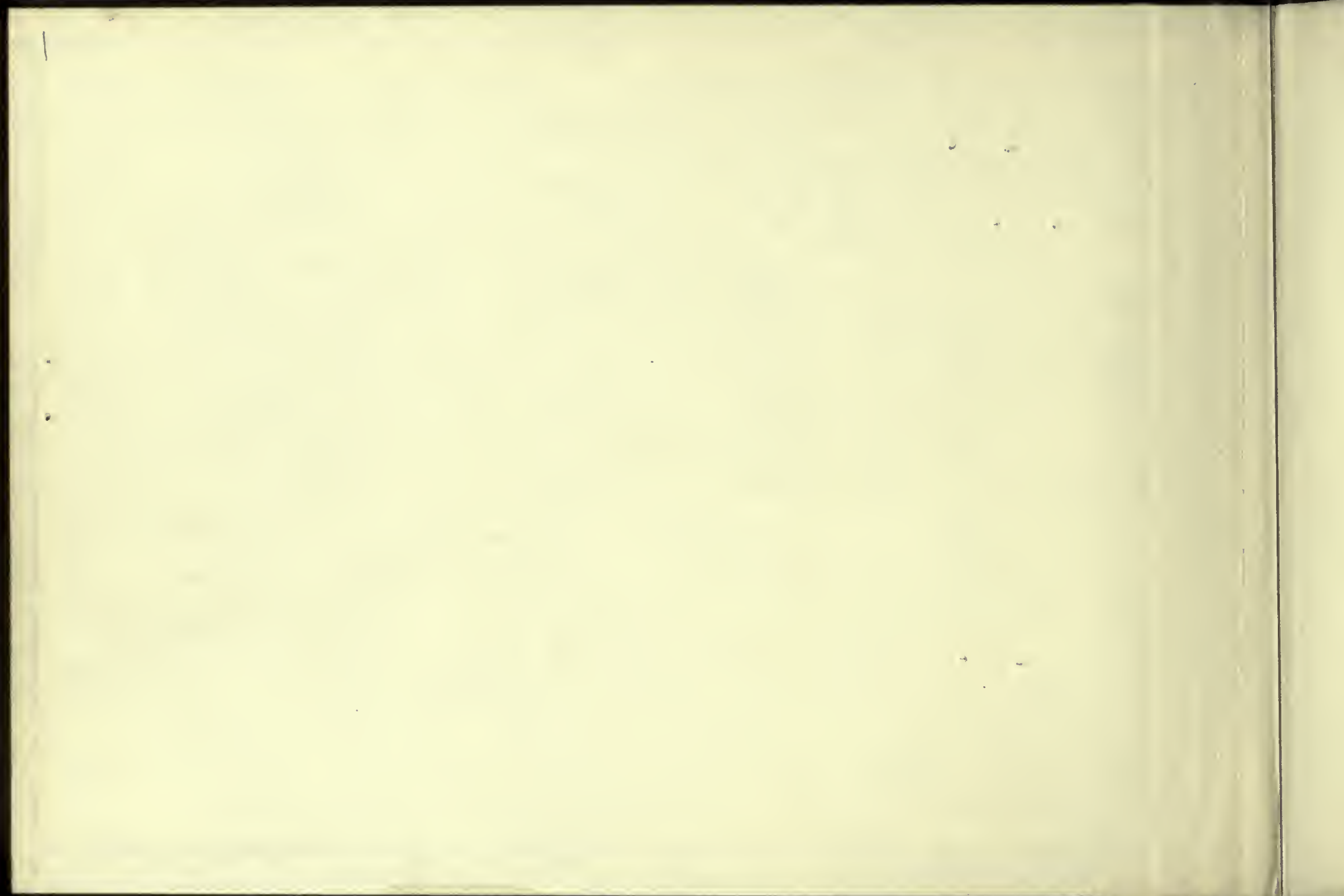


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Date Tues/Wed Apr 16/17 '68 Observer HK-FZ/Hr-Ch Julian Day

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
31085	3 Gem	06 ^h 03. ^m 7	+23° 08'	I-25	103a0	.008	10°C	20:15 ⁽⁷⁴⁾	20:31	3	03:48W
31086	4' Aur	06 ^h 17. ^m 2	+49° 20'	"	"	"	10.5°C	20:40 ⁽⁹³⁾	22:13	4	05:15W
31087	HD 115043	13 ^h 09. ^m 5	+57° 14'	"	"	"	10.5°C	22:33 ⁽⁵⁰⁾	23:03	1	00:12E
31088	HD 89449	10 ^h 14. ^m 3	+19° 59'	"	"	"	"	23:18 ⁽⁷³⁾	23:30	2	02:37W
31089	HD 89904	10 ^h 17. ^m 3	+34° 21'	"	"	"	"	23:41 ⁽⁷⁴⁾	23:51	"	02:53W
31090	HD 90569	10 ^h 22. ^m 4	+10° 16'	"	"	"	"	23:59 ⁽⁵⁹⁾	00:58	"	03:56W
31089 ⁹¹	HD 132737	14 ^h 55. ^m 6	+27° 33'	"	"	.016	10.4°C	01:11 ⁽¹¹⁾	03:09	3	01:35W
31089 ⁹²	" 140913	15 41.1	+28 47	"	"	.016	10.3°C	03:18 ⁽⁹⁴⁾	04:52	4	02:34W
92F	Focus TEST	OTB		"	"	"					

Dome Temp.

Focus 15.3

Dome Temp.

Hour Angle
End

Dome Temp. 42°F

Focus 15.31

Dome Temp.

Transparency Conditions REASONABLE

OCCASIONAL CLOUDS AFTER MIDNIGHT.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03:48W	+23° 07'	5"	6.0	B2.5Ib	3-3-3	MK Std set 5	*1 WEAK
05:15W	+48° 18'	5"	5.0mv	MOIb	3-3-3	" " 5	SL. STRONG
00:12E	+56° 53'	"	7.3	G1V	3-3-3	" " 5	SL. WEAK
02:37W	+19° 37'	4"	4.8mv	F6IV	3-3-3	FBS } set 2	FINE (GUIDING)
02:53W	+34° 05'	"	5.7mv	A3	3-3-3	" } *2 " 5	FINE ?
03:56W	+09 57	"	6.0mv	A _r	3-3-3	" } " 9	FINE
0135w	+27° 18'	"	9.03	K0III	2-1-2	SSV set 5	FINE
02 34W	+28 35	"	8.81	G0V	2-1-2	" " "	FINE
					10-8	" 9	OK

PLATES MARKED IN UPPER CORNER 2ND FROM BACK OF BOX 10/6

SLIGHTLY FAINTER STAR NEARBY - SEE FINDER FIELD 10/20

#1 P.H. Loaded in N.Pier

*1 P.H. NOT FULLY IN SPECTROGRAPH.

*2 ONLY 1 PLATE/STAR FOR THIS PROG.

Date Apr 19-20 Fri-Sat Observer Ri-Pi / Hk. ⁶⁰ Jd 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
31094 } 31095 }	HD 78362	9 ^{02.7} 10.9	63 ⁵⁵ 58	I-25	103A0	.008	14°C	20:00 ⁽⁷⁾	20:07	1	0h 5m W
31096	HD 78712	9 ^{04.6} 08.6	31 ²² 28	I-25	103A0			20:15 ⁽¹³⁾	22:25	1	2h 59 W
31097	HD 96528	11 ^{02.3} 11.9	23 ⁵² 31	I-25	103A0			22:34 ⁽³⁸⁾	23:12	2	1h 44 W
	HD 97302	11 ^{06.9} 12.8	55 ²⁶ 24	I-25	103A0			23:18 ⁽³⁾	23:49	3	2h 15 W
581-1 to 22	Nova Vul							00h 00 ^m	04h 15 ^m	1	
31098	Nova Vul	19:43.8	+26° 56'	"	"	.008	13.5°C	04h 20 ^m ⁽⁵²⁾	04h 52 ^m	1	?

Dome Temp. -

Focus - 15

Dome Temp. 3

Hour Angle
End

Dome Temp. 47°F

Focus 15.38.5

Dome Temp. 37°F

Transparency Conditions Good

16

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
07	1	0 ^h 40 ^m W	63° 38'		4.65	Am	3-3-3	FBS set 2	24/20 (100mm) (9mm)	SL. WEAK
025	1	2 ^h 54 ^m W	31° 06'	4-5	5.3	M6.5e	3-3-3	set 5	60/20	SL. WEAK
0312	2	1 ^h 44 ^m W	21° 31'	3	6.3	Am	3-3-3	set 2	24/20	SL. WEAK
03.49	3	2 ^h 15 ^m W	+55° 05'	3	6.56	A2	3-3-3	set 5	24/20	SL. WEAK
04.52			+27° 07'							
05.2		?	+27° 07'	8				FAIRLY LIGHT AT END OF EXPOSURE set 2 (manual) 20/40 set 4 (comp) set 9 (focus test)	NO COMP NOVA OK FOCUS OK	
						9				
								WHERE IS THE ROPE?		
								SLAB OF LIGHT ENTERING NORTH PIER ROOM THROUGH WOODWORK NEAR HINGE OF DOOR		

Date Wed/Thurs 24/25 April 1968 Observer Hb, ~~XX~~ 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
31099	α Leo Minor	10 ^h 01.5'	+35° 44'	I25	103ad	.008	10°C	20 07	20 16	2	00 06 W
31100	β Vir	11 45.5'	+02 20	"	"	"	"	20 48	20 55	3	01 01 E
31101	HD 86355?	09 52.7	+28 14	"	"	"	"	21 03	23 06	4	03 05 W
31101F	focus test										073

Dome Temp. 38

Focus 15.31

Dome Temp. —

Hour Angle
End

Dome Temp. 38°F

Focus 15.31

Dome Temp.

Transparency Conditions fair (cloud on horizon)

20

2020 - photometric?

2025 - cloudy! 2300 - nearly overcast.

2020-2045 - false start in photometry.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 3-3-3	REMARKS	Quality
2016	2 00 06 W	+35° 26'	~2"	4.7	A7V	3-3-3	red 2 MKStd. 1x normal 20/25	FINE
2055	3 01 01 E	+01° 57'	3"	4.2	F8V	3-6	red 2 MKStd. 1/2 x n 20/20	WEAK
306	4 03 05 W	-27 57	v. poor ~3.4	~7	F0	3-3-3	red 2 Fitzgerald Bright * about 20/40 ²⁸	SL. WEAK
		OTB / 17A				10/8	red 5	FINE

Dome Temp. 33°F

Focus 15.26

Dome Temp.

Transparency Conditions good

22

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
/	14° 34'	3-4" ^{POV}	6.24	A5	3-3	Set 2 Fitzgerald Bright *	20/25 ³ WEAK VERY
2 ^h 52' W	39° 23'	"	5.55	A2	3-3-3	AD5 (see program - plate taken already)	20/25 FINE
3 ^h 03' W	20° 21'	"	4.40	A...	3-3-3	set 9 Fitzgerald	20/25 FINE
0 ^h 44 ^m E	+01° 54'	"	5.6	G0	3-3-3	set 2 Std Vel.	20/40 FINE
0 ^h 54 ^m E	+17° 08'	"	6.1	G4	3-3-3	set 5 " "	20/40 FINE
3 ^h 20' E	38° 13'	"	5.6(B)	B6V	3-3-2	set 5 Spectroscopic binaries	20/24 FINE
1 ^h 20 ^m E	-14° 44'	8"	6(B)	B9V	3-3-3	set 5 " "	20/24 FINE
2 ^h 30 ^m E	17° 57'	5"	4.3	G0 II	3-3-3	set 5 MK Std	20/40 FINE
1 ^h 47 ^m E	27° 07'	"	-	NOVA	3-3-3	set 5 SEE FINDER PAD	20/40 FINE
2 ^h 18 ^m E	19° 02'	"	-	NOVA	3-3-3	set 5 DARK SLIDE WHEN DOME LIGHTS ON	20/40 FINE
	+38° 13'	"	5.6(B)	B6V	3-3-3	set 5 Spectroscopic binary ^{sky light} End	20/24 FINE
					set 9		FINE
<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> TELESCOPE HIT PLATFORM - NO ADVERSE EFFECT. </div>							
P.H. #2 IN N.P							

Dome Temp. 40°F

Transparency Conditions good

24

Focus 15.32

Dome Temp. 34°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1409W	-127°56'	3	6.37	F0	3/3/3	Fitzgerald Bright. 292 20/40	SL. WEAK
0432W	+140°35'	3	6.24	A5	3-3-3	" 295 20/24	SL. WEAK
0400	+170°42'		8.2	F7	3-3-3	2nd Vel 292 40/80	SL. WEAK
0405W	+490°38'	3	6.8	M2	3-3-3	" 295 20/60	FINE
0341W	+24°44'	3-4	8.74	F8V	2-1-1	SSV. 292 100/22 191	FINE
0146E	+27°06'		5.6		3-6	field same as #31108 " 5 20/20	} FINE
0125E	"		"		3-3-3	" 2 20/40	
0205E	+19°02'		5.0		9	" 2 20/40	FINE
					10/8	" 9	FOG OK CENTRE VERY WK.
						PH #3 loaded 10300 in W. Pier.	

Dome Temp. 30°F

Focus 15.26

Dome Temp.

Transparency Conditions clouds cleared off
but still hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
?	-25°23'	5	6.7	139	3 ⁵ /3 ¹ /2 ⁵		20/24 FINE
1:02 E	+27:02	5-	5.6		3/6		20/18 WEAK & P.H. NOT FULLY PUSHED INTO CAMERA
E1:02			7.30	65		plateholders #'s 1, 3, & 4 loaded with 103a-0	
<p>[something may be wrong with exp meter. seems to count very slow on NWA - EXP. MTR OK : WRONG STAR]</p>							

Dome Temp. 30°F

Transparency Conditions Good → Fair

Focus 15.22

0300 Seeing & Focus Very Poor

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:15 ^m								Clouds.	
3:13	3	0154E	2707	5	5.6	-	3-3-3	Set 2	20/20 SL. W. FINE
3:55	"	1 ^h 11 ^m E	"	"	"		3-3-3	" 5	20/40 FINE
4:09	4	0152E	+1903	"	5.0	-	3-3-3	" 2	10/20
							10/8	" 9	

Date May 6/7 1968 Mon/Tue Observer Sc Mc 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.
583-16 34								20 ^h 25 ^m	03 ^h 25 ^m	
								(7:00)		
31126	NOVA UUL.	19: 43.8	26° 56'	I-25	103 a 0	.008	5.8°c	03:38	04:06	#1
31127	NOVA DEL	20: 37.7	18° 48'	I-25	103 a 0	.008		04:09	04:19	#2
								(0.8)		

Dome Temp.

