2	+02° 09'	"	"	"	"	05:47 ⁽²⁵⁾	06:12	A
31872 F	focus test		in in/out out "	"	"	9	24°F			A
31872 T1	calibration step wedge		in w.p. 2 / 68°F / 18 Feb		"					
31872 T2	"	"	"		"					
31872 T3	"	"	"		"					
31872 T4	"	"	"		"					

Dome Temp. 32°F Transparency Conditions $23:00$ - cleared, good

Focus

Dome Temp. 24°F

Time	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
38	A 5 ^h 04 ^m W	+25° 02'	2"	8.68	G0 IV	5-5-5	SEC. STD VELOC. ^{plate No. 68} = 800/300	FINE
5	A 0 ^h 38 ^m E	+27° 17'	~2"	9.03	K00	5-5-5	" " " ^{plate No. 69} field trans 800/520	FINE/ SL. STRONG
38	0 ^h 38 ^m W	+36° 05'	~3	7.0	A0	5-5-5	Ed. Bin 400/150	(GUIDING) SL. WEAK
12	0 ^h 30 ^m W	+01° 55'	~4	5.6	G0	5-5-5	Std. Vel. 200/100	FINE
						3-3		FINE
	for plates	31839 - 31842, 31844-5, 31869-31872						
	"	31838, 31858, 31860 - 31862						
	"	31846 - 31855						
	"	31843, 31856-7, 31859						

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Date Tues Feb 18-19/69 Observer Hol Sc. SV Julian Day 168

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
31873	SGmc	8 ^h 38.2	+19° 24'	G-12	IIaO	135	30°	23 30 ⁽¹⁷⁾	24 26 ^m	A
31874	HD128661	14 ^h 32.1	+36° 22'	"	"	9L		03:06 ⁽¹⁶⁾	5:55	A
74F	Focus plate					9				A
31874 T1	calibration step wedge for plates 31873, 31874. / 19 Feb / 69 / mwp-2 / 08° E									

Dome Temp. 28

Transparency Conditions *lazy*

Focus

Dome Temp.

Time T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6 ^m F	3 ^h 23 ^m W	+19° 09'	3	8.45	A0	5,5,5	Hd Eclipsing binary.	800/200 SL. WEAK
8 A	0:59 W	+36° 05'	5"	7.0	A0	5,5,5	Hd " "	1100/150 SL. WEAK
F						3-3		FINE

Date 21-22 Feb. 1969

Observer Se-L / Cs - B^u Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
31885	α Ari.	2 ^h 1.5	+22 59	G-12	IIa-O	9L		18:35 ²⁶	18:55	A
31886	α Ari	"	"	G-24	103a-E	9L		19:00 ³³	19:35	C
31887	ζ Tau.	5 ^h 31.7	+21 05	G-12	IIa-O	9L		20:08	20:13	C
"	"	"	"	"	"	"		20:15	20:23	"
21888	ζ Ori	5 ^h 35.7	-2 0	"	"	"		20:35	20:37	B
								20:38	20:40	"
31889	β CMa	6 ^h 18.3	-17 54	"	"	"		20:55	20:59	C
								21:00	21:04	"
31890	δ CMa	7 ^h 4.3	-26 14	"	"	"		21:17	21:31	A
								21:35	21:46	"
31891	ϵ Gem	6 ^h 37.8	+25 14	"	"	"		21:58	22:11	B
								22:12	22:30	"
31892	δ Cen	8 ^h 38.2	+19 24	G-12	IIa-O	135L		22:46 ²⁶	01:12	A
31893	{ HD 101501	11 ^h 35 ^m .8	+34° 46'	"	"	9cm	{	01:31	02:19	C
							{	02:25	02:35	
31894	HD 123423	14 ^h 2.5	-10° 41'	"	"	136L				

Dome Temp. +34°F

Focus

Dome Temp. 31°F

Transparency Conditions hazy patches

clouds at ca. 01:15

cleared again

more clouds at 04:50. Completely clouded
in at 05:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+22° 21'	3"	3.2	K2-III	15s	no filter tilt grating for U.V.	10/60
3:20 W	"	"	"	"	5s	no filter " " Red	10/60
	+21° 08'	3"	3.0	B2V	none	L.H. side prism 2 Calotte	40/17
0.36 W						R.H. side post 1	40/17
	-1° 57'	"	2.1	O9.5	none	L.H. side 2	40/17
0.51 W						R.H. 1	40/17
		"	1.7	B1II	none	L.H. 2	40/17
0.33 W						R.H. 1	40/17
		10"	2.5	F8Ia	none	L.H. 2	40/20
0.29 W						R.H. 1	40/20
			4.0	G8Ib	none	L.H. 2	40/25
						R.H. 1	40/25
2 ^h 21 ^m W	+19° 11'	3"	8.5	A0	5 ^s -5-5	Ecl. Binary Hd	800/200 FINE
0 ^h 46 ^m W	+34° 25'	3.5"	5.3	G8V	5-5-5	BK*	200/150 FINE (SC-GU 1706)
			8.5	F5		Ecl. Binary Hd	800/267

Date 21-22 Feb. 1969 contd. Observer Co - Bu 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.
31894	HD 128661	14 ^h 33 ^m .1	+36° 22'	G-12	II-a0	13	30°F	03:13 ⁽⁴⁶⁾	03:59	B
31895	υ Vir	14 ^h 14 ^m .4	-1° 42'	"	"	9	30°F	04:30 ⁽²³⁾	06:52 clouds	A
31896	HD 130705	14^h 44^m.6	+10° 28'	"	"	9				C
31895 F	Focus plate		in-in/out-out			9	30°F			A
31895 r1	calibration step wedge				II a0					
r2					103 & E					

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 45 ^m E	+36° 06'	~4"	7.0	A0	5-5-5	Hd* (Ed. Bin?)	600/150 (56.6 guiding) FINE
	-02° 04'	~3.5"	6.6	68 III	5-6	SC* Should have had 100 cents. Tried to stop because of clouds.	200/57 WEAK
			7.6	K0		SC* ↑	400/300
						Possible light leak. (plate OK)	
					3-3		OK: v. sc. CENTRE TO R ~4,000
						for plates 31885, 31887 - 31891	
						mwp-2 / 68" = 1/24 Feb / 69	
						for plate # 31886	HIGH FOG LEVEL

Fri - Sat 28 Feb - March

Date 28-29 Feb. 1969 Observer Hd Mar Th / Jt Th AV 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.
31896	Q Per	1^h 31^m 9	+50° 11'	G12	IIaO	9L	32°	18 ^h 47 ^m ⁽¹⁴⁾	19 ^h 01 ^m	A
31897	HD 42397	6 ^h 05.4	+25° 02'	G12	IIaO	13S		19 ^h 35 ^m ⁽¹⁴⁾	22 03	B
31898	HD 65939	7 ^h 56.1	+26° 55'	G12	IIaO	13S	30°	23 ^h 12 ^m ⁽¹⁴⁾	00 ^h 31 ^m	A
31896	2 PERS HD 11291 ?	1:45.8	50° 18'							
31898 71	calibration strip wedge for plates 31896-8 / 28 Feb/69									

Dome Temp. 32°F

Transparency Conditions clear.

40.

Focus

Dome Temp.

This may be wrong star → SEE BELOW

g Time S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	P	N 3 ^h 25 ^m	Solar	2	7.95	B0pe	5-10	HK* - seems too long a time. Exp meter very jerky! 40/20	FINE BROKEN
03	B	W 2 07	+25° 01'	3	8.66	G0 II	5-5-5	Hd SSV. 1/4" chip off end. 8x100/377	FINE
51	A	N 3 ^h 06 ^m	+26° 43'	3	8.87	B8 III	5-5-5	Hd SSV. moonlight about 1/3 of starlight 800/288	FINE
Closed 02 ^h 30 ^m clouds									
2 P.H LOADED IN Ni Piers									
					5.56	B9			

Dome Temp. 32°FTransparency Conditions Haze

42

Focus

Dome Temp.

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							<i>put on in middle</i>	
04 A	0° 47' W	+01° 59'	7"	4.16	F8V	5-10	Bright star. Vel. 4x100/210	FINE
25	01° 25' E	+19° 22'	3"	1.29	K2 III	5-5-5	" " "	STRONG
48 A	0° 26' E	+36° 05'	5"	7.0	A0	5-10	Hd * Clouds Closed up. 800/56	VERY WEAK

43

Sun. Mon

Date 2-3 March 1969 Sun/Mon Observer Bu-Th/Ci-Th Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
31902	ϕ Per	01 ^h 37.4 ^m	+50° 11'	G-12	IIaO	9		18:55 ³	18:58	A	03 43
31903	ϕ Per	"	"	"	"	"	"	19:05 ⁵	19:10	B	03 54
31904	HD 36919	05 ^h 29.9 ^m	-06° 04'	"	"	"	52°F	19:25 ³⁴	19:59	C	00 52
31905	27 Tau	03 43.2	+23° 45'	"	"	"		20:10 ⁷	20:17	A	02 56
31906	28 Tau	03 43.2	+23° 50'	"	"	"	32°F	20:23 ²⁷	20:50	B	03 29
31907	ι Ori B	05 30.5	-5° 59'	"	"	"		21:09 ^(2:32)	22:36	C	01 16
31908	γ Aur	04 59.5	+41° 06'	"	"	"		22:58 ⁵	23:02	A	04 25
31909	β Tau	05 20.0	+28° 21'	"	"	"		23:13 ²	23:15	B	04 17
31910	γ Aur	06 17.2	+49° 20'	"	"	9L E110 of Loni6		23:29 ⁽⁷⁾	00:42	C	07 46
31911	ν Vir.	14 14.4	-1° 48'	"	"	9L	27°F	01:12 ⁽³⁶⁾	01:48	A	02 04
31912	HD 128661	14 33.1	+36° 22'	"	"	13	28°F	02:08 ⁽⁵³⁾	03:01	B	01 10
31913	HD 148513	16 ^h 23.5 ^m	+00° 53'	"	"	9L		03:20 ⁽⁴³⁾	06:12	C	00 12
31913 F1	Focus Test	out-out; in-in			no plate		5/5	G12		A	
31913 71	calibration strip, wedge for plates				31899 - 31906, 31909 - 31911						
31913 72	"				31907, 31908, 31912, 31913.						

3 Mar 69

Dome Temp. 33°F

Transparency Conditions Fairly clear w. occasional cloud.

Focus

Dome Temp. 27°F

ing Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
58 A	03 43 W	+50° 34'	5"	3.95	B0 _{pe}	5-10	working immediately probably too strong because exp. meter not	40/19 STRONG
10 B	03 54 W	+50° 34'	"	"	"	5-10	HK*	40/17 VERY STRONG
59 C	00 52 W	-06° 01'	"	8.25	B8 III	5-10	vG* stopped because would take much too long	8x/100/19 VERY WEAK
17 F	02 56 W	+23° 58'	"	3.54	B8 III	5-10	vG*	40/15 VERY STRONG
150	03 29 W	+24° 04'	"	5.01	B8 _p	5-5-5	vG*	200/80 VERY STRONG
30 C	03 27 W	-05° 55'	"	7.3	B9	5-5-5	vG* tried to stop. Telescope close to platform. should have had 150 etc.	40/108 BROKEN ETC. VERY STRONG
3 F	04 25 W	+41° 13'	4"	2.99	B3 V	5-5-5	vG*	40/15 STRONG
5 B	04 17 W	+28° 36'	"	1.52	B7 III	5-10	vG*	20/8 VERY STRONG
2	04 46 W	+49° 18'	"	5.1	K5 Lab	5-5-5	Bk*	200/225 SL. WEAK
48	02 04 E	-02° 05'	"	6.6	G8 III	5-5-5	STD CN * FIELD DRAWN	200/125 SL. WEAK
01 F	01 10 E	+36° 04'	3"	7.0	A0	5-5-5	GCL. BIN. Field drawn	4x/100/150 (GUIDING) FINE
12 C	00 12 W	+0° 46'	5"-6"	7.3	K4 III _p	5-5-5	STD CN *	4x/100/211 FINE
							Not - some plates were too weak for holder on returned	VERY SL. CENTRE TO VIOLET

Mon - Tues

Date 3-4 Mar 1969

Observer T. Jr./Tr. ~~Tr.~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
31914	φ Per	01 ^h 37.9	+50° 11'	G12	II 00	9X ¹⁰⁰	30	18:42 ⁴	18:52 ⁴	A	03:39
31915	φ Per	"	"	"	"	9L	"	19:00 ⁷	19:07 ⁷	B	03:55
31916	HD 8441	01 ^h 18.5	+42° 37'	"	"	9L	"	19:24 ⁴²	20:06 ⁴²	C	05:15
31917	HD 9996	01 ^h 32 ^m 30 ^s	+44° 54'	"	"	"	28°	20:15 ³³	20:48 ³³	A	05:40
31918	HD 25823	04 ^h 00 ^m 20 ^s	+27° 20'	"	"	"	"	21:58 ¹³	22:11 ¹³	C	04:37
31919	HD 71866	08 ^h 24.6	+40° 23'	"	"	"	"	22:32 ³⁷	23:09 ³⁷	C	04:10
31920	HD 92968	08 ^h 38 ^m 35 ^s	-7° 38'	"	"	"	27	23:25 ²⁵	23:50 ²⁵	A	04:49
31921	HD 17000	18 ^h 22 ^m 12 ^s	+71° 17'	"	"	"	26°	0 ^h 23 ^m 45 ^s	0 ^h 35 ^m 45 ^s	B	04:10
31923 ↑	HD 173650	18 41 ^m 21 ^s	+21° 53'	"	"	"	22°	02 ^h 40 ^m 75 ^s	03 ^h 55 ^m 75 ^s	A	04:10
31922 ↓	HD 128661	14 33.1	+36° 22'	"	"	"	24°	01 ^h 12 ^m 50 ^s	02 ^h 08 ^m 18 ^s	C	04:50
31924	HD 183066	19 22 33	+36° 7'	"	"	"	22°	41 20 ¹⁸	04 ^h 50 ^m 00 ^s	B	04:50
31925	HD 171586	18 ^h 30.6	+4° 51'	"	"	"	22°	5 ^h 03 ^m 51 ^s	5 ^h 51 ^m 51 ^s	C	04:50
31926	HD 177517	18 ^h 59 ^m 55 ^s	-15° 49'	"	"	"	21°	6 ^h 07 ^m 10 ^s	6 ^h 11 ^m 10 ^s	A	04:50
MAR 4/69 EX. MTR CHECKED - DRYER CHANGED - HV											

Dome Temp. 27°F

Transparency Conditions Excellent

Focus

Dome Temp. 18°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03:39 W	+50° 34'	3"	3.95	80pe	5-10	* BEGINNING TO CUT OFF FEJ SLIT TOO LONG	* SL. WEAK
03:55 W	"	"	"	"	15		FINE
05:15 W	+43° 01'	4"	6.19	AOp	5-5-5	plates out too long	FINE
05:42 W	+45° 14'	4-6"	6.40	Ap	5-5-5	long	FINE
04:37 W	+29° 32'	6"	5.05	Asi	5-5-5	"	FINE
01 ^h 10 ^m W	+40° 21'	4"	6.19	AOp	5-5-5	Fr *	FINE
01 ^h 97 ^m W	-07° 52'	4"	5.68	Ap	5-5-5	Fr *	FINE
7 ^h 10 ^m E	+71° 19'	4"	4.13	Ausi	5-5-5	Fr *	FINE
01 ^h 17 ^m E	+21° 58'	6"-8"	6.52	Ap	5-5-5	Fr * broken exposure meter wouldn't keep contact!	FINE
01 ^h 56 ^m E	+36° 03'	3"	7.0	AO	5-5-5	Hd *	FINE
01 ^h 15 ^m E	+36° 15'	3' 4"	5.04	Asi	5-5-5	Ir * balance off probably under exposure	FINE
3 ^h 08 ^m E	+40° 35'	4"	6.52	AO	5-5-5	R *	FINE
7 ^h 15 ^m E	+16° 17'	3"	5.98	Asi	5-10	Ir *	VERY WEAK

ANSON
I can't find plates

3 unexposed plates left !!
Can somebody find
all exposed the exposure meter contact?

A1

NOTE - RE REPAIRED GLASS CUTTER; PLATE LENGTH & WIDTH SHOULD BE OK, NOW

Date ^{Tues - Wed} 4-5 March 1969Observer Sc Th / Sw Th Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
31927	γ Per	3 ^h 47.8	+31° 55'	G-12	II _a -O	9-L	23°F	18 ^h :55' ¹¹	19:06	A	01 ^h 40'
								19 ^h :07' ¹¹	19:18	"	1 ^h 50'
31928	γ^2 Ori	5 ^h 58.0	+20° 08'	"	"	9L		19 ^h :37' ¹⁸	19:55	B	0 ^h 26'
								19 ^h :55' ³⁴	20:29	"	0 ^h 00'
31929	AX Mon	6 ^h 25.2	+5° 56.1	"	"	13L		20 ^h :56' ⁷³	22:09	C	2 ^h 18'
31930	S Cnc	8^h 38.2	+19° 24'	"	"	13c		22:25	23:10	A	1^h 01'
31931 30	15 Com	12 22.0	+28° 49'	G-12	II _a -O	9L		0:02 ³⁰	0:32	B	1 ^h 19'
31932 31	HD 128661	14 ^h 33.1	+36° 32'	"	"	9L		0:47 ⁴³	1:50	C	2 ^h 11'
31933 32	HD 94441 ^{GLD}	09 40.2	24.14	"	"	9L		2:13	2:16	"	3 ^h 06'
31934 33	HD 124817 ^{DBO}	14 11.1	+19° 42'	"	"	"	16	2:59 ^(1.5)	3:00.5	B	1 ^h 34'
31935 34	"	"	"	"	"	"	16	3:06	3:07	C	0 ^h 32'
31936 35	"	"	"	"	"	"	16	3:14	3:15	C	0 ^h 25'
31937 36	HD 146051 ¹³	16 09.1	-3° 26'	"	"	"	16	3:35	3:41	A	1 ^h 56'
31938 37	G9 Vir	13 22.1	-15° 21'	"	"	"	"	4:20 ¹⁸	5:16	"	2 ^h 25'
3771	calibration step wedge on plate									?	

31927 - 37 / 5 Mar / 69

Dome Temp. 23°E 16°F Transparency Conditions *good*

Focus

Dome Temp.

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06	A	$01^{\text{h}} 46^{\text{m}} \text{W} + 31^{\circ} 50'$		3.0	R1B	none	L.H. side ^{position} 2 - calcite	40/15 FINE
8		$1^{\text{h}} 59^{\text{m}} \text{W}$					R.H. side ^{position} 1	40/20
55	F	$1^{\text{h}} 0^{\text{m}} 26^{\text{W}} + 20^{\circ} 10'$		4.7	B1e	none	L.H. side " "	40/15 FINE
29		$01^{\text{h}} 00^{\text{m}} \text{W}$					" " " "	40/20
59	C	$2^{\text{h}} 13^{\text{m}} \text{W} + 05^{\circ} 57'$	3"	7.0	Beg	5-5-5		400/250 FINE
10	F	$1^{\text{h}} 01^{\text{m}} \text{W} + 19^{\circ} 09'$	2"	8.5	A0	5-5	cut off after 17 counts - too faint apparently the star is near min. of 10 th mag.	800/17 BLANK
32	S	$1^{\text{h}} 19^{\text{m}} \text{E} + 28^{\circ} 27'$	3"	5.6	K1E	5,5,5	Sc ~1" MISSING FROM BLUE END.	40/30 FINE
50	C	$2^{\text{h}} : 11 \text{E} + 36^{\circ} 04'$	"	7.0	A0	5,5,5	HD*	400/120 V.SL. WEAK
16		$3^{\text{h}} : 06 \text{W} 23 50$	"	3.76	G0II	5,10	Shaded V. *	40/20 V.SL. WEAK
05	B	$0^{\text{h}} : 34 \text{E} 19 22$		1.29	K2II	5,	" forgot but comparison on ^{very} 2 nd ^{guiding} by using	20/15 WEAK COMP. SL. STRONG
07		$0^{\text{h}} : 32 \text{E}$	"	"	"	15	" was broken (when?) ~1/2" MISSING FROM BLUE END	20/16 FINE
15	C	$0^{\text{h}} : 25 \text{E}$	"	"	"	15	"	20/15 FINE
41	A	$1^{\text{h}} : 56 \text{E} - 32 6$	4"	4.30	M1II	5,10	"	40/30 V.SL. WEAK
16		$2^{\text{h}} : 25 \text{W} - 15 44$	"	5.9	K1III	5,5,5	Sc *	200/114 WEAK OR

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Wed-Thurs
 Date 5-6 Mar 1969 Observer Ta / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
31938	♄ Pers	01 ^h 37 ^m 4	+50° 11'	G12	D ₂₀ O	9L	22	19 ^h 28 ^m	19 ^h 32 ^m	A	7
31939	HD 48329			G12	D ₂₀ O	9L	20	21 29	21 31	B	1 ^h 27 ^m
31940	HD 34255			G12	D ₂₀ O	9L	19	21 ^h 45 ^m	22 03	C	5 ^h 25 ^m
										C	
31941	HD 84941	09 40^m 2	+24° 14'	"	"	"	"	23^h 16^m	23^h 23^m	C	0^h 16^m
31940 c.	calibration for plates 31938 - 31940 (.7 mm)										

Dome Temp. 19°F

Transparency Conditions Clear-Clouds Clear-Clouds etc

Focus

Dome Temp.

ng Time S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
32	A	7	+50° 34'	3"	3.95	B0	5-10	Timed ≈ 6 min with cloud.	(GUIDING) WEAK
31	B	1 ^h 27 ^m W		3"			15] Waterloo Stars - roughly timed as Exposure counter doesn't work	WEAK VERY WEAK
03	C	3 ^h 25 ^m W	+62° 39'	3"	.		5-55		
								Why don't people tell me about <u>all</u> maintenance done during the day???	
23	C	0 ^h 16 ^m W	+23° 56'	"	3.76	G0	5-5-5		BLANK
								Knot for arc and cell cappas has been put into proper adjustment. It is <u>now</u> working	

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Fri - Sat

Date 7-8 March 1969 Observer Sc Tu / Lp Tu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31942 ¹	ζ Per.	2 ^h 47.8	+31° 35'	B-12	IIa-D	9L	23°F	18 ^h 54 ^m ^(B)	18 ^h 57 ^m	A	01 ^h 50 ^m
"	"	"	"	"	"	"	"	19 ^h 00 ^m ^(B)	19 ^h 04 ^m	"	01 ^h 57 ^m
31942 ²	"	"	"	"	"	"	"	19 10 ^(B)	19:17	B	02 ^h 14 ^m
31942 ³	"	"	"	"	"	"	"	19:20 ^(B)	19:27	C	2 ^h 19 ^m
31942 ⁴	φ Per.	1 ^h 32 ^m	+50° 11'	"	"	"	"	19:40 ^(B)	19 ^h 47 ^m	A	4 ^h 52 ^m
31942 ⁵	α Cam	4 ^h 44.1	+66° 10'	"	"	"	"	20:03 ^(B)	20:13	B	
								20:14 ^(B)	20:22	"	2 ^h 22 ^m
31942 ⁶	ε Ori	5 ^h 31.1	-1° 16'	"	"	"	"	20:45 ^(B)	20:47	A	1 ^h 58 ^m
"	"	"	"	"	"	"	"	20:48 ^(B)	20:50	"	2 ^h 01 ^m
31942 ⁷	YY Cam	8 ^h 01.4	+2° 13'	G-12	IIa-D	13S	"	21:25 ^(B)	01:08	B	?
31949	69 Vir	13^h 22.1	-15° 29'	"	"	"	"	clouded in 02 h.			

Dome Temp. 25° F

Transparency Conditions Very Good

Focus

Dome Temp. 17° F

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
57' A	01° 50' W	+31° 50'	3"	3.0	BV126	none	pr. 1. L.H. side	40/15 FINE
04'	01° 57' W	"	"	"	"	"	2 R.H. side	40/20
7 B	02° 14' W	"	"	"	"	"	Zwinger used L.H. side = light ordinary image	40/10 FINE
27 C	2° 19' W	"	"	"	"	"	pr. 1 - L.H. side ordinary R.H. extra (each	40/15) FINE
47' A	4° 52' W	+50° 34'	3"	3.95	00p	5-5-5		40/10 (GUIDING) 1/2 U.S. WEAK
13 B		+66° 19'		4.38	09-5 Ia	none	pr. 1 - L.H. side ord. img	40/15 FINE
28	2° 22' W	"					1 - R.H. ext. img.	40/20
47 A	1° 58' W	-01° 13'		1.71	B0 Ia	none	pr. 1	40/15 FINE
50	2° 01' W	"	"	"	"	"	"	40/20
1:08 B	?	+02° 03'	"	8.5	F6	5-5-5	Hd binary (some cloud at 22° 50' interrupted) Finder Field Orion	80/10 WEAK
							Remaining plates in Box #3 possibly fogged / check one please	FOGGED AT 1 END! 1/2" SUITABLE FOR FOCUS PLATES
cont next page							(none of Tom's girls ex. plates affected)	

Dome Temp. 26°F

Focus

Dome Temp. 23°F

Transparency Conditions Hazy; scattered cloud

Clouded over at 21:40

Cleared - then clouds at 21:20'

g Time S.T.	PM	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
58	A	04 ^h 05 ^m W	+50° 34'	~3"	3.95	BQ _p	5-10	HK*	40/17 FINE
0	B	02 ^h 22 ^m W	+24° 06'	"	5.01	B8 _p	5-5-5	rG* Possibly fogged.	200/80 (SL. GUIDING) FINE
28	C	02 ^h 30 ^m W	+24° 00'	"	3.54	B8 _{IV}	5-10	rG*	40/15 FINE
28	A	02 ^h 43 ^m W	-06° 01'	"	8.25	B8 _{IV}	5-10	rG* Capped because of cloud. Completely clouded over at 21:40. Should have had 300 counts.	800/77 WEAK
								Cloud at ca. 22:00	
									at center to violet

Sun-Mon

Date 9-10 Mar 1969

Observer T. C. S. / T. C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
31954 ⁵³	⊙ pr.	01 ^h 37.4	+50° 11'	G12	D _a 0	9	26°	19 ^h 02' ⁽⁵⁾	19 ^h 07'	E
31955 ⁵⁴	YVC mi	8 ^h 01.4 ^m	+2° 13'	G12	II _a 0	135	23°	19 ^h 40' ⁽¹⁶⁾	22 ^h 20'	C
31956 ⁵⁵	HD 128661	14 ^h 33.1 ^m	+36° 04'	"	"	13L		01 ^h 27 ^m ⁽⁴⁵⁾	02 ^h 12 ^m	B
31955 T1	calibration	step index for plate			31941 -	31950			10 May	
31955 T2	"	"	"	"	31951 -	31955			"	

Dome Temp. 28°
 Focus
 Dome Temp.