Focus 15.2

Dome Temp.

Hour Angle
End

E.O. 56

E.I. 38

Dome Temp. +42°F

Transparency Conditions FAIR - Some Clouds + Haze 36

Focus 15.37

Seeing Very Poor

Dome Temp.

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:35	1	0338W	4528	10	7.64	F.3	3-3-3	Set 5 Spect. BIN (KAPS) 100/15/	1.5L WEAK
4:15	2	0435E	27006'				3-6	2x9 20/15	VERY WEAK
							10/8	2x9 from 15.37.	FINE
								NOVA Vul. Seems Much Fainter	
								EXPOSURES should be started	
								<u>MUCH EARLIER</u>	
								1 PH in NP.	

Date Fri. May 10-11/68 Observer L. Bd/Ho Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle Est.
31130	H.D. 99707	11 03.3	67 45	I-25	E103a0	Ret 008	11.7	20 26 ¹⁵	20 41	3	0 49W
31131	" 99713?	11 05.8	68 49	"	"	"	11.7	21 00 ²⁰	21 20	4	1 08W
31132	" 99513	11 03.8	36 51	"	"	"	11.7	21 27 ¹⁰⁶	23 13	1	3 04W
31133	L Ser	15 37.1	+20 00	I 25	103a0	008		23 57 ¹⁰	00 07	2	00 33E
"	"	"	"	"	"	"		00 09 ¹⁷	00 26	"	00 14E
"	"	"	"	"	"	"		00 26 ^{4/2}	00 31	"	00 00E
31134	H.D. 136202	15 14.2	+02 09	I 25	103a0	008	11.7C	00 39 ³⁹	01 18	3	01 00W
31135	Mova Vul	19 43.8	+26 56	I 25	103a0	008		01 31 ¹⁴⁷	03 58	4	00 49E

Dome Temp.

Focus

Dome Temp.

Dome Temp. 44°F

Transparency Conditions Good

Focus 15.35

Poor after midnight

Dome Temp. 33°F

Leading Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 41	3	0 43W	67 22	1	6.04	A5	3-3-3	Set 5 Fity. Binjastan	20/24 FINE
1 20	4	1 08W	68 27	1	6.23	A2	3-3-3	" " " "	20/24 FINE
3 13	1	3 04W	36 29	1	5.74	9M35	3-3-3	" " " " haze	20/60 FINE
00 07	2	00 33E	+19 45'	~2	4.6	A1V	3-3-3	Set 2 { MK Std. 1xN thick ci	20/24 FINE
00 26	"	00 14E	" 4'	"	"	"	—	" 5' { " 2xN	20/48 STRONG
00 31	"	00 09E	" "	"	"	"	—	" 9' { " 1/2xN	20/12 WEAK
01 18	3	01 00W	+01 5.4	2"	5.6	A0	3-3-3	Set 2 Std. Vel.	20/40 FINE
3 58	4	00 49E	+27° 06'	~2"	~6?	—	3-3-3	Set 2 field drawn - clouds	20/40 ³³ SL. WEAK
Ph. #1, 2, 3 loaded in north pier.									

Saturday May 11: 144 Visitors: Showed slides and gave talk. Ai, Pe, Hr.

Date Mon/Tues May 13/14 Observer Sc/Gs / m.sc. - Bg 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 East
31136	HD 115612	13 13.2	+68 56	I-25	103a0	008	15.3	20:36 ²⁰	21:00	3	1:05E
31137	HD 107328	12 15.3	+03 53	"	"	"	"	21:24 ⁵⁵	22:19	1	1:10W
31138	HD 114762	13 07.5	+18 02	"	"	"	"	21:43 ¹⁶	01:29	4	w3:30
31139	NOVA UHL	19:43.8	+27° 56'	I-25	103a0	1016	"	1:39 ⁴	2:20	2	E2:15
"	"	"	"	"	"	"	"	2:24 ¹⁹	2:39	2	E1:56
31140	HD 150553	19: 11.9	27° 17'	I-25	103a0	1008	"	2:45 ²⁷	3:12	3	E0:52
31141	HD 156547	19: 40.0	+13° 03'	I-25	103a0	1008	"	3:16 ²⁵	3:41	3	E0:50
31142	NOVA DEL	20: 37.7	+18° 48'	I-25	"	"	"	3:45 ¹	3:56	1	E1:33
"	"	"	"	"	"	"	"	3:56 ⁵	4:01	1	E1:28
<u>Focus test</u>				<u>G108</u>		<u>50°</u>					
<u>Changed</u>											

Done Temp. 15.4
Focus 15.4
Done Temp.

Dome Temp. 48°F

Focus 15.41

Dome Temp.

Transparency Conditions GOOD

(occasional small cloud)

40

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:00	3	1:05 E	+68:35	4"	6.09	B9	3-3-3	(d&e)	20/24 (GUIDING) FINE
1:19	1	1:10 W	+3:31	"	6.1	K1	4-2-3		20/40 FINE
1:29	4	W 3:30	+17:43	"	8.2	F7	3-3-3	"spotter" Acting odd - will not work	20/30 ¹⁹⁴ SL. WEAK
1:20	2	E 2:15	+27:07	"	~6	NOVA	3-2	set 5 automatically #31138 - huge & seeing	20/40 ¹⁹⁴ SL. WEAK
1:31	2	E 1:56	"	"	"	"	2-2	set 8 setting much worse	20/20 WEAK
1:32	3	E 0:52	+27:25	3-4"	6.2	B9	3-3-3	B8-B9 Bin set 2	20/24 (GUIDING) FINE
1:41	3	E 0:50	+13:17	"	6.07	B8	3-3-3	B8-B9 Bin set 5	20/24 FINE
1:56	1	E 1:33	+19:03	4"	"	NOVA	3-3-3	set 2	20/40 FINE
1:01	1	E 1:28	"	"	"	"	9	set 5	20/20 WEAK
					P.H.	Focus			
					A	64			
					B	70	numbers increasing 20/30 with G40 filter		

41

May 15/68. Changed to I-12. Focus 12.75" | I-25 was tilt 23.23" |
Tilt 20.3

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

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31142 F ₁	focus test				Lantern	008	13°C		OTB	3
31142 F ₂	"				"	"	"			3

	May 16/68		Focus of new grating.				T = 47°F			
31142 F ₃	focus test					13				A
" F ₄	"					13				B
	17 May/68		(L-Hb, -Sc - msc)				T = 50°F			
31142 F ₅	focus test		iron/carbon							
F ₆										
F ₇										
F ₈										
F ₉										
F ₁₀										

Dome Temp.
Focus
Dome Temp.

Flare angle
Ecl

Focus
Focus

pl. a

Dome Temp.

Transparency Conditions

49

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
A					7/7		
2 hrs in C W	Focus 45				7/7		47 w d.c. to w 37 w d.c. to t.
A			G12 filter		7/7	focus 42	
B			"	"	"	46	
C			"	"	"	50	

45 Visitors: 1st - 67
2nd - 97] shown Jupiter Bn, Ch, Bb

Date MAY 18/19, 1968 Observer Ch. / Gs 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
31143	♄ Her	16 17.5	+19° 23'	I12.5	10390	008	11.2°C	23:37 ²	23:39	4	1:11 E
31144	HD 146001	16 08.8	-25° 13'	"	"	"	"	00:15 ²⁶	00:41	1	0:00
31145	HD 174567	18 14.6	+31° 31'	"	"	"	"	01:01 ¹⁰	1:11	3	2:07 E
31146	HD 173117	18 38.6	-25° 05'	"	"	"	"	01:30 ²⁸	01:58	2	01:13 E
31147	HD 171961	18 32.4	-23 36	"	"	"	"	02:10 ²⁵	02:35	1	00:30 E
31148	NOVA VUL.	19 43.8	+26° 56'	"	"	"	"	03:01 ⁴⁴	03:45	3	00:31 E
31148F	FOCUS TEST	ITB/OTB									

Dome Temp. 4

Focus 12.6

Dome Temp.

Dome Temp. 40°F

Focus 12.65

Dome Temp.

Transparency Conditions Good

NB

→ Clouds in south prohibited work on -dec. stars.
6" Finder; focus of stars is impossible; if pull out
exposed to focus, cannot see X hairs! RHC

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:11 E	+19:14	3"	4.0	A9 III	1-2-1	MK Standards Set 2 (1x)	20/8 starting
0:00	-25 22	3	6.7	B9	1-2-1	Set 5 B8-B9 *	40/16 SL. WEAK
2:07 E	+31:37	3	6.5	B9	1-2-1	Set 5 B8-B9 **	40/16 FINE
01 13 E	-25 01	4	6.4	B8	1-2-1	Set 5 B8-B9 Prog	40/16 FINE
00 30 E	-23:30	4	5.73	B9	1-2-1	Set 5	40/16 FINE
00 31 E	+27:07	2-3"	?	?	1-2-1	Set 5 ^u Nova Vul.	40/29 FINE
					3-4		NO OUTSIDE COMPARISON

* The plate is marked ³¹¹45 but it is actually ³¹¹44
** Plate marked 145

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

Focus 12.65

Dome Temp.

Transparency Conditions *Clouds around horizon*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:32W	$+56^{\circ}53'$	2"	7.3	G1V	1-2-1	(finder badly out of focus - focused ^(1/2 normal) 29/7)	WEAK
—	"	"	"	"	1-2-1	MIC ST. list not in box - (2x) field _{view} 20/28	STRONG (GUIDING)
0:48W	$+45^{\circ}25'$		7.64	F3	1-2-1	20/25	FINE
						clouds.	
						PH #3 loaded in m. pier	

Dome Temp. 460F

Transparency Conditions *curious + haze*

50

Focus 12.65

Dome Temp.

Timing Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
45	3	14 22 W	+02 00 08'	3	5.55	sg G7	1-2-1	Fitz Bright Star <i>sg 5</i> 20/14	SL. WEAK
08	4	04 32 W	+03 0 32'		6.1	K#	1-2-1	<i>std. val.</i> <i>sg 2</i> 20/14	FINE
39		04 45 E	+49 38'	3	6.8	M 2	1-2-1	" " <i>sg 5</i> 20/20	FINE
22		04 53 W	+17 0 42'		8.2	F 7	1-2-1	" " <i>field drawn</i> <i>sg 9</i> 40/28	(GUIDING) SL. WEAK
46	1	04 35 W	+45 0 26'	3-4	7.64	F 3	1-2-1	<i>Spec. Binary (KAFS)</i> <i>sg 5</i> 40/28	(GUIDING) SL. WEAK
55	2	04 00	+36 0 44'		5.1	BBn	1-2-1	" " " <i>sg 5</i> 20/8	FINE
								Clouded in 00:00	
								2 P.H. loaded in N.P.	

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Date 22-23 May 1968 / Wed - Thurs Observer M. F. / F. R. Julian Day 175

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
31157	HD 94480	10:49.3	+26° 01'	I-12 1/2	103a0	.00E	+13.3°C	20:31	20:45 ⁽¹⁹⁾	3	W 1:37
31158	HD 94497	10:49.4	34° 34'	I-12 1/2	103a0	.00E	"	20:48	21:01 ⁽²⁰⁾	3	W 1:54
31159	HD 94602 br	10:50.2	25° 17'	I-12 1/2	103a0	.00E	"	21:04	21:06 ⁽²¹⁾	3	W 1:57
31160	HD 94602 FF	10:50.2	25° 17'	"	"	"	"	21:07	21:24 ⁽²²⁾	4	W 2:15
31161	HD 95216	10:54.5	+12° 14'	I-12 1/2	103a0	.00E	"	21:28	22:06 ⁽²³⁾	4	W 2:53
31162	HD 95241	10:54.7	43° 27' ^{43° 07'}	I-12 1/2	103a0	.00E	"	22:10	22:33 ⁽²³⁾	4	W 3:22
31163	MHα 328-116	19 55.0	+39 41	I-12 1/2	IaO	.00E	"	23:03	01:03 ⁽²⁴⁾	4	E 3:07
31164	γ Her	16 17.5	19 23	"	103a0	.00E	"	01:15	01:26 ⁽²⁴⁾	1	W 0:52
	Focus Test										

Dome Temp. 4

Focus 12.65

Dome Temp. 3

Hour Angle
End

Dome Temp. 46.0 F

Transparency Conditions VERY GOOD some cirrus 52

Focus 12.65

* TELEPHONE IN DOME DOES NOT WORK.

Dome Temp. 39.0 F

0:45 Clouds

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:45	W 1:37	25° 41'	2-5"	6.09	A m	1-2-1	FBSC set 2	20/8 FINE
21:01	W 1:54	34° 12'	2-3"	5.72	g67	1-2-1	FBSC " 5	20/14 FINE
21:03	W 1:57	24° 56'	2-3"	6.30	A1 m	1-2-1	FBSC " 9	20/8 FINE
21:24	W 2:15	24° 56'	2-3"	?	?	1-2-1	" Set 2 (guided to one side)	20/8 EXP. OK
22:06	W 2:53	11 54	2-4"	6.40	F5	1-2-1	FBSC " 5	20/14 FINE
22:33	W 3:22	43 07	2-5"	6.03	d60	1-2-1	FBSC " 9	20/14 FINE
21:38	E 3:07	39 44	2-5"	11?	em	2-	Fem* " 5 brighter than 'a' in field	800/25) * SL. WEAK
							clouded out @ 0:45	FINE
21:26	W 0752	19 15	5	4.4	A9 II	1-2-1	MK SET Sot 5 thru cloud	20/8 U.S.L. CT. U.I.
							3/4 Sot-9 Clouded right out	
							2 loaded P.H. in N.P.	
							* I do plates are slightly fogged due to age.	

Date Fri May 24-25/65 Observer L-Ne/Hb Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31165	HD 106926	12 12.7	+ 15 42	I-12½	103A0	^{5 slit} .008	16.0	20 56 ⁽⁴⁸⁾	21 44	3	1 21 W
31166	" 118295	13 31.0	+ 44 43	"	"	"	16.0	22 02 ⁽²⁰⁾	22 22	4	0 42 W
31167	" 125538	14 14.8	+ 39 14	"	"	"	16.0	22 34 ⁽¹⁸⁾	22 52	1	6 27 W
31168	" 127043	14 24.1	+ 28 44	"	"	"	16.0	23 03 ⁽³⁶⁾	23 39	2	1 06 W
31169	" 133408	14 59.2	+ 05 53	"	"	"	16.0	23 51 ⁽⁴⁸⁾	00 52	3	01 40 W
31170	HD 161701	17 41.9	- 14 42	"	"	"	16	01 01 ⁽⁴³⁾	01 14	4	00 38 E
	focus test				OTB/17A						
31171	HD 176318	18 54.6	+ 38 07	"	"	"	16	01 20 ⁽⁴⁾	01 24	1	01 38 E
"	"	"	"	"	"	"	15.80	03 20	03 29	"	00 26 W
31172	Nova Vul	19 43.8	+ 26 56	I 12½	103aU	.008	16	01 30 ⁽⁴⁸⁾	02 18	2	0 35 E
"	"	"	"	"	"	"	"	02 19 ⁽²⁴⁾	02 43	"	01 10 E
31173	Nova Del.	20 37.7	+ 18 55	"	"	"	"	02 43 ⁽¹⁾	02 59	3	01 46 E
"	"	"	"	"	"	"	"	03 50	03 07	"	01 35 E
								03 01 ⁽⁵⁾	03 12		01 34 E

→ 1 Ph. loaded with pres ←

Dome Temp. 51°F

Transparency Conditions Excellent

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Focus 12.65

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
21 44	3	1 21 W	15 20	0-1	6.40	K ₀	1-2-1	FBSP Set 5	20/14 FINE	
22 22	4	0 42 W	44 24	1-2	6.63	F ₀	1-2-1	" "	20/14 FINE	
22 52	1	0 27 W	38 56	1-2	6.40	G ₅	1-2-1	" "	20/14 FINE	
23 39	2	1 06 W	28 27	1-2	7.45	A ₀	1-2-1	" "	20/8 GOOD	
00 52	3	01 40 W	05 44	2-3	7.06	F ₀	1-2-1	" "	20/14 FINE	
01 14	4	00 38 E	-14 42	2-3	6.0	B ₉	1-3	B8-9 SB Set 2	20/8 GOOD	
							7/4	" 6	FOCUS OK	
01 24		01 38 E	38 13	2	5.6	B _{6V}	2-2	} B8-9 SB Set 2	20/8 FINE	
03 28		00 26 W	38 14		"	"	2-2		} 5	20/10 FINE
02 18	2	01 35 E	+27 06	1-2	~6	red	2-2	} Set 2 field check OK	20/15 FINE	
02 53	"	01 10 E	"	"	"	"	2-2		" 5	20/7 1/2 FINE
02 59	3	01 46 E	+19 02	1-2	~5		2-2	} Set 2	20/15 FINE	
03 07	"	01 39 E	"				2-2		" 5	20/10 FINE
03 12	"	01 34 E	"				4		" 9	20/5 FINE

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VISITORS 155 showed Jupiter, slides in dome
AOL, NYDate ~~Sept~~ May 25-26 Observer GS NY 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.	Flow Angle End
31174	HD 133962	15 ^h 02.1	+48° 32'	I-12 $\frac{1}{2}$	103 A ₀	1008	14.8	22 47	23:55	1	00.49W
31175	HD 133388	14 ^h 59.1	+60° 36'	I-12 $\frac{1}{2}$	"	"	"	00 02	00-09	2	01.06W
31176	HD 161701	17 ^h 41.9	-14° 42'	"	"	4	"	00 30	00 48	3	01.00E
31177	HD 165814	18 ^h 02.7	-25 29	"	"	"	"	00 57	2 23	4	00.11W
31178	NOVA Vul	19 43.8	+26 56	"	"	"	"	02 41	03 36	1	00.07E
	FOCUS TEST		OTB/1TA								

Dome Temp. 4

Focus 126

Dome Temp. 4

Flow Angle
End

Dome Temp. 46°F

Transparency Conditions GOOD

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Focus 12.65

Dome Temp. 41°F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:55	1	00 49W	48° 16'	2-3	5.52	A0	1-2-1	FBSP SET 1	20/8 FINE
009	2	01 06W	60° 19'	"	5.85	A2	1-2-1	" SET 2	20/8 FINE
048	3	01 00E	-14° 44'	"	6.0	B9I	1-2-1	Brush S.B. SET 2	20/8 FINE
013	4	00 11W	-25° 29'	3-4	6.6	B5V	2-1-1	" " SET 2	20/8 FINE
033	1	00 07E	27 07	4.5	~6	?	1-2-1	SET 2	20/7.5 SL. WEAK
HAZE THICKENING CLOUDS IN N.E.									
7/4									FOCUS OK
RA slipping (R.A. clutched?)									
#2,3 P.H. loaded (in North Pier)									

Date June 3/4 Mon/Tues 1968 Observer Hb, Ne, Jeffers 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
31179	HD 110951	12 ^h 40. ^m 6	+8° 13'	I12½	103a0	.008	17°C	21 10 ⁽³⁰⁾ (20 54)	21 24	2	01 13W
31180	HD 112097	12 48.8	+12 58	"	"	"	"	21 33 ^(24.5)	21 57½	"	01 39W
31181	HD 113848	13 01.5	+21 41	"	"	"	"	22 10 ⁽³⁰⁾	22 47	"	02 15W
31182	HD 124570	14 09.3	+13 26	"	"	"	"	22 54 ⁽²⁶⁾	23 14	3	02 35W
31183	HD 129174	14 36.0	+16 51	"	"	"	"	23 20 ⁽⁴⁾	23 24	"	01 18W
31184	HD 129175	14 36.0	+16 51	"	"	"	"	23 26 ⁽³⁾	23 39	"	01 33W
31185	HD 132772	14 55.8	+39° 40'	"	"	"	19°C	23 49 ⁽³⁾	00 02	4	01 41W
31186	HD 161701	17 41.9	-14 42	"	"	"	"	00 17 ^(20.5)	00 37½	1	00 35E
31187	HD 176318	18 54.6	+38 07	"	"	"	"	00 50 ⁽⁸⁾	00 59	2	02 5E
31188	16 Sag	18 09.3	-20 25	"	"	"	"	01 10 ⁽²¹⁾	01 31	3	00 08E
31189	Novae Vul	19 43.8	+26 56	"	"	"	"	01 42 ⁽⁴²⁾	03 02	4	00 10E
31190	HD 176318	18 54.6	+38 07	"	"	"	"	03 11 ⁽⁸⁾	03 19	1	00 55W

Dome Temp.

Focus 12.

Dome Temp.

Hour Angle
End

Dome Temp. 51°F

Focus 12.65

Dome Temp.

Transparency Conditions Good on opening up 58
Poor by 2050 then clearing

FRANK: exposimeter does not return to zero unless top of scale is reached OK hr

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 13W	+7° 52'	2"	5.2	Am	2-2	Set 2 } Fitzgerald Bight + clouds 20/8	FINE
01 39W	+12° 37'	~2"	6.25	Am	2-2	5' } " 20/8	FINE
02 15W			~6.3	DFI	4	9' } " 20/14	FINE
01 35W	+13° 08'	~3"	~6	DFG	2-2	Set 2 } " 20/14	FINE
01 18W	+16° 36'	~3"	4.9	Ap	2	5' } " 20/8	FINE
01 33W	+16° 36'	~2"	5.8	Am	2-2	" 9' } " 20/8	FINE
01 41W	+39° 24'	~2.3"	6.0	F2	2-2	Set 2 " 20/14	FINE
00 37E	-14° 42'	3"	6.0	B9I	2-2	Set 2 B8-9 SB 20/9	FINE
01 25E	+38 14		5.6	B6V	4	Set 2 " 20/19	FINE
00 08E	-20° 22'	~4"	6.0	O9II	4	set 2 MK Std. 1/2 normal 20/5	WEAK
00 10E	+27° 06'	~3"	~6	-	2-2	Set 2 Field OK 20/15	FINE
00 55 ^W	+38° 13'	~2"	5.6	B6V	2-	Set 2 B8-9 SB 20/9	FINE

Ph #2, 3, 4 loaded in north pier

Date *Trans - Wed 4-5 June 1968* Observer *G. S. Rose* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
31191	HD119126	13:36.3	+23° 00'	I-12 1/2	10300	.008	22.6°C	21:01	21:17	2	W. 13
31192	HD110914	12:40.4	+45° 49'	I-12 1/2	10300	.008	"	22:13	22:23	2	W. 17
31193	HD 111133	12:42.0	+6° 30'	I-12 1/2	10300	.008	"	22:30	22:46	2	W. 38
31194	HD 111421	12:44.1	+49° 01'	I-12 1/2	10300	.008	"	22:54	23:10	3	3:01
31195	HD111862	12:47.2	+17° 37'	I-12 1/2	10300	.008	"	23:23	23:57	3	W. 3:44
31196	HD 114889	13:08.4	+19° 15'	I-12 1/2	10300	.008	"	0:02	0:22	3	W. 3:47
31197	HD176318	18:54.6	38° 07'	I-12 1/2	10300	.008	"	0:31	0:43	4	E. 36
31198	HD161701	17:41.9	-14° 42'	I-12 1/2	10300	.008	"	0:53	1:23	4	W. 3:5
31201	HD 176318	18:54.6	38° 07'	I-12 1/2	10300	.008	"	3:10	3:20	4	W. 1:01
31199	NOVA ULL.	19:43.8	26° 56'	I-12 1/2	10300	.008	"	1:31	2:41	1	E. 2:28
31200	NOVA DEL	20:37.7	+18° 48'	I-12 1/2	10300	.008	"	2:47	2:59	2	E. 0:04
"	"	"	"	"	"	"	"	2:59 1/2	3:04 1/2	2	E. 0:54

Dome Temp. ...

Focus ...

Dome Temp. ...

How Angle
End

Dome Temp. 62° F
 Focus 12.65
 Dome Temp. 53° F

Transparency Conditions Very good 60
 → Excellent

EXP. MTR MALFUNCTION: APPEARS AS THOUGH PMT.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	NOT GETTING HIGH VOLTAGE ACTION & H.V. POWER SUPPLY SEEMS OK.	Quality
1:17	2	W0:13	22° 39'	2.3"	5.63	g69	1-3	FBSC	2	FINE
2:23	2	W2:17	45° 37.5'	2-3"	4.8	C	1-2-1	FBSC*	5	WEAK
2:46	2	W2:38	+6° 09'	"	6.35	Ap	1-3	FBSC	9	SL. WEAK
3:10	3	3:01 W	+48° 39'	3-4"	6.27	Am	1-3	FBSC	2	SL. WEAK
3:57	3	W3:44	+17° 16'	3-4"	6.38	g10	1-2-1	FBSC	5	SL. WEAK
4:22	3	W3:47	+18° 55'	3-4"	6.27	K1	1-3	FBSC	9	FINE
4:43	4	E1:36	38° 13'	2"	5.6	B6U	1-3	B8-B9 (SB)	2	FINE
1:23	4	W0:15	-14° 41'	3-4"	6.0	B9I	1-3	B8-B9 (SB)	5	FINE
3:20	4	W1:01	38° 13'		5.6	B6U	1-	B8-B9 (SB)	9	FINE
2:41	1	E0:28	+27° 06'	2.3"	?	NOVA	1-2-1		5	SL. WEAK
2:59	2	E1:04	+19° 03'	2-3"	?	NOVA	1-3		2	FINE
3:04 1/2	2	E0:59	"				1		6	WEAK

NO P.H. LOADED

* LOST ~ 1 HR: ELECTRICIANS LEFT TEST TROLLEY IN THE WAY - JAMMED BY DOME - CALLED GERRY.

Dome Temp. 68°FFocus 12.65"Dome Temp. 58°FTransparency Conditions excellent

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Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:13	1	04 17W	+14 30		6.31	gFO	1-2-1	FBSC set 2 <u>900V</u> 20/14	FINE
1:44	1	04 47W	+18 27		6.31	gK6	1-2-1	" set 5 20/14	SL. WEAK
2:09	1	04 53W	+140 49'	2-3	6.01	gK5	1-2-1	" set 9 20/14	SL. WEAK
2:39	2	14 05W	+200 17		6.30	dFS	1-2-1	" set 2 20/14	FINE
3:10	2	14 35W	+150 26'		5.86	gM3	1-2-1	" set 5 20/20	SL. WEAK
3:36	2	14 25W	+150 52	3-4	6.35	dF9+dF9	1-2-1	" set 9 20/14	FINE
3:55	3	14 10E	-140 42		6.0	B9I	1-3	B8-B9 (SB) set 2 20/8	SL. WEAK
4:00	3	04 45E	-25 27		6.6	B5II	1-3	B8-B9 (SB) set 5 20/8	WEAK
4:52	3	14 24E	+380 13'		5.6	B6D	1-3	B8-B9 (SB) set 9 20/8	SL. WEAK
5:16	4	04 12W	-140 41'		6.0	B9I	1-3	B8-B9 (SB) set 2 20/8	SL. WEAK
6:32	1	04 33E	+270 06	2-3		nova	1-2-1	field drawn set 2 20/15	SL. WEAK
6:46	4	04 30W	+380 14'		5.6	B6D	1-2-1	B8-B9 (SB) set 5 20/8	SL. WEAK
7:59	2	04 16W	+000 17		5.2	F2Ib	3-1	Mk. STD. 1/2xN set 2 20/7	SL. WEAK
8:23	3	04 35E	+190 05'			NOVA	1-2-1	set 2 20/14	FINE
8:30	3	04 29E	+190 05'				1-2-1	set 5 20/7	WEAK
							8/4	* on the same plate NO loaded plate holder set 9	OK

Dome Temp. 68°F ① MIRROR HEAT TIMER RESET.
 Focus 12.65 ② INSTRUMENT ROOM TOO HOT!!
 WINDOWS OPENED.