Transparency Conditions Excellent

CLOUDS

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
07	18' W	+50° 34'	3"	3.95	B0 _p	5-10	Hk* 40/17	FINE
20	08' W	+02° 03'	"	8.5-9.5	FG	5-5-	Hd* Finder Field Drawn 4x100/89	SL-WEAK
							Cut due to clouds - snow	
12	30" E	+36° 05'	4"	7.0	A0	5-5-5	Hd* clouds 01 ^h 30' 4x100/127	(GUIDING) FINE
							CUT SHORT DUE TO SNOW	
							CLOSE UP AT 02:25	

Mon - Tues

Date 11-12 Mar 1969

Observer Th-Cg/Tn-In 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.
31956	S Cnc	8 ^h 39 ^m .2	+19° 24'	G12	Ilao	9.5	21°F	19 ^h 11 ^m ³⁰	22 ^h 41 ^m	A
31957	69 Vir	13 22.1	-15° 27'	"	"	9L	17°F	23 ^h 08 ^m ⁰⁵	0 ^h 13 ^m	C
31958	HD 72968	8 ^h 38 ^m 35 ^s	-70 38'	"	"	9L		0 ^h 27 ^m ³⁰	0 ^h 57 ^m	B
31960	HD 71866	8 ^h 24.6	40° 33'	"	"	9L		01:19 ^{1:22}	2:41 ^m	A
31959	HD 173650	18 ^h 41 ^m 21 ^s	21° 53'	"	"	9L		03:16 ⁷²	04:28 ^m	B
31961	HD 177517	18 ^h 59 ^m 58 ^s	-15° 49'	"	"	"		04:53 ⁶⁹	06:02 ^m	C
31961 71	calibration	stop emulsions for plates 31956 - 31961						" 2 hrs		

Dome Temp. 17°F

Focus

Dome Temp.

Transparency Conditions

Good

(Haze)

satellite (very bright)
spotted
dec north $04^{\circ}45'$

few clouds

1:30

makes focusing
difficult

ng Time S.I.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
41 A	$0^{\text{h}}55^{\text{m}}\text{W}$	$+19^{\circ}09'$	4"	8.45 (10.11)	A0	5-5-5	Hd ⁺ Eclipsing binary	4x100/95	SL. WEAK
13 C	$02^{\text{h}}10^{\text{m}}\text{E}$	$-15^{\circ}44'$	~4"	5.9	K1	5-5-5	5 Sc	2x100/151	V. SL. WEAK
57 B	$03^{\text{h}}15^{\text{m}}\text{W}$	$-07^{\circ}49'$	~4"	8-572	Ap	5-5-5	Ir ^x limited HA west	2x100/47	V. SL. WEAK
41 A	$05^{\text{h}}08^{\text{m}}\text{W}$	$+40^{\circ}20'$	4"	6.79	Ap	5-5-5	Ir ^x	2x100/80	(SL. WEAK) FINE
28 C	$03^{\text{h}}18^{\text{m}}\text{E}$	$+21^{\circ}58'$	4"	6.50	Ap	5-5-5	Ir ^x FIELD DRAWN	200/80	FINE
02 C	$02^{\text{h}}05^{\text{m}}\text{E}$	$-15^{\circ}39'$	4"	5.98	A0 si	5-5-5	Ir ^x last 10 counts were when by sky in considerably	200/80	FINE
							It seems we used the slightly fogged plates without noticing until closing up. - plate have ~1/2" fog at 1 end		

Dome Temp. 13°F

Transparency Conditions ... Some Cloud

Focus

Dome Temp.

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
130 A	02 ^h 37' W	+31° 47'	3"	12.93	B1 Ib	none.	2 images used - end. on L.H. side	40/40 FINE
13 B		"	"	"	"	"	same	40/42 FINE
138 C	03 ^h 03' W	"	"	"	"	"	same	40/40 FINE
142 D	3 ^h 30' W						pr. 1 extr. R.H. and L.H. with	40/20 FINE
145 E	3 ^h 53' W						.. end. only L.H. (snow & clouds)	40/20 FINE
							<u>snow at 20^h 50' closed</u>	
							<p>Note - To Frank Hawker - Take a look at T.V. input to control panel, i.e. loose connection on RA T.V. input.</p>	
							<p>Required 17/3/69</p>	
	136° 05' 2"	7.0	A0 5,	11d*	Finder fld crown	400/150		
							<p><u>Closed again 03^h 25'</u></p>	

PERFECT
 V. SE. C. TO VI,
 WORST IN VIOLET
 OK IN VI. JSCJ
 CTO VI. SN R

65

Date Mar. 15/16, 1969 - Sat./Sun. Observer HK-Tm-Jr / Tm ^(10 Per) John 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
31967	♄ Per	1 ^h 37.4 ^m	+50° 11'	G-12	IIaO	95 slit	33°F	19 ^h 09 ^m ⁽³⁷⁾	19 ^h 41 ^m	C	5:14
31968	"	"	"	"	"	"	"	19 ^h 42 ^m ⁽⁴⁾	19 ^h 46 ^m	A	5:20
31969	HD 25823	4 ^h 0.5	+27° 20'	"	"	9L	"	20 ^h 07 ^m ⁽⁴⁾	20 ^h 18 ^m	B	3:30
31970	HD 71866	8 ^h 29.2 ^m	+40° 19'	"	"	"	32°F	20 ^h 48 ^m ⁽⁴⁴⁾	21 ^h 32 ^m	C	3:17
31971	HD 72768	8 ^h 33.1 ^m	-7° 25'	"	"	"	31°F	21 ^h 51 ^m ⁽³⁰⁾	22 ^h 21 ^m	A	01 ^h :03
31972	"	"	"	"	"	"	"	22 ^h 28 ^m ⁽⁴⁷⁾	23 ^h 15 ^m	B	01 ^h :56
31973	HD 128661	14 33.1	+36° 22'	"	"	"	30°F	23 ^h 25 ^m ⁽⁴¹⁾	00 ^h 46 ^m	C	02 ^h :33
31974	48 Lib	14 ^h 53.5 ^m	-10° 45'	"	"	"	29°F	01 ^h 51 ^m ⁽⁴¹⁾	03 ^h 32 ^m	A	00 ^h :08
31975	HD 139892	15 ^h 35.6	+36° 58'	"	"	"	27°F	04 ^h 01 ^m ⁽⁴⁾	04 ^h 12 ^m	B	00 ^h :10
75 F1	(sent out in case) no filter					C					

Dome Temp. 34° F

Transparency Conditions very hazy
19:30 - clear

Focus

Dome Temp.

ing Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
41 ^m C	5:14 W	+50° 34'	2"	3.95	B ₀ pe	5-5-5	Hk *	40/18 (SL. GUIDING) FINE
46 ^m A	5:20 W	"	"	"	"	5-5-5	"	40/17 FINE
18 ^m B	3:30 W	+27° 34'	3"-2.5 ^B	5.05	A ₅ i	5-5-5	Ir *	200/80 (GUIDING) FINE
2 ^m C	0:19 W	+40° 21'	1.5"	5.79	A ₀ p	5-5-5	Ir *	200/80 (GUIDING) FINE
21 ^m C	01 ^h :03 ^m W	-07° 49'	2"	5.68	A ₀ p	5-5-5	Ir * some cloud (broken 2pc)	200/80 BROKEN FINE
15 ^m B	01 ^h :56 ^m W	"	3"	"	"	5-5-5	Ir * Finder fld drawn	200/80 V. SL. WEAR
7 ^m C	02 ^h :33 ^m E	+36° 05'	3"	7.0	A ₀	5-5-5	Hd *	200/80 (GUIDING) FINE
2 ^m F	00 ^h 08 ^m E	-11° 01'	3"	7.0	K ₄	5-5-5	Sc *	400/300 SL. WEAR
2 ^m B	00 ^h 10 ^m E	+36° 47'	2"	5.1	B ₈ n	5-10	Hd *	40/15 FINE

WAS THIS A TRUE HARTMANN TEST? THE FOCUS
LOOKS TOO GOOD TO BE
TRUE!
(THEN SEE 31983PI)

NOTE: Right-left slow motion on alt is out of order!

67

Sun-Mon

Date Mar 16-17, 1969 Observer Tn, Cs, HK^(@Per) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Ang Eod
31976	⊙ Pers	1 ^h 37.9	-50° 11'	G12	H40	9.5 _{short}	30°F	19 ^h 07 ^m ⁽²⁷⁾	19 ^h 34 ^m	C	05 ^h 11'
31976 T1	calibration strip and/or for plates 31967 - 31976							17 Mar/69			

Dome Temp. 32°FTransparency Conditions cloudy

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Focus

Dome Temp.

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
34 C	05" 11' W	+50° 34'	2-3"	3.95	POpc	5-5-5	HK* Complete cloud by 20" * Frank - slow motion from right → left doesn't work. Repaired 17/3/69 Join	FINE

10 '20'
69

Date Mon Mar 17-18 /69 Observer — / T. L. H. (C Pen) 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.
✓ 31977	HD. 92620	10 366	32 13	G 12	II 90	set 9L		02 11 ¹⁰²	04 53	A
31978	φ Pers	01 ⁿ 37.9	+50° 11'	"	"	9SHORT	40°F	05 ⁿ 18' ⁽³⁷⁾	05:55	B
31978 T1	calibration step wedge for plates				31977,	31978.		15 Mar /69.		

Dome Tel
Focus
Dome Tel

Hour Ang
End
5 32
8 21

Date Tues Wed 7 Nov 18/19 56 Observer Sc Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	How Angl End
31979	HD 24898 S Per A	34 47.8	+31 35	G12	IIaD	7	44°F	19:14 ²²	19:36	A	3" 11 w
31980	"	"	"	"	"	"		19:43 ³¹	20:14	B	3" 49 w
31981	η Leo HD 87737	10 01.9	+17 15	"	"	9		20:27 ²³	20:50	C	1" 42 E
31982	ρ Leo HD 91316	10 27.5	+09 47	"	"	"		20:58 ³²	21:32	A	3" 34 E
31983	HD 89758	10 16.4	+42 00	"	"	9		21:48 ¹⁴	22:02	A	0" 50 E
31984	HD 91948	10 39.9	+60 38	"	"	135		23:18		B	
31983 F ₁	focus test			G12			37°F			C	
31983 F ₂	focus test		1.9 hrs (0.9 hr)	G12		9	38°F			C	
31983 F ₃	"									C	
31983 T ₁	calibration for	31979 - 31983			19 hrs						

Dome Temp. 42°F

Transparency Conditions *length over a fog*

Focus

Dome Temp. 37°F

g Time S.T.	P.B	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06	A	3 ^h 11 W	31° 50'	6"	2.93	B12b	7 begin	double image L.H. = ord. ray	40/40
14	B	3 ^h 49 W		6"	"	"	7 end	position 1 - L.H. side = ord ray. - no extra.	40/25 1/2 VERY WEAK
17	C	1 ^h 47 E	16° 57'	6"	3.58	A01b		both images - L.H. = ord.	40/40
21	A	1 ^h 34 E	09° 30'		3.85	B12b		" "	40/40
02	A	04 50 E	41 40		4.5	M0III	5-5-5	clouds	40/34 SL WEAK
	B	160 00			7.37	F8	5-	Spect. Bin.	40/
	C						5/5	no filter closed up at 12:30	SL C TO R.
	C						5/5-	down 47° = focus: 85 R (unchanged)	SL C. TO R.
	C						5/5-	focus: 50 R (from 85 R)	FINE AT 4700

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WED. - THURS.

Date MAR. 19/20/69

Waterloo { MAUSSER
EBY
(CS) of Per
Observer Hr - Ri Sv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Ang End
31984	ϕ Per	01 37.4	+50 11	G12	IIaO	9	41°	19 16 ⁽¹²⁾	19 28	A	5 ^h 17 ^m
31985	HD 75732	08 46 ^m 39 ^s	+28 43	"	"	"	"	20 24 ⁽¹³⁾	23 14	A	01 55W
31786	" 73262	¹⁹⁷⁰ 08 36 35	¹⁹⁷⁰ +05 48	"	"	"	"	23 26 ⁽²¹⁾	23:47	B	24 43 4
31987	" 91948	10 ^h 31.9	60 38	"	"	13	"	00 13 ⁽⁴²⁾	00 55	C	14 50 4
31987F	focus test		out of focus			"	37			A	
31987 T1	calibration	step	reference for plates	31984 - 31987.				20 Mar/69.			
	Mar 21	R.C.	opened up then closed up again					at 00.30			

Dome Temp. $+43^{\circ}$

Transparency Conditions *FAIR - HAZE - LOS*

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Focus

Dome Temp. 35

log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
29	A	5 ^h 17 ^m W	+50 33	5	3.95	Bope	5-5-5	Bal BW Cs Guiding (WITH A LITTLE HELP FROM YOUR FRIENDS)	40/17	SL. WEAK (GHT STREAK)	
47	A	0155W	+28 27	2	^{vis} 5.94	dKo	5-5-5	EBY PROG.	200/141	SL. WEAK	
47	B	2443W	+05 52	3	^{vis} 4.14	AoV	5-5-5	MAUSSER "	40/15	SL. WEAK	
55	C	1450W	60 20	~3	7.37	F8	5-10	Spectroscopic binary	^{2 pins} fossed over	400/90	BROKEN WEAK
							5-5	no filter			SL. C. TO R.

H.V. overload light was on

SAT-SUN

Date MAR 22/23 1969

Observer B. Ri - Ans Ri 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.
31988	ϕ Per	01 37.4	+50 11	G12	Ilad	9	37	19:16 ⁴	19:20	A
31989	HD 36919	05 29.9	-06° 04	"	"	"	"	19:35 ⁹⁸	21:13	B
31990	β Tau	05 20.0	+28 31	"	"	"	"	21:20 ¹	21:21	C
31991	γ Aur	04 59.5	+41° 06'	"	"	"	"	21:28 ²	21:30	A
31992	46 Leo	10 26.9	+14 18	"	"	"	"	21:45 ³⁸	22:23	B
31993	HD 92620	10 36.6	+32 13	"	"	"	"	22:31 ⁵⁸	23:29	C
31994	HD 132737	14 55.6	+27 33	"	"	13	"	23:43 ¹⁹⁰	02:33	A
31995	HD 149803	16 32.0	+29 56	"	"	"	"	02:50 ¹⁶⁴	05:40	B
31995F	focus test		out out / in in				32			C

Dome Temp. 38

Transparency Conditions

Focus

Dome Temp. 32

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	A	5:20W	+50 34	3"	3.95	B0 _{pe}	5-5-5	HK ⁺	40/17 FINE
13	B	3 ^h 23W	-06 60	4 ^v	8.25	B8 _{IV}	5-10	rG ⁺ Broken	800/150 BROKEN WEAK
21	C	3 ^h 40W	+22 36		1.52	B7 _{III}	5-5-5	rG ⁺	20/8 EXP. OK (GUIDING)
30	A	4 ^h 09W	+41 15	4-5"	2.99	B3 _V	5-10	rG ⁺	40/15 FINE
13	B	0 ^h 24 ^m E	+14 18	4 ^m	~7.0	gM2	5-5-5	rG ⁺	400/300 SL. WEAK
29	C	0 ^h 33 ^m W	+31 54		~7.7	gM5	5-5-5	rG ⁺	400/300 SL. WEAK
33	A	0 ^h 40E	+27 18	~2	9.03	K0 _{III}	5-5-5	Hd Sec. 1 st Vel. field check	800/600 SL. WEAK
40	B	0 ^h 50W	+29 50		8.90	F7 _V	5-5-5	Hd Sec. 2 nd Vel. field drawn	800/300 SL. WEAK
							5-5	no filter	SL. C. TO VE. EN. RED.
								WHAT IS THE BLANK PLATE??	
								one loaded P.H. in N.P.	
								{ A great deal of backlash in the dec. slow motion - slow	
								{ note (and 10-15 dec to produce any movement)	

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Date MAR 23/24 1969 Sun/Mon Observer G Ri / E_{Ri} 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.	
31996	75 Leo HD 98118	11 12.1	+02 34	G12	Dao	9	41	22:27 ⁷³	23:40	C	
31997	HD 123657	14 3.9	44 20	"	"	"	41	23:45 ⁴⁷	00 32	A	
31998	HD 131861	14 50.9	45 43	"	"	13	"	00:44 ¹⁴	02 38	B	
31998 F 1	focus test		widest / in air	G12	Dao	13	39			C	
31998 T1	calibration step wedge for plates 31988 - 31998							24 mm/69			

Dome Temp. 4.5Transparency Conditions cloudy then hazy clear-fozy

Focus

Dome Temp.

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
40	0 ^h 14 ^m W	02 13	~3" _{prev}	6.70	M0 III	5-5-5	r G.* variable transparency & seeing. 400/360	SL. WEAR EMULSION SCRATCH
32	1 ^m 46 ^m E	44 01	2"	7.00	M4-4.5 ^{1.47}	5-5-5	P.H. felt aperture hole on loading 400/300	SL. WEAR ALMOST BLANK
58	0 ^m 29 ^m E	45 28	3	7.64	F8	5-10	Spect. Bin. 80x/101	ALMOST BLANK
						5-5	→ ^{light} CLOUDS: CLOSED UP 0240	FINE
							BETTER 400 COUNTS.	

Hr:

Bull E knob swatchers have been at work on the automatic guides. Please replace & fix it.

R. p. 1 25/3/69

Date Thurs. Mar 29, 1969 Observer Risu 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.
31998	HD 128661	^h 14 ^m 33.1	^o 36 ['] 22	G12	IIaO	9		2 23 ^{2:32}	04 55	B
32000	HD 139892	15 35.6	36 58	'	'	'		05:05 ⁽¹³⁾	05:18	B
32000 F	focus test	cut out / in in				9	21°F			B
32000 T	calibration	steps include for plates 31998 - 32,000								

Dome Temp. 24°F

Focus

Dome Temp. 19°FTransparency Conditions lozy

00:00 cleaning, turned on heater, snow off tracks about 2:10

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55 B 2 ^h 20 W	35° 05	4	7.0	A ₀	5-5-5	Est Bin	400/150 FINE
12 A 1 ^h 40 W	36 46	4	5.1	B _{0n}	5-5-5	Spect. Bin	40/15 FINE
B					5-5	in filter	FINE (RED END FOGGED)
						F = 50-R	
						hr check exp. mtr. etc integrator will not go to zero	
						Revised 27-28 Mar / 6/6 hr	
						59	

Date Mar 27/29 1969 Thu/Fri Observer Cs Hk/Ri Ci 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.
32001	HD 75935	08 ^m 47.9	+27° 18'	G12	IIaO	13 short	27°F	19:58 ²	22:30 ³²	A
32002	HD 112299	12 ^m 50.6	+26° 16'	G12	IIaO	13 short	25°F	23:20 ³¹⁰	02:30	A
32003	HD 140913	15 ^m 41.1	+28° 47'	G12	"	"	23°F	02:39 ¹⁵¹	04:30	B
32003F	focus test	out out/in in					22°F			B
32003T1	calibration	step wedge for flats							2F man	

Dome Temp. 27°F

Transparency Conditions Clear moon

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Focus

HAZY 3:30

Dome Temp. 24°F

no exp. meter

g Time S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20	A	1 ^h 41 ^m W	+27° 03'	~3	9.35	G8V	5/5/5	Exposure meter being repaired. Previous exposure 2 1/2 hrs - use this as criterion. Hd sec ⁺ stud. vel.	V.SI. WEAK
30	A	1 ^h 38 ^m W	+25° 55'	~4	9.19	F8V	5/5/5	Hd [*] secondary stud. vel.	FINE
30	B	0 ^h 49 ^m W	+28° 35'	~3.5	8.81	G0V	5/5/5	Sec. Sld. Vel. field drawn CLOUDS AT 3:00 AM MORE CLOUDS 4:30	SI. WEAK
	B						5-5	no filter	OK
								CLOSE UP AT 4:45 A.M. BECAUSE OF CLOUDS	

Date MARCH 29/30 SAT/SUN Observer LA - Im 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.
32004	HD72968	$8^h 30^m 35^s$	$-9^{\circ} 38'$	G-12	II-a-0	9L	25°	21:22 38 ^{sec}	23:58 65 ^{min}	A
32005	HD71866	$8^h 24^m 6^s$	$-40^{\circ} 33'$	"	"	"	25°	23:14/40 23:54 01:18	01:50	B

SOME CLOUDS

84

Dome Temp. 25°

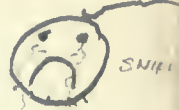
Transparency Conditions

Focus

It seems we have boulders above worm room
ie (with feathers)

Dome Temp.

STILL NO EXPOSURE METER →



g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	A	2h 37min	$-7^{\circ} 50'$	4"	5.68	Ap	5-55	Tr * 75 min	FINE
50	B	5h 30'W	$+10^{\circ} 22' 3''$	6.79	10p	5-55	Tr *	80 min for 3" ≈ 50min <u>clouds</u> -	SLIWEAK

85

Sun - Mon

Date Mar 30-31 / 69 Observer r G-Tn/ 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.
32006	HD 37058	5 ^h 30. ^m 6	-4° 54'	G12	II 00	9L		19 ^h 38 ^m ⁽⁶⁵⁾	20 ^h 43'	A
32007	36 LYN	9 ^h 07. ^m 3	+43° 38'	G12	II a 0	9L		20 ^h 55 ^m ⁽²⁵⁾	21 ^h 20 ^m	B
32008	34 μ UMa	10 ^h 26. ^m 4	+42° 40'	"	"	"		21 ^h 25 ^m ⁽¹⁵⁾	21 ^h 40 ^m	A
32009	37 LEO	10 ^h 11. ^m 3	+14° 14'	"	"	"	22°F	21 ^h 53 ^m ⁽³²⁾	22 ^h 25'	B
(32009 F1) Focus Test			out-out-in-in				22°F			C
32009 21	calibration strip and edge for plates 32004 - 32009									

Dome Temp. 23°F Transparency Conditions *Excellent*

Focus:

Dome Temp.

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
43	A	$3^{\text{h}}25^{\text{m}}\text{W}$	$-04^{\circ}48'$	2.5"	7.18	B3p	5-5-5		SL. WEAK
20	B	$0^{\text{h}}20^{\text{m}}\text{W}$	$+43^{\circ}23'$	2.0"	5.05	B3p	5-5-5		FINE
40	A	$0^{\text{h}}25^{\text{m}}\text{E}$	$+41^{\circ}42'$	2.0"	4.7	M0	5-5-5		FINE
25	B	?	$+13^{\circ}56'$	2.5"	7.3	M1	5-10	Finder Field Prawn (some Ha EC) bad at $22^{\text{h}}15'$ capped at $22^{\text{h}}25'$ <u>no good</u> <u>moonlight</u> Snow at $22^{\text{h}}30'$	WEAK
	C						5-5	no Filter	FINE
								Ex. MTR. Pwr. Supply Replaced. MAR 31/69 H.V.	
								plate capping light doesn't work - sometimes (e- at)	

Dome Temp. 23°F

Transparency Conditions

Clear (Clouds on horizon)
Haze

Focus

Dome Temp. 24°F

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								At $\delta \sim 50^\circ$ HA $\sim 2^h$ E, one of the leaf covers fell — better catches would be a good idea!	
12 ^m	A	1 ^h 50 ^m E	+41° 41'	~2.5	4.5	M0 III	5/5/5		40/30 V.SL. WEAK
42'	B	0 ^h 40' E	+31° 52'	~2	7.7	M5	5/5/5	getting some counts from haze (moon)	400/300 V.SL. WEAK
17'	C	1 ^h 09 ^m E	+40° 52'	2	7.1	M1 III	5/5/5	(check for Comp)	4x100/300 V.SL. WEAK
							5/5	no filter	↑ SL. C TO VT.
								<u>closed 01^h clouds</u>	TRY 350?