Transparency Conditions GOOD

69.

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								-900V.	
2159	1	01:21W	+37 13	2-3	^{MV} 6.17	gM4	1-2-1	FBSC SET 5	40/40 FINE
239	2	?	+36 21		6.06	Ko	2-1-1	" " 5	40/ 29 FINE
2240 → 0200 TROUBLE WITH RA SETTING MOTOR CLUTCH, NO LOCK									

JUNE 8: 160 VISITORS: SHOWED JUPITER FIRST GROUP (OK)
 " M13 2nd GROUP (MUCH TOO FAINT TO IMPRESS WITH FULL MOON, MEDIOCRE SEEING)

Date JUNE 8-9/68 Sat/Sun Observer Gs/Ne 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.
31220	HD 128332	^{14 33.3} 14 31.3	^{57 12} +57 30	J12	103 ad	008	22.2°C	23 56 ⁽³²⁾	00 28	4
31221	HD 128998	^{37.3} 14 35.1	⁰⁹ +54 27	"	"	"	"	00 36 ⁽¹⁰⁾	00 46	1
31222	HD 129002	^{37.3} 14 35.1	³² +44 50	"	"	"	22.7°C	00 51 ⁽⁹⁾	01 00	2
31223	HD 131040	^{48.5} 14 46.3	³¹ +51 47	"	"	"	"	01 10 ⁽³⁸⁾	01 48	3
31224	HD 131041	^{48.5} 14 46.3	^{48 52} +49 08	"	"	"	"	01 58	02 36	4
31225	NOVA VUL	19 43.8	+26 56'	"	"	"	"	02 46	03 09	1
31225 F	FOCUS TEST		OTB/ITA							

Dome Temp. 81
 Focus 12.65
 Dome Temp. 53

Hour angle
 End
 02 45
 03 01
 03 15
 03 53
 04 41
 ?

Dome Temp. 58° F

Focus 12.65

Dome Temp. 59° F

Transparency Conditions Hazy

BAD AFTER 1:00 (SEEING GOOD)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							-900 V.	
00 28	2 47 W	+57 13	2"-3	6.28	F5	1-2-1	FBSC. SET 2	20/14 FINE
00 46	03 01 W	+54 09	"	5.48	A0	1-2-1	" SET 5	20/8 COMPAR. WEAK FINE
01 00	03 15 W	+44 31	1"-2	5.36	A0	1-2-1	" SET 5	20/8 WEAK COMP. FINE
01 48	03 53 W	+51 32	1"-2	6.36	A F4	1-2-1	" SET 5	20/14 WEAK COMP. FINE
02 36	04 41 W	+48 52	2"-3	5.60	A F6 + A F5	1-3 *	" SET 5	20/14 FINE
03 09	?	+27 06	"	NOVA		1-3	SET 5	20/5 WEAK
							HEAVY HAZE (FULL MOON NOT VISIBLE)	
						7/4	SET 9	SLC TO VI.
							#2 P.H. LOADED (IN NORTH PIER)	
							* DOUBLE STAR (DONE THE ONE WITH LOWER DECL., 2 nd STAR NOT DONE WAS ABOVE THE SHOT)	

Dome Temp. 47°F

Transparency Conditions clouds in north

Focus 12.65

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 34W	+36 48	+	6.11	gk5	1-2-1	FB.SC. 900 ✓ 20/13	BLACK*
					8/4	clouded over sets-	OK
						1 loaded P.H. in N.P. #1 P.H. in fig	
						* REMAINDER OF UNEXP. PLATES APPEAR OK.	

Date 19.22 June 1968 Wed. Thurs Observer S. P. R. M. S. Julian Day 244518.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31227	NGC 5904	15:16.9	+2° 13'	NEWT	10300			9:26:05	9:28:05		E0:13
31228	5634	14:27.8	-5° 50'					9:34:00	9:44:00		W0:49
229	6218	16:45.4	-1° 54''					9:54.12	9:56.12		E1:13
230	6254	18 55.3	-40 04'					10:03.55	10:05.55		E1:13
231	5897	15 15.5	-20° 52'					10:14.26	10:24.26		W0:45
232	5634	14 27.8	-5° 50'					10:30.10	10:44.10		W1:02
233	"	"	"					10:46:43	11:00.43		W1:08
234	5897	15:15.5	-20° 52'					11:13:02	11:23.02		W1:44
235	6402	17:35.8	-3° 13'					11 27:37	11:39:37		E0:19
236	6366	17:25.9	-5° 02'					11:45:25	11:55:25		W0:06
237	6356	17:21.6	-17° 47'					12:04:30	12:12:30		W0:28
238	6093	16:15.0	-22° 55'					12:16:22	00:24.20		W1:31
239	6356	17:21.6	-17° 47'					00 32.10	00:40.10		W1:56
240	6342	17:19.2	-19° 33'					00:46:17	01:00.17		W1:17
31241	6356	17:21.6	-17° 47'					01:05.50	01:13.50		W1:29
31242	6401	17:36.5	-23° 53'					01:21.17	01:33.17		W1:33

Dome Temp.

Focus

Dome Temp.

Hour Angle

End

Dome Temp. 49°F

Transparency Conditions *very good*

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXP (min) Comp.	REMARKS	Quality
9:28:05	EO:13					2		
9:48:00	WO:49					10	golf range lights lead	
9:56:12	E1:13					2		
10:05:55	E1:13					2	Dunda guiders	
10:24:26	WO:45					10		
10:44:10	W1:02					14	10:30 EST → golf lights out.	
11:00:43	W1:08					14	focus star (2.2k)	
11:23:02	W1:44					10	(INTERMITTENT) BAD DRIFT IN R.A.	
11:39:37	EO:19					12		
11:55:25	WO:06					10	took two counterweights off	
12:12:30	WO:28					8		
12:24:20	W1:31					8		
12:40:10	WO:56					8	R.A. OK NOW	
01:00:17	W1:17					14		
01:13:50	W1:29					8	seeing X	
01:33:17	W1:33					12		

Dome Temp.

Transparency Conditions

Focus

Dome Temp. 44°F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:40:39		W 2:02					8	clouds in the S.W.	
03:27		W 2:04					12		
2:17:45		E 1:37					2	Linda guiding	
02:33:10		W 1:35					4	clouds passing by	
3:01:30		W 2:16					6	waiting for clouds to pass	
3:11:30		E 0:44					2		
03:15:44		E 0:38					0.5	Splendid sight, despite a few clouds	

Date JUNE 20/21/68 / Thurs - Fri Observer S-PI-Ri-Hr Julian Day

Plate No.	Object	R.A. 1900 1966	Declination 1900 1966	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31250	NGC 5904	15 16.9	+0213	NEWT	103a0			21 22 ¹⁰	21 24 ¹⁰	1	E0 ¹⁰
31251	5634	14 27.8	-0550					21 31 ⁰⁵	21 43	2	W0 ⁴⁵
31252	6218	16 45.4	-0154					21 50 ³⁵	21 54 ³⁵	1	E1 ⁴¹
31253	6254	16 55.3	-0404					22 00 ⁰⁵	22 04		E1 ⁴¹
31254	5904	15 16.9	+0213					22 10 ¹⁵	22 12 ¹⁵		E1 ³⁴
31255	5897	15 15.5	-2052					22 18 ⁵⁰	22 28 ⁵⁰		W0 ⁵⁴
31256	6366	17 25.9	-0502					22 35 ³⁰	22 45 ³⁰		E1 ⁰⁰
31257	6402	17 35.8	-0313					22 50	23 02		E0 ⁵⁴
31258	5634	14 27.8	-0550					23 08 ²⁰	23 20		W2 ³³
31259	5897	15 15.5	-2052								
31259	6535	18 02.1	-0018					23 38	23 50		E0 ³²
31260	6356	17 21.6	-1747					23 58 ³⁰	00 04		W0 ³⁴
31261	6093	16 15.0	-2255					00 22 ³⁰	00 30 ³⁰		W1 ⁵⁵
31262	6366	17 25.9	-0502					00 34 ⁵⁰	00 44 ⁵⁰		W1 ⁰⁰
31263	6402	17 35.8	-0313					00 50	01 02		W1 ⁰⁷
31264	6356	17 21.6	-1747					01 06 ¹⁰	01 14 ¹⁰		W1 ³³

Dome Temp. —

Focus —

Dome Temp. —

Hour Angle
End

Dome Temp. $+45^{\circ}\text{F}$

Transparency Conditions $V. \text{ Good}$

76

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXP. Comp.	REMARKS	Quality
21 24 ³	1	E 0 ^h 12					2 ^m	1 focus* & Ser ^{UNGUIDED} Seeing Poor	
21 43	2	W 0 ^h 55					12 ^m		
21 52 ³⁵	1	E 1 ^h 11					4 ^m	PI Guiding	
22 04		E 1 ^h 11					4 ^m	" "	
22 12 ¹⁶		E 1 ^h 24					2 ^m	2 Searchlights	
22 22 ⁵		W 0 ^h 54					10 ^m		
22 35 ³⁰		E 1 ^h 00					10 ^m	PI Guiding <u>2238</u> GOLF LIGHTS OFF	
23 02		E 0 ^h 54					12 ^m		
23 22		W 2 ^h 33					12 ^m		
		—					—	Thin Cloud in S.W.	
23 35		E 0 ^h 32					12 ^m		
23 54		W 0 ^h 24					8 ^m		
00 30 ³³		W 1 ^h 55					8 ^m	focus* n Oph AB Focus OK	
00 47 ⁵⁰		W 1 ^h 00					10 ^m	PI GUIDING.	
01 02		W 1 ^h 07					12 ^m		
01 14		W 1 ^h 33					8 ^m		

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

Transparency Conditions

78

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXP. Comp.	REMARKS	Quality
							—	SKY MUCH BETTER	
133 ³⁰		W1412					12 ^m		
214 ²⁰		W0453					4 ^m	Filling in in southwest	
203		W1439					10 ^m		
215 ³⁵		E1435					2 ^m	PI GUID. Filling in in south	
227 ¹⁵		W0418					4 ^m	" " Clouds everywhere now	

Date JUNE 22/23 1968 Observer GS - Ne Julian Day _____
 SAT./SUN

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
31270	HD 161701	17 41.9	-14° 42'	I 12 1/2	103 a0	008	14.9°C	23:30 ⁽²⁵⁾	23:50 ⁽⁴⁶⁾	2	00 05E-
31271	HD 165814	18 02.7	-25° 29'	"	"	"	"	23:59 ⁽²⁹⁾	00:45	1	00 26W-
31272	HD 183143	19 23.0	+18° 05'	"	"	"	"	01:09 ⁽⁹⁹⁾	01:38	2	00 00+
31273	HD 183143	19 23.0	+18° 05'	"	"	"	15.9°C	01:59 ⁽³²⁾	02 48	3	01 10W+
31274	NOVA VUL.	19 43.8	+26° 56'	"	"	"	"	02:54	03 30	4	01 33W+
31274 F	FOCUS TEST	OTB/ITA									

Dome Temp. _____

Focus _____

Dome Temp. _____

Hour Angle
End

Dome Temp. 46°F

Focus 12.65

Dome Temp.

Transparency Conditions HAZY

80

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:50	2	00 05E	-14° 41'	2-3"	6.0	B9I	1-2-1	BRIGHT SP. BIN. SET 5	20/8 weak
01:45	1	00 26W	-25° 27'	4-5"	6.6	B5V	1-2-1	" " SET 5	20/8 weak
01:38	2	00 00	+18° 15'	2-3"	6.7	B7Ia	1-2-1	M.K. STANDARDS SET 5	20/12 weak
<u>CLOUDY</u>									
02:48	2	01 10W	+18° 15'	2-3"	6.7	B7Ia	1-2-1	M.K. STANDARDS SET 5	20/28 fine
03:30	4	01 33W	+27 08	"		NOVA	1-3 7/4	SET 5 SET 9	20/8 weak SL. C TO RED.
#1 P.H. LOADED (IN NORTH PIER)									
SLOW R.A. CONTROL DOES NOT WORK									

Dome Temp. 54°F

Focus 12.65

Dome Temp.

Transparency Conditions very hazy

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:29	1	04 14E	+36° 45'	2-3	5.1	BBn	1-2-1	set 5 Field drawn	20/10 fine
2:09	2	04 02E	+17 08	2-3	6.1	G4	1-2-1	STD. VEL. set 2	20/18 fine
2:26	2	04 52E	+14 27		4.41	M5II	1-2-1	" " set 5	20/22 fine
2:23	3	04 25F	-14 40	B	6.0	B9I	1-3	Bright spect. Bin. clouds from S.W. set 2 clouded out.	20/15 too weak
								3 loaded P.H. in file.	