Wed-Thurs

Date April 2 / April 3 69 Observer Sr-Tn 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.
32013	37LEO	10 ^h 11.3	+14° 14'	G12	D ₄₀	9L		19:32 ⁹	21:41	C
32014	HD 52005	6 ^h 54' 31"	+16° 13'	G12	II ₆₀	9L	29°F	21:48 ³⁹	23:07	B
32015	HD 101501	11 35 47	34 46	G12	II ₆₀	"		23:25 ⁶⁶	00 ^h :31	A
32016	HD 131511	14 48 52	19:33	G12	D ₄₀	"		00:44 ¹²⁴	02 ^h :48	B
32017	HD 176318	18 ^h 54.6	+38° 07'	"	"	9xL	24°F	03:00 ³³	03:33	C
32018	HD 146051	16 ^h 09.1	-03° 26'	"	"	9L		04:17 ¹⁷	04:34	C
32019	HD 165341	18 ^h 00.9	+02° 31'	"	"	"		03:48 ²¹	04:09	A
32019 F	out-out-in-in			"	"		23°F			B
32020	HD 157999	17 ^h 21.5	+04° 14'	"	"	9L	"	04:54 ²⁹	05 ^h :23'	B
320 19 T1	Calibration for plates 32013-32020 (not from same box as)									

Dome Temp. 34

Focus

Dome Temp. 23

Transparency Conditions

Excellent (Full Moon)
from 24 05 thin clouds

90

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	C	0 ^h 8 ^m E	+14° 54'	3"	7.0	gM1	5,5,5	400/341	1st week
07	B	4 ^h 35 ^m W	16° 07'	3"	6.6	ck4	5,5,5	under exposed Eby	VERY best
31	A	1 ^h 18 ^m W	+39° 24'	3"	6.6	68V	5,5,5	Eby	Fine
48	B	0 ^h 29 ^m W	+19° 18'	"	7.3	dk1	5,5,5	Eby	Fine
33	C	2 ^h 56 ^m E	+38° 13'	"	5.7	L6-7	5,5,5	Hube* finder fld.	guiding?
34	C	0^h 30^m E	-03° 35'	"	4.3	M10	5,5	st vel.	Fine
07	A	01 ^h 21 ^m E	+02° 32'	3"	4.0	K0V	5,5,5	BK* (comp star x 3" (some interference))	Fine
	B							5/5 no filter	?
23	B	0 ^h 25 ^m W	04 12	3"	4.9	K30	5,5,5	too long	Fine
		slates but for next batch)						OK, same Emission	

91

Sat-Sun
Date April 5/6

Observer Ir-Tn

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.
32021	HD 91866	8 ^h 24.6	+40° 33'	G-12	IIaO	9-L	40°	23 ^h 28 ^m ⁽¹¹²⁾	01 ^h 30'	C
32022	HD 128661	19 ^h 33.1	+36° 22'	G-12	IIaO	9-L	35°	01 ^h 53 ^m ⁽⁷⁰⁾	03 ^h 03'	B
32023	HD 156014	17 ^h 10.1	+14° 30'	G-12	IIaO	9-L	34°	3 ^h 17 ^m ⁽¹²⁾	03 ^h 29'	C
32024	HD 17000	18 ^h 22.12	+71° 17'	G-12	IIaO	9-L	"	3 ^h 51 ^m ⁽⁵⁾	03 ^h 56 ^m	A
32025	HD 183056	19 ^h 22 ^m 28 ^s	+36° 07'	"	"	"	"	4 ^h 13 ^m ⁽¹³⁾	04 ^h 30'	B
32026	HD 177517	18 ^h 59' 58"	-15° 49'	"	"	"	35F	4 ^h 42 ^m ⁽³²⁾	05 ^h 14'	C

Dome Temp

Focus

Dome Temp

Hour Angle
End05^h 35'01^h 07'01^h 04'02^h 15'07^h 11'01^h 10'

Dome Temp. 39°

Focus

Dome Temp. 33°FVARIABLE CLEAR STARTING
2310

Transparency Conditions

2nd C PH has plate from new batch out

92

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
30 C	05 ^h 35 ^m W	+40° 22'	6"	6.72	A0p	5-5-5	17 * 1 LEAF FELL DURING 200/ EXPOSURE LEAF-71	Fine
03 B	01 ^h 07 ^m W	+36° 07'	3"	7.0	A0	5-5-5	11d * (telescope CLOSED POSITION LEAF- hook TIGHTENED) suspected ec. binarily 400/158 suspected 4" separation exactly	st weak
29 C	01 ^h 04 ^m E	+14° 28'	4"	4.6	M5II	5-5-5	Tm * (st vel) blue faint companion along slit 40/34	Fine
50 ^m A	02 ^h 15 ^m E	+71° 20'	3"	4.2	A0si	5-10	Tr * 40/15	Fine
30 B	07 ^h 11 ^m E	+36° 16'	8"	5.16	A si	5-5-5	Tr * Very distorted image possible just resolved bin 500/80	Fine
110 C	01 ^h 10 ^m E	-15° 42'	9-	6.0	A0si	5-10	Tr * underexposed, cut by sky 200/80	weak

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Sun-Mon

Date April 6-7 Observer J. R. G. Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
32027	HD37058	5 ^h 30. ^m 6	-4° 54'	G12	IIa-0	9L	42°F	19:23	⁽⁶²⁾ 20:25	A	3 ^h 52 ^m
32028	HD86801	9 ^h 55. ^m 8	+29° 02'	"	"	13S	"	20:35	⁽¹²⁴⁾ 22:39	B	01 ^h 21 ^m
32029	HD123423	14 ^h 02. ^m 5	-10° 41'	"	"	"	41°F	23:23	⁽⁴¹¹⁾ 04:04	C	2 ^h 45 ^m
32030	HD176318	18 ^h 59. ^m 6	+38° 07'	"	"	9(L)	"	04 ^h 19'	⁽²⁵⁾ 04 ^h 49'	A	01 ^h 29 ^m
32031	HD161096	17 ^h 38. ^m 5	+09° 37'	"	"	9(L)	36°F	04 50'	⁽¹⁰⁾ 05 ^h 06'	C	0 ^h 00 ^m
32031 F	Focus		out-out				"			C	

Dome Temp. 44°F

Transparency Conditions Good

Focus

Dome Temp. 36°F

ng Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. Fe.	REMARKS	Quality
25	A	3 ^h 52 ^m W	-4°49'	2"	7.2	B.	5-5-5	NG? *	200/66 sl weak
39	C	01 ^h 21 ^m W	+28°44'	1.5"	9.5	G0	5-5-5	su. std. Vel. very good seeing - star almost lost in slit.	4x100/140 Fine
00	C	2 ^h 40 ^m W	-11°06'	2.5"	49.	F5	5-5-5	Hd* trouble with fields - 2 settings. <u>wrong position - corrected.</u>	4x100/140 sl weak
44	A	01 ^h 29 ^m E	+38°14'	2.5"	5.7	B6-7	5-5-5	Hube*	4x100/200 Fine (guiding)
06	C	0 ^h 00	+04°36'	3"	3.95	K2 III	5-10	Std Vel	40/40 Fine
								5/5 no filter	

Mon-Tues

Date April 7-8 Observer Tn (only) 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.
32032	HD 26311	09 ^h 4.6	+33° 16'	G12	IIaD	9L	49°F	19 ^h 31' ⁽⁸²⁾	20 ^h 53'	A
32033	HD 90254	10 ^h 20.0	+09° 18'	"	"	"		21 ^h 06' ⁽⁵⁹⁾	22 ^h 05'	B
32034	HD 115202	13 ^h 10.6	-19° 26'	"	"	"		22 ^h 19' ⁽⁸⁰⁾	23 ^h 45 ^m	A
32035	HD 130705	14 ^h 44.6 ^m	+10° 28'	"	"	9L		24 ^h 00 ^m ^(2:40)	02 ^h 46'	B
32036	HD 176318	18 ^h 54.6	+38° 07'	"	"	<u>9L</u>	42°F	02 ^h 42' ⁽⁶⁰⁾	03 ^h 52'	A
32036 T ₁	Calibration for plates 32021-32036							April 7/69		

Dome Temp. 51°F

Transparency Conditions Fair

96

Focus

some Haze

nb

Dome Temp. 42°F

*(some trouble with Dec SI math.)
(as if it has reached Limit going North but it hasn't)*

*check Finder
Fd*

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
53' A	5 ^h 30 ^m W	+33° 32'	2"	7.0	cts	5-5-5	Eby* (some skylight) bad finder Fd ^{orew one} 4x100/318	weak?
05' C	0 ^h 27 ^m W	+08° 58'	2"	7.1	gm3	5-5-5	T _h * broken 2 pcs 4x100/350	sl weak
15" A	0 ^h 42 ^m E	-19° 44'	3"	6.2	K1	5-5-5	Small piece broken off image looks very blue for a star. also looks too bright. 4x100/300	sl weak
40' B	?	+10° 12'	2"	7.6	K0	5-10	cap of 1.75" scope 400/88	weak
52' A	02 ^h 16 ^m E	+38° 14'	2"	5.7	B6-7	5-5-5	(lots of cloud) Hake* 4x100/150 <u>cloud again closed. 4^h</u>	guiding
							do HO 90254 again	

91

Date *Tues-Wed* *April 8-9* Observer *Se, To* 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.
32037	HD 91316 <i>pleo.</i>	10 ^h 27.5 ^{31.0}	+09 47	G-12	Il ₂ -0	9L ²	43°F	19 ^h 50 ^m (20)	21:10	A
32038	"	"	"	"	"	"	"	22:40 (21)	23:41	B
32039	α Cen A	12 ^h 51.3	+38 51	"	"	"	"	0:01 (12)	0:15	C
32040	"	"	"	"	"	"	"	0:19 (16)	0:35	B
32041	"	"	"	"	"	"	"	0:37 (18)	0:51	A
32042	HD 123657	14 ^h 03.9	+44° 20'	"	"	9L	37°F	01 ^h 08' (25)	02:13	C
32043	HD 123821	14 4.8	+52 04	G-10	Il ₂ -0	17L	38°F	02 ^h 42' (23)	3:45	A
32044	β Lyrae	18 46.4	+33 15	G-12	"	9L ²	38°F	04 ^h 03' (21)	04:19	A
32045	"	"	"	"	"	"	"	04:21 (25)	04:46	B
32046	"	"	"	"	"	"	36°F	04:48 (12)	05:00'	C
32046F-A	<i>out-out-in-in</i>			"	"	9L	36°F			A
32046T1	Calibration		step wedge					for plates 32037-46	april 9	

Dome Temp. 45°F

Transparency Conditions *Very Hazy*
clearer after midnight

Focus

Dome Temp. 37°F

log Time S.T.	P.A.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	A	30° E	+09° 30'	2-3"	3.85	B1E6	5-5	calite LH = ord. image (2 pieces) Broken.	40/40
41	B	2:02 W	"	"	"	"	"	(heavy clouds) LH ord. 45° - extra.	10/40
15	C	↓	+38° 29'	4"	2.8	B9.5 _{pl}	none	calite LH = ord. double image	40/40
35	B	↓	"	"	"	"	"	same as 32034 but the mica on it	40/40
51	A	0 ^h 47 W	"	"	"	"	"	45° image	10/40
13	C	0 ^h 57 W	+44° 00'	3"	5.7	gM4	5-10	T ₆ *	4 x 100/350 sl/week
5	B	2 35 W	+51° 44'	3"	9.4	G8III	18-8-8	S*	100/17 Fogged 7 Sl. WK.
14	A	↓	+33° 18'	3"	3.4	Bpe		S* calite LH = ord. image (double)	10/40
46	B	0 ^h 09 E	"	"	"	"	"	45° -	40/40
00	C	0 ^h 57 E	"	"	"	"	"		40/
	A						5/5	no filter	
								Look G-40 plates for fog	

Thurs - Fri

Date April 10-11

Observer T_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.H.
32047	HD176318	18 ^h 54.6	+38° 7'	G12	Ti ₂ O	9xL	42°F	02 ^h 42 ^m ⁴⁸	03 ^h 25 ^m	A
FRI 11 APRIL	FLEXURE TEST									
32047 T ₁			+40°		"	"				
	Centre - meridian, Outside					1.5 h E			Plate holder	A
" T ₂			+40							
	"		"		"	3 h E			"	B
" T ₃	"		"		"	5.5 h E			"	C

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

Transparency Conditions *Cleared a 2'*.....

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 ^h 33 ^m E	$+38^{\circ}14'$	4"	5.7	B6-7	5-5-5	Hubert (no filter)	4x110/200 <i>quding? strong comparison</i>
A							
B							
C							

Fri. Sat.

Date April 11-12

Observer S. T. N.

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.
32048	HD 5000	6^m 34^s 51	16^m 15	9L	IIaD	9L		19^h 43^m 81^s	21^h 04^m	A
32049	HD 123423	14 ^h 07.5	-10.41	"	"	135		21 ^h 25 ^m 69 ^s 58	03 23	B
32050	HD 128661	14 ^h 33.1	+36° 22'	"	"	9L	34	3 ^h 38 ^m 6 ^s	04 ^h 42 ^m	A
32051	HD 156014	17 ^h 10.1	14 30	"	"	9L	"	4 ^h 49 ^m 10 ^s	04 ^h 59 ^m	C
32051 F	Focus	in in / out out					33°F			A

Dome Temp. 40° F

Transparency Conditions clear

Focus

Dome Temp. 39° F

at 19:30 - suspicious bright object in N by NW (gone in 10 min)
 / UFO most likely) (as bright as Jupiter)

log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04	A	3:07 W	+16° 06'	2"	7	K4	5-5-5	Waterloo; broken 2" off 4x10/300	weak
23	B	2:20 W	-10° 59'	2.5"	9.2	F5	5-5-5	Eclipsing binary (HE) actual 110 4x10/300 by eye	weak
42	A	3:10 W	30° 06'	3"	20	A0	5-5-5	H0* 4x10/150	Fine
59	C	0:50 E	14° 26'	"	4.4	M5II	5-10	Standard veloc. 4x10/35	Fine
								2 640 plate #1 = low on left #2 = " " right	
								5/5 no filter	

Visitors: 160 Hrs, for, Cyls

real observing started 10:15

Sat - Sun

Date April 12-13 Observer In - In Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
No plate	HD 92968	8 38 35	7 38	G-12	FlaO	94		22:25	22:46		53^h 18'
32052	HD 71866	8 ^h 29.6	+40° 33'	G-12	D90	"	44°	23:09 ³⁴	23:43	A	04 ^h 20'
32053	UX Her	17 ^h 49.7	+16° 58'	G-12	FlaO	13S	44°	0 ^h 30 ¹⁴³	2 ^h 53	B	01 ^h 52'
32054	HD 192913	20 ^h 12.3	27° 29'	G-12	FlaO	<u>Z-L*</u>	43°F	3 ^h 33 ⁴³	04 ^h 15'	C	02 ^h 52'
32055	HD 17957	19 ^h 06	-15° 49'	"	"	<u>Z-L*</u>	41°F	04 ^h 28 ³⁷	05 ^h 05	B	?
32055F	Focus Test						41°F			B	0 ^h 50'

Dome Temp. 43°

Transparency Conditions clear

Focus

Dome Temp. 40°F

g Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45	03^h 18^m W	- 90° 51'	2	5.72	Ap	5-10	11* dark slide not out weak should have 20	200/55
43 A	04 ^h 20 ^m W	+ 40° 21'	1"	6.8	AO _p	5-5-5	Ir* in v. d. b. l. good seeing consistency 1"	200/80 Fine guiding?
53 B	01 ^h 52 ^m E	+ 16° 59'	1"	9.0 _{9.2}	AO	5-5-5	Hd* Ec Bin (BOTTOM C) first comparison with a long slit IN PLATE holder	800/200 / week
15' C	02 ^h 52 ^m E	+ 27° 42'	1	8.69	AO _p	5-5-5	Fr* 2 (probably)	200/80 Fine guiding
05 B	?	- 15° 43'	2"	6.0	AO _{si}	5-5-5	Ir* (some @ quad D) 72 slit	200/74 sl weak
0	0 ^h 50 ^m E	in-in-out-out				5/5	no filter.	FINE

Date *Sun-Mon April 13-14* Observer *Kü, To* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	
32056	γ Aur	4 ^h 59 ^m .5	+41° 06'	G-12	IIaD	9L	51°F	19:47	19:48	C	354W	
32057	β Tau	5 ^h 20 ^m .0	+28° 31'	"	"	"L	"	19:58	19:59	B	3 ^h 44W	
32058	H081797	09 ^h 22 ^m .7	-08° 14'	"	"	9L	50°F	20:15	20:18	A	0 ^h 00	
32059	HD 101501	11 ^h 35 ^m .8	+34° 46'	"	"	"	"	20:42	21:08	B	1 ^h 20	
32060	HD 128661	14 ^h 33 ^m .1	+36° 22'	"	"	"	"	21:24 ⁵³	22:17	C	3 ^h 08	
32061	71 UMa	12 ^h 20 ^m .3	+57° 20'	"	"	"	50°F	22:42 ⁵⁸	23:40	A	0 ^h 26W	
32062	73 UMa	12 ^h 22 ^m .8	+56° 16'	"	"	"	"	23:55 ⁴¹	0 ^h :36'	C	1 ^h 20W	
32063	42 L.b	15 ^h 34 ^m .4	-23° 30'	"	"	"	49°F	01 ^h :09 ⁹²	02 ^h :41'	A	0 ^h 14W	
32064	HD 176318	18 ^h 54 ^m .6	+38° 07'	"	"	9xL	"	02 ^h 57 ²⁰	03 ^h :21'	C	02 22W	
32065	93 Her	17 ^h 55 ^m .6	+16° 46'	"	"	9L	47°F	03 ^h 32 ¹⁹	03 ^h :51'	B	0 ^h 55W	
32066	HD 171586	18 ^h 30 ^m .6	+09° 51'	"	"	"	"	04 ^h :00 ²⁸	04 ^h :28'	B	0 ^h 55W	
32067	HD 146051	16 ^h 09 ^m .1	-03° 26'	"	"	"	46°F	04 ^h :37 ¹⁰	04 ^h :48'	A	0 ^h 45W	
32067FC	Focus Test						46°F			C		
32067I	calibration	for plates 32047-67						April 14				

Dome Temp. 53°F

Transparency Conditions Good (Excellent seeing)

Focus

Dome Temp.

0° 18' (satellite thru cup of big dipper)
 plus 11 star at 0° 25' going North

check field *

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8	C	3 54 W	+41° 15'	2"	2.99	B3 V	5-10	rg*	40/15 strong sl guiding
59	B	3° 44 W	+28° 36'	"	1.52	B7 III	5-10	rg*	20/8 strong
18	A	0° 00	-08° 29'	3.5	3.40	K4 III	5-10	st vel*	40/30 sl weak guiding
08	B	1° 20 E	+34° 24'	2"	6.7	G8 V	5-5-5	Ebg*	4x100/225 Fine
17	C	3° 08 E	+36° 05'	1"	7.0	A0	5-5-5	Hd* (ed binary)	4x100/150 Fine guiding
40	A	0° 26 W	+57° 00'	2.5"	7.3	gM3	5-5-5	Th* (finder field drawn) check.	4x100/350 guiding sl weak
36	C	1° 20 W	+55° 53'	1.5"	7.1	gM2	5-5-5	Th*	4x100/350 sl weak guiding
41	A	0° 14 W	-23° 41'	2"	7.0	K9	5-5-5	Sc* bad Finder Field	4x100/300 weak
21	C	02° 22 E	+38° 19'	3"	5.7	B6-7	5-5-5	Hube*	4x100/200 Fine guiding
51	B	0° 55 E	+16° 47'	2"	5.9	K0 V	5-5-5	Sc*	4x100/300 sl weak guiding?
28	B	0° 55 E	+09° 57'	1"	6.9	A0	5-5-5	Ii*	4x100/150 Fine guiding
48	A	21° 45 W	-03° 34'	1"	4.30	M1 III	5-10	st vel	40/35 Fine
	C			in-in-out-out			5/5	no filter good night eh?	

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Wed - Thurs

Date April 16-17 Observer T.H.S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End	
32068	HD 72968	8 ^h 38 ^m 6 ^s	-07° 38'	G-12	IIaD	9L	56°F	19 ^h 44 ^m ⁽²⁶⁾	20 ^h 20 ^m	A	01 ^h 07 ^m	
32069	HD 89449	10 ^h 14 ^m 3 ^s	+19° 59'	"	"	"	"	21 ^h 06 ^m ⁽¹⁸⁾	21 24	B	00 28 ^m	
32070	"	"	"	"	"	"	"	21 32 ⁽²⁵⁾	21 ^h 57 ^m	B	01 ^h 00 ^m	
32070	T ₁	calibration step wedge for plates 32068-32070							Apr 18/69			

Dome Temp. 62°F

link out of focussing chain.

Transparency Conditions

Hazy

Focus

Dome Temp.

Plate breaking left & right) cut some new ones

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20' A	01 ^h 07 ^m W - 07 ^h 51 ^m		2"	5.7	Ap	5-5-5	Ir*	200/80 WEAK
21' B	00 28W + 19 38		2"	5.3	F5	5-5-5	St. vel (broken 2 pcs)	70/21 SL. WEAK
57' B	01 ^h 00W	"	"	"	"	5-5-5	" " repeat.	40/21 SL. WEAK
							<u>clouds -</u>	
							<u>see spec in 10 days, fins</u>	

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Lp Go Hns # VISTORS 153
OBJECT VIEWED M67

Date Wed April 19/20 1969 Observer Ir Ri Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
32071	HD 91866	08 24.6	+40 33	G12	Ilao	9L	42°	22 34 ⁽⁷⁾	23:45	A	44 30.2
32072	HD 128661	14 33.7	+36° 22	"	"	"		23: 55 ⁽⁸⁾	01: 23	B	04 30.2
32073	HD 192913	20 12.3	+27 29	"	"	"	38°F	01: 43 ⁽⁵⁾	02: 41	C	47 00
32074	HD 177517	18 ^h 59 ^m 58 ^s	-15° 49'	"	"	"		02: 52 ⁽³⁾	03: 55	A	14 33.2
32075	HD 170660	18 ^h 22' 12"	71° 17	"	"	"	36°F	04: 17 ⁽⁵⁾	04: 22	B	04 25
32075F	focus test		at end/center				36°F			B	

Dome Temp. 40°F
 Focus
 Dome Temp. 34°F

Transparency Conditions CLEAR
 SEEING IMPROVING
 THROUGH NIGHT

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45 A	4450W	+40 21	6"4	6.72	Aop	5-5-5	Ir* 200/80	(SL. WEAR) FINE
23	0422W	+36 05	4"-3	7.0	AO	5-5-5	Hd* Ec Bin? 1 INCH Broken OFF END 200/80	FINE
41 C	4" 00"E	+27 42	3	6.69	Aop	5-5-5	Ir* 200/80	* FINE
55 F	1" 33E	-15° 42'	—	5.99	AO Si	5-5-5	Ir* broken 2 pos. 3 pieces 200/80	FINE
22 B	0" 25"	+71° 19'	3	4.20	AO Si	5-5-5	Ir* counts reduced because of comparison 200/80	* FINE
8						5-5	no filter	FINE
							* DIFFICULT TO MAKE OUT PLATE NUMBERS	

Date Sun. Mon. April 20-21, 1969 Observer R. Bi 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.
32076	HD 107274 (435 Vir)	12 14.9	+49 32	G12	IIaD	9L	44°F	23:26	00:57	A
32077	HD 112300	12 50.6	+3 56	"	"	"	42°F	01:04	01:27	B
32078	HD 131861	14 50.9	+45° 43	"	"	13		01:32	03:18	C
32078F	focus test	out of focus					40°F			A
32078 T1	calibration	step	wedge	for	plates	32071-32078		21 Apr/69		

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

2:17W

2:05W

2:03

Date Fri. 8-9. 25/26. 1969 Observer Li Su Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Ang End
32079	HD 90362	^h 10 ^m 20.7	-06 33	G12	#20	0 L		20:53.5	⁽³⁹⁾ 21:22.5	A	0.56
32080	HD 123423	^h 14 ^m 02.5	-10 41	G12	#20	13S	55°F	21:42	⁽³⁸⁾ 03:00	C	3.10
32081	HD 176318	^h 18 ^m 54.6	+38 07	G12	#20	0 L	50	3:41	⁽³²⁾ 04:13	A	0.45
32082	HD 161096	^h 17 ^m 38.5	+4 37	G12	#20	0 L		4:20	⁽³⁾ 04:27	C	0.45
32082F ₁	focus test		out out/22 in				48°F			B	

Dome Temp. 58

Transparency Conditions *hazy at first then clear*

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Focus

Dome Temp. 46

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
02.5	A 0 56 W	-06 54	2	8.71 5.58	M0 III	5-5-5	was found at 10 ^h 25.1 ^m (1/2" broken after Expos)	(M 435) 300 2x100/200	- W.F.M.K. SL. WEAK
00	C 3 10 W	10 59	2	8.5 ⁷⁰ 0.2	F5	5-5-5	(Hd*) Ecl. Bin field same as 32 029	8x100/300	SL. WEAK
13	A 0 45 E	38 14	3	5.7	B6,7	5-5-5	Spectroscopic binary (Hubt)	4x100/200	FINE
27	C 0 45 W	4 36		3.93	K2 III	5-5-5	Bright Standard Velocity Star	2x100/150	FINE
	B					5-5	no filter		FINE

Dawn

VISITORS

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G0-G3-1r

NO OBJECT VIEWED BECAUSE OF CLOUDS

Date Sat - SUN Apr 26/27

Observer Ir-Ri

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
32083	HD 112300	12 ^h 50.6	+3° 56'	G-12	IIa-O	9-L ^{EX}	47°F	23:15 ⁽⁴³⁾	23:58	A	01 ^h 01 ^m
32084	HD 170000	18 22:12	71° 17'	"	"	9-L	45°F	00:10 ⁽¹⁷⁾	00:27	B	03 ^h 52 ^m
32085	HD 139892	15 ^h 35.6	36° 56'	"	"	9-L	45°F	00:40 ⁽²²⁾	01:02	C	00 ^h 31 ^m
32085F	focus test	out of focus					44			B	
32085 71	calibration step wedge for plates										
									28 Apr 1969		

CLOUDS TILL 23:00
INTERMITTENT TO CLEAR

Dome Temp. 46°F
Focus
Dome Temp. 45°F

Transparency Conditions

g Time S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
58	A	01 ^h 01 ^m W	3° 37'	7	4.95	M3-III	5-5-5	NG* (250-300.) 200/200	SL WEAK
29	B	03 ^h 52 ^m E	71° 19'	10	4.2	A0Si	5-5-5	IR* 200/80	FINE
02	C	00 ^h 34 ^m E	36° 44'	6	5.1	B8m	5-5-5	Spec. Bin 200/80 CLOUDS AT 1:00	FINE
	B						5-5	w/ filter closed up at 01:30 P.H.A loaded and in N.P.	SL.C.T.D.R.

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Tues - Wed
 Date April 29-30 Observer L, Ta 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.
32086	HD128661	19 ^h 33 ^m 1	+36° 22'	G12	D40	9L	44°F	21 46	23 ^h 17 ^m	A
32087	13 B00	19^h 4^m 6	+49° 56'	"	"	"	42°F	23 29	0 ^h 41 ^m	B
32087	13 B00	14 46	49 56	"	"	"	40°F	00 41	02 ^h 40 ^m	C
32088	93 HER	17 ^h 55 ^m 6	+16° 46'	"	"	"	38°F	02 54	03 ^h 32 ^m	A
32089	HD186791	19 ^h 41 ^m 5	+10° 22'	"	"	"	"	03 45	04 53	B
32089 F	Focus			"	"		38°F			B
32089 T1	calibration	steps	wedge for plate		32086 - 32089				30 Sept 169	

Dome Temp. 43°F

Focus

Dome Temp.

Transparency Conditions Clear ¹¹⁸ some high cloud ¹¹Hazy after 02 h.

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
17	A	0° 54' W	+36° 05'	4"	7.0	A0	5-5-5	Fcl Bin Hd*	4x100/150	SL. WEAK
41	B	0° 49' W	+49° 37'	3"	6.7	M2	5-5-5	T ₄ * broken (discarded)	4x100/400	
40	C	02° 49' W	+49° 37'	3"	6.7	M2	5-5-5	T _n *	4x100/400	SL. WEAK
32	A	0° 11' E	+16° 47'	3"	5.9	KOE-II	5-5-5	Sc*	4x100/340	FINE
33	B	1 37 E	+10 33	3"	4.15	A3II	5-5-5	st vel	40/30	SL. WEAK
							5:15	no filter		FINE

Dome Temp. 50°F

Transparency Conditions Clear

Focus

Plates in new batch seem bad

Dome Temp.

(THESE PLATES ARE THE LAST

Time T.	PM	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	OR THE <u>320</u> BATCH <u>4 mag</u>	Quality
36	A	03 ^h 04 ^m W	+28° 26'	2.5"	7.2	dK0	5-5-5	Eby, Waterloo	4x100/400	(GUIDING) FINE
8	B	03 ^h 38 ^m W	+36° 16'	2"	7.4	M2	5-5-5	Tn* broken (3pc) <u>bad!!!</u>	4x100/570	BROKEN FINE
8	C	0 ^h 31 ^m E	+36° 44'	"	5.1	B8n	5-5-5	Sp Bin	4x100/180	FINE
18	A	01 ^h 16 ^m E	+39° 42'	2"	10.8	---	5-5-5	Fitz Waterloo (Planetary Neb)	<u>8000/255</u>	FINE
	B		in in - out out				5-5			FINE

NOTE: - G¹² PLATES IN DOME ARE FRESHLY CUT

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Thurs - Fri
 Date May 1-2/69 Observer Tn. Ci 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.
32094	HD 112300 ^(438 VIR)	12 ^h 50. ^m 6	+03° 56'	G-12	IIA0	9L	51°F	20 ^h 54 ^m ⁽²²⁾	21 ^h 16 ^m	C
32095	HD 115202 ^(57 VIR)	13 ^h 10. ^m 6	-19° 26'	"	"	"	50°F	21 ^h 38 ^m ⁽⁶⁰⁾	22 ^h 38 ^m	A
32096	HD 128661	14 ^h 33. ⁱ	+36° 22'	"	"	"	48°F	23 ^h 11 ^m ⁽⁶⁸⁾	0 ^h 19'	B
32097	2800	14 ^h 11. ⁱ	+19° 42'	"	"	"	"	0 ^h 41' ⁽¹⁰⁾	0 ^h 42'	C
32098	13800	14 ^h 4. ⁱ 6	+49° 56'	"	"	"	"	01 ^h 04' ⁽¹⁶⁾	02 ^h 40'	C
98 F1										?
32098	T. calibration	step wedge for plates 32094-32098						2 May 1969		

Dome Temp. $51^{\circ}F$

Focus

Dome Temp.

Transparency Conditions Cloudy at 1st then clear
at 21^hClouds & Haze at 02^h (thick by 03^h)

Time UT.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
16 ^m	C	01 ^h 16 ^m E	+03°34'	2"-4"	4.95	M3 III	5-5-5	T ₅ * 4x10/45	FINE
38 ^m	A	00 ^h 13 ^m W	-19°45'	1.7"	5.32	K1 IV	5-5-5	Sc* 4x100/900	FINE
19 ^m	B	00 ^h 05 ^m W	+36°05'	2"	7.0	A0	5-5-5	Ha* Ecl. Pin (2pc) 4x100/180	(GUIDING) BROKEN FINE
42 ^m	C	00 ^h 50 ^m W	+19°19'	2"	129	K2 IIIp	5-10	St Vel <u>Wow Fast</u> 4x10/37	STRONG
40 ^m	C	02 ^h 55 ^m W	+49°36'	1	6.7	gm2	5-5-5	T _n * stopped by cloud 4x100/507	FINE
									V, V, SL, C. TO RED.
								<p><u>Andon -</u> You cut some short G12 plates (They are in box "3 in Dome") I didn't try to, but (I assumed) they are too short.</p> <p style="text-align: center;">↓ Jim</p> <p>PLATES 1/8" SHORT, OK FOR G-12.</p>	

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Visitors = 140 (60, Hms, Sr)

Object = Jupiter

Date May 3-4 Sat-Sun Observer Tr 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.
32099	HD 91866	8 ^h 24.6	40° 33'	G-12	IIaO	9-L	54°F	22:55 ⁽⁷⁰⁾	00:05	A
32100	HD 171586	18 ^h 30.6	+04° 51'	G-12	IIaO	9-L		00:31 ⁽¹³⁾	02:04	B
32101	HD 171586	18 ^h 30.6	+04° 51'	G-12	IIaO	9-L	48°F	02:29 ⁽⁵³⁾	03:22	C
32102	HD 170000	18 ^h 22.1	91° 17'	G-12	IIaO	9-L	47°F	03:55 ⁽²⁾	04:03	A
32103	φ Pers	18^h 37.4 18 ^h 37.4	10° 34' 10° 11'	G-12	IIaO	9-L	47°	04:28 ⁽³⁾	04:31	B
32103F					FOCUS TEST		46°			A

HIGH CIRRUS

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Dome Temp. 51°F

Transparency Conditions

Focus

TRIED SMALL FINDER,

LIGHT FOR CROSSHAIRS
DOESN'T WORK

Dome Temp. 47

*The clock is still ONE MINUTE SLOW!

ng Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05 A	5h 55m W	40° 21'	3"-4"	6.79	Aop	5-10lp*	1/2 inch broken at 27 counts fullscope drifted 5 MINUTES out of by H.A. WEST	200/139 VERY WEAK BROKEN
04 B	01h 55m E	104° 56'	5	6.52	AO	5-5.5lp*	Broken @ 4 PIECES NO LES	200/180 FINE
022 C	00h 40m E	104° 56'	4-36.52	AO	5-5.5lp*	try again	UNBROKEN ☺	200/80 V-SL. WK
003 A	00h 13m W	47° 19'	2	4.13	AOsi	15	Ir ^v 3 passes slow motion	200/80 FINE
004 C	00h 35m E	50° 31'	2	3.95	Bope	15	HK* start exp sky was 1/6 counts end exp sky was 1/3 counts probably SOME CONTAMINATION	80/118 VERY WEAK
A	IN-IN	OWT	OUT	5-5	no filter			V. SL. C. TO V.S.
							* 4:00 pm Run: S.C.L. & EST. clocks within 10 sec.	

Date May 4-5 Sun-Mon Observer T_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.H.	Hour Angle End
32104	HD 139892	15 ^h 35 ^m 6 ^s	+36° 58'	G12	D40	92	56°F	23 ^h 28 ^m 23 ^s	23 ^h 46 ^m 46 ^s	A	01 ^h 16 ^m
32105	HD 128661	14 ^h 33 ^m 1 ^s	+36° 22'	"	"	"	"	23 ^h 55 ^m 01 ^s	01 ^h 16 ^m	C	01 ^h 15 ^m
32105 F		Focus Test					54°F			B	
32105 T1	calibration	step wedge for plates 32099 - 32105							5 May 1969		

Dome Temp. 56°F

Transparency Conditions Clear at 23^h

Focus

Some haze

Dome Temp. 53°

Clouds at 0^h

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
A6	01 ^h 16'E	+36° 49'	2.5"	5.1	B8n	5-5-5	Sp Bin Hd* 4x100/180	FINE
'6	01 ^h 15'W	+36° 09'	2"	7.0	A0	5-5-5	Hd* Ecl Bin <u>Clouds</u> 4x100/111	SL. WEAK
							Cloud by 01 ^h 30'	
E			in-in-out-out			5-5	no filter	SL. C. TO VL

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Date *Mon-Tues*
*May 5-6*Observer *Sc, Tn*

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.
32106	pleo	10 ^h 27.3 ³¹	+09° 47'	G-12	IIa-0	9L	54°F	20 ^h 12' ⁽¹³⁾	20 ^h 25'	A
32107	"	"	"	"	"	"	"	20 ^h 29' ⁽¹⁴⁾	20 ^h 53 ^m	B
32108	"	"	"	"	"	"	"	20 ^h 57' ⁽¹⁴⁾	21 ^h 11 ^m	C
32109	α Boo	14 ^h 14.3 ¹⁹²⁰	+19° 20' ¹⁹²⁰	G-12	IIa-0	7L		21 ^h 24' ⁽¹³⁾	21 ^h 27'	B
32110	α Boo	14 ^h 11.1	+19° 42' ¹⁹²⁰	"	"	7L	52°F	21 ^h 39' ⁽¹⁴⁾	22 ^h 03 ^m	A
32111	HD 108174	12 ^h 20.5	+38 54	G-40	IIa-0	13L	51°F	22 ^h 36 ^m ⁽¹⁴⁾	23 ^h 15 ^m	A
32112	HD 125260	14 13.2	+55 45	"	"	"		23 28 ⁽¹⁵⁾	23 ^h 58'	C
32113	HD 128091	14 29.9	+18 51	"	"	"		0 ^h 10' ⁽¹⁴⁾	01 ^h 09'	B
32114	HD 156841	17 ^h 14.7	+28 20	"	"	"	50°F	01 ^h 27 ^m ⁽¹⁵⁾	2 ^h 17 ^m	A
32115	HD 145001	16 ^h 03.7	+17 19	"	"	"		2 ^h 28 ^m ⁽¹⁵⁾	2 ^h 31 ^m	C
Focus test	G-40 - 5/5'	G 12	ultra (foc. - 38)							C
32116	β Lyrae	18 ^h 46.4	+33 15	G-12	IIa-0	9L	50°F	02 ^h 55' ⁽¹⁶⁾	03 ^h 03'	A
32117	"	"	"	"	"	"	"	03 ^h 07' ⁽¹⁶⁾	03 ^h 22 ^m	B
32118	"	"	"	"	"	7L	49°F	03 ^h 26 ^m	01 35	C
32119	"	"	"	"	"	7L	49°F	03 ^h 39 ^m	4 00	A
32119 F-B	Focus					7L	"			B
32119 T1	calibration	for plates	32106	-	32110, 32116	-	32119	6 May 1969		

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Date ^{Sun - Mon} May 11-12Observer Tm

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.I.
32120	HD 128661	14 ^h 33.1	+36° 22'	G12	Duo	9L	45°F	20 ^m 22 ^s	22 ^m 05 ^s	B
32121	HD 120819	13^h 46.7	+35° 10'	"	"	"	44°F	23^m 03^s	01^m 10^s	C
32120F	Focus Test						42°F			C
32120+1	calibration step wedge for plate # 32120.								12 May 1969	

Dome Temp. 47°F

Focus

Dome Temp.

Transparency Conditions Clear (Some cloud)

Hazy periods after 23^hThick cloud at 01^h

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06	B	01 ^h 27 ^m E	+36° 04'	3"-5"	7.0	A0	5-5-5	HD* Ecl. Bin - 4x100/180	(GUIDING) SL-WEAK
10	E	02 ^h 23 ^m W	+34° 48'	3"-6"	6.5	gM1	5-5-5	In* Cloud catched 4x100/375 <u>Damn (dark slide left in)</u>	
	C							in in - out out 5/5 no filter	OK

133 NEWTONIAN

S, Cc, Wz

Date Mon. May 12-13/69 Observer L, Tr Julian Day

Plate No.	Object	R.A. 1900 69	Declination 1900 69	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
32121	NGC 5053 ✓	13 14.8	+17 51	Newt	103A0			10 47	10 57	1
32122	" 4374	12 23.6	+13 03	"	"			11 07	11 08½	2
32123	"	"	"	"	"			11 14	11 17	1
32124	"	"	"	"	"			11 19	11 25	2
32125	"	"	"	"	"			11 29	11 41	1
32126	"	"	"	"	"			11 44	12 08	2
32127	" 5053 ✓	13 14.8	+17 51	"	"			12 41	12 51	1
32128	" 6171 ✓	16 30.8	-12 59	"	"			01 20	01 30	2
32129	5566	14 18.8	4 06	"	"			02 47'	02 50'	1
MAY 13/14 (TUES-WED) CLOUDY.										

Dome Temp. $45^{\circ}F$ Transparency Conditions *clear till 0.30 h*

Focus

Dome Temp.

+ 3 min correction to 8

Time T.	P.H.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	EXPOS. Comp.	REMARKS	Quality
07	1	0	46 W					10	(MIN.) Cc quit	
08	2	01	50 W					1 1/2	W ₃	
17	1	01	58 W					3	W ₃	
25	2	02	06 W					6	W ₃	
41	1	02	21 W					12	W ₃	
08	2	02	49 W					24	W ₃ - refocused	
51	1	02	41 W					10	Cc	
30	2	00	04 W					10	Cc Sa quit 01:15 EST	
50	1							3	W ₃	
<i>1 P.H. loaded.</i>										
<i>CAREFULLY DUST OFF EACH PLATE WITH THE BRUSH. THE PLATES OF MAY 12/13 ARE BADLY MARKED.</i>										
<i>UNEXP. -DISE</i>										

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Date Wednesday, May 14-15 Observer T. N. Inso, S. C. Wg. (L) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
32130	NGC 5053 ✓	69			103a0			21 ^h 45 ^m	21 ^h 53 ^m	2
32131	4486	12 ^h 29.3 ^m	+12° 33'		10300			22 05	07	1
32132					"			22 ^h 10 ^m	22 25	2
32133	NCC 5053 ✓				"			22 35	22 43	1
32134	5634 ✓				"			22 50	23 ^h 04 ^m	2
32135	5053 ✓				"			23 14	23 ^h 22 ^m	1
32136	5634 ✓				"			23 ^h 29 ^m	23 43	2
32137	4559				" & 66			0:10 ¹⁵	0:25 ¹⁵	1
32138	4559				103a-D			0:31 ²⁰		2
32139	5053 ✓				466 103a.0			01 ^h 00 ^m	01 ^h 08 ^m	1
32190	6171 ✓				103a-0			01 ^h 23 ^m	01 ^h 35 ^m	2
32141	5566				10300			01 ^h 48 ^m	02 ^h 03 ^m	1
32192	6171 ✓				103a0			2:09	2:21	2
32143	5566				103a-D			2:31	2:46	1
32144	6171 ✓				10300			3:04	3:18	

Dome Temp.

Transparency Conditions

GOOD

Focus

LOST ~ 1 MIN ^{AT START} LIMIT SWITCHES STICKING WITH PAINT

Dome Temp.

Time T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
53	2	EO:0E					8 m	cc good Processing star plates Instrument ready in focus	
07	1	00:50					2 m	9:30 EST Aurora beautiful + gorgeous	
25	2	01:13					15 m	W ₃	
43	1						8 m	Cc	
06	2	EO:11'					14 m	S	
22	1	01:21					8 m	Cc	
43	2	00:27					14 m	S	
15	1	03:04					15 m	W ₃	← FOCUS *; at 700.
	2	03:25					15 m	W ₃	12:30 Aurora still here. Not quite so bright
08	1	N3:07					8 m	Cc	YELLOW FILTER TOO TIGHT
35	2	W0:18'					12 m	Cc	
33	1	W2:57'					15 m	W ₃	
21	2	U1:04					12 m	Cc	
46	1	W3:40					15 m	W ₃	← LOST ~ 20 MIN REMOVING YELLOW FILTER
18		02:00					10 m	Cc	

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Thurs - Fri

Date May 15-16

Observer

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
Focus Star	5 VIR	13 ^h 33. ^m 1	-0 26. ^s 3							
32145	5053 ✓	13 ^h 14. ^m 9	+17° 51'					22 ^h 05'	22 ^h 15'	1
FINISHED NEWTONIAN										
Change to Cassegrain May 16										

Dome Temp.

Transparency Conditions

Clouds

Focus

Dome Temp.

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
131			5.9	A2			
?					8 ^m C	Closed $\approx 23^h$	
						CC has borrowed Newtonian eyepiece for downtown use	
						<u>T_n</u>	
						plates 32120 - 32145 dec D-14/16 May 16.9	
						plates 32121 - 32129 " " 13 " "	

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CASS EGR & IN

Tue - Sat

Date May 16/17 Observer Ta only 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.	
32146	HD128661	14 ^h 33.1	+36° 22'	G12	D ₀₀	96	69°F	21 ^h 14'	22 ^h 22'	A	
32147	HD130705	14 ^h 44.6	+10° 28'	"	"	"	66°F	23 ^h 22'	02 ^h 10'	B	
								(2:57)			
32147-F	Focus Test						69°F			B	
32147 T1	calibration	step wedge for #32146, 32147.							no may/169		

Dome Temp. 71°F

Focus

Dome Temp. 69°F

1: 51 E

Transparency Conditions Clear (some haze to the north)

(Clouds at 02h)

Kids with firecrackers kept me awake

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 A 0° 51' E	+36° 09'	3"	F0	A0	5-5-5	H (broken spec) - 4x100/200	BROKEN FINE
10 B 02° 53' W	+10° 11'	2-4"	F6	K0	5-5-5	Sc* (gain off) clouds too i.e. ~ 400 counts) 4x100/345	V. SL. WEAK
B	<u>no filter</u>				5-5	Complete cloud cover by 02 ^h 36 (couldn't get std vel) <u>Closed by 03^h</u>	SL. C. TO VIOLET
		2 5.79 23.72 2.157					

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Date 20-21 May Tues-Weds Observer Ri. Sc 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.	
32148	p leo	10 ^h 27.5	+09° 47'	6-12	II 2-0	9L		21:03 ⁽²²⁾	21:25	A	
32149	p leo HD 130023	"	"	"	"	"	55°F	21:27 ⁽³⁹⁾	22:06	B	
32150	α Ser	¹⁹⁷⁰ 15 42.8	¹⁹⁷⁰ +06 31	6-12	II 2-0	9L		23:15 ⁽⁶⁵⁾	0:20	C	
32150 T1	calibration	step wedge for plates 32148 - 32150							21 May 1969		

Dome Temp. 54°F

Focus

Dome Temp.

Transparency Conditions

Both High Voltages to Exp. Mts. were off

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
25	A	2 ^h 30 ^m W	+09 30	3"	3.85	B156	4-4-4 L.H. side = ord. - double image used with 40/35	FINE
06.	B	3 ^h 11 ^m W	"	"	"	"	4-4-4 L.H. = ord. 450. with 40/35	FINE
							← (DuPay checked out scanner)	
20	C		5-6"	3.8	K22III	5 sec. - tilt on 3000A - 700 volts, no filter	0:20 long clouds 10/14	very .WEAK
							closed up - clouds.	

143

Date MAY 22-23 THUR - FRID Observer HD/R/L/G2 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.
32151	HD 28661	14 ^h 33.1	+36° 22'	G12	IIaO	009	52°F	23:10 ⁽⁷²⁾	00:22	A
32153	UX HER	17 ^h 49.7	+16 58'	"	"	013	"	00:56 ⁽⁸⁹⁾	02:25	B
32152 T1	calibration step wedge for plates 32151, 32152							23 May 1969		

Dome Temp. 56°F

Transparency Conditions

Focus

Dome Temp. 48

Mag Time S.T.	P.V.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
30	A	01 17E	36 05		7.0	A0	5-10	Sky cloudy over	400/109 (GUIDING)* SL-WEAK
49	B	01 45W	16 58	2	9.0?	A0	5-5-5	88 Bin. Sky clearing	800/250 V. SL-WEAK
	B						5-5	no filter	C. TO VIOLET
								* WEAK COMPARISON	

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Date *Sun Mon May 25-26 1970* Observer *Ri. Fa. (Su)* 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.
32156	HD 128661	14 33.1	36 32	G12	IIaO	9L	52°F	20:47	22:38	A
32157	HD 149403	16 32.0	29 56	G12	IIaO	135	52°F	22:49	03 49	B
32157F	focus test	out of focus			103a E		40°F			B
32157 T1	calibration step wedge for plates 32153 - 32157							26 May 1970.		

Dome Temp. 45

Transparency Conditions Good

Focus

Dome Temp. 39

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8	A	0° 0'	+36° 04'	~3"	7	A0	5-5-5		400/200 FINE
49	B	3° 13' W	29 49	~3"	8.9	F7V	5-5-5	Sec. Std. Vel	800/336 * FINE
	B						5-5	no filter	C. TO VIOLET
								* FLEXURE; N.G. FOR RAD. VEL.	
								RESET FOCUS: 75-R from 50-R	

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Date *Mon Tues May 26-27 1969* Observer *Ri Hr* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
32158	HD 128661	14 33.1	+36 22	G12	Ha0	9L	50°F	20:53 ⁽⁵⁴⁾	21:47	A 0'47E
32159	HD 160952	17 37.7	+29 39	G12	Ha0	13S		21:58 ⁽³⁵⁾	23:31	F 22'08E
32160	UX Her	17 49.7	+16 58	"	"	13S		23:51 ⁽²²⁾	03:13	C 0'22E
32160F	focus test		out of focus		103a F		45°F			B
32160 T1	calibration step wedge for plates				32158 - 32160			27 May 1969		

Dome Temp. 51°FTransparency Conditions Good

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Focus

Dome Temp. 44°F

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
47	A 0 ^h 47E	+36° 06	3	7	A0	8-8-8	Ecl. Bin	400/200 FINE
3 31	B 2 ^h 08E	+29 36	2	9.04	G8III	8-8-8	Sec. Std. Vel. field drawn	800/350 V.SL.WEAK
3 13	C 01 ^h 22W	+16 58		9.0 -9.8	A0	8-8-8	Hd Ecl. Bin. PH. "fell apart while unloading	800/350 V.SL.WEAK
3						5-5	no filter	- SL. C TO VI.
							FLEXURE DURING EXPOSURE / PLATE N.G. FOR RADIAL VELOCITY	
69							FOCUS SET : TO 100-R (OR 0-R) FROM 75-R.	

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Date Tues-weds. May 27-28 Observer ScTn 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.
32161	β Lyrae	18 46.4	+33 15	G12	IIa-O	9L	56°F	01:15 ⁽¹⁾	01:22	A
32162	"	"	"	"	"	"	"	01:25 ⁽¹²⁾	01:37	B
32163	"	"	"	"	"	"	"	01:40 ⁽²⁾	2:01	C
32168F	focus test	out	out	in	in	103u E 5 ^s -5 ^s	no filter 55°F			B
32163 T ₁	calibration step wedge for plates 32161-32163. 28 May.									

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Date May 28-29 ^{wed Thurs} Observer Tr, T_a Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
32164	HD 183056	19 22 33	36° 9'	G12	IIaD	9.02	72°F	01 ^h 40' ⁽²⁾	02 ^h 14'	A
32165	HD 170000	18 22 12	71° 17'	G12	IIaD	9L	"	02 ^h 38' ⁽⁹⁾	02 ^h 47 ^m	B
32166	HD 177517	18 59 58	-15° 44'	G12	"	9L	"	03 ^h 04' ⁽⁴⁾	03 ^h 48 ^m	C
32166 ^{F1}	Focus Test				1034E		72°F			?
32166	T1	calibration steps wedge for plates				32164 - C			29 May 169	
32166	F2	focus test in in/out out				1034E	9	73°F		B
32166	F3	focus test in in/out out				1034E	9			B
32166	F4					1034E	9	75°F		B

Dome Temp. 73°F at 02^hTransparency Conditions Clouds haze etc

Focus

Some clear patches at 0^h
later, rather thick haze
bright stars observableDome Temp. 77°F

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
14' A	01 ^h 01 ^m E	+36° 15'	2" 3"	4.75	A si	8-8-8	Ir*	2x100/110 *
4' B	0 ^h 35 ^m W	+71° 19'	2	3.85	A0 si	12-12	Ir*	2x100/80 OK
48' C	0 ^h 54 ^m W	-15° 41'	3" = 4"	5.71	A0 si	8-8-8	Ir* exposure meter didn't balance well	2x100/80 SL. WEAK
?							in-in-out out (no filter 5-5) slow motion with red light on is erratic.	BADLY C.TD RED.
							* Emulsion seems to be wet (be careful on developing I guess)	BADLY C.TD RED
							no change from 32166 F1 5/5 focus set from 100-R to 85-R	C.TD RED CUTOFF
							* SLIT TOO LONG; PART OF FC COMPARISON	
							FOCUS SET TO 20-R (FROM 85-R)	V. SL. C TO RED
							5/5	
							FOCUS SET TO 5-R. (FROM 20-R)	

NOTE: G 12 PLATES IN THE DOME
ARE THE ONLY PLATES LEFT.