83 June 29/30 - Visitors: 67 1st } object show S Her
 60 2nd } (separation 0.5") Bn, Dy, Bb

Date JUNE 29/30 1968 Sat/Sun Observer GS/Dy Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle Est
31279	HD 161701	17 41.9	-14° 42'	I 12 1/2	103a0	008	19.9°C	2353	0020	1	0051W
31280	NOVA Vul	19 46.6	+27° 07'	I 12 1/2	103a0	008	"	0055	0102	2	0030W
31281	η CEP	20 43.3	+61 27	"	"	"	"	0122	0126	4	0103E
31282	λ Cyg	20 43.5	+36 07	"	"	"	"	0155	0157	3	0031E
31283	β AQL ^{ABF}	21 26.3	-06 01	"	"	"	20.2	0211	0213	4	0101E
31284	HD 207673	21 45.6	+40 40	"	"	"	"				
31284	ϵ CEP	22 11.4	+56 33	"	"	"	"	0238	0242	2	0116E
31284F	FOCUS TEST		OTB/ITA								

Dome Temp. 5
 Focus 11.65
 Dome Temp. 5

Dome Temp. 58°F

Focus H.65

Dome Temp. 56°F

Transparency Conditions HAZY

84

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0020	0051 W	14 42	~6" trail	6.0	B9I	1-2-1	Vy poor seeing; plate at 5 (hazy) 20/10	FINE BLANK
0102	0030 W	+27 07	"	5.6	F	1-1	Some vy low clouds - fast moving (too faint to register)	(too faint to register)
0126	0103 E	+61 43	"	4.4	K0IV	1-2-1	Scattered clouds. 20/18 at 5	(STRONG)
0157	0032 E	+36 22	"	4.5	B5V	2-2	check RA: Field drawn. 20/10 NOTE	FINE
0213	0101 E	+05 43	4"	3.7	C0IB	2-2	20/18	(WEAK COMP) STRONG
				6.5	A2IB		→ NEEDS FINDER FIELD. (Also 13 CEP)	
0242	0116 E	+56 53	~3"	4.5	F0IV	2-2	20/9 Still clouds scattered.	FINE
						7/4	CLOUDS	C. TO RED (BADLY)
<p><u>PLEASE NOTE</u> : SPARKS OCCUR IN THE DARK ROOM FROM THE TEMP. CONTROL EQUIPMENT (MAY HAVE HAPPENED FOR PLATE 31281)</p>								

Dome Temp. 63 F

Transparency Conditions Good (some Ci)

Focus +2.65

FRANIC: DEC. TV. NOT WORKING OK July 3/68 Hr

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. tzt	REMARKS	Quality
2 43	01 45 E	-14° 41'	~2.3"	6.0	BPT	1-2-1	Set 2 38-9 SB	20/10 FINE
23 44	00 23 W	"	"	"	"	2-2	Set 5 "	20/10 FINE
2 44	01 32 W	+30° 06'	~2.3"	~7.1	FS	2-2	Set 2 Fitzgerald B1*	20/14 FINE
00 19				~6.5	-	2-	Set 2	20/12 VERT WEAK
00 16	00 32 W	+27° 06'	~2"	~6.5	-	2-2	Set 5 (clouds) 0145 near complete cover CS	20/18 SL. WEAK
Closed up 0200 EST								
4 Ph. loaded in 1 fig.								

Dome Temp. 47°F

Transparency Conditions

Focus 12.25

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 31 ^m E	-14° 42'		6.0	B9I	1-2-1	B8-B9 SB set 2 20/10	FINE
			6.6	B5V		set 5 20/11	
0 ^h 16 ^m U		2	0.0			std ink trouble	
0 ^h 3 ^m E			5.0			ink trouble again	
1 ^h 0 ^m W			4.1				
0 ^h 53 ^m E			2.5				
0 ^h 6 ^m E			3.0			Note: wavelength scale ^{by} about 400 off (4340 Å corresponds to about 4750)	
0 ^h 9 ^m E			3.2				
						3 loaded P.H. in air	
						#1 P.H. is exposed and in air	

July 6/68. Air, Ny and Br/Go on visitors: Showed 146 visitors M13 thru clear sky, slight cirrus at end. Showed slides in dome.

89

Date Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
	9 July 1968									
31288 F1	focus test in in/out out G-12						(dome temp) 63°F			A
31288 T1	calibration step wedge									
31288 T2	" " " "									

Dome Temp.

Focus

Dome Temp.

Hour Angle
Ecl

Date 10 July 68 (Wed) Observer McCe-RS (Hd, Hk, 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.
31289	HD 145 001	16:03.6	+17° 19'	G112	II 00	14 ^{SHORT}	66°F	21:09 ⁽⁵⁾	22:02	A
31290	N33A DCL									A
31290	HD 183 143	19:23.0	+18° 05'	G1108	II 00	15 L	64°F	0:26		A
31290	8 Cyg ^{NO 186882Tn}	19:41.8	44 53	G1108	II 00	15 L	64°F	0:44 ⁽⁴⁾	0:55	A
31290 F1	focus test	in air / out and		G1108	II 00	15				B
31289 T1	calibration for plate no 31289 <u>11 July 1968</u>									
31290 F2 F3	focus test			G1108	II 00	15 L	66°F			A B C

Dome Temp.

Focus

Dome Temp.

Hour angle
End

WD:10

focus 53

Dome Temp. 56°F

Transparency Conditions VERY POOR

92

Focus

EX. MTR MIRRORS ADJUSTED

Dome Temp.

W/LAMP + IMPROVEMENT X2. - HV

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 10	10	3"	6.1	G.4	3	std Vol CLOUDS + 200/9 PEAKING EXP. MTR.	BLANK
						TOO FAINT & POOR SEEING	
		10"	6.7	B7 Ia		MK (focus 55) 800/15	COMP. 56. WK
W D: 10	45 05	10"	2.82	B9.5 III	15	MK (640 files) 800/15	STRONG
					5/5	(610 files) focus 56	CENTRE TO VIOL. - under
							OK red.
					G10		
					5/5	focus 55	OK at 4900
					5/5	53	OK to violet end
					5/5	51	"
							"
							OK to violet end
							OK at 4500
						* G-12 P.H. A LOADED + 1 Tamon anti. CW.	

focus 53 / tilt: 1 full turn CW
tilt 1 (2) " " anti CW

(Hd-Hb-Sc)

Date July 11/12 - Fri 1968 Observer Go. H.R. - H.K. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.I	Hour Angle End
31291	45 Per	15 02.9	+25 16	G108	IIaD	15	69-	21:19 ^①	21:23	A	01:20 W
31292	" "	" "	" "	" "	" "	" "	" "	21:25 ^②	21:27	B	01:24 W
31293	" "	" "	" "	" "	" "	" "	" "	21:29 ^③	21:30	C	01:29 W
31294	β Her	16 25.9	+21 42	G12	IIaD	"	"	22:11 ^④	22:14		00:48 W
584-1529								22:30 ^⑤	03:30		
31295	^{HO-10516} ① Per	1 ^h 37.4 ^m	+50°11'	G12	IIaD	9	?	03:54 ^⑥	04:06	A	02:32 E
31295 T1	calibration wedge for 31295?										
①	Tilt full c/w 1 back								36 75	A	
②	2 back								46 65	B	
③	3 back								56 55	C	
④	(full) 3 2/3 back								66 45	A	
⑤									76 35	B	

Tilt 2 ^{back} full c/w

64 off

focus

Dome Temp.

Focus 53

Dome Temp.

Dome Temp. 59°F

Transparency Conditions

Good

9 1/2 x 2 1/2 94
4 1/2
3 1/2

Focus 53

Dome Temp.

Hour Angle	Declination	Seeing	Ptg. Mag.	Sp.	3 Comp.	REMARKS	Quality
01:20 W	+25°03'	~2"	4.9	F5V	3	MK Standard 800/7	OK
01:24 W	"	"	"	"	3	" 800/3	SL. WEAK
01:27 W	"	"	"	"	3	" 800/1	U. WEAK
00:48 W	+21°33'	"	~3.7	G8IV	3	AASC Abble 40/15	WEAK
						x-ray light on 4" out. Fixed.	
02:32 E	+50°32'	~4"	3.95	B0p	3	Special star for G12 40/18	sl. weak
						weak should be 3-3-3 ↳ 40/25 would probably give a normal exposure	
						65°F from 46 Tilt cover L CW+2 best M - 2 N - 2	
						good ← 66°F from 46 Tilt CW+4	

Dome Temp. ... 62°F ...

Transparency Conditions *occasional clouds + haze*

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:19	A	2 ^h 20 ^m W	+17° 10'	~3"	6.1	G4	5-5-5	5th Vel. field drawn 200/240	WEAK
1:47	C	1 ^h 05 ^m W	+10° 23'		5.8	F8	5-5-5	" " " " " " 200/240	WEAK
3:49	A	2 ^h 15 ^m W	+19° 04'		NOVA		5-5-5	very hazy 200/81	WEAK
P. 4 C shooled out in ref									

Date July 14-15/68 Sun. Mon. Observer Sc-Hv Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
31304 ⁰³	HD 156014 α Her	17 10.7	+14 30	G12	Ilford	9		22 17	01 39	A	23 17
31304 ⁰⁸	p Cas	23 49.4	56 57	"	"	13	72°F	02 14	03 48	C	00 50
# 31304 T1	calibration wedge for plates	31296 - 31303									
31304 T2	"	"	"	"	31304						

Dome Temp. $+67^{\circ}\text{F}$

Transparency Conditions POOR - HAZE

100

Focus 2300 TELESCOPE UNSTEADY

0200 Nova Del. Too FAINT

Dome Temp. 25 lb. ADDED TO DEC. AXIS.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0347 W	$+14^{\circ} 28'$	2-3"	4.4	MS II	5-5-5	80 / 14.2 plate broken in holder (4 pcs.) BRIGHT STD VEL. PROG.	DID NOT DEVELOP PROPERLY
0050 E	$+5720$	"	4.4	F8 Iap	5-5-5	80 / 100	WEAK
						0-70 / 20°F	

Dome Temp. 70° F

Transparency Conditions VERY HAZY

102

Focus

00:30 EST: GOOD

Dome Temp.

01:30 cirrus from N.E.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
21:20	A	W 2:24	+19 24	3"	129	K2 III	12-12	G12	Ext. Std. Vel. (Broken ~ 3/4" from 1 end) 40/160	FINE
23:19	C	W 0:56	+04° 37'	4"	3.93	K2 III	8-8-8	G12	" " "	80/320
									D-76 m / 72° F	
01:57	A	W 0:35	+19° 05'	4-5"	?	NOVA	8-8-	G12	Becoming cloudy (02:00) 100/2-	VERY WEAK
3:26	C	E 2:56	+50° 32'	3"	3.95	BOP	8-8-8	G12	HK * 100% sby * 80/100	SL. WEAK
									* BROKEN DURING EXP. (2 PCS)	
									(EXPOSED BOX # 3)	

G108 - Test

Date 16 July 1968

Observer

Darius
Schmidt
Duke

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.
1				G108	IIaD	13	74°F			A
2										"
3										"
4										"
5										"
6				G108	IIaD	7	76°F	Full aperture		A
7										"
8										"
9										"
10										"
11										"
12										"
13										"
14										"
15										"
16										"
17								Hartmann Test		A

Dome Temp.

Focus

Dome Temp.

Hour angle
End

Focus

60

(see) - 50

40

30

Focus

60

50

50

50

50

50

50

50

50

50

50

50

50

50

Date July 21/22 - Sun./Mon. ¹⁹⁶⁸ Observer HK/Ne 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.
31309	α Oph HD 146051	16 ^h 09. ^m 1	-3° 26'	G12	IIa-O	9	73°F	21:40 ¹²³	23:53	A
31310	β Aql HD 204867	21 ^h 26. ^m 3	-6° 01'	"	"	"	70°F	0:12 ⁵	02:07	C
31310 FI	FOCUS TEST						68°F			A
# 31310 T1	calibration step wedge				IIcO					
<u>ALUMINIZING</u>										
July 22 - 26 : best 1 good night										

Dome Temp. 63°F

Transparency Conditions Good

170

Focus

0:00 - clouds + haze

Dome Temp. 57°F

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
13:53	A	3 21 W	-3 33	3.4"	4.3	M I II	8-8-8	G12	Br. Std Veloc. 200/700	SL WEAK
02:07	C	0 ^h 20 ^m W	-5° 42'	5"	3.73	G0 Ib	8-16	G12	" " " 40/43	SL WEAK
	A								EXTREMELY WEAK; NO "OUTSIDE" COMPARISON SHOULD BE S/S, NO FILTER	
									AUTO GUIDER VIBRATES SOMETHING HORRIBLE	
		for flats		31305 - 31310						
									02:00 - CLOUDED IN	
									Monday: photometric	
									Tuesday: aurocast	
									Wednesday: partly clear	
									Thursday: " "	

Dome Temp. ... 61°F

Transparency Conditions ... VERY HAZY & CLOUDS

112

Focus

Dome Temp. ... 54°F

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
2:31	A	0 52W	+4° 39'	2-3"	3.93	K2 III	8-8-8	G12	B.S.V. (SKY IMPROVING) 40/160	FINE
2:47	C	0 05W	+10° 35'	1-2"	4.15	K3 II	8-8-8	"	B.S.V. (SKY GOOD) 40/165	FINE
2:55	A	1 37W	+19° 06'	1-2"	?	NOVA	8-8-8	"	FIELD DRAWN, PLATE BROKEN: 3 PCS 200/100	WEAK
3:33	C	02 05E	+50° 35'	1-2"	3.95	BOP	8-8-8	"	HAZY, THEN CLEAR 40/70	FINE
3:45	A	01 43E	"	1-2"	"	"	8-16	"	PLATE BROKEN: 3 PCS 40/16	WEAK
DOME FOUND UNCHAINED, NO ROPE										
TELESCOPE UNBALANCED, TENDS TO FALL EAST										
100 SETTING IN THE EXPOSURE METER DOES NOT WORK										

415

Date Sun Mon July 28-29/68 Observer Ri Mc 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.
31316	HD 156014	17 10.1	+14° 30'	G12	IIaO	.009	66°F	20 34 ⁽⁶⁶⁾	22:00	A
31317	NOVA DELPHINI	20 37.7	+18 55'	G12	IIaO	013		22 12 ⁽²⁵⁾	02:26	C
31318	∅ Per	01 37.4	+50° 11'	G12	IIaO	.009		02:35 ⁽⁶²⁾	03:37	A
# 31318 TI calibration tip wedge for plates 31311-31318										

Dome Temp. 5
Focus
Dome Temp. 5
Hour Angle
End
0 51
1 52
1 54

Date 29-30 July 1968 / Mon-Tues Observer M. S. - Bii 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
31319	HD 139892	15:35.6	+36° 58'	G-12	II G0	13		20:40 ⁽⁷⁷⁾	21:51	A	02:27
31320	^{30 PM} HD 161096	17:38.5	+4° 37'	G-12	II G0	9	60°F	22:04 ⁽⁷⁵⁾	23:19	C	01:52
31321	NOVA DEL.	20:37.7	+18° 48'	G-12	II G0	13		23:30 ⁽²⁰⁰⁾	02:50	A	02:24
31322	β Pers	01:37.4	+50° 11'	G-12	II G0	9	54°F	3:04 ⁵⁹	03:43	C	01:44
31322 FI	focus test	in in/and out		G-12	II G0	9				A	
31322 ² TI	calibration step wedge for plates 31319 - 31326										

Dome Temp.

Focus

Dome Temp.

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

Transparency Conditions EXCELLENT

118

Focus

Dome Temp. $39^{\circ}F$

(DOME FOUND UNTIED)

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	6-12 FILTER Comp.	REMARKS	GAIN	COUNTS	Quality
21:51	A W2:27	$36^{\circ} 46'$	$\sim 3''$	5.1	B8m	6-6-6	Sp. Bin. (BROKEN: 3765)	100	175	SL. WEAK
23:19	C W1:52	$+4^{\circ} 38'$	$2''$	3.93	K2 III	8-8-8	Bst. std. Vel.	40	160	FINE
02:50	A W2:24	$+19^{\circ} 05'$	$> 4''$?	NOVA	6-6-6	—	200	106	WEAK
03:43	C E1:44	$+50^{\circ} 33'$	$3''$	3.95	B0p	8-8-8	Hk * NO FILTER	40	70	SL. STRONG
	A					5-5				SL. TO VE

Date AUGUST 1-2/68 Thurs-Fri Observer Hr-HK 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.
31327	HD 186791	19 41.5	+10 22	G-12	IIaO	9		23 23	00 32 ⁶⁹	A
31328	φ Per	01 37.4	+50 11	"		9L		00 51		
# 31326T ₁	calibration	for plates 31323-31326								

Dome Temp.
Focus
Dome Temp.
Hour Angle
End
PLATE

total 75
125 81 156 Sat. Aug 3. VISITORS: Bn - Dy - CH

DEC CLAMP jammed before first tour - fixed by Hk in time for second tour.

Date Aug 4/5 1968 SUN/MON Observer GTS/Ne 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.
31331	HD 159181 β Dra	17 ^h 28 ^m .2	+52° 23'	G12	IIao	013	75°F	20 49	21 02	A
31332	"	"	"	"	"	"	"	21 05	21 12	C
31333	α ophi	17 ^h 30 ^m .3	+12° 38'	"	"	"	"	21 24	21 26	A
31334	"	"	"	"	"	"	"	21 28	21 30	C
31335	HD 161096 (β ophi)	17 ^h 38 ^m .5	+4° 37'	"	"	"	74°F	22 14	22 55	A
31336	HD 186791 (γ Aql)	18 ^h 41 ^m .5	+10° 22'	"	"	"	"	23 03	23 55	C
31337	HD 204867 (β Aql)	21 ^h 26 ^m .3	-6° 01'	"	"	"	72°F	00 05	01 36	A
31338	HD 206778 (ε Per)	21 ^h 39 ^m .3	+9° 25'	"	"	"	70°F	01 51	02 28	C
31339	HD 222368 (i Per)	23 ^h 34 ^m .8	+5° 05'	"	"	"	68°F	02 44	03 52	A
31340	φ Per	1 ^h 37 ^m .4	+50° 11'	"	"	009'	67°F	04 07	04 33	C
31340T	Calibrator Step Wedge for plates # 31330 - 31340									
								*21 30	22 14	SHD

Done Temp.
Focus
Done Temp.
Hour Angle End
00 10 W
00 20 W
00 30 W
00 35 W
01 50 W
00 49 W
00 16 W
01 24 W
00 42 W
00 32 E
05 07 RE

Dome Temp. 63°F

Transparency Conditions VERY HAZY

Focus

100 SETTING ON EXPOSURE METER STILL
DOES NOT WORK

Dome Temp. 55°F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 02	A	00 10 W	+52° 21'	2-3"	~3.8	G12 II	8/8/8	G12 M.K. STANDARDS (1/2x) 200/250	fine
21 12	C	00 20 W	"	"	"	"	8/8/8	" (1/4x) 200/125	l. weak seeing
21 26	A	00 30 W	+12° 38'	"	2.24	A5 III	12-12	" (1/2x) 20/12	fine
21 30	C	00 35 W	"	"	"	"	12-12	" (1/4x) 20/6	seeing weak
22 55	A	01 50 W	+4° 39'	"	3.93	K2 II	8-8-8	BR. ST. VELOCITY SKY BETTER 40/160	fine
23 55	C	00 49 W	+10° 35'	"	4.15	K3 II	8-8-8	" (SKY BAD - 1 SH. PC. BROKEN OFF) 40/160	fine
01 36	A	00 45 W	-5° 40'	3-4"	3.73	G0 Ib	8-8-8	" CLOUDY FOR ~1 HOUR (BROKEN) ^{1 SH. PC.} 40/100	fine
03 28	C	01 24 W	+9° 47'	1-2"	3.98	K2 Ib	8-8-8	" SKY BETTER 40/160	fine
03 52	A	00 42 W	+5° 31'	"	4.64	F7 II	8-8-8	" SOME CLOUDS 40/96	fine
04 33	C	00 32 E	+50° 34'	"	3.95	B0 p	8-8-8	" 40/70	fine
04 24	S	WAS NOT REMOVED FROM P.H.							

129

 Visitors, $\begin{array}{r} 64 \text{ 9:00} \\ 74 \text{ 10:00} \\ \hline 138 \text{ total} \end{array}$

 Showed α Her
 Br, Bb, Hh.

 Date ~~July~~ ^{AUG} 10/11, 1968 SAT/SUN Observer G.S. - HK - G.O. 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
31343 587-1 to 24	HD 204867 (α Her)	21 26.3	-6 01	G12	IIao	013	65°F	10 59 2315	0350	A	
31343	φ PER	1- 37.4	+50 11	G12	IIao	009		4 08	4 49	C	0 09 W

Dome Temp. ...

Focus ...

Dome Temp. ...

Hour Angle
End

Dome Temp. 48°F

Transparency Conditions EXCELLENT

Focus

Dome Temp. 42°F

Ending Time
EST.
357
35
47
62

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		3-4"	3.73	GoIb		→ PHOTO METRY	40/5
09 W	+50°32'	2-3"	3.95	Bop	8-8-8 412	HK *	40/70

Dome Temp. 47° F

Transparency Conditions VERY GOOD

132

Focus

Dome Temp. 42° F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:14 C	0 37W	4° 36'	2-3"	3.93	K2 III	8-8-8	G12 Bu std. Vel 40/160	FINE
22:34 A	14 04W	+33° 28'	3	5.4	B9	8-8-8	G12 B Type std Vel Broken in the middle 200/240	FINE
23:27 C	0 ^H 45W	+10° 35'		4.15	K3 II	8-8-8	G12 Bright std Vel 40/160	FINE
02:44 A	1 ^H 25W	+37° 20'	3	6.3	B ₂	8-8-8	G12 B Type std Vel Broken into 5 pieces 200/240	OK
03:19 C	0 ^H 18E	+56° 24'		3.34	K0 II	8-8-8	G12 Bright std Vel 40/160	FINE
04:00 A	0 ^H 35E	+50° 32'	3	3.95	B0P	8-8-8	G12 HK* 40/70	FINE
04:25 C	0 ^H 34E	+23° 20'		3.15	K2 II	8-8-8	G12 Bright std Vel 40/160	
							2-30 magif. DAWN	
							* 1/2 FORGED PCS. DEV. WITH 3136371 (Aug 15)	

Date Aug 12-13 Mon - Tues 1968 Observer Sc - Bie 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.
31351	α Her.	17 ^h 10.1	+14° 30'	G-12	IIa-0	^{long} 13.0	67°	20:53.2 ^{SK}	21:47	A
31352	9 Sge	19 47.9	+18° 25'	G-108	IIa-0	^{very long} 13.0				A
31353	9 Sge	19 47.9	+18° 25'	G-108	IIa-0	^{very long} 13.0				C
#31351 71	calibration ridge for # 31351									

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 57

Spectrograph 67°

Transparency Conditions Partly Cloudy

Focus

Dome Temp.

Ending Time
EST.

21.47

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
1:45W	+14° 26'	3"-4"	4.41	MSII	8 ^s -8 ^s	12	Bn. Std. Vel.	80/320 sl. weak
			6.2	08+	none	12	heavy clouds	80/40
			6.2	088	none	12	few holes	80/40
				13 Cen/68			D-76 magif. 20.0 °K	

Date 13-14 Aug/68 T. mo - w ed Observer Hd - Hae - Gs 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
31351	HD 171391	+18 29.5	-11 03	G12	IIao	013	71°F	20:01		A	
31352	HD 145001	16. 03.5	+17 19	G12	IIao	013 ^S	71°F	20 19 ¹⁵⁵	22 54 ⁴²	A	4:04
31353	HD 204867 (E Ar)	21 26.3	-6 01	"	"	013 ^L	"	23 04 ⁶⁵	23-46	C	0 30 E
31354	HD 221253 (AR 60)	23 28.7 ⁽¹⁹⁷⁰⁾	+58 23 ⁽¹⁹⁷⁰⁾	"	"	013	"	23 58 ⁴⁶	01 03	A	1 13 E
31355	HD 206778 (E Peg)	21 39.3	+9 25	"	"	"	68°F	01:21 ⁶⁴	02:07	C	W1:38
31356	φ P Cen	01. 37.4	50° 11'	"	"	.009XL	"	02:18 ⁵⁴	03 22	A	01 06 E
31357	HD 222368 (i Per)	23 34.8	+5 05	"	"	013	66°F	3:33	4: 27	C	W2:02

Dome Temp. 62° F

Transparency Conditions HEAVY HAZE

Focus

Dome Temp. 54° F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
		-10 57'	1-2"	5.3	9G7		G12	TOO FAINT	300/480
22:54	4 00 W	+17 11	2-3"	6.1	G4	8-8-8	G12	Std Vel. slit $\approx 2/3$ normal.	200/214 WEAK
23:46	0 30 E	-5 40	3"	3.73	G016	8-8-8	"	BR. ST. VELOCITY	40/100 SL. WEAK
01:23	1 13 E	+58 23	1"	4.89	B3V	8-8-8	"	Edl Brin. Hd. Brightest of 4.	200/240 FINE
02:07	W 1:38	+9° 46'	3"	3.98	K216	8-8-8	"	BR. ST VELOCITY (BROKEN: 3 PCS)	40/160 FINE
03:28	01 06 E	50° 34'	1"	3.95	B0A	8-8-8	"	S.B.	40/80 (GUIDING) FINE
04:27	W 2:02	+5° 29'	4"	4.64	F7V	8-16	"	Best std Vel. POOR SKY & POOR SEEING	40/41 WEAK

Dome Temp. 54°F

Focus

Dome Temp.

Transparency Conditions *Fair - Ci + Ac in south*
poor after 2200

138

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 8-8-8	Filter	REMARKS	Quality	
22 54	A 01 58 W	+14° 28'	2-3"	4.4	MS II	8-8-8	G12	<i>Sld. Vel.</i>	200/1800	FINE
23 23	C 01 02 E	+9° 46'	1-2"	3.98	K2 I	8-8-8	G12	<i>" 2210: Clouds</i>	200/720	FINE
00 53	A 01 20 E	+58° 22'	~3"	4.89	B3 V	8-8-8	"	<i>Ecl. Binary (Hd) <u>clouds</u></i>	200/240	FINE
01 00	C 01 42 E	+56° 22'	~2-3"	3.34	K0 II	8-8-8	"	<i>Sld Vel. <u>3 pieces</u></i>	200/720	FINE
03 31	A 01 10 W	+5° 29'	3"	4.64	F7 V	8-8-8	"	<i>" "</i>	200/480	FINE
04 25	C 00 01 W	+50° 33'	~2"	3.95	B0 p	8-8-8	"	<i>Special Binary (Hk)</i>	40/80	FINE
<i>15 Aug 1968 4/68.0°F, D. 76 mmHg</i>										

Dome Temp. 51°F

Transparency Conditions VERY GOOD

140

Focus

Dome Temp.

Ending Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21:33

A

4:35E +58°23'

1-2"

4.89

B3V

8-8-8

Ecl. Binary (Hd)

POSSIBLY FOGGED
WHEN P.H. REMOVED 200/240

FINE

2250

Suddenly clouded in!! Dec slipping in W at $\delta = +30^\circ$

D-76 modif. / 48.2°F // 1968 Aug 16 / 2900127 / 15/17

Dome Temp. 52°F

Transparency Conditions Good

142

Focus

Dome Temp.

Ending Time
E.S.T.

P.M.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Filter

REMARKS

Quality

0420

~~not here~~ Telescope slipping S in dex
Removed 1 small weight. (50)

Date Aug. 18-19, 1968 / SON-MON. Observer HK-Ne / R. E. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31365	α Boo HD 124897	14 ^h 11. ^m	+19° 42'	G-12	IIaO	013	62°F	20:15	20:22	A	3 41W
31366	HD 146051	16 ^h 09. ^m	-3° 26'	"	"	"	"	20:42	21:47	C	3 01W
31367	Chi Cyg	19 ^h 49. ^m (1970)	+32° 50'	"	"	SHORT 016		22:18	00:30	A	2 05W
31367 T1	calibration wedge for plates 31365-31367										
<p>Aberrating Aug 20-23 (Cons. secondary, 3rd mirror, apertograph mirrors) lost 1 good night (Aug 20)</p>											

Dome Temp. 4

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 48°F

Transparency Conditions OCCASIONAL THIN CLOUDS

144

Focus

Dome Temp.

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:22	A	3 41W	+19 23	2-3	1.29	K2 IV _p	12-12	Br. Std Vel. * 20 / 80	FINE
21:47	C	3:07W	-3°36'	"	4.30	M III	8-8-8	" " " 200/800	FINE
00:20	A	24 05 W	+32°52'	4-5	~7	M	8-8-8	Mira Var. for Gn ^{clouded in} 00:15 200/ ¹⁵⁵ 300	WEAK
								^{clouded in} 2-26 modif. / 9 Aug 66 // 69.0°E	

Date Aug 23/68 Observer M. S. E. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
31367 F1	focus test		in in/outlet 6-12	FED		9	64 ⁰ F			C
F2	"		"	"						C
F3	"		"	"			"			C
G108 - focus 8.30 - J.L.S.										