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Date May 29-30 Thurs - Fri Observer Ho, Gz, Te 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.
32167	HD 128661	14 ^h 33.1	+36° 22'	G12	Ilao	9L	70°F	21 ^h 02 ^m ⁽¹⁰²⁾	22:44	A
32167 F	Focus Test			G40	"	13 L	70°			A
32168	UX Her	17^h 49.7	+16 58'	G40	"	13 L	70°F	23:20		C
32167 F2	Focus						70°			C
F3										B
F4										A
F5										C
F6										A
F7										B
32168	UXHER	17 ^h 49.7	+16° 58'	G40	Ilao	13 L	65°F	01 ^h 41 ^m ⁽⁴⁷⁾	02:28	C
32169	MY Cyg	20 ^h 16.2	+33° 38'	"	"	"	62°F	02:40 ⁽³⁹⁾	03:10	B
32170	HD 187691	19 ^h 46.2	+10 10	"	"	"	62°F	03:19 ⁽³⁾	03:21	A
32170 T1	calibration step wedge				Ilao (240C148)			32168 - 32170	30 May 69	
32170 F1	focus test			G12	103a E			(30 May / 5c)		

Dome Temp. 72°F

Transparency Conditions some haze to South

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 20' W	+36° 04'	3"-4"	7.0	A0	8-8-8	ECL. BIN. (Meter out of balance) 400/200 * COMP. VERY STRONG	* FINE
		Focus set at 47 (according to old curve)			5-5	no. 1 G12 filter	Focus very much c. to vi.
Focus 47	+17° 00'	3-4"	9.0	A0	8-8-8	G40 filter	400/20
		Focus 47			5/5	G12 filter	
		28			5/5	↓ mixed? } Setting for 65°F in 40	
		38			5/5		
		41			5/5		
		41			5/5		
		31			5/5		
00 48W	+16° 59'	3-4"	9-9.8	A0	8-8-8	G2* } bumps 4x100/20 wedge } 200/15	FINE
00 55E	+33 51'	"	8.7	A5	8-8-8	G2*	800/40
00 15E	+10 23	"	5.8	F8	8-16	STD. VEL. *	200/15
						G-40 left on, 2 G-12 plate holders loaded & generator left on & plate were washed	FINE

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Fri - Sat

Date May 30-31Observer L. T.

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.
32171	HD 123423	14 ^h 02.5	-10° 41'	G90	Ilford	13L	67°F	21 04 ⁽⁶⁾	22 09	A
32172	HD 132737	14 ^h 55.6	+27° 33'	"	"	"	65°F	22 20 ⁽³²⁾	22 52	C
32173	HD 140913	15 41.1	28 47	"	"	"	63°F	23 17 ⁽³³⁾	23 50'	E
32174	UX Her	17 ^h 49.7	+16° 58'	"	"	"	61°F	0 ^h 09 ⁽⁴³⁾	0 ^h 52'	A
32175	MY Cgg	20 ^h 16.2	+33° 38'	"	"	"	60°F	01 ^h 09 ⁽²⁴⁾	01 ^h 33'	B
32176	DM Del	20 ^h 34.9	+14° 04'	"	"	"	"	01 51 ⁽²⁷⁾	02 ^h 18'	C
32177	HD 181603	19 ^h 16.0	+20° 41'	"	"	"	56°F	02 41 ⁽⁵⁹⁾	03 ^h 30'	A
32177 F1	Focus Test						56°F			B
T1	calibration for plate	32171	32177	June 2, 1969						
	2 June 1969									
F2	F2						63.5°F			A
F3	(discarded)						"			B
F4	(discarded)						"			C
F5	(discarded)						"			A
F6	(discarded)						"			B
F7	F3						"			C

41.4 from graph
(40.0 line)

Dome Temp. 66°F Transparency Conditions Clear

Focus

Hazy by $0^{\text{h}} 30'$ Dome Temp. 54°F

log Time S.T.	PJ	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
09	A	0 20W	$-11^{\circ} 01'$	3"	8.5-9.2	F5	10-10-10	Hd* Finder fld drawn } 8x100/60	WEAK
52	C	0 00W	+27 17	3"	9.03	K01V	10-10-10	Sec Std Vel } 40 setting } 4x100/40	(GUIDING) SL.WK
50'		0" 24'W	+28° 34'	3"	8.81	G0V	10-10-10	Sec Std Vel } 4x100/30	WEAK
52	A	0" 45'E	+16° 58'	2"	9.0	A0	10-10-10	Gz* (perhaps some @ spect) } 8x100/40	WEAK
33'	B	02" 30'E	+33° 51'	2"	8.7-9.0	A5	10-10-10	Gz* (changed to 39 setting) } 4x100/20	WEAK
12'	C	02" 03'E	+14° 19'	2"	8.5-9.0	A3	10-10-10	Hd* (fld drawn) } 4x100/20	WEAK
30'		0" 28'W	+20° 51'	3"	9.1	G8V	10-20-15	Rad Vel Plate) } 4x100/37	SL.WK
	B							G10 Filter in-in-out-out 5/5 (39 focus setting)	CENTRE TO VIOLET
								(what's in the G12 box I found in the frig that has another one in it - plates in frig)	127
	A							G-12 filter	
								focus 39.0	5/5
								" 40.0	5/5
								" 41.0	5/5
								" 42.0	
								" 43.0	
								" 44.0	
								(Tonight's plates in (G40 CALIBRATION PLATES) CENTRE TO VIOLET	
								unexposed box in lower frig)	But focus for this, temp of air around?
								sorry (didn't notice the 15.6.15 comp note till the last plate)	
									89.0LY C. TO VIOLET

Dome Temp. $56^{\circ} F$

Transparency Conditions

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9	1:3	$+43^{\circ}$				8/5 ←	0.12 filter focus 31.0	V. SL. C. TO RED
							33.0 ← comparison	GOOD
							36.0 ← barely visible	V.O. SLIGHT. C. TO VIOLE.
							39.0	
							42.0	
							down light off.	
	focus	32.0				10/5		GOOD
	focus	29.0				10/5	} no filter	C. TO R
	focus	35.0				10/5		C. TO UT.
	focus	31.0						SL. C TO R
	focus	33.6 ←					} from graph 11921m sun	GOOD
	focus	36.2						SL. C TO UT.
		20.0					} full aperture	
		25						
		20						
		35						
		40						
		45						

Date 6-7 June 1969/Fri-Sat Observer T. R. R. R. Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
32178	HD 122546	13 ^h 57. ^m 5	+50° 37'	G-40	II a 0	13L	58°F	21:04	22:02	B
32178	FI						57°F			C
32179	HD 140913	15 ^h 41. ^m 1	+28° 47'	G-40	II a 0	13L	55°F	22:23	23:30	A
32180	UX Her	17 ^h 49. ^m 7	+16° 58'	G-40	II a 0	13L	55°F	00:20	01:05	C
32181	MY Cyg	20 ^h 16. ^m 7	+33° 38'	G-40	II a 0	13L	55°F	01:19	01:37	A
32180	FI						55°F			B
32182	DI Del	20 ^h 34. ^m 9	+14° 04'	G-40	II a 0	13L	54°F	01:54	02:29	C
32183	HD 185055	19 ^h 32. ^m 3	+33° 32'	G-40	II a 0	13L	54°F	02:53	03:12	B
32184	HD 185055	19 ^h 32. ^m 3	+33° 32'	G-40	II a 0	13L	53°F	03:17	03:39	A

Dome Temp. 59°F

Transparency Conditions Hazy

Focus

clear by 0^h 30'

Dome Temp. 52°F

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 B	0:45 W	+50° 17'	2"	9.3	gK	15-15-15	Rad Vel Pl (forgot fld flattener) 400/37	N.G.
C							5/5 G12 Filter (35 setting)	FINE (GUIDING)
30 A	0:30 W	+28° 34'	2"	8.81	G0V	15-15-15	HdSSV. 400/40	V. SL. WK
03 C	0 ^h :09 ^m E	+16° 59'	2"	9.0	A0	15-15-15	G2 Ecl. Bin. 400/25	(GUIDING) FINE
37	1 ^h :57 ^m E	+33° 57'	3"	8.7-9.0	A5	15-15-15	G2 Ecl Bin 400/25	FINE FOR COMP. IS AWFULLY STRONG
							5/5 G12 Filter (34 setting)	FINE
21 C	1 ^h 25 ^m E	+14° 19'	3"	8.5	A3	15-15-15	G2 Ecl Bin. 400/25	? PLATE IN TILTED?
12	0 ^h 21 ^m W	+33° 42'	2"	8.4	K0III	15-15-15	Rad. Vel. Pl. (Probably fogged. Forget to cap immediately) 400/50	FIELD FLATTENER?
39 A	3 ^h 48 ^m W	+33° 42'	3"	8.4	K0III	15-15-15	Rad Vel Pl. 400/50	FIELD ? FLATTENER
							<p>Since last focus test G40 filter wasn't in its fully inserted position, because of a groove in holder (didn't notice in the dark. Lit mag obliterate comp.)</p>	FORGOT TO REMOVE G-12 FILTER AFTER FOCUS TEST ??

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Sun - Mon

Date June 8-9 Observer W. J. 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.
32185	HD 128091	14 29.9	+58° 51'	G40	D ₁₀ O	13L	55°F	21 ^h 31 ^m	22:30 ⁽⁵⁹⁾	A
32185 F	Focus Test			"	"	13L	53°F			B
32186 F	Focus Test			"	"	13L	53°F			C
32186	HD 123423	19 ^h 02.5	-10° 41'	G40	"	13L	53°F	23 ^h 18 ^m	0 ^h 18 ^m	B
32187 F	Focus Test			"	"	13L	50°F			C
32187	UX Her	17 ^h 49.7	+16° 58'	G40	D ₁₀ O	13L	50°F	0 ^h 57 ^m	2:54 ⁽¹¹⁷⁾	C
32188	HD 184467	19 ^h 29.5	+58° 24'	G40	D ₁₀ O	13L	49.5°F	03:11	03:23 ⁽¹²⁾	A
32188 T1	calibration step wedge for plates								9 June	

Dome Temp. 54°F

Focus

Dome Temp.

Transparency Conditions Clear in North-west + First

Photometric after midnight.
(milky way clear)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 50 ^m W	+58° 34'	4-3" 9.2	9K	15-15-	Std Vel Plate	4x100/37	(GUIDING) (SL WEAK) FINE (FOLG. ED) C.T.O.R
	setting 34				5/5 G12 Filter		
	setting 33				5/5 G12 Filter		FINE
03 ^h 04 ^m W	-10° 57'	5-6" 8.5-9.2	F5	15-15-15	GZ* spot Bin (cut short by limit)	9x100/20	SL. WEAK
	setting 31	(G12 Filter)			5/5 (some doubt about this star as dec		(fogged??) SL. C.T.O.R.
					was out 4' north, but there is ^{possibly wind + haze} nothing		
1 ^h 55 ^m W	+16° 58'	3" 9.0-9.8	A0	15-15-15	GZ* (very faint) ?	8x100/50	(SL. GUIDING) FINE
					started very faint count rate increased by 4X photometric weather + background		
0 ^h 45 ^m W	+58° 31'	3" 7.5	K5	15-15-15	Std Vel	4x100/50	FINE

Dome Temp. 69°F Transparency Conditions *Excellent*

Focus

Dome Temp. 57°F

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Scanner observations until 23 ^h	
B } 1 ^h :12 W	-25° 07'	~4"	5.80	B8p	8-8-9	Bu ⁺	Exposure meter not working	SL. WEAK
B	Setting 34					5/5	G12 Filter * Focus Test to check if focus out from changing camera * (Remind Gerry or Frank about meter trouble) - VOLTAGE WAS SET AT 300	U.S.C. CO TO RSD

JUNE INST VISITORS TO 21:30

PENCILS REQUIRED FOR 74" DOME

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Date June 10-11 Tues-Weds Observer Sc-Tw-Mcc 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.
32190	α Ser.	¹⁹⁷⁰ 15 ^h 42.8	¹⁹⁷⁰ +06° 21'	G-12	II ₂ -Q	9L	66°F	21:30 ⁽¹¹⁶⁾	23:26	A
32190 F1	focus test	out out / in in		G12	1030 E	9	63°F			B
32191	HD 123821	14:04.8	52° 04'	G40	II ₀₀	13L	"	23:55 ⁽¹¹⁷⁾	01:35	A
32192	HD 171232	18 ^h 28.5	+25° 25'	G40	II ₀₀	13L	60.5°F	1:50 ⁽¹¹⁸⁾	02:08	C
32191 F1	focus test	out out / in in		G40	II ₀₀	13L	60.5°F			B
32193	Nova Del	20 ^h 37.7	+18° 48'	G40	II ₀₀	13L	60°F	02:28 ⁽¹¹⁹⁾	02:55	A
32194	DM Del	20 ^h 34.9	+14° 04'	G40	II ₀₀	13L	59°F	03:01 ⁽¹²⁰⁾	03:24	C
32194 T1	calibration	step	ridge	for #	32190			12 June 1969		
32194 T2	"	"	"	"	plates	32191-32194		"		

Dome Temp. 66°F

Transparency Conditions CIRRUS

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Focus

Dome Temp.

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26	10:41	+06° 33'	3"→2"	2.8	K2 III	10-10	titted grating - λ 2300 - exp. ltr. 700V 700V 10/50	WEAK
						6/4	← NO FILTER; GRATING BACK TO NORMAL	
35	10:43:34	+51° 46'	3"	9.4	G8 III p	15-20-18	← G40 FILTER Finder fld drawn from 36.6 8x100/100	FINE * SL. WEAK
08	0":37" W	+25° 30'	4"	8.66	G8 III	20-35	Sec Std Vel 4x100/50	FINE
		Setting 35.6				6/4	G-12 FILTER	FINE
55	0":42" W	+19° 04'	2"	27.5	2F57	17-15-16	(Finder fld drawn) 4x100/45	* FINE
24	0":12" E	+14° 20'	2"	85-9.0	A3	17-35	G2* ecl Bin 4x100/30	FINE

* FE COMP. A BIT WEAK - COUNT A LITTLE MORE SLOWLY.

Dome Temp. 55°F

Transparency Conditions Cloudy with open patches at start (ca 0:30)

Focus

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Dome Temp. 53°F

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
33	A 01 ^h 25 ^m W	+02° 50'	~4"	6.0	K516	8-8-8	BR * (cut very short) (Finder fld Diarr) 4x100/400 should be 600 counts. *	WEAK
B	(in - in - out out)					5/5	no filter	V.S.L.C TO VIOLET
							* M.W.P. 2: 10 MIN @ 6E F (INSTEAD OF 7.0)	

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NEWTONIAN

Date June 16-17, 1969 (Mon/Tues) Observer HSH, Co, L, Ri 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.
32196	NGC 5904	15 17.1	¹⁹⁷⁰ 02 12	Newt	103a0			9 24	9 26	1
32197	5634	14 28.0	-05 51		103a0			9 31	9 43	2
32198	5053	13 14.9	17 51		"			9 54	10 04	1
32199	5634	14 28.0	-05 51		"			10 15	10 27	2
32200	5904	15 17.1	+02 12		"			10 30	10 32	1
32201	5897	15 15.3	-20 53					10 38	10 48	2
32202	5053	13 14.9	+17 51					10 55	11 05	1
32203	6171	16 30.8	-12 58					11 19	11 33	2
32204	6366	17 26.1	-05 02					11 42	11 52	1
32205	5053	13 14.9	17 51					00 08	00 14	2
32206	6171	16 30.8	-12 58					00 22	00 34	1
32207	6356	17 21.8	-17 47					00 38	00 46	2
32208	6093	16 15.2	-22 56					00 53	01 01	1
32209	6366	17 26.1	-05 02					01 10	01 18	2
32210	6171	16 30.8	-12 58					01 26	01 38	1
32211	6356	17 21.8	-17 47					01 43	01 51	2

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Dec. +4m

Hr could we have a red lamp for the dome

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6	00:26					2m	focus on α Boo unguided	RIGHT STREAK
93	04 37W					12m	HSH guided	
04	04 12W					10m	Cc guided	
27	04 21W					12m	HSH guided	
32	04 38W					2m	HSH guided	
48	04 56W					10m	HSH guided	
05	04 12W					10m	Cc guided refocus 8.0ph	
33	04 24W					14m	Cc guided	
52	04 11E					10m	HSH guided	
014	04 23W					10m	Cc guided	
034	04 31W					12m	Cc guided	
046	04 48W					8m	HSH guided	
0101	04 08W					8m	HSH guided	
0118	04 15W					8m	HSH guided	
0138	04 31W					12m	Cc guided	
0151	04 53W					8m	HSH guided	

Date June 16-17 (contd.) Observer HSH, C₂L, Ri Julian Day Beel

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
32212	NG.C 6171	16 30.8	-12 5.8	Nord	103a0			01 58	02 10	1	2103W
32213	6535	18 02.3	-00 18					02 18	02 28	2	49W
32214	6838	19 52.2	+18 41					02 35	02 39	1	110W
32215	6626	18 22.8	-24 54					02 54	02 57	2	157W
32216	6656	18 34.5	-23 58					03 01	03 05	1	154W
32217	7089	21 31.9	-00 57					03 10	03 10 ³⁰	2	157E
<p>Tues-Wed June 17-18 Rain and clouds HSH & Ri</p> <p>Wed-Thurs June 18-19 ^{HSH, Ri, She} Jupiter, crescent moon, Arcturus, Mars, Vega visible at times in 1st half. Nothing else. Then solid cloud.</p> <p>Thurs-Fri June 19-20 Heavy clouds, a few very fleeting ^{small} breaks. HSH, Ri, Hf</p>											

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Exp. Time I.S.T.	PL	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	1	3403W					12m	Cc guided	
28	2	1449W					10m	HSH guided	Astronomical twilight starting
39	1	0410W					4m	HSH guided	
57	2	1457W					6m	Cc guided	
05	1	1454W					4m	HSH guided	
10 ³⁰	2	0457E					30s	unguided	A very good night
								*** DUST CAUSING PINHOLES IN THE EMULSION, AGAIN. → BETTER USE THE BRUSH PROVIDED.	

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Dec +4m

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45	1	3° 4' W.				2m	after heavy clouds first half, partial clearing 12:30 opened Focussed on η Sire Focus excellent without adjustment	OK
00 54	2	?				12m	Exposure stopped because of clouds Heavy clouds everywhere now, including zenith This night is a lost cause. Closed up 1:15. P. HV 2 loaded unexposed	? NO CLUSTER

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Date 20-21 June 1969 (Fri-Sat) Observer Cc, Ri, Bū Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
32220	NGC 5904	15 17.1	¹⁹⁷⁰ 02 12	Dupl	103 _u 0			21:06	21:08	1	0 30 E
32221	5634	14 28.0	-05 51					21:20	21:30	2	0 41 W
32222	5053	13 14.9	17 51					21:38	21:46	1	2 10 W
32223	5634	14 28.0	-05 51					21:53	22:05	2	1:16 W
32224	5904	15 17.1	02 12					23:07	23:22	1	1:44 W
32225	5897	15 15.3	-20 53					22 16	22 26	1	0 50 W
32226	5053	13 14.9	+17 51					22 48	22 56	2	2:19 W
32227	5904	15 17.1	02 12					23:27	23:30	2	1:53 W
32228	6171	16 30.8	-12 58					23:38	23:51	1	0 59 W
32229	5053	13 14.9	+17 51					23:59	00:08	2	4 33 W
32230	5904	15 17.1	02 12					00:15	00:25	1	2 09 W
32231	6171	16 30.8	-12 58					00:39	00:52	2	2:02 W
32232	6356	17 21.8	-17 47					01:07	01:15	1	1 33 W
32233	6535	18 02.3	-00 18					01:20	01:30	2	1 07 W
32234	6171	16 30.8	-12 58					01:43	01:55	1	3 06 W
32235	6356	17 21.8	-17 47					02:01	02:09	2	2 07 W

Dome Temp. 58°F

Transparency Conditions Clear

Focus

Dome Temp.

Dec +4m

ng Time U.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
08	0:30 E					2m	focus too ^{exp. time} unguided	
30	0:41 W					10m	difficultly in finding cluster because of brightness of sky.	
46	2:10 W					8m	exposure shortened by 2 min because moon close by	
05	1:16 W					12m		
22	1:44 W					15m	exposure taken to plate limit for comparison with 24" image tube	
26	0:50 W					10m		
56	3:19 W					8m	refocus * 50 ph exposure again shortened by 2 min because moon close by.	
30	1:53 W					3m	plate taken for comparison with 24" image tube	
51	0:59 W					13m		
08	4 ^h 33 W					9m	unexposed box ^{perhaps?} exposed to a bit of light at this pt ←	MARKS OK
25	2 ^h 48 W					10m	Plate for comparison with 24" image tube	
52	2:02 W					13m		
15	1 ^h 33 W					8m		
30	1 ^h 07 W					10m		
55	3 ^h 04 W					12m		
09	2 ^h 27 W					8m		

Dome Temp.

Transparency Conditions

Focus

Dome Temp. 48°F

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. Exposure	REMARKS	Quality
2:24	1 ^h 24 E					4 min		
2:39	2 0 ^h 26 W					4 min		
2:50	1 ^h 56 W					6 min		
2:58	2 ^h 07 W					4 min		
3:06	0 ^h 45 E					30 sec.	unguided	

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Date 25-26 June 1969 Observer Ri - ESN 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.
32241	HD 135752	15 11.5	+33 41	G12	#a0	9L	66	21:10	21:27	A
32242	HD 145931	16 08.5	+42 38	B12	"	9L		21:37	23:53	B
32242F1	focus test	cont'd from			*103aE		63			T
32242 T1	calibration step wedge for plates				32241, 32242			26 June 1969		

* WHEN THESE PLATES ARE USED UP, RETURN TO #100 FOR FOCUS TESTS.

Dome Temp.

Transparency Conditions *lazy*

Focus

Dome Temp.

ing Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
27	0 13 W	33 26	~3	4.42	G8II	8-8-8	BK	40/28 SH. WEAK
53	1 42 W	42 26		7.38	K4II	8-8-8	" clouds at 23:45 5-5 m filter	40/272 WEAK OK
09		EMULSION # 2AOCIF9						

1:55

Dome Temp. 75°F

Focus

Dome Temp. 70°F

Transparency Conditions Hazy

Less humid than yesterday

Heavy Fog by 03 h

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	01 ^h 50 ^m W	+36° 47'	3"	5.1	B8h	8-8-8	Spect Bin 2x100/190	(GUIDING) SL. WEAK
			2"	8.7-9.0	A5	8-	Hd* Tel Bin (too faint) 4x100/180	
55	01 ^h 15 ^m E	+38° 07'	3"	6.3	F216	8-8-8	Fernie* [bad field, one drawn] 4x100/325	VERY WEAK
22	02 ^h 44 ^m W	+10° 34'	2"	4.15	K3D	8-16	Bright std. Nel. 4x100/35	WEAK
09	02 ^h 17 ^m W	+38° 15'	3"	5.7	B6-7	8-16	Hube* 2x100/120	(GUIDING) WEAK
						5-5	no filter	FINE
							Exposure meter balance off	

Dome Temp. 66°F

Focus

Dome Temp.

Transparency Conditions Clear after 22^h
Somewhat hazy at 23^h

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g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	00 ^h 55 ^m W	+36° 45'	5"	5.1	B8h	8-8-8	(Very Bad seeing) 200/90	SL. WEAK
25	00 36 E	-10° 57'	3"	5.2	9G7	8-8-8	Std Vel - CLOUDS AT 23:25 - 4x100/137	VERY WEAK
		in - out out				5/5	no filter	FINE

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Date June 29-30 Observer Bü, Ta, 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.
32249	3 Sco	15 ^h 48 ^m .7	-24° 57'	G12	D ₀₀	9L		21:01	ca. 21:15	A
								21:31	22:07	
							(20) total	22:16		
							66°F	22:30	22:50	
32250	HD 139892	15 ^h 35 ^m .6	+36° 58'	G12	D ₀₀	9L	66°F	23:02	23:20	B
32251	γ Aql.	19 ^h 41 ^m .5	+10° 22'	"	"	"	64°F	23:30	23:36	C
								23:50	00:02	
32251 F	Focus Test			G12	D ₀₀	9L	64°F			B

Dome Temp. 67°F

Focus

Dome Temp. 63°F Transparency Conditions *Some cloud**then lots of cloud at 21^h:15^m**Clear again at 22:30**Clouds at 23:30 complete overcast*

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ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 ^h 13 ^m W	-15° 07'	4"-6"	5.80	B8p	8-10-6	Bü* (stopped for a while; cloud) (restarted) (at ca. 21:15) ^{4x100} / 139	VERY WEAK
01 ^h 56 ^m W	+36° 45'	3"	5.1	B8n	8-8-8	Spect Bin ^{2x100/90}	SL. WEAK
	+10° 33'	~3"	6.15	K3II	8-8-8	Bright lth. Nil. ^{40/35}	WEAK
01 ^h 27 ^m E						(stopped for a while; cloud)	
					5/5	Closed at 01 ^h overcast still	FINE

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Dome Temp. 69°F

Focus

Dome Temp. 62°F

Transparency Conditions ... Cloudy in early evening;
 clear patches at about 01:00 EST.
 quite windy: cleared quite well at ca. 2:00 EST

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
156 A	00 ^h 03 ^m E	+38° 07'	~4-5"	6.3	F2T6	8-8-8	Ferne *	2x100/195 WEAK
09 B	00 ^h 01 ^m E	-5° 41'	~3"	3.73	G0T6	8-8-8	Bright 5th. Ucl.	4x10/28 U.S.L. WEAK
	00^h 22^m	~9"	4.14	B8T6	8-	Bu #	Seeing too bad. Sunrise interfered.	3x100/195
B	in in / out out			no filter		5-5		FINE

Dome Temp. $64^{\circ}F$
 Focus
 Dome Temp.