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					5/5	NONE	c to red
					5/5	" changed focus from 30-R to 0-R (ccw as pictured above)	c to red (better)
					5/5	" changed from ^(100 = 0) 100-R to 70-R (hand ccw)	GOOD

Date 26-27 Aug 1968 Observer Se-Bü/mse - HK 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
31368	HD 187691	19 ^h 46.2	+10 10	G-12	IIa-0	12.0		21:45 ⁽⁵⁹⁾	22:44	C	1:00 W
31369	HD 212943	22 25.9	+04° 12	G-12	IIa-0	12.0		22:55 ⁽⁴⁵⁾	0:00	A	EO 120
					<u>IIa-0</u> <u>HD 5</u>						
31370	HD 221253 AR Cass	23:24.8	+58° 0'	G-12	IIa-0	12 XL	56°F	1:25 ⁽¹⁶⁾	1:41	C	W 0:18
31371	HD 209813	1:24.9	+5° 38'	G-12	IIa-0	12		1:52 ⁽⁵¹⁾	2:43	C	0:40 E
31372	φ Per	1:37.4	+50° 11'	G-12	IIa-0	9	53°F	3:06 ⁽⁸⁾	3:14	A	EO:22
31373	"	"	"	"	"	9		3:21 ⁽¹⁵⁾	3:26	C	EO:10
31374	HD 26162	4:03.3	+19° 21'	"	"	12		3:35 ⁽⁷²⁾	4:47	C	E 1:15
							54°F				
31369 T1	calibration	wedge for plates 31368, 31369									
31374 T1	calibration	wedge for plates 31370 - 31374									

Dome Temp.

Focus

Dome Temp.

Dome Temp. 45°F

Transparency Conditions *partly cloudy*: poor

148

Focus

Dome Temp. 40°F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Flux	REMARKS	GRAIN COUNTS	Quality
22:44	1:00 W	+10° 23'	5"-8"	5.8	F8	F88	G12	Exposure meter acting very odd. Hi-Voltage Problems etc. 20'-21:30	100/220	STRONG
0:00	E 0:20	+04° 36'	5"	5.9	K0	8-8-	G12	Net. Std. Vel. (152 counts at 23:32) <u>clouds moving in</u> #400 #31369: 2 PCS.	100/161	FINE
1:41	W 0:18	58° 24'	4"	4.89	B3V	8-8	G12	Ed. lin.	200/200	(GUIDING) SL-STRONG
2:43	0:40 E	+6° 01'		6.2	K4	8-8-8	G12	Std. Vel.	200/320	STRONG
3:14	E 0:22	50° 33'	3"	3.95	B0P	8-8-8	G12	air spec. Bin (HK) (MAY BE STRONG)	40/200	VERY STRONG (GUIDING)
3:26	E 0:10	"	"	"	B0P	8-8-8	G12	"	40/30	STRONG (GUIDING)
4:47	E 1:15	+19° 33'	4" → 2"	6.4	K1	8-8-8	G12	Std. Vel. MORE CLOUDS	200/219 1/2	(GUIDING) FINE-STR
<u>DAWN</u>										
Exp. Box #3										
D-76 med./: 69.0°F // Aug 27/68										

Date Aug 29/30 1968 Thurs/Fri Observer Hb G/R JB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle Est.
31376	HD 139892	15 ^h 35.6	+36° 58'	G12	IIaD	9	63°F	19 49	19 58	A	02 35W
31377	HD 161701	17 41.9	-14 42	"	"			20 06	21 04	C	01 34W
31378	HD 171391	18 29.5	-11 03	"	"	13		21 10	21 43	A	01 25W
592-1 to 4								2200	2330		
31379	HD 222253	23 24.8	+58 00	G12	IIaD	12xL		23 50	00 02	C	14 10E
31380	HD 212543	22 22.8	+04 12	G12	IIaD	13	00 14	00 38	00 38	A	0° 30W
31381	HD 222368	23 34.8	+5° 05'	G12	IIaD	13	00:50	00 59	00 59	C	0° 23E
31382	HD 223311	23 43.4	-06 56	G12	IIaD	13	01:10	02:20	02:20	A	0° 50W
31383	HD 12929	02 01.5	+22° 59'	G12	IIaD	13	02:30	02:39	02:39	C	14 10E
31384	Per	01 37.4	+5° 00 11	G12	IIaD	13	02:50	02:55	02:55	A	0° 30E
31385	HD 18884	02 57.1	+30 42	G12	IIaD	13	03:10	03:17	03:17	C	14 27E
31386	HD 22484	03 31.8	+00 05'	G12	IIaD	13	03:26	03:55	03:55	A	1° 20E
31387	HD 20365	03 18.5	+49 51	G12	IIaD	13	04:07	04:16	04:16	C	6° 44E
31388	Per	01 37.4	+5° 00 11	G12	IIaD	9	04:23	04:30	04:30	A	14 05W
31389	HD 22338	03 39.3	+24 16	G12	IIaD	13	04:35	04:44	04:44	C	04 03E

Dome Temp. 5

Focus

Dome Temp.

How Angle
Est.

Dome Temp. 53°F

Transparency Conditions Fair - good
Clouds after 2330

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
02 35W	+36° 46'	~2"	5.1	B8n	5-5-5	G12	Special SB (3CrBA)	40/20 FINE
01 34W	-14° 40'	3-5"	6.0	B9I	5-5-5	"	B8-S SB (Huke)	40/20 FINE
01 25W	-10° 58'	~3"	5.2	g07	5-5-5	G12	Std. Vel. Plate broken (2 pieces)	40/30 SL. WK
							Clouds!	
14 10E	+58° 23'	~2"	4.89	B3V	5-5-5	G12	Hd Eclipsing Bin	40/40 STRONG
04 32W	+04° 35'	~2"	5.9	K0	5-5-5	G12	Std Vel.	40/40 FINE
04 23E	+05° 31'	~3"	4.64	F7	5-5-5	G12	Bright Std Vel	40/30 FINE
04 50W	-06° 30'	2-3"	6.3	gk4	5-10	G12	Bright Std Vel exposure meter troubles divided out	40/49 WEAK
14 10E	+23° 20'	~3"	3.15	K2E	5-5-5	G12	Bright Std Vel clouds	40/40 FINE
04 30E	+50° 33'	~3"	3.95	Bop	5-5-5	G12	plate several pieces HK*	40/20 FINE
14 27E	+04° 00'	~3"	4.16	M2M	5-5-5	G12	Bright Std Vel "	40/40 FINE
14 22E	+00° 22'	~3"	5.2	F9	5-5-5	G12	Std Vel "	40/30 FINE
04 44E	+50° 07'	~3"	5.1	B3	5-5-5	G12	B-type Std Vel	40/20 FINE
14 05W	+50° 33'	~3"	3.95	Bop	5-5-5	G12	HK* field diam	40/20 FINE
04 43E	+24° 25'	~3"	4.3	B7	5-5-5	G12	B-type Std Vel	40/20 FINE

EXPOSED BOX #3

Date Gri. - Aug. 30/31/68 Observer L-Se/HK-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.H.	Hour Angle End
31390	HD 161701	17 ^h 41. ^m 9	-14° 42'	G12	IIaDp	9		19:58	⁽³⁷⁾ 20:37	A	1:10W
31391	χ Cys	19 ^h 49. ^m 3 ₁₉₇₀	+32° 50'	"	"	"		20:52	⁽⁴⁸⁾ 21:40	C	0:10W
31392	Nova Del	20 37.7	+18 55'	"	"	"		21:52	⁽⁷³⁾ 23:05	A	0:42W
31393	HD 209813	22 01.0	+46° 45'	"	"	"		23:16	⁽¹²¹⁾ 01:17	C	1:34W
31394	HD 221253 (ARCas)	23 24.8	+58° 0'	"	"	9 ^{LONG}	60°F	01:36	⁽⁹⁾ 01:45	A	0:36W
31395	β Ari	01 ^h 49 ^m	+20° 19'	"	IIaD	9 ^{LONG}	"	01:54	⁽³⁾ 01:59	C	1:34E
31396	ϕ Per	01 ^h 37. ^m 4	+50° 11'	"	"	9 ^{REG.}	"	02:13	⁽⁶⁾ 02:17	A	1:05E
31397	HD 221253 (ARCas)	23 ^h 24. ^m 8	+58° 00'	"	"	9 ^{LONG}	"	02:29	⁽⁷⁾ 02:36	C	1:28W
31398	ϕ Per	01 ^h 37. ^m 4	+50° 11'	"	"	9 ^{REG.}	"	02:45	⁽³⁾ 02:48	A	0:39E
31399	Mira Ceti	02 ^h 17. ^m 8 ¹⁹⁷⁰	-3° 07'	"	"	9 ^{LONG}	"	03:05	⁽¹⁴⁾ 03:19	C	0:38E
31400	BF Aur	04 ^h 58. ^m 0	+41° 09'	"	"	13	"	03:51	⁽⁷²⁾ 05:03	A	1:39E

Done Temp. 5

Focus

Done Temp.

Hour Angle
End

Dome Temp. 53°F

Transparency Conditions very good

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Focus

Dome Temp. 46°F

This plate maybe fogged difficulty with cover slide

Ending Time EST.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
20:27	A	1:10W	-14° 40'	2-3"	6.0	B9T	5-5-5	G-12	Bnt. Spectro. Primary	40/20 (FOG) FINE
21:40	C	0:10W	+32° 52'	2-3	~7	M5e	5-5-5	G-12	L.P.V.	40/36 (FOG) FINE (FOG)
23:05	A	0:43W	+19° 05'	2-3	8?	Nova	5-5-5	G-12	Nova - plate broken - end off only one piece in box	40/24 STRONG (FOG)
01:17	C	1:34W	+47° 06'	"	7.5	KO	5-5-5	G-12		40/36 FINE (FOG, GUIDING)
01:45	A	0:36W	+58° 23'	"	4.89	B3V	5-5-5	G-12	Hd Ecl. Bin. plate broken. 2 pieces put in box. Rest too small.	40/23 STRONG (FOG, GUIDING)
01:59	C	1:34E	+20° 41'	"	2.7	A5	5-5-5	G-12	" " "	40/20 (FOG, GUIDING) SL. STRONG
02:17	A	1:05E	+50° 33'	"	3.95	B0p	5-5-5	G-12	HK * plate broken. 2 pieces put in box. Rest too small.	40/20 *
02:36	C	1:28W	+58° 23'	"	4.89	B3V	5-5-5	G-12	Hd Ecl. Bin.	40/20 (GUIDING) STRONG (GUIDING)
02:48	A	0:34E	+50° 33'	"	3.95	B0p	5-5-5	G-12	HK *	40/21 STRONG
03:19	C	0:38E	-3° 05'	"	~6	M6e	5-5-5	G-12	Gn Mira Var.	40/36 HD COMP. SL. WEAK
05:03	A	1:39E	+41° 17'	"	~8.5	B5V	5-10	G-12	Hd Ecl. Bin. BROKEN: " " "	400/100 SL. WEAK

SEE FINDER FIELD

* PLATE STUCK IN EXP. BOX + DID NOT

GET DEVELOPED.

Date Aug 31 - Sept 1, 1968 Observer GS - Ale Julian Day

SAT / SUN

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Est
31401	NOVA DEL	20 37.7	+18 55	G12	Ilao	13	65°F	22 50	00 54	A	2 38W
31402	HD 209813	22 01.0	+46 45	"	"	"	"	1 15	2 30	C	2 57W
31403	HD 221253 (ARW)	23 24.8	+58 0	"	"	9XL	60°F	2 45	2 52	A	2 57W
31404	φ PER	1 37.4	+50 11	"	"	9XEL	"	3 03	3 13	C	0 01E
31405	HD 12929 (α Ari)	02 01.5	+22 59	"	"	9XEL	"	3 23	3 28	A	0 01E
31406	HD 18884 (α Cet)	02 57.1	+3 42	"	"	9	"	3 37	3 44	C	0 02E
31407	HD 20902 (α Per)	03 17.2	+49 30	"	"	"	"	3 54	3 56	A	1 01E
31408	HD 29139 (α Tau)	04 30.2	+16 18	"	"	"	"	4 08	4 10	C	1 01E
31409	HD 18884 (α Cet)	02 57.1	+3 42	"	"	"	"	4 20	4 29	A	0 01E
31410	HD 36673 (α Lep)	05 28.3	-17 54	"	"	"	"	4 39	4 59	C	2 07E
31411	HD 62509 (β Gem)	07 39.2	+28 16	"	"	"	"			A	

Dome Temp. 50°F

Transparency Conditions HAZY

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Focus

Dome Temp. 46°F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 54	A	2 36 W	+19 05	2-3"	8?	NOVA	5-5-5	4-6	NOVA DEL. (BROKEN)	400/240 OK
2 00	C	2 50 W	+47 06	"	7.5	K0	5-10	"	HEAVY HAZE	400/120 WEAK (GUIDING)
2 52	A	1 47 W	+58 24	"	4.89	B3V	5-5-5	"	Hol Eclipsing Binary (BROKEN)	40/20 FINE (GUIDING)
3 00	C	0 04 E	+50 32	"	3.95	B0p	5-5-5	"	HK STAR - CLOUDS	40/20 FINE
3 25	A	0 12 E	+23 20	"	3.15	K2IV	5-5-5	"	BR. ST. VEL. STARS - CLOUDS	40/40 FINE
3 44	C	0 52 E	+4 00	"	4.16	M2III	5-5-5	"	" - BROKEN: 2 PCS	40/36 FINE (GUIDING)
3 56	A	1 02 E	+49 46	"	2.27	F5Ib	8-7	"	"	40/24 FINE
4 10	C	1 59 E	+16 28	"	2.39	K5III	8-7	"	"	40/36 SL. STRONG
4 29	A	0 07 E	+4 00	"	4.16	M2III	5-5-5	"	" - BROKEN	40/36 FINE
4 59	C	2 07 E	-17 47	"	2.81	F0Ib	8-7	"	" - CLOUDS	40/24 FINE
	A			"	2.15	K0III		"	"	40/36