Transparency Conditions *Excellent*
 Trouble with shutters fuse blown
 fixed by Gerry
 [light dimmer does not work correctly]

BUILD MUST
 BE $\geq 100W$ TO
 WORK PROPERLY

Exp. Time S.T.	PA	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	A	$2^{\circ} 45' W$	$+06^{\circ} 23'$	2-3"	2.8	K27II	8-8-8	tilt for 3700 700 volts	$19/46$ weak
20	B	0°	$+33^{\circ} 19'$	2-3"	3.4	F8p	10sec	double image, out on left. broken	$40/56$ FINE
22	C	$0:27W$	"	"	"	"	"	45°	$40/56$ FINE
23		$0:53W$	"	"	"	"	"	double image	$40/36$
01	C	$2^{\circ} 11W$	$+40^{\circ} 27'$	"	4.5	M5II	10sec	double image	$40/80$ SL. WEAK
00	F	$0^{\circ} 5W$	$+46^{\circ} 00'$	"	4.4	B3I2	10sec	"	$40/56$ SL. WEAK
40	A	$0^{\circ} 28' W$	$+45^{\circ} 10'$	"	1.3	CH2e	10sec	"	$40/36$ FINE
01	C	$0^{\circ} 25' W$	$+42^{\circ} 23'$	"	4.9	B3e	"	"	$40/56$ FINE
29	A	$1^{\circ} 3' W$	$+37^{\circ} 57'$	"	4.4	Blog	"	"	$40/56$ SL. WEAK
	B					no-filter	-5-5		FINE
69								#2A0C1E9 (lambdicon #)	

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Date *Wed - Thurs*
*July 2-3 69*Observer *T. Wi*

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.	
32263	HD135722	15 ^h 11.5 ^m	+33° 41'	G12	Il a 0	9L	67°F	21:10 ⁽⁷⁸⁾	21:20	A	
32264	HD145931	16 ^h 06.5 ^m	+42° 38'	G12	II a 0	9L	"	21:38 ⁽⁸²⁾	22:40	B	
32265	HD175588	18 ^h 51.0 ^m	+36° 47'	"	"	"	64°F	23:03 ⁽⁸⁵⁾	23:18	C	
32266	"	"	"	"	"	"	"	23:20 ⁽⁸⁵⁾	23:35	B	
32267	HD182762	19 ^h 21.1 ^m	+19° 37'	"	"	"	63°F	23:48 ⁽⁷⁹⁾	01:07	A	
32267 F	Focus						62°F			B	
32267 71	calibration strip wedge for plate 32263 - 32267								3 July / 69		

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VISITORS Schedule

No. Fr. F6 · 105 people
viewed Jupiter, Mars

(Sat-Sun)

Date July 5-6, 1969

Observer T. B. 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.	F
32268	HD 183589	19 ^h 25 ^m 1 ^s	+02° 41'	G12	IIaO	9XL	66°F	22:49	02:46	A
32269	HD 203156	21 ^h 15 ^m 4 ^s	+37° 49'	"	"	9XL	60°F	02:54	03:55	B
32269 F	Focus Test			"	"		58°F			B
32269 T1	calibration step wedge for plate				32268, 9			7 July 1969		

Dome Temp. $66^{\circ}F$ Transparency Conditions *Some high cloud
but clear*

Focus

Dome Temp. $56^{\circ}F$

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
46 A	$1^h:55^m W$	$+02^{\circ}52'$	$3"-4"$	6.0	K516	8-8-8	Bakus* (interfered by cloud often) 4x100/650	* V. SL. WEAK
55 B	$01^h:16^m W$	$+38^{\circ}08'$	$3"$	6.3	F216	8-8-8	Femia* (cut short by dawn) 4x100/380	* FINE
			<i>in-in/out-out</i>			$5/5$	<i>no filter</i>	FINE
69		<i>mwp-2 / 9 min</i>					(possible solar lines) amine 4:42, should be OK	
							* SLIT TOO LONG; PART OF EC COMP MISSING	

201

Date July 7-8, Mon-Tues, 1969 Observer JF, 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
32270	HD 171232	18 ^h 20.5	+25° 25'	G12	IIaO	13s	61°F	21:25 ⁽¹⁵⁾	00:10	A
32271	HD 203156	21 ^h 15.4 ^m	+37° 49'	G12	IIaO	9x1	60°F	0:21 ⁽⁴⁹⁾	01:10	B
32272				"	"	13s	59°F	01:23		C
32272	HD 204867	21 ^h 26.3	-6° 01'	G12	IIaO	9L	58°F	01:50 ⁽³⁾	01:59	A
32273	Nova Delphinus	20 ^h 37.7	+18° 55'	"	"	9L	57°F	02:14 ⁽⁹⁾	03:44	C
32273F	Focus Test			"	"	9L	55°F			B
32273 T	calibration step wedge for plates 32270 - 32273 F July 1969									

Dome Temp. 63°F Transparency Conditions *Some high cloud
good seeing*

Focus

Dome Temp. 55°F

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
A	0:24 W	$+25^{\circ} 29'$	2"	8.66	G8	8-8-8	Secondary Slit Vel. * 4x100/250	(GUIDING) FINE
10	01:22 E	$+38^{\circ} 06'$	2"	6.3	F2 Ib	8-8-8	Ferrite. 4x100/920	(SLIGHTLY) FINE
C			2"	9.69	K1/4	8	Exposure stopped after 10 counts too slow. 4x100/300	
59	0:43 E	$-05^{\circ} 42'$	3"	3.73	G0 Ib	8-16	Bright Slit. Vel. 40/33	FINE
44	01:50 W	$+19^{\circ} 02'$	2"	7.2	F	8-8-8	some cloud (cut short) very 5/5 no filter 4x100/100	FINE. SHOWS EMISSION STRUCTURE
		<i>in and out out</i>						FINE
		<i>mwp - 2/9 min</i>					<i>Desk lamp doesn't work (bulb is good)</i>	
							* FLEXURE	

Tues - Wed
 Date July 8-9 1969 Observer T. R. D. T. J. 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.
32274	HD 171586	18 ^h 30.6	+4° 51'	G12	Ilao	9L	67°F	21:18	22:24	A
32275	HD 17000	18 ^h 22	+71° 17'	G12	Ilao	9L	"	22:40	22:48	C
	HD 173650	18^h 41.4	+21° 53'	G12	Ilao	9L	66°F	23:09	23:20	B
32275F	Focus Test			G12	Ilao	9L	65°F			B
32276	HD 173650	18 ^h 41.4	+21° 53'	G12	Ilao	9L	65°F	23:58	01:03	C
	HD 177519	14^h 03.55	-15° 42'	"	"	9L	64°F	01:15	01:55	A
32277	HD 183056	19 ^h 23.3	+36° 07'	G12	Ilao	9L	64°F	02:34	02:44	B
32278	HD 8441	1 ^h 18.5	+42° 37'	1	1	9L	64°F	02:58	03:30	A

Dome Temp. 67°F

Focus

Dome Temp.

Transparency Conditions

cloud haze but good seeing in clear areas.

Clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21° 20' E	+71° 57'	2"	6.29	A0	8-8-8	Ir* since plates tried 200 rather than 160 slow 7x100/220	FINE
0° 42' E	+71° 19'	2"	5.85	A0 _{si}	8-16	Ir* 4x10/22	FINE
21° 58'	+71° 58'	2"	6.25	Ap	8-	Ir* cloud cancelled (cloud) 7x100/220	
	in-in/out out				5/5	no filter	FINE
01° 08' W	+21° 58'	2"	6.75	Ap	8-88	Ir* same with, varying with half cup 7x100/220	FINE
01° 42' W	-15° 40'	3"	5.74	A0 _{si}	8-16	Ir* broken (discarded) * 4x100/220	
02° 10' W	+36° 16'	1.5"	4.25	A _{si}	8-16	Ir* 40/22	FINE
03° 02' E	+42° 59'	2"	5.92	A0 _p	8-16	Ir* Clouds 7x100/220 91	(GUIDING) WEAK
<p>→ May have fogged remaining plates. (if last exposure is fogged then check remainder of plates in box)</p> <p>IM PLATES OK</p> <p>* BROKEN PLATES WHICH HAVE</p>							
OCCUPIED 74" TIME SHOULD NOT BE DISCARDED.							

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Date Thurs July 10-11/69 Observer KL Julian Day 196
Fac Tom HL

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
32285	HD 149803	16 32.0	+27° 56'	G-12	Ilao	13 S	72°F	21 00 ⁽¹⁹⁾	00 12	A
32286	HD 171232	18 28.5	+25° 25'	"	"	"	70°F	00 23 ⁽¹⁴⁾	02 17	B
32287	HD 203156	21 ^h 15.4	+37° 49'	"	"	9 XL	69°F	02 26 ⁽⁴⁾	03 07	C
32288	HD 204867	21 ^h 26.3	-06° 01'	"	"	9L	68°F	03 24 ⁽⁴⁾	03 28	A
32289	HD 206778	21 ^h 39.3	+9° 25'	"	"	"	67°F	03:40 ⁽³⁾	03:43	C
32289F	Focus Test			"	"	9L	67°F	^(5:54)		B
32289 T1	calibration step wedge for plate				32285 - 32289			" July 1969		

Dome Temp. 74°

Focus

Dome Temp. 89°F

Transparency Conditions SOME CLOUDS HORIZON
heavy clouds ≈ 2:00

Time	Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
48 P	1h 38W	-19° 57'	4	7.38	A2p	8-16	seeing quite var? limited by north pier 4x100/80	ALMOST BLANK (GUIDING)
14 P	0h 18 ^m W	-15° 41'	3-2	5.71	A0s	8-8.8	4x100/228	SL. WEAK (GUIDING)
10 C	21h 37 ^m W	4° 56'	2	6.27	A0	8-8.8	4x100/220	SL. WEAK
32 C	22h 12 ^m W	+71° 19'	2	3.85	A0s	8-16	40/22	FINE
62 B	20h 37E	+09° 42'	4	3.98	KzIb	8-16	Stand Vel thru clouds capped at 50 some fun 40/43	WEAK
	27° 42'			6.33	A0p	8	got two counts clouds 3.14	
	mar 10 to 11				5/5	no filter		FINE

Dome Temp. 70° F

Transparency Conditions *very Good* no cloud

212,

Focus

Dome Temp. 55° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02:31 W	+17 00	3"	9.0	A10	8-8-8	G2* (broken 2pc) (METER: OFFBALANCE) ≈ 140	** VERY WK
01:58 W	+33 52	"	8.7	A5	8-8-8	G2*	WEAK 400/160
01:47 W	+38 07	"	6.3	F2Ib	8-16	Fernie* (cut short by down)	FINE 400/350
					5/5	no filter	FINE
						** FLEXURE	

Dome Temp. 74° Transparency Conditions *Clear, again*

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Focus

Dome Temp.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
43	01 ^h 34 ^m W	-19° 55'	2"	7.33	A2p	8-8-8	r6* (cut short by limit HL) ^{~130 balance out}	VERY WEAK
09	0 ^h 15 ^m W	-15° 41'	4"	5.71	A0si	8-8-8	Ir*	FINE
19	1 ^h 55 ^m W	+4° 56'	2"-3"	6.27	A0	8-8-8	Ir*	FINE SLOW
33	2 ^h 21 ^m W	+71° 21'	3	3.85	A0si	15-10	Ir*	(SL. GUIDING) FINE
31	2 ^h 58 ^m W	-21° 59'	3	6.25	Ap	8-8-8	Ir*	FINE
59	2 ^h 45 ^m W	+36° 18'	2"-3"	1.25	A si	8-8-8	Ir*	FINE
57	1 ^h 50 ^m W	+38° 08'	3"	6.3	F2J6	8-8-8	Fernie*	FINE
							5/5 no filter	FINE

14 July 1969 / mwp. 2/9 omw

RE EXP. INTR. IMBALANCE: THERE IS SOME
 ADVANTAGE IN CUTTING THE HIGH VOLTAGE (NOT THE
 AMPLIFIER GAIN) TO THE 2ND TUBE; FOR EACH 100V,
 CUT THE NO. OF COUNTS BY REACTOR OR TWO;
 SOMEWHERE BELOW 300 V. THE TUBE CUTS OFF.

Dome Temp. 76°F

Transparency Conditions Clear to South

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Focus

Cloud to North

Dome Temp. 75°F when

Hazy at 2:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 30W	-03 25'	1-2	4.3	m III	8-8-8	Bright Std. Vel.	4x10/45 SL. WEAK
01 05W	+19° 04'	1-2	7.2	F	8-8-8		* EXP. OK
01 00W	+38° 07'	1-2	6.3	F216	8-8-8	Fernie* (Fantastic; Fast)	4x100/435 FINE
01 20E	+58° 23'	1-2	4.89	B3V	8-16	Hd* Ecl Bin	40/23 FINE
02 48E	+20° 43'	1-2	2.7	A5	8-16	Hd* maybe strong	40/40 (GUSTING) SL. STRONG
	in in / out out				5/5	no filter	FINE
so finishes 8th all right in a row.							
MWP 2190 min @ 68°F						<u>To</u> Whoever spills wet paint on small ladder; <u>don't!!!</u> (That's a no no)	
						* FLEXURE; N.G. FOR RAD. OBL.	

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Date July 15-16, 1969 Time: 1400 Observer T. S. She, Dr. 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.
32310	HD 146334	16 ^h 0 ^m .1	-23° 20'	G-12	IIa-O	9L	80°F	21:03	22:07	A
32311	HD 194071	20 ^h 18 ^m .5	+27° 55'	"	"	135	"	22:23	00:43	B
32312	HD 203156	21 ^h 15 ^m .4	+37° 49'	"	IIa-O	9XL	70°F	01:11	02:20	A
32313	HD 21699	03 ^h 25 ^m .1	+47° 41'	"	"	9L	"	02:46	03:30	C
32314	HD 12929	02 ^h 01 ^m .5	+22° 59'	"	"	9L	74°F	03:42	03:48	A
32314 F	Focus			"	"		79°F			B
32314 T1	calibration step wedge for plates 32310-32314									

(5:23)

16 July 1969

Dome Temp. 83F

Transparency Conditions clear, some haze

Focus

Dome Temp. 73°F

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
07	21 ^m 19 ^m W	-23° 29'	~4"	5.80	B8p	8-8-8	Bu* (cut short by limit HL) 2x100/91	SL. WEAK
143	0 ^m 2 ^m E	+28° 10'	2-3"	9.06	G8III	8-8-8	Hd* Sec Std Vel 4x100/250	* SL. WEAK
176	0 ^m 20 ^m W	+41° 53'	2"	6.3	F2Ib	8-8-8	Fernie* 4x100/420	SL. WEAK
30	0 ^m 40 ^m E	+47° 56'	~4"	5.36	B8III	8-8-8	Bu* 2x100/110	SL. WEAK
49	0 ^m 25 ^m E	+23° 22'	~3"	3.15	K2III	8-16	Bright Std Vel 40/45	SL. WEAK
							5/5 no filter	GOOD
July 6							see you in 10 days, Tom	
							* POSSIBLE FLEXURE	

Dome Temp. 70°F Transparency Conditions *Cloudy - opened up* 2:15 AM EDT

Focus

High Cirrus and Haze 3:00 AM EDTDome Temp. 68°F *Totally Cloudy* 4:35 AM EDT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 2 ^h 01 ^m	+38 08	3 ["] 0	6.3	F2 Ib	8-8-8	Fernie Star	(SL. GUIDING) U.S.L. WK BROKEN FINE
					5-5	no filter Broken	

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Date Sun. July 20-21, 1969 Observer R. Ir-She 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.
32320	HD 176318	18 54.6	+38 07	G12	IIaO	9xL	74°F	22:05	23:20	A
32321	HD 187691	19 ^h 46.2	+10° 10'	G12	IIaO	9L	70°F	23:27	01:20	B
32322	HD 8441	1 ^h 18.5	+42° 37'	G12	IIaO	9L		02:05	03:37	C
32323	HD 25823	4 ^h 02.8	+27° 20'	G12	IIaO	9L	68°F	03:48	04:06	A
32323F	focus test		at 200/μm		IIaO	9L				B
									4:58	
32323 71	calibration	step wedge	for plates	±2	315-32323			21 July 1969		

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Date July 21-22, Mon-Tues, 1969 Observer JL, Ri 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.
32324	HD 176318	18h 54.6	+38° 5'	G12	IIa0	9xL	73°F	20.50 ⁽⁵³⁾	21: 29	A
32325	HD 194071	20h 18.5	+27° 55'	G12	IIa0	13.5	72°F	21.40 ⁽⁶⁴⁾	22 44	B
32326	HD 171391	18h 33.1	-11° 00'	G12	IIa0	9 L	69°F	22.50 ⁽⁷⁴⁾	00: 04	C
32327	HD 203156	21h 15.4	+37° 49'	G12	IIa0	9xL	68°F	00.15 ⁽⁵³⁾	01: 08	A
32328	HD 209213	22h 01	+46° 45'	G12	IIa0	13L	67°F	01.15 ⁽¹⁴⁰⁾	03: 35	B
32329	HD 231253	23h 25.4	+58° 00'	G12	IIa0	9xL	66°F	03 45 ⁽¹¹⁾	03: 56	C
32329F	focus test		out of focus	"	"		66°F			B
32329 T1	calibration step wedge for plates					32324 - 32329			22 July 1969	

(6=21)

Dome Temp. 71°F

Transparency Conditions Hazy

Focus

cloud at 22:30

Dome Temp. 66°F

clear after 23:30

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29 A	1h 46 E.	38 13	2	5.7	B6-7	8-8-8	Hube Spect. Bin. Beckand Pair 2x100/173	U.SL.WK
44	1h 56 E	38 10	2	9.06	G8 III	8-16	Sec. Std. of Vel. ^{clouded out} field drawn 2x120/100	VERY VERY WEAK
104 C	21h 12 W	-10 58	3.5	5.2	G5 7	8-8-8	Std. Vel. 2x100/200	V.SL.WEAK
108 P	00h 28 E	+38 07	~3	6.3	F2 Ib	8-8-8	F ₂ ⁺ 4x100/420	SL.WEAK
35	01h 14 W	+47 07	~3	7.5	K0	8-8-8	4x400/560	U.SL.WK
56	00h 10 W	+58 23	~3	4.99	B3 V	8-8-8	Eclipsing Bin. 4x10/35	(GUIDING) FINE
						5-5	no filter	FINE
July 199	MWP-2 / 9.2 min @ GPF							

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Tues to Weds.

Date 22 to 23 July 1969 Observer H. R. Bü 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.	
32330	HD 144334	16 ^h 0 ^m 1	-23° 20'	G12	IIa-0	9-L	73°	20:43 ⁽⁵⁷⁾	21:37	A	
32331	HD 194071	20 ^h 18 ^m 5	+27° 55'	G12	IIa-0	B-S		22:04 ⁽²⁴⁰⁾	02:04	B	
32332	HD 4128	0 ^h 38 ^m 6	-18° 32'	G12	IIa-0	9-L		2:18 ^(P)	02 27	C	
32333	HD 21699	03 ^h 25 ^m 1	+47° 41'	G12	IIa-0	9-L	68°	2:49 ^(2P)	03:09	A	
32334	HD 271253	23 ^h 25.4	+58° 0'	G12	IIa-0	9XL		3:20 ⁽¹⁵⁾	03:35	B	
32335	β Ari	01 ^h 49 ^m 0	+20° 19'	G12	IIa-0	9XL		3:47 ⁽⁴⁾	3:51	C	
32335F	focus test		22/22/69				66°			B	
32335 T1	calibration	step wedge for plates 32330 - 32335							5:52	23 July 1969	

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Wed - Thurs.

Date Jul. 23-24, 1969 Observer Ri-Wi 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.
32336	HD 147165	16 15.1	-25 21	G12	IIaO	9L	75°	2045 ⁽¹⁰⁾	2055	A
32337	HD 168656	16 15.8	+3 20	G12	IIaO	9L	74°	2109 ⁽⁶⁰⁾	2209	B
32337F	foundered	out of focus					74°			B
32337 T1	calibration	step wedge	for plates						24 July 1969	
									(1:10)	

Dome Temp. 74°

Focus

Dome Temp. 72° Transparency Conditions *clouds in West*
closed up at 23:00

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
55 A	$0^{\text{h}} 25^{\text{m}}$	-25 28	4	3.07	B III	8-16	<i>Broken</i> BK* $\frac{1}{2}$ " off one end	40/26 SL. WEAK
09 B	$0^{\text{h}} 21^{\text{m}}$	+3 24	4	5.76	B III	8-8-8	<i>clouds at 21:25</i> BK* cut short by clouds	4x100/27'0 SL. WEAK
B						5-5	<i>no filter</i>	V.U. SL. CENTRE TO RED
	MWR-2/9.0 min @ 60° F							

233.

Go Lp Sr - 178 visitors
- 2 Her

Date July 26/27 1969 Sat/Sun Observer Tom / GZ 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.
32339	HD 203156	21 ^h 15.4	+37° 49'	G12	Ilao	9XL	70°F	23:17	00:12	A
32340	XZ Cep	22 ^h 29.3	+66 38'	G12	Ilao	13 S	4	00:25	01:42	B
32340 F	Focus			"	"		68°F			B
									(2:15)	
32340 +1	calibration step wedge for plates				32338 - 32340				28 July 1969	

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Dome Temp. 68°F Transparency Conditions $\text{Haze} + \text{clouds}$

Focus

Dome Temp.

Hour	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	05 E	+38 06	2-3"	6.3	F2I6	8/8/8	Fermic *	400/440 U.S.L. WERE
00	48 E	+66° 59	"	8.4	09.5	8/8/8	ECL. BINARIES	400/57 ~ BLANK
						5/5	<u>CLOUDS</u> no filter	U.S.L. CENTRE TO RED
MUR-2/9.0 min @ 68°F								
<u>N.B.</u> TOP DOOR <u>VERY</u> HARD TO OPEN								

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Date July 28-29, 1969 Observer J. J. In 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.
32341	HD 139892	15h 35.6m	+36°58'	G12	400	9L	70°F	20.53 ¹²	21:05	A
32342	MY Gyg.	20h 16.2	+33°38'	G12	400	135	69°F	21:20	23:45	B
32341 F	Focus Test						69°F			B
								(0:12)		
32341 T1	calibration	step	wedge	for	plate #	32341		29 July 1969		

Dome Temp. 70°

Focus

Dome Temp. 65° ↓

Transparency Conditions

Scattered clouds

Clouded in 23^hOpened again at 0^h 30'Clear at 1^h and on

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
35 C W 0 ^h 4 ^m	+22° 00	4"	6.25	Ap	8-8-8	Ap Program Star (broken 1" off) 200/150	SL. WEAK
2 F W 0 ^h 26 ^m	+33° 21	3"	3.4	Bp	-	Polarization Program double image 40/52	FE COMP. SL. WK OK
B	in in - on that				5/5	no filter	FINE
40 A W 1 ^h 39 ^m	+27° 43	3"	6.33	AOp	8-8-8	Ap Program Star 200/150	FINE
57 C W 1 ^h 52 ^m	+38° 07'	2.5	6.3	FaIb	8-8-8	Ferns *	U. SL. WEAK (GUIDING)
13 A = 2 ^h 25 ^m	+20° 42'	3"	7.7	A5	8-16	Bi. Ecl. Bin 20/18	FINE
52 C = 3 ^h 26 ^m	+47° 56'	3"	5.36	B8 III	8-8-8	Bp Program star 200/140	FINE
03 A = 3 ^h 31 ^m	+23° 58'	2"	3.54	B8 III	8-16	Bp Program Star 40/40 ↑ 5:03	U. SL. STRONG SL. WEAK
15 C = 3 ^h 18 ^m	+24° 03'	3"	5.01	B8p	8-16	Bp Program star Sunlight too strong 40/20 NUMBERED ... 48 NUMBERED ... 48	SL. WEAK
37						Just like the pictures!	
64						map p. 2 / 9.0 min @ 65°	

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Wed - Thurs

Waterloo

Date July 30 - 31

Observer T_n, EJM

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.
32350	Sky Spectrum			G12	Duo	9L	73°F	21:28 ⁽¹²³⁾	23:31	A
32351	α Lyr	18 ^h 33. ^m 6	+38° 41'	"	"	9L	72°F	23:47 ⁽³⁾	23:49	C
32352	"	"	"	"	"	9L	"	23:52 ⁽¹⁾	23:53	A
32353	MH α 328-116	19 ^h 55. ^m 0	+39° 41'	"	"	9L	71°F	0:20 ⁽¹⁵²⁾	02:58	A
32354	α Lyr	18 ^h 33. ^m 8	+38° 41'	"	"	9L	70°F	03:07 ⁽³⁾	03:10	C
32355	HD 216916	22 ^h 31. ^m 8	+41° 04'	"	"	9L	70	03:25 ⁽¹⁸⁾	03:43	A
32356	HD 3627 3627	0 ^h 34. ^m 0	+30° 19'	"	"	9L	69°F	03:50 ⁽⁹⁾	03:59	C
32356 F	FOCUS			"	"	"	69°F			B
32350 T1	calibration strip									31 July 1969
32350 T2	"	"	"	"						plates 32350 - 32356

(5:14)

Dome Temp. 74°F

Focus

Dome Temp. 69°F

Transparency Conditions overcast
clear by 23:30

240.

Mag Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
31	A	-10°				8-8-8	of clouds Hour L 0 ^h [much moonlight for 2nd hour]	NO SKY
49	CW 1 ^h 30 ^m	+38° 46'	2-3"	.04	A0V	12-12	prob strong	20/15 VERY STRONG
53	W 1 ^h 35 ^m	"	"	"	"	12-12		20/13 (GUIDING) STRONG
58	AW 03 ^h 20 ^m	+39° 45'	2"	10.8		8-8-8	Planetary Nebula emission	2000/105 (GUIDING) FINE
10	CW 04 ^h 51 ^m	+38° 46'	3"	.04	A0V	12-12		20/13 FINE
43	AW 01 ^h 06 ^m	+41° 27'	3"	5.48	B2IV	8-8-8	Vis Bin	200/150 FINE
59	CE 0 ^h 22 ^m	+30° 42'	2"	4.57	K3IV	8-16	Vis Bin	40/56 FINE
		in in/out out				5/5	no filter	FINE
							Anson: Dr Fitzgerald wants a calibration to go with the slit spectrum. Vis. to - any way I guess. Saw the patch of plate left in the drawer.	
July 10 th		rm WP. 2/9.0 min @ 68°F						
"		"						

Dome Temp. 71°F

Focus

Dome Temp. 70°F

Transparency Conditions *overcast first half* 242
Very hazy when opened

Some thick cloud at 02:45

clear at 03^h

cloud by 09^h

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
125 A 8	$102^{\text{h}} 30^{\text{m}}$	$138^{\circ} 06'$	3"	6.3	F216	8-8-8 Fernie* capped for 15 min because of cloud 5/5 no filter	* U.S.A. WK (GOOD)
						* NO COMPARISON!	

Dome Temp. 70°F

Focus

Dome Temp. 69°F

Transparency Conditions *bad & hazy* scattered cloud
thick cloud by 22:50 clear by 23:10

244

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 ^h 33 ^m	+21° 59'	3-4"	6.25	Ap	8-8-8	Ap Prog f copped for 10 min	2x100/150 SL.WEAK
	in focus at				5/5	no filter	6.000
						Closed up 0 ^h 30 ^m much cloud	

Dome Temp. 73°F

Transparency Conditions

Good Excellent

246

Focus

Dome Temp. 64°F

ing Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
195	01 ^h 03 ^m	+33° 53'	1-2"	8.7	A5	8-8-8	ECL. BINARIES	400/150 SL. WEAK
17	01 08 W	+14° 21'	"	8.5	A3	8-8-8	"	400/150 SL. WEAK
14	01 12 W	+67° 00'	2-3"	8.4	09.5	8-8-8	"	400/150 VERY WEAK
15	01 ^h :16 ^m	+58 22'	"	4.89	B3V	8-8-8	"	400/150 WEAK (GUIDING)
11	01:01 E	+20 40	"	2.7	A5	8-16	" (broken 2pc)	20/14 BROKEN STRONG
		in in lost out				5/5	no filter	GOOD

247

Date Sun - Mon Aug 3/4 1969 Observer Tn, Bin, She Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
32364	HD 128661	14 ^h 33.1 ^m	+36° 22'	G12	IIoO	9L	72°F	20:37 ⁽¹¹⁾	22:28	A
32365	HD 203156	21 ^h 15.4 ^m	+37° 49'	G12	IIaO	9XL	71°F	22:46 ⁽¹⁰⁾	00:30	B
32366	E Peg	21 ^h 39.3 ^m	+9° 25'	"	"	9L	69°F	01:08 ⁽³⁸⁾	01:46	C
32367	HD 21699	03 ^h 25.1 ^m	+47° 41'	"	"	9L	68°F	02:05 ⁽¹⁵⁰⁾	04:15	A
32367F	Focus	Test		G12	IIoO					B
									(6:23)	
32375 T1	calibration slip wedge for plates				32361, 32362,		32368 - 32374		Stenger 8/69	
32375 T2	"	"	"	"	32357 - 32360,		32363 - 32367, 32375.		"	

249

Date Mon. - Tues. Aug 4/5 Observer Gz, To 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.
32368	HD 128661	14 ^h 33.7 ^m	+36° 22'	G12	Ilao	91	72°F	20:38 ⁽¹²⁾	21:40	A
32369	MY Cep	20 ^h 16.2	+33° 38'	G12	Ilao	13S	72°F	21:47 ⁽⁴⁵⁾	23:22	C
32370	XZ Cep	22 ^h 29.3	+66° 38'	"	"	13S	70°F	23:33 ⁽¹⁴⁾	01:27	C
32371	AR Cas	23 ^h 25.4	+58° 00'	"	"	9L	69°F	01:37 ⁽⁸⁾	01:45	A
32372	β Ari	01 ^h 49.0	+20° 19'	"	"	9XL	69°F	01:56 ⁽¹⁾	01:57	A
32373	HD 203156	21 ^h 15.4	+37° 49'	"	"	9XL	69°F	02:09 ⁽³⁰⁾	02:39	B
32374	SZ Pic	23 ^h 08.3	+2° 08'	"	"	13S	"	02:50 ⁽⁷⁾	04:08	A
32375	β Ari	01 ^h 49.0	+20° 19'	"	"	9XL	68°F	04:20 ⁽²⁾	04:22	B
32375 F	Focus	Test		"	Ilao		68°F			B

(6:30)

Dome Temp. 75°F

Transparency Conditions scattered cloud
(SEEING VERY GOOD)

Focus

Dome Temp. 70°F?

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
'40	03 ^h 40 ^m	+36° 06'	2"	7.0	A0	8-8-8	ecl binary	U.S.L. W/SL 7x100/280
'22	0 ^h 19 ^m	+33° 52'	2"	8.7	A5	8-8-8	ECL. BINARIES	SL. WEAK 7x100/160 (GUIDING)
'27	0 ^h 26 ^m	+67° 01'	1"-2"	8.4	O9.5	8-8-8	" "	(SOME CLOUDS) 400/160 WEAK
'45	01 ^h 05 ^m	+58° 22'	<1"	4.89	B3V	8-8-8	" "	(SEEING < 1") 400/300 SL. STRONG GUIDING
'57	04 ^h 43 ^m	+20 40'	<1"	2.7	A5	12-12	" "	20/20 EXP. OK
'39	02 00	+38 05'	1-2"	6.3	F2Ib	12-12	Fernie *	400/450 FINE
'08	01 37	+02 32'	1-2"	8.5	K1III	8-8-8	ECL. BINARIES	400/320 SL. WEAK BROKEN
'22	0 ^h 51 ^m	+20° 42'	1-2"	2.7	A5	12-12	broken 2pc.	U.S.L. STRONG (GUIDING) 20/20
	in/out					5/5	no filter	GOOD

251

Date *Tues-Wed Aug 5-6* Observer *Dr. Tn* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
32376	HD 203156	21 ^h 15.4 ^m	37° 49'	G12	IIaO	9XL	71°F	01:56	02:44	A	2:08
# 32376 T1	calibration step wedge for plate # 32376								6 August 1969.		
									(0.46)		

Dome Temp. 77° F

Focus

Dome Temp. 70° F

Transparency Conditions Hazy, then clear

254

1st plate broken, repeated exposure

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 52 ^m E	+19° 45'	2"	6.15	68 III	8-16	BK* Vis Binaries 40/45	SL WEAK
0 ^h 45 ^m W	+19° 50'	2"	7.44	M0 III	8-8-8	BK* Vis Binary 200/330	SL WEAK
2 ^h 05 ^m W	+38° 45'	3"	0.04	A0 V	38	Setting 40 (fid flat + lever) not down 200/12	STRONG
2 ^h 12 ^m W	+38° 45'	3"	0.04	A0 V	36	40 200/12	STRONG
3 ^h 36 ^m W	+39° 44'	2"	10.8		12-24-18	Planetary Neb 40 4x10³/166	FINE-STR.
5 ^h 09 ^m W	+38° 46'	3"	0.04	A0 V	53	200/14	FINE
					5/5	G12 Filter (40 setting)	CENTRE TO VIOLET
0 ^h 14 ^m E	+58° 04'	3"	5.63	F0 Ia	8-8-8	BK* Vis Bin cut short by day & clouds 40/33	(POOR GUIDING) V.S.L. WEAK
					5/5	no filter	GOOD

mwp-2/9min @ 68° E

The phantom painters did it again. Paint ladders etc let dry in the morning with good dry paint & during the raining season!

Dome Temp. 77°

Focus

Dome Temp.

Transparency Conditions

Cloudy before 21:45 - opened after
Hazy, Wind

256

N.B.

* Voltage set at 800 Volts on Counter

Clouds - lightning ~ 0:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W $1^h 28^m$	$+22^{\circ} 00'$	5"	6.25	Ap	8-16	Ap Program * exposure stopped Companion at 01:01 400/70 Closed up 03 ^h	* WEAK
						* WILL BE DEVELOPED MONDAY	

Dome Temp. 75°F

Focus

Dome Temp. 65°FTransparency Conditions good, some cloud
cleared at 9:00 EST.

258

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
70 A 33 ^m E	+72° 00'	2"	6.25	Ap	8-8-8	Ap Program	(LUDING) FINE
43 C 14 ^m W	+71° 21'	2"	3.85	Ap	12-12	Ap Program	prob str. 2x10/18 FINE
16 B 01 ^h 05 ^m W	-15° 39'	3"	5.71	A0si	8-8-8	Ap Program	2x100/170 FINE
52 A 03 ^h 11 ^m W	+4° 59'	3"	6.29	A0	8-8-8	Ap Program	2x100/160 FINE
27 C 02 ^h 55 ^m W	+36° 18'	2"	4.75	Asx	8-8-8	Ap Programme	2x100/160 FINE
7 A 03 ^h 45 ^m W	+27° 44'	3"	6.33	Ap	8-8-8	Ap Programme	some balance problems 4x100/320 FINE
24 C 02 ^h 21 ^m E	+56° 23'	3"	3.34	KO II	8-12	Standard Velocity	40/56 FINE
19 A 0 ^h 10 ^m E	+43° 00'	2-3"	5.92	Ap	8-8-8	Ap Programme	(1" broken off) 4x100/320 FINE
	initial out					5/5 no filter	GOOD

Dome Temp. 65°F

Focus

Dome Temp.

Transparency Conditions

260
cloud till 12:30
clouds at 1:00
clear 1:20
clouds 1:30
cloud 2:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	38° 07' 3" - 2	6.5	F21	8		Faint Star 8/9/68 Only 10% exposure so throw out	
						Dec. T.V. doesn't work particularly large group visitors might have done things to it.	

261


She Date Sun. - Mon. 10-11 Aug. Observer B. J. In. Hs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
32393	HD 16 0952	17 ^h 37. ^m 7	+29° 39'	G12	IIaO	9s	67°F	20:45 ⁽²⁴⁾	0:46	A
32394	HD 203156	21 ^h 18. ^m 2	+38° 07'	G12	IIaO	9XL	63°F	0:57 ⁽¹³⁾	01:10	C
								01:30 ⁽⁴⁶⁾	02:16	
32395	HD 21699	03 ^h 25. ^m 7	+47° 41'	G12	IIaO	9L	62°F	02:52 ⁽¹²⁾	03:20	A
32396	28 Tau	03 ^h 43. ^m 2	+23° 50'	G12	IIaO	9XL	62°F	03:41 ⁽¹⁴⁾	03:55	B
								04:03 ⁽¹⁰⁾	04:13	
32397	27 Tau	03 ^h 43. ^m 2	+23° 45'	G12	IIaO	9XL	60°F	04:18 ⁽⁵⁾	04:23	A
32397 F	Focus			G12	IIaO		60°F			B
32397	71	calibration strip wedge for plates 32394 - 32397						612/5:57		
									11 Aug/69	

Dome Temp. 66°F

Focus

Dome Temp. 59°F Transparency Conditions *Very good*

262

*heavy cloud at 01:10
clear by 01:30*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ^h 07 ^m W	+29° 38'	2"	9.04	G8 III	8-8-8	Sec. Std Velocity (finder fl'd cam) 7x100/280	WEAK
"	+38° 07'	2"	6.3	F2 I	8-8-8	Fernie Capheid Va. 4x100/450	U.S.L. WK.
7 ^h 00 ^m W						interrupted by cloud	
3 ^h 07 ^m E	+47° 55'	2"	5.36	B8 III	8-8-8	B _p Programme 2x100/151	FINE
"	+24° 03'	2"	5.01	B8 p	8-8-8	B _p Programme (v G*) 2x100/220	(GUIDING) FINE
7 ^h 32 ^m E							
2 ^h 22 ^m E	+23° 57'	2"	3.54	B8 III	12-12	B _p Program 4x10/45	<u>BROKEN</u> U.S.L. STR.
	lost out				5	not, Nor	GOOD
MWR - 2/9.0 min @ 68°F							

263

①

NEWTONIAN

Date *Phon Aug 11-12/69* Observer *CC-Tn-L* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I	Hour Angle End
32398	NGC 7078	21 28.6	+12 02	Newt	103A0			22 19	22 26	1	159E
32399	"	"	"	"	103AD			22 33	22 40	2	
32400	"	"	"	"	103A0			22 49	22 56	1	128E
32401	"	"	"	"	103AD			23 00	23 07	2	119E
32402	"	"	"	"	103A0			23 13	23:22	1	102E
32403	"	"	"	"	103AD			23 26	23:34	2	
32404	" 6864	20 04.4	-22 01		103A0			00 25	00 40	1	140W
32405	" 7078	21 28.6	+12 02		103AD			00 51	00 58	2	034W
32406	"	"	"		103A0			01 01	01 08	1	45W
32407	" 6864	20 04.4	-22 01		103A0			01 15	01 30	2	73W
32408	" 7078	21 28.6	+12 02		103A0			01 43	01 50	1	27W
32409	"	"	"		103AD			02 05	02 12	2	49W
32410	"	"	"		103A0			02 16	02 23	1	200W
32411	"	"	"		103AD			02 27	02 34	2	21W
32412	"	"	"		103A0			02 37	02 44	1	221W

Dome Temp. 68°F

Focus

Dome Temp.

Transparency Conditions

264

Cloudy early evening
very clear patches
clear after 23^h

Starting Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
226	1 57E					7 min		
240	2					7 min	Light cloud	
256	1 28E					7 min	Clouds.	
307	2 17E					7 min		
322	1 02E					9 mins		
334	2					8 mins	↳ Refocused	
040	140 W					15 mins no filter		
058	0 34W					17 mins		
108	0 45W					7 mins		
130	2 30W					15 mins no filter		
0150	1 27W	$+12^{\circ}04'$				7 mins		
0212	1 49W					7 mins		
0223	2 00W					7 mins		
0234	2 11W					7 mins		
0244	2 21W					7 mins		

cont next page →

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

cloud by 03:30

g Time S.T.	P.A.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5	2	22 ^h 30 ^m W					7 mins		
10:03	1	22 ^h 41 ^m W					6 mins		
10:13	2	22 ^h 50 ^m W					7 mins		
10:24	1	23 ^h 02 ^m W					7 mins		
10:33	2	23 ^h 10 ^m W					6 mins	clouded in (cut short)	
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> NEWTON / 2137 </div>								* exposed plates in darkroom.	

267

①

Newtonian

Date Tues-Wed Aug 12-13/69 Observer CC-Tn-HL Julian Day

Plate No.	Object	R.A. 1900- 1970	Declination 1900 1970	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
32418	NGC 7078	21 ^h 28. ^m 6	+12° 02'	Newst	103A ₀			22:28	22:37	1
32419	" "	"	"	"	103AD			22:39	22:50	2
32420	" "	"	"	"	103A ₀			22:53	23:02	1
32421	" "	"	"	"	103AD			23:07	23:17	2
32422	" "	"	"	"	103A ₀			23:21	23:28	1
32423	" "	"	"	"	103AD			23:31	23:42	2
32424	" "	"	"	"	103A ₀			23:45	23:54	1
32425	" "	"	"	"	103AD			23:56	00:08	2
32426	" "	"	"	"	103A ₀			00:15 ¹⁷	00:23	1
32427	" "	"	"	"	103AD			00:33 ⁹	00:45 ⁹	2
32428	" "	"	"	"	103A ₀			00:56	01:04 ⁰	1
32429	" "	"	"	"	103AD			01:07	01:17	2
32430	" "	"	"	"	103A ₀			01:20 ³⁷	01:29	1
32431	" "	"	"	"	103AD			01:31 ⁴⁴	01:43 ⁴⁴	2
32432	" "	"	"	"	103A ₀			01:52 ⁵⁵	02:02	1
32433	" "	"	"	"	103AD			02:06 ³⁰	02:18	2

Dome Temp

Focus

Dome Temp

Hour Angle
End

Dome Temp. 68°F Transparency Conditions HAZY, SOME CLOUDS

268

Focus

Dome Temp. 63°F

ing Time S.T.	PL	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:37	1	$01^{\text{h}} 43^{\text{m}} \text{E}$	$+12^{\circ} 04'$				9 mins	focus star 5 Oct	
01:50	2	$01^{\text{h}} 30^{\text{m}} \text{E}$					11 mins	some cloud	
01:02	1	$01^{\text{h}} 16^{\text{m}} \text{E}$					9 mins		
01:17	2	$01^{\circ} 02^{\circ} \text{E}$					10 mins		
01:28	1	$01^{\text{h}} 51^{\text{m}} \text{E}$					$7\frac{1}{2}$ mins		
01:42	2	$01^{\text{h}} 37^{\text{m}} \text{E}$					11 mins		
01:54	1	$01^{\text{h}} 25^{\text{m}} \text{E}$					$9\frac{1}{2}$ mins		
02:08	2	$01^{\text{h}} 11^{\text{m}} \text{E}$					12 mins		
02:23	1	$01^{\text{h}} 3^{\text{m}} \text{W}$					8 mins	Tn guided	
02:35	2	$01^{\text{h}} 26^{\text{m}} \text{W}$					12 mins	Tn guided	
02:50	1	$01^{\text{h}} 45^{\text{m}} \text{W}$					$8\frac{1}{2}$ mins		
03:01	2	$01^{\text{h}} 59^{\text{m}} \text{W}$					12 min		
03:11	1	$01^{\text{h}} 9^{\text{m}} \text{W}$					9 mins		
03:21	2	$01^{\text{h}} 24^{\text{m}} \text{W}$					12 mins		
03:32	1	$01^{\text{h}} 43^{\text{m}} \text{W}$					10 mins	H1 guided	
03:42	2	$01^{\text{h}} 59^{\text{m}} \text{W}$					12 mins	H1 guided	
03:52	1	$01^{\text{h}} 43^{\text{m}} \text{W}$					10 mins		
04:02	2	$01^{\text{h}} 59^{\text{m}} \text{W}$					12 mins		
04:12	1	$01^{\text{h}} 43^{\text{m}} \text{W}$					10 mins		
04:22	2	$01^{\text{h}} 59^{\text{m}} \text{W}$					12 mins		

continued next page

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Mag Time S.T.	P1	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
32	1	2 ^h 12 ^m W					9 mins	Hl guided	
49	2	2 ^h 29 ^m W					12 mins		
00	1	2 ^h 41 ^m W					9 mins		
43	2	2 ^h 54 ^m W					12 mins		
57	1	3 ^h 08 ^m W					8 min	Tn guided	
56	2	3 ^h 28 ^m W					12 min	Tn guided	
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> NEWTON / 3:44 </div>									

Dome Temp. $75^{\circ}F$

Transparency Conditions

clear; but hazy, all night
some haze in west

272

Focus

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

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							focus * 8 Opl	
23	2 ^h 04 ^m W	-12° 57'				10 mins		
00	1 ^h 44 ^m W					8 mins		
25	2 ^h 09 ^m E	+12° 04'				8 mins		
39	1 ^h 37 ^m E					10 mins		
52	1 ^h 24 ^m E					8 mins		
05	1 ^h 11 ^m E					10 mins		
18	0 ^h 58 ^m E					8 mins		
38	0 ^h 37 ^m E					10 mins		
49	0 ^h 26 ^m E					8 mins		
01	0 ^h 14 ^m E					10 mins		
13	0 ^h 02 ^m E					8 mins		
26	0 ^h 11 ^m W					10 mins		
36	0 ^h 21 ^m W					8 mins		
47	0 ^h 34 ^m W					10 mins		

Dome Temp.

Transparency Conditions

Hazy at 0^h

274

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:19	1 ^h 04 ^m W					10 mins		
1:33	1 ^h 18 ^m W					10 mins.	In guided	
1:45	1 ^h 30 ^m W					8 mins.	In guided	
1:58	1 ^h 43 ^m W					10 mins.	In guided.	
2:12	1 ^h 58 ^m W					8 mins.		
2:25	2 ^h 11 ^m W.					10 mins.		
2:38	2 ^h 24 ^m W.					8½ mins.		
2:51	2 ^h 37 ^m W.					10 mins.		
3:04	2 ^h 49 ^m W.					7 mins.		
3:16	3 ^h 01 ^m W.					9 mins.		
3:35	3 ^h 11 ^m W.					7 mins.		
3:37	3 ^h 23 ^m W.					9 mins.		

~~Seeing~~
- CHANGE BACK TO
CASSEGRAIN.

275

CASSEGRAINDate Fri - Sat Aug 15/16, 1969 Observer Tm - G2 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
32466	MY Cyg	20 ^h 16.2	+33° 38'	G12	Ilao	13 S	78°F	21:23	22:27	A	00:30
32467	HD 176318	18 ^h 54.6	+38° 07'	"	"	9 L	76°F	22:37	23:36	C	00:50
32468	AR Cas	23 25.4	+58° 00'	"	"	9 L	"	23:48	00:05	B	00:03
								00:05			
								(6:12/2:20)			

Dome Temp. 80°F

Transparency Conditions

Very Hazy

276

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	32 E	$+33^{\circ} 51'$	2"	8.7	A5	8-16	ECL BIN. (TOO SHOW)	400/44 very weak
01	59 W	$+38^{\circ} 14'$	2-3'	5.7	B6-7	8-8-8	Spect. Bin.	200/160 ^{guiding} vs/weak
02	03 E	$+58^{\circ} 23'$	~1-2"	4.89	B3V	8-8-8	ECL BIN.	200/160 Fine ^{guiding}
PLATES WERE BRACKING (ALL OF THOSE TRIED)								
GAVE UP. HAVY HAZE ANYWAYS. (From Fresh box)								

Dome Temp. 78° F.

Focus

Dome Temp.

Transparency Conditions *very hazy*
clear after 22 h

278

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 ^h 51 ^m E	+36° 18'	2"	4.25	A si	8-8-8	Ap Program	40/37 Fine
0 ^h 55 ^m W	+22° 02'	2-3"	6.25	Ap	8-8-8	Ap Program	2x100/160
0 ^h 47 ^m E	+38° 07'	2"	6.3	F216	8-8-8	For Fernie.	4.100/470 ^{guiding} vs weak
1 ^h 28 ^m W	+27° 43'	3"	6.33	AOp	8-8-8	Ap Program (broken 2pc)	2x100/160 Fine
						- Plates all breaking again.	
11/9/59 MWP-2 / 9 min @ 68°K						- I cut more than break as well.	
						- We then looked at several interesting objects c. closed up; clouded in at 03 ^h	

279

Date Tues-Wed Aug 19/20/69 Observer Dr. T. 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.
32473	HD-160952	17 ^h 37.7 ^m	+29° 39'	G12	IIa0	13S	66°F	20:14	23:56	C
32474	HD 203156	21 ^h 15.4 ^m	+37° 49'	"	"	9xL	65°F	00:19	01:40	A
32475	HD 722368	23 ^h 39.8 ^m	+5° 05'	"	"	9L	61°F	01:55	02:14	B
32476	α Scl	0 ^h 53.8 ^m	-29° 54'	"	"	9L	60°F	02:27	02:59	A
32477	AP Cos	23 ^h 25.4 ^m	+55° 0'	"	"	9L	59°F	03:16	03:36	C
32478	κ Ari	01 ^h 49 ^m	+70° 19'	"	"	9L	"	03:44	03:50	A
32479	27 Tau	03 ^h 43.2 ^m	+23° 45'	"	"	9xL	57°F	04:38	04:45	
32479F	Focus			G12	IIa0		57°F			B
32479T ₁	Coli. Step wedge	for plates 324, 74, 75, 76, 77, 78, 79, 79F, 80, 81								

614.5327

Dome Temp. 68°F Transparency Conditions *quite clear*

280

Focus

Dome Temp.

Hour Angle End	Declination	Secing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 52 ^m W	+29° 37'	3"	9.04	G8 III	8-8-8	Sec std. Vel (finder fld down) <i>field check OK</i>	4x100/260
1 ^h 58 ^m W	+32° 07'	4"	6.3	F2 I6	8-8-8	for Fernie	4x100/470 Fine
0 ^h 11 ^m W	+15° 32'	4"	4.64	F7 V	12-12	std Vel	4x10/48 Fine
0 ^h 21 ^m E	-29° 25'	6-11"	4.14	B8 III	8-8-8	Bp Program	4x10/32 Fine
01 ^h 44 ^m W	+58° 25'	3-6"	9.89	B3 V	12-12	Lcl Bin	4x10/30 Fine
0 ^h 25 ^m E	+20° 42'	3"	2.7	A5	12-12	Bi. Ecl Bin	20/1.9 sl strong
01 ^h 25 ^m E	+23° 59'	3-4"	3.54	B8 III	12-12	Bp Program	2x10/22 sl. strong ^{guiding}
						did 28 Tou but exposed plate. (Too Tired etc, etc)	
in in / out out					5/5	no filter	vst. to violet
Aug 22/69 in M.W.P.2 for 9min @ 68°F							

Dome Temp. 63°FTransparency Conditions Excellent

282

Focus

Dome Temp.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 45 A	0 06 W	+3° 24'	3"	5.76	G5 II	8-8-8	Vis Bin Prog, 2x100/260	Fine
0 28 B	0 27 W	-9° 01'	3"	5.08	F3 II-D	8-8-8	" 2x100/240	Fine
0 24 B	1" 38 W	+19° 52'	2"-4"	7.44	M0 II	8-8-8	" 2x100/320	sl. guiding sl. weak
0 54 A	0" 03 E	+56° 39'	2"-3"	6.66	M4 III	8-8-8	" 2x100/340	Fine
0 52 C	0 50 W	+41° 41'	2"	6.06	K0 III	8-8-8	" broken 2pc 2x100/290	Fine
0 44 A	03" 06 W	+38° 09'	3"	6.3	F2 I6	8-8-8	For Fernie 4x100/480	Fine
0 56 C	0 58 W	+49° 11'	2"	7.08	K7 II	8-8-8	Vis Bin Prog 2x100/300	Fine
0 14 B	1 16 W		2"	4.57	K3 II	12-12	" 40/60	Fine
0 26 B	0 05 W	42 12	2"	3.62	K2 II	12-12	" 40/60	Fine
						5/5	no filter	v. st. to violet
Aug 22	M.W.P. 2	9 min	@	68°F				

283

Date Thurs/Even Aug 21/22 1969 Observer Tm/G2 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.
32489	HD 160952	17 ^h 37.7	+29° 39'	G12	Ilco	13S	66°F	20:11 ⁽¹²⁾	22:12	B
32490	MY Cyp	20 ^h 16.2	+33° 38'	"	"	13S	64°F	22:19 ⁽¹⁰⁾	0:07	C
32491	XZ Cep	22 ^h 29.3	+66° 38'	"	"	13S	62°F	00:17 ⁽¹⁵⁾	02:50	A
32492	AR Cas	23 ^h 25.4	+58° 00'	"	"	2L	62°F	03:00 ⁽¹⁰⁾	03:10	C
32493	β Ari	01 ^h 49	+20° 19'	"	"	9XL	60°F	03:21 ⁽³⁾	03:24	B
32494	BF Aur	04 58.0	+41° 09'	"	"	13S	60°F	03:40 ⁽⁵⁹⁾	04:39	C
32494 F	Focus			"	"		"			B
								(G12) 7:34		

285

Date Fr/Sat Aug 22/23 1969 Observer Tn/Hc/Gz 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.
32495	HD 128661	14 ^h 33.1	+36° 22'	G12	IIaO	9L	72°F	19:58 ⁽⁹³⁾	21:28	B
32496	MY Cyg.	20 ^h 16.2	+33° 38'	"	"	13S	70°F	21:35 ⁽¹⁰⁰⁾	23:15	A
"	"	"	"	"	"	"	"	23:47 ⁽⁷⁾	23:54	"
32497	HD 203156	21 ^h 15.4	+37° 49'	"	"	2XL	68°F	00:03 ⁽⁴⁷⁾	00:50	B
32498	XZ Cep	22 ^h 29.3	+66° 38'	"	"	13S	"	00:58 ⁽¹²²⁾	03:00	C
32499	AR Cas	23 ^h 25.4	+58° 00'	"	"	9L	67°F	03:18 ⁽⁹²⁾	04:52	B
32500	β Ari	01 ^h 49.0	+20° 19'	"	"	9XL	"	04:01 ⁽³⁾	04:06	C
32501	HD 21699	03 ^h 25.1	+47° 41'	"	"	9L	"	04:20 ⁽¹¹⁾	04:31	A
32502	27 Tau (Atlas)	03 ^h 43.2	+23° 45'	"	"	9L	"	04:38 ⁽³⁾	04:41	C
32502 F	Focus Test			G12	IIaO		67°F			B
32502V,	Cal. sty	Worse	See Plate							

SURELY THIS
MUST BE 03:

6:14 7:59

Dome Temp. 73°F

Focus

Dome Temp. 65°F

Transparency Conditions

Very Good

clouds at 23^h
scattered clouds thereafter

286

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality (HR)
28 B 4 ^h 39 ^m W	+36° 07'	2-3"	7.0	A0	8-8-8	ECL. BIN.	200/160 FINE
15 A	+33° 54'	1-2"	8.7	A5	8-8-8	" [capped at 23:15]	400/154? FINGERPRINT* V. SL. STRONG
21 23 W	"	"	"	"	"		
50 B 21:20 W	+38° 08'	2-3"	6.3	F2IB	8-8-8	FERNIE*	400/460 V. FINE
100 C 22:16 W	+67° 02'	"	8.4	O9.5	8-8-8	ECL. BIN. [SPEC. TOUCHES PIER]	400/151 WEAK (SL. GUIDING) STRONG
52 B 22:12 W	+58° 22.5'	1-2"	4.89	B3V	8-8-8	" CLOUDS	200/160 (SL. GUIDING) SL. STRONG
06 C 00:01 W	+20° 40'	"	2.7	A5	12-12	"	20/22 SL. STRONG
31 A 21:10 E	+47° 55'	"	5.36	B8III	8-8-8	Bp PROGRAM	200/160 SL. STRONG (GUIDING) STRONG
41 C 21:16 E	+23° 58'	"	3.54	B8p	12-12	"	20/16 FINE
	in/out of				5/5	no filter	
	M.W.P. 2	9 min	@ 67°F			* watch fingerprints and dirt	

987

Visitors G₀-78+88. M13G₂-
P_{ne}

Date SAT/SUN Aug 23/24 1969 Observer Ri/Gz 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.
32503	MY Cyg	20 ^h 16.2	+33° 38'	G12	Ilad	13S	77°F	21:59 ¹¹⁴	23:53	A
32504	XZ Cep	22 ^h 29.3	+66° 38'	"	"	13S	75°F	00:00 ¹³¹	02:11	B
32505	AR Cas	23 ^h 25.4	+58° 00'	"	"	9L	73°F	02:18 ¹¹	02:29	C
32506	B Ari	01 ^h 49.0	+20° 18'	"	"	9XL	73°F	02:37 ³	02:40	A
32507	BF Auri	04 ^h 58.0	+41° 09'	"	"	13S	73°F	02:50 ²⁹	04:19	B
32507F	focus test	out out/w/w	"	"	"	13	72°F			B
32507Y	Calibration	step wedge for plates				32489-94,	32503-06	Aug 24		
								(G12/5:48)		

Dome Temp. 78°F

Transparency Conditions

Good (some Haze)

298

Focus

Dome Temp. 72°F

ing Time E.S.T.	PA	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
53	A	01 25 W	+33° 52'	1-2"	8.7	A5	8-8-8	ECL. BIN.	800/424 sl. weak
11	B	01 32 W	+67° 02'	~1"	8.4	09.5	8-8-8	"	800/424 sl. weak
29	C	00 52 W	+58° 24'	"	4.89	B3V	8-8-8	"	200/170 FINE
40	A	01 20 E	+20° 43'	"	2.7	A5	12-12	"	20/22 FINE
9	S	?	+41° 17'	"	8.5	B5V	8-16	" 5" Broken	800/218 weak
	S						5-5	no filter	c. 70 v1
Aug 24			M. W. P. 2		9 mm		@ 67°F		

289

Date Sun Mon Aug 24-25 1969 Observer Ri - Bz 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.
32508	HD 128661	14 33.1	+34 22	G12	IIA0	9L	74°F	20:02 ⁸⁵	21:27	A
32509	MY Cys	20 16.2	+33 38	"	"	135		21:40 ¹²⁰	23:40	B
32510	HD 203156	21 15.4	+37 49	"	"	9xL	75°F	23:48 ⁵²	00:40	C
32511	α Scl	0 53.8	-29° 54'	"	"	9L	73°F	01:04 ⁵⁴	01:58	A
32512	HD 21699	03 ^h 25. ^m 1	+47° 41'	"	"	9L	72°F	02:20 ¹⁹	02:39	B
32513	28 Tau	03 ^h 43. ^m 2	+23° 50'	"	"	9XL	72°F	03:13 ³⁰	03:43	C
32514	27 Tau	03 ^h 43. ^m 2	+23° 45'	"	"	9XL	71°F	03:50 ⁴	03:54	A
32515	HD 34798	05 ^h 14. ^m 9	-18° 37'	"	"	9L		04:08 ³⁰	04:43	B
32515.F	focus test	and and/mini				9	71°F			C
32515.T	Calibration step wedge for plates			32507	32508 - 32515				Aug 28	
									(6/12/4.39)	

291

Date Mon. Tues. Aug 25-26 1969 Observer Ri Jt 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.
32516	HD 128661	14 33.1	+36 22	G 12	IIaD	9L	76°F	20:00 ¹²⁰	22:00	A
32517	HD 176318	18 54.6	+38 07	"	"	9xL	72°F	22:10 ⁴²	22:52	B
32518	HD 203156	21 15.4	+37° 49	"	"	9xL	70°F	23:01 ⁷⁶	00:17	C
32519	HD 209213	22 01.0	+46° 45'	"	"	13L	68°F	00.25 ⁽¹⁶⁰⁾	03:13	A
32520	AR Cas	23 25.4	+58 00	"	"	9L		03.25 ⁽¹⁵⁾	03:40	C
32521	β Ari	01 49.0	+20 19	"	"	9xL	65°F	03.46 ⁽⁵⁾	03:51	A
32522	HD 22484	03 31.8	+00 05	"	"	9L		03.56 ⁽³²⁾	04:24	B
32522F	focus test		out of focus				64°F			B
32522Y1	calibration		step wedge for plates			32516-22			Aug 25 1969	
									(6/27:44)	

Dome Temp. 76°F

Transparency Conditions lazy

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05 ^h 25 ^m W	+36 06	2-3	7.0	A0	8-8-8	Fed. Bin.	400/208 weak
01 ^h 55 ^m W	+38 15	3	5.7	B6-7	8-8-8	Spect. Bin.	200/173 sl. weak
01 ^h 40 ^m W	38 08	3	6.3	F2I6	8-8-8	F. *	400/460 sl. weak
03 10 ^m W	47 07	3	7.5	H0	8-8-8	Plate broken - 5 pieces.	400/540 FINE
02 12 ^m W	58 25	3-4	4.89	B3II	8-8-8	Fed. Bin	200/170 FINE
00, 02 ^m E		"	2.7	N5	12-12	" "	20/22 FINE
01.00 ^m E	+00 22	"	5.2	F9	8-8-8	Std. Vel.	40/48 FINE
					5-5	no filter	OK
	M.W.P. 9 mm	67°F					

293

Date *Tues. Wed. Aug. 26-27, 1969*Observer *Ri/Gz*

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.
32523	MY Cys	20 16.2	33 38	G 12	IIaO	135	65°F	19:54 ⁽¹⁴⁾	22:15	B
32524	XZ Cep	22 ^h 29.3	+66° 38'	"	"	135	63°F	22:27 ⁽¹⁹⁾	00:26	A
32525	AR Cas	23 ^h 25.4	+58° 00'	"	"	9 L	61°F	00:34 ⁽¹⁴⁾	00:48	C
32526	MY Cys	20 ^h 16.2	+33° 38'	"	"	135	58°F	00:56 ⁽¹²⁾	02:48	B
32527	β Ari	01 ^h 49.0	+20° 19'	"	"	9XL		02:55 ⁽⁴⁾	02:59	A
32528	BF Aur	04 ^h 58.0	+41° 09'	"	"	135		03 07 ⁽⁹⁾	04:46	C
32528F	focus test		order/cin			13	55°F			B
32528T	Calibration	step wedge	for plates	32523-28				27 Aug 69		
								<u>G12/8:09</u>		

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Dome Temp. 65°F

Transparency Conditions VERY GOOD (SEEING BAD)
SOME CLOUDS AT 00^h

Focus

Dome Temp. 54°F

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15 B	00:00	33 53	3-4"	8.7	A5	8-8-8	col. Bin	800/300 weak
26 F	00:02 E	+67° 02'	"	8.4	O9	58-16	"	800/210 weak
48 C	00:36 E	+58° 24'	"	4.89	B33	8-8-8	"	200/170 FINE
48 B	00:33 E	+33° 54'	"	8.7	A5	8-8-8	"	800/300 sl. weak
50 P	02:50 E	+20° 43'	"	2.7	A5	12-12	"	20/22 FINE
46 C	02:12 E	+41 17	"	8.5	B5	8-16	"	800/165 weak
3						5-5	no filter	OK
	M.W.P 2	9 min	67.5°F					

295

Date WED-THUR 27-28 1969 Observer Ri/Wi Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
32529	HD 182953	19 ^h 22.1	+19° 41'	G12	IIaD	9L	67°F	19 ^h 58 ^m ⁽⁹²⁾	21:30	A
32530	α Lyr	18 ^h 33.6	+38° 41'	G40	IIaD	13L	67	21 ^h 49 ^m ⁽⁹¹⁾	21 ^h 50 ^m	F
32531 *	MHD 328-116	19 ^h 55.0 ^m	+39° 41'	G40	IIaD	13L	67	22 ^h 07 ^m ⁽²²²⁾	01 49	E
32532	α Lyr	18 ^h 33.6	+38° 41'	G40	IIaD	13L	64	1 ^h 59 ^m ⁽⁹¹⁾	02 00	C
32532F	focus test	out of focus		G40	"	13	64	2:18 ⁽²⁹⁾		V
32533	HD 7927	1 ^h 13.8	+57° 42'	G12	IIaD	9L	64	2 ^h 18 ^m ⁽³⁹⁾	02:47	V
32534	HD 13994	2 ^h 11.0	+57° 04'	G12	IIaD	9L	64	2 ^h 56 ^m ⁽³⁹⁾	03:35	E
32534F	focus test			G12	"		64			E
								(G40/3:48)		
								(G12/2:40)		

* PLATE COVER
DONE

Dome Temp. 69

Transparency Conditions clouds w SW haze

Focus

Dome Temp. 64

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0413W	19°53"	3"	7.44	MOTT	8-8-8	BK* 400/440	Weak
1°22W	38°43"	4"	0.04	AOV	36	with G12 filter 200/15	
4°02" W	39°46"	1"	10.8	Em.	15-15-15	G40 focus 37.8 2000/232	
5°32W	38°44'	4"	0.04	AOV	50	G40 * 800/12	
					5-5	with G12 filter	
0438E	158 05	2"	5.63	FQIa	8-8-8	BK* 200/240	FINE
0432E	157 24	2"-4"	7.04	G2III	8-16	BK* clouds 200/78	Very weak
					5-5		OK

* Comp is much too weak

297

Date THUR / FRID Aug 28 / 29 1969 Observer Ri / GZ 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.
32535	HD 128661	14 ^h 33.1	+36° 22'	G13	Ilad	2L	76°F	19:45	22:10	A
32536	HD 176318	18 ^h 54.6	+38° 07'	"	"	9XL	74°F	22:19	23:13	B
32537	XZ Cep	22 ^h 29.3	+66° 38'	"	"	17S	72°F	23:24	00:44	C
32538	AR Cas	23 ^h 25.4	+58° 00'	"	"	2L	71°F	00:56	01:18	A
32539	HD 203156	21 ^h 15.4	+37° 49'	"	"	9XL	70°F	01:25	03:44	B
32540	☾ Ari	01 ^h 49.0	+20° 19'	"	"	9XL	68°F	03:50	03:58	C
32540F	focus test	out out / in in				9	68°F			B
32540T	Calibration	step wedge	for plates 32529, 32533 - 32540					Aug 29 1969		

6.12 / 7:28

Dome Temp. 77° F

Transparency Conditions SOME HAZE

Focus

Dome Temp. 68° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10 A 25:46 W	+36° 06'	2-3"	7.0	A0	8-8-8	Ecl. Bin. 400/368	weak
13 B 22:28 W	+38° 15'	"	5.7	B6-7	8-8-8	Specy. Bin 200/210	sl weak FINGER POINTS
14 C 20:25 W	+67 00	"	8.4	O9.5	8-16	Ecl. Bin. clouds (STOPPED. TOO HAZY) 800/135	very very weak
18 A 20:01 W	+58° 24'	1-2"	4.89	B3V	8-8-8	" " 200/170	FINE
14 B 4:38 W	+38° 09'	"	6.3	F2I6	8-8-8	FERNIE* (HEAVY HAZE) 400/400	weak
3.58 C 20:17 W	+20 43	"	2.7	A5	12-12	ECL. BIN. 20/22	FINE
					5-5 no filter		OK
	M.W.P.2	9 min.	67.5° F				

Dome Temp. 78 F

Transparency Conditions

300

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. G12	REMARKS	Quality
					55	focus 41.6 (previous graph)	center to violet
					5/5	40.0 (previous graph)	
					5/5	37.0	OK in violet sl. c to vi. in grad
					5/5	35.0	v. sl. c to R. in violet - not too bad in R. fairly good in violet + R.
					5/5	36.0	
					5	33.0	full aperture test
					5	34.0	
					5	35.0	
					5	36.0	
					5	37.0	
					5	38.0	2F5T FOLUS.
						39.0	
						40.0	
						41.0	
12 is best at 3927, but 7 or 8 is best at 4500. So the tilt is bad!							

301

Date SAT/SUN Aug 30/31 1969 Observer R/GZ 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.
32541	HD 203156	21 ^h 15.4	+37° 49'	G12	Ilao	9XL	78°F	22:38 (86)	00:04	A
32542	AR Cas	23 ^h 25.4	+58° 00'	"	"	9L	76°F	00:09 (28)	00:37	B
32543	β Ari	01 ^h 49.0	+20° 19'	"	"	9XL	76°F	00:46 (10)	00:56	C
32544	HD 8441	01 ^h 18.5	+42° 37'	"	"	9L	76°F	01:02 (75)	03:17	A
32545	HD 2226	01 ^h 32.5	+44° 54'	"	"	9L	76°F	02:25 (52)	03:17	B
32546	HD 25823	04 ^h 00.25	+27° 20'	"	"	9L	74°F	03:24 (29)	03:53	C
32546F	focus test	out of/in	"	"	"	9	73°F			B
32547	BF Aur	04 ^h 58.0	+41° 09'	G40	"	13L	73°F	04:07 (20)	04:28	A
32547F	focus test	out of/in	"	"	"	13	73°F			B
32547T1	Calibration	Step Wedge	for plates		32530 - 32,32547			31 Aug 69		
32547T2	Calibration	Step Wedge	for plates		3254 - 46			" "		
								(640/0:21)		
								(612/4:40)		

Dome Temp. 79°F

Transparency Conditions HEAVY HAZE

302

Focus

Dome Temp. 72°F

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 A	01:05W	+38° 08'	2-3"	6.3	F2I6	8-8-8	T ₂ [←]	400/460
037 B	00:33 E	+58° 25'	3-4"	4.89	B3I	8-8-8	Ecl. B ₁	200/170
056 C	02:38 E	+20° 42'	"	2.7	A5	12-12	" "	20/22
017 A	00:46 E	+43° 00'	"	5.92	A0A	8-8-8	Ap programme	400/320
037 B	00 00	+45° 16'	1-2"	6.15	Ap	8-8-8	" "	400/320
053 C	01:52 E	+27° 35'	1-2"	4.75	A5i	8-8-8	" " 3 pieces Broken	200/160
						5-5	no filter	
0429 A	02:15 E	+41° 15'		8.5	B3I	15-	B40 focus 380 ECL. B1M. cloud at 04:15	800/16 (out of 70)
						5-5	wild B12 filter	
							M.W.P 2 7 min 68°F	
							M.W.P 2 9 min 67½°F	

303

Date ^{Tues/Wed.} Sept 2/3, 1969

Observer Tu, Dr

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.
32548	MY Cyg	20 ^h 16.2 ^m	+33° 38'	G12	IIao	13s	70°F	20:28	(202) 23:50	A
32549	HD 203156	21 ^h 15.4 ^m	+37° 49'	G12	IIao	9XL	67°F	0:00	(55) 0:55	C
32550	AK Cas	23 ^h 25.4 ^m	+58° 0'	G17	IIao	9XL	66°F	1:10	(10) 01:20	A
32551	λ Cas	00 ^h 34.8 ^m	+55° 59'	G17	IIao	9L	"	01:32	(6) 01:38	C
32552	HD 8441	01 ^h 18.5 ^m	+42° 37'	G12	IIao	9L	65°F	02:20	(75) 03:35	B
32553	B Ari	01 ^h 49 ^m	+20° 19'	G12	IIao	9XL	"	03:55	(3) 03:58	A
32554	HD 25823	04 ^h 0.5 ^m	+27° 20'	G12	IIao	9L	64°F	04:14	(23) 04:33	A
32554 F	Focus Test			G12	IIao		63°F			B
# 32567 T2	calibration strip wedge for plates 32548-32554, 32566, 67									

(6146:20)

305

WED-THURS

Date SEPT 3-4, 1949

Observer Tn, W.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
32555	HD 172748	18 36.6	-9 09	612	DaO	9L	71°F	19:45 ⁽²⁷⁾	20:12	A
32556	HD 187849	19 ^h 47 ^m	+38° 27'	"	"	"	71°F	20:35 ⁽³⁵⁾	21:00	B
32557	HD 189577	19 ^h 55 ^m	+17° 15'	"	"	"	70°F	21:26 ⁽³²⁾	22:16	C
32558	HD 203156	21 ^h 15 ^m	+37° 49'	"	"	9xL	"	22:27 ⁽⁴⁴⁾	23:11	A
32559	HD 200120	20 ^h 56 ^m	+47° 08'	"	"	9L	69°F	23:21 ⁽²⁾	23:27	B
32560	HD 203509	21 ^h 17 ^m	+19° 23'	"	"	9L	"	23:40 ⁽¹⁾	23:52	C
32561	HD 214665	22 ^h 34 ^m	+56° 17'	"	"	9L	68°F	00:14 ⁽³⁴⁾	00:48	B
32562	HD 215373	22 ^h 39.6	+41° 04'	"	"	9L	68°F	01:10 ⁽²⁶⁾	01:36	A
32563	HD-3574	0 ^h 33.6	+48° 49'	"	"	"	68°F	01:46 ⁽³⁷⁾	02:25	C
32564	HD 3627	0 ^h 34.0	+30° 19'	"	"	"	"	02:54 ⁽⁷⁾	03:01	B
32565	HD 16028	2 ^h 29.8	+36° 53'	"	"	"	66°F	03:13 ⁽⁶¹⁾	04:14	C
32566	HD 12533	1 ^h 57.8	+91° 51'	"	"	"	"	04:25 ⁽⁵⁾	04:30	A
32567	12534			"	"	"	65°F	04:34 ⁽⁹⁾	04:43	B
32567 F	Focus Test			612	DaO	"	65°F			B
32567 T1	calibration step wedge for plates				32555-32565					

612 5:53

Dome Temp. 72°F

Transparency Conditions clear, some cirrus

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12	A 0 ^h 06 ^m W	-9° 02'	2-3"	5.08	F3 II	8-8-8	Bk * Visual Binary prog.	200/240 FINE
10	B 0 ^h 06 ^m E	+38° 38'	2-3"	6.90	M2 IV	8-8-8	"	200/340 (GUIDING) U.S.L. WK
16	C 0 ^h 43 ^m W	+17° 28'	2"	7.00	M9 III	8-8-8	"	200/340 (GUIDING) U.S.L. WK
11	A 0 ^h 28 ^m W	+38° 06'	2-3"	6.3	F2 IV	8-8-8	for Dr Fernie	200/300 FINE
3:27	B 01 ^h 09 ^m W	+47° 24'	"	4.57	B1 IV	12-12	Visual Binary prog.	40/30 STRONG
52	C 0 ^h 06 ^m W	+19° 43'	2"	5.22	K1 IV	12-12	"	40/56 FINE
48	P 0 ^h 46 ^m W	+56° 38'	1-2"	6.66	M4 III	8-8-8	"	200/340 (GUIDING) FINE
26	T 1 ^h 27 ^m W	+41° 41'	"	6.06	K0 III	8-8-8	"	200/290 FINE
25	C 0 ^h 24 ^m W	+49° 12'	"	7.08	K7 III	8-8-8	"	200/300 U.S.L. WK
3:01	B 1 ^h 00 ^m W	+30° 44'	2"	4.57	K3 III	12-12	"	40/60 * U.S.L. WK
4:14	C 0 ^h 16 ^m W	+37° 11'	"	7.10	K3 III	8-8-8	"	200/500 (POOR GUIDING) WEAK
4:30	A 01 ^h 09 ^m W		"	3.62	K2 III	12-12	"	40/60 SL. STRONG
4:43	B 01 ^h 16 ^m W		"	5.08	AD	12-12	Bright companion of H012532 no filter	40/34 STRONG
							* VERY HIGH BACKGROUND FOG.	FINE

mwp - 2/4 Sept/69

309

Date 5/6 Sept. 1969 F/S Observer HL, Tm 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.
32574	HD 9996	1 ^h 32 ^m .5	+44° 54'	G12	IIa-O	9L	71°	1:43	(76) 2:59	A
32574F	focus test	in-in	out-out				"			B
									(6:12/1:16)	
	HD 126318					9L	73°	20:05		A

Dome Temp. 73°

Transparency Conditions *Haze*
 Opened at 1:15 EST

310

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:05 W	+45° 16'	2"	6.4	Ap	8-8-8	Ap program (balance off) (clouds) (last comparison at 1:15 EST) 200/118	V-52. WK
					5-5	no filter	GOOD
						clouds; closed 03 ^h .	
8-						200/160	

312

Ending Time
E.S.T.

313

20:03

314



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