Date 2-3 Sept, 1968 Mon-Pues Observer Sc-Nc/HR Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31411	η Cyg	19 52.5	+34 49	G-108	IIa-0	10.0 wide		21:55		B	
12	"					15.0				C	
13	"					20.0				A	
14	"					25.0				B	
15	"					30.0			22:13	C	
31416	ϕ Per	1 ^h 37.4 ^m	+50° 11'	G-12	IIa-0	9 ^{LONG}	58°F	4:06	4:14	A	1 ^h 05 ^m W
31417	"	"	"	"	"	9 ^{REG}	"	4:23	4:41	A	1 ^h 32 ^m W
31418	AR Cas HD 221253	23 ^h 24.8 ^m	+58° 00'	"	"	9 ^{LONG}	"	5:05	5:19	A	4 ^h 21 ^m W
31389	T1	calibration wedge for plates 31375 - 31389									
31418	T1	"	"	"	"	31390 - 31418					
31418	T2	"	"	"	"						

Dome Temp. 47°F

Transparency Conditions *partly cloudy*

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Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
	B		+35° 01'		5.0	KOIII	none	G-12	test exposures for	80/8 very STRONG
	C								slit width for G-108	10/8
	A								plate box #2	80/8
	B									"
22.13	C								heavy clouds - closed up	"
									04:00 - OCCASIONAL CLEARING	
4:14	A	1 ^h 05 ^m W	+50° 32'	~5"	3.95	B0p	5-5-5	G-12	HR *	40/21 (GUIDING) FINE
4:41	A	1 ^h 32 ^m W	"	"	"	"	5-5-5	"	" " clouds	BROKEN: 2 PIECES 40/21 (GUIDING) SL. STRONG
5:19	A	4 ^h 21 ^m W	+58° 23'	- "	4.89	B3V	8-7	"	Hd Ecl. Bin.	" " " 40/21 SL. STRONG
									QUITE LIGHT AT END	
									INTEGRATOR SLOWLY DECREASING WHEN BALANCE ALL THE WAY CCW	
									CENTERED SLOW MOTION DSC	
									RA TV PICTURE SCREWED UP	
									D-76 modif / 6.8° F / 30 sec / 68	
									mwp-2 / 6.8° F / 16 min 3548 / 68	
									mwp-2 (original) 6	"

Date 3/4 Sept. Tue/Wed. 1968 Observer RG, Hb/HK, JF Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Est
31419	HD 161701	17 ^h 41.9 ^m	-14° 42'	G12	IIaD	13		19 36 ⁽²²⁾	19 58	A	00 47 W
31420	Nova Del	20 37.7	+18 55'	G12	IIaD	13	65	20 11 ^(FR)	21 33	C	00 30 E
31421	HD 186791	19 41.5	+10 22	"	"	"		21 45 ⁽⁹⁾	21 48	A	00 39 W
31422	"	"	"	"	"	9	65	21 51 ^(P)	21 58	C	00 49 W
31423	HD 206778	21 39.3	+9 25	"	"	"	65	22 05 ^(E)	22 11	A	00 56 E
31424	HD 209813	22 01.0	+46 45	"	"	13		22 18 ⁽⁷⁵⁾	23 31	C	00 02 W
31425	AR Cas	23 24.8	+58 00	"	"	9-L		23 58 ⁽⁶⁾	00:07	A	0.46 W
31426	HD 4128 (β Cet)	00 ^h 38.6 ^m	-18° 32'	"	"	13		00:35 ⁽⁵⁾	00:40	C	1:26 E
31427	Φ Per	01 ^h 37.4 ^m	+50° 11'	"	"	9	64°F	01:06 ⁽⁵⁾	01:11	A	2:00 E
31428	"	"	"	"	"	"	"	01:15 ⁽⁴⁾	01:19	C	3:47 E
31429	HD 29587	04 ^h 34.5 ^m	+41° 57'	"	"	13		02:12 ⁽⁷⁸⁾	03:25	C	2:37 E
# 31429 TC	calibration for plates 31419 - 31429										

Dome Temp. 54°F

Focus

Dome Temp. 48°F

Transparency Conditions Poor

Exp. Meter - Gain setting 200 unstable

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 5-5-5	FILTER G12	REMARKS	Quality
9 58	A	00 47 W	-14° 40'	1-2"	6.0	B9I	5-5-5	G12	B-type SB (Hube) (BROKEN) 40/20	SL. STRONG
11 33	C	00° 30" E	+19° 05'	1-2"	~8	Post Nova	5-5-5	"	Broken: 1 large, 1 small piece 400/242	SL. STRONG
21 48	A	00 39 W	+10° 35'	1-2"	4.15	K3II	5-10	"	Std. Vel. 40/36	SL. STRONG
21 58	C	00 49 W	"	"	"	"	5-5-5	"	" 40/36	SL. STRONG
22 11	A	00 56 E	+9 46	"	3.98	K2Ib	5-10	"	" 40/36	STRONG
23 31	C	00 03 W	+47° 06'	~2"	7.5	K0	5-5-5	"	" 400/300	FINE
00 07	A	0:46 W	+58 23	"	4.89	B3V	5-5-5	"	Had Eclipsing Binary BROKEN! 1 LARGE PIECE 1 SMALL " 40/18	SL. STRONG
00 40	C	1:26 E	-18° 10'	"	3.06	K1III	5-5-5	"	Br. Std. Vel. 40/36	SL. STRONG (GUIDING)
01 11	A	2:00 E	+50° 32'	"	3.95	B0p	5-5-5	"	HK * BROKEN: 1 LARGE PIECE 40/21	SL. STRONG (GUIDING)
01 49	C	1:47 E	"	"	"	"	5-5-5	"	" " 40/21	SL. STRONG
02 5	C	2:38 E	+42° 06'	~4"	7.7	G2	5-5-5	"	Std. Vel. (clouds) " 400/100	BLANK

mwp-2/68.0°F/7.0 min 4 Sept/68

03:30 - clouded in

→ PLEASE NOTE REVISIONS TO ←
EXP. MTR TABLE

Date WED-THURS SEPT 4/5/68 Observer Hr / Misc - Ea 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.
31430	Nova Del	20 ^h 37.7	+18° 48'	G12	Ilford	13		20 12 ⁽²⁷⁾	21 18	A
31431	HD 209813	22 ^h 01.0	+46 45	"	"	"		21 35 ⁽⁶⁵⁾	22 40	C
31432	SZ Psc.	23 ^h 08.3	+02 08	"	"	13 SHORT		23 05 ⁽²¹³⁾	21 43	A
31437	TI	calibration step wedge for plates				31430, 31431				
31433	q PERS	01:37.4	+50° 11'	G12	Ilford	9	62°F	3:00 ⁽⁶⁾	3:06	A
31434	HD 221253 AR CASS	23:24.8	58° 0'	G12	Ilford	9		3:14 ⁽¹⁸⁾	3:32	A
31434	TI	calibration wedge for plates				31432 - 31434				

22h00
 Dome Temp. 150°F
 PH-A repaired
 Screws in BACK PROTRUDING
 CAUSING BREAKAGE

Transparency Conditions FAIR → POOR 164

Focus

2030 Thin cloud
 2200 Clear

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	GAIN	COUNTS	Quality
2118	A 0044E	+19 05	2	8?		5-5-5	NOVA	400	240	FINE
2240	C ED. 45(?)	+47 06	2-3	7.5	K0	5-5-5		200	150	FINE
2143	W 2111	+2° 34'		8.5- 9.5	K1 III	5-5-5	HD Ecl Bin.	400	305	SL. WEAK
MWP-2 / 69.0°F // 5/9/06										
306	A W 0:04	50° 33'		3.95	B3P	15	Spect. Bin	40	18	(POOR GUIDING) FINE
332	A W 2:43	58° 24'		4.89	B3V	5-5-5	HD Ecl. Bin	200	80	(GUIDING) FINE
CLOUDS FROM S.W.										
MWP-2 / 69.0°F // 6 Sept 06										

Date Fri/Sat. 6/7 Sept 1968Observer Dyrl/S. Hs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
31435	HD 161701	17 ^h 41.9	-14° 42'	G-12	IIa-O	13	66°F	20 ^h 00	20 ^h 18	C	01 ^h 15 ^m W
31435	NOVA DEL	20^h 37.7	+18° 55'	G-12	IIa-O	13	66°F			A	
31436	γ ϵ Cep	22 ^h 29.3	+66° 38'	G-12	IIa-O	13x 2/3 long	62°F	01:26	2:36	A	~2 ^h 40 ^m
31437	AR Cas	23 24.8	+58 00	G12	IIaD	9		02 48	02 54	C	02 13 W
31438	ϕ Per	01 37.4	+50 11	G12	IIaD	9		03 02	03 06	A	00 12 W
31439	β Ari	01 49	+20 19	G12	IIaD	9xL		03 15	03 17	C	00 13 W
31440	X Per ^{HD 24534}	3 ^h 49.1	+50 45'	G-12	IIa-O	13xL		03 58	04 31	A	00 31 E
31441	"	"	"	"	"	"		04 33	05 02	C	00 03 E

Dome Temp. 53°F at 1930 44°F at 0040

Transparency Conditions *poor → cloudy*
Almost photoelectric after 0000 (some haze)

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 19	01 ^h 15 W	-14° 40'	~4"	6.0	B9I	5-5	cloud cover 20 ^h 15 ²⁰⁰ / 4 counts Clouds PLATE HOLDER A loaded, in N. Pier.	ALMOST BLANK
							Red PLATE/CELL CAP - LIGHT <u>will not go off</u> even when cell is capped & plate is capped.	
				8?		5-	HEAVY CLOUDS, spotty open patches. No counts.	
				stopped:			clouds & rain.	
22 23	~ 2 ^h 45 ^m W	+67° 00'	~3-4"	8.4(9.8)	09.5	5-5-5	Ecl. Binary FIELD O.K.	400/12658 VERY WEAK
22 54	02 13 W	+58 22		4.89	B3V	5-5-5	"	40/15 FINE
23 06	00 12 W	+50 32		3.95	B0p	5-5-5	Spect. Binary	40/18 FINE (GUIDING)
23 17	00 13 W	+20° 41'		2.7	A5	5-5-5	Ecl. Binary	20/11 FINE
24 21	00 31 E	+30 58	^{poor} 5+	6.4	Ope	5-5-5	Polaroid filter (0) (Sc)	200/40 WEAK
25 02	00 03 E	"	"	"	"	5-5-5	" (0+90°) "	200/40 WEAK & CENTRE FC SPECTRUM

Go by Pl ~ 160 visitors & Lys.

Date Sept. 7/8, 1968 Sat./Sun. Observer Go-Gs-HK 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
593-16A								2255	040 ^m		
31442	HD 121253 (ARC Cas)	23 24.8	+58 0	G12	Ilao	9	58°F	00 28	00 36	C	20 00
31443	φ PER	1 37.4	+50 11	"	"	"	"	00 57	00 59	A	21 51.5
31444	NOVA DEL	20 37.7	+19 55	"	"	13	"	01 21	02 11	C	22 23.1
31445	HD 209813	22 01.0	+46 45	"	"	"	"	02 29	03 38	A	24 27.1
31446	BF Aur	4 58.0	+41 09	"	"	"	56°F	03 55	05 17	C	21 53.3

Dome Temp. 46°FTransparency Conditions GOOD

168

Focus

Dome Temp. 40°F

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
00 36	C	00 00	+58 23	2"	4.89	B3U	5-5-5	G12	Hd ECLIPSING BIN. (CLOUDS)	40/15 FINE (GUIDING)
01 09	A	01 51E	+50 31	"	3.95	B30p	5-5-5	"	HK *	40/18 FINE (GUIDING)
02 11	C	04 23W	+19 05	"	?	?	5-5-5	"	NOVA DEL.	400/240 FINE
03 38	A	04 27W	+47 06	"	7.5	K0	5-5-5	"		400/300 FINE
05 17	C	01 53E	+41 15	"	8.5	B5U	5-10	"	Hd ECLIPSING BIN. (CLOUDS)	400/66 VERY WEAK

Dome Temp. 48°F

Focus

Dome Temp.

Transparency Conditions *fair and improving*
2200 very hazy

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 47	C	00 55'W	-14°41'	2-3"	6.0	B9I	5-5-5	612-38-9 SB	40/18 SL.WEAK
07	A	00 39E	+19°05'	~2-3"	(~8)	/	5-5-5	MV ≈ 6.5 (K7) clouds	400/240 FINE
23 26	C	00 10E	+67 01	~2-3"	8.4	09.5	5-5-5	Hd Eclipsing Binary FIELD OK	400/120 WEAK (GUIDING)
23 44	A	00 52E	+58 22	2"	4.89	B3V	5-10	" " " broken 4 PCS.	40/15 FINE
2 44		02 28W	+02 32	2-5"	8.5'	K1 III	5-5-5	" " " (BROKEN)	400/320 SL.WEAK
		00 56E	+19 33		6.4	K1	5-5-5	STD. VEL.	80/60 SL.WEAK
		31451, 31452						MWP-2 / 9548 // 68.0°F / 7.0 min	

Date Sept 11-12/1964 / Wed-Thurs Observer Msa-Bri 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
31453	nova Del.	20:37.7	+18° 48'	G-12	IIaO	14 (S)	58°F	0:31	2:05	C	0:31
31454	AR CASS	23:25.4	58° 00'	G-12	IIaO	9XL		2:23	02:35	A	02:14
31455	β PER S	01:37.4	50° 11'	G-12	IIaO	9		2:45	2:52	C	00:17
31456	β ARI	1:49.4	+20° 19'	G-12	IIaO	13XXL		3:01	3:05	A	00:19
31457	(14286) MIRA (ETI)	2:17:50	¹⁹⁷⁰ -3° 6' 39"	G-12	IIaO	9		3:18	4:15	C	01:04
31458	HD 35410	5:19.4	-0° 59'	G-12	IIaO	9	54°F	4:24	5:18 5:18	A	00:58

EST 0:00 -> EXCELLENT
 2:40 -> CIRRUS FROM W. SW

Dome Temp. 46°F

Transparency Conditions FAIR

172

Focus

Dome Temp. 40°F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FLUX	REMARKS	Quality
2:05 C	04:31	+19° 06'	> 8" VARIABLE	?	nova	5-5-5	6-12	BROKEN: 2 PCS. 400/120	SL. WEAK
02:35 A	02:14	58° 24'	~4"	4.89	B3J	25		Ecl. Bin 40/20	SL. STRONG
2:52 C	00:17	50° 33'		3.95	B0P	25		Spect. Bin (CIRRUS) 40/22	FINE COMPARISON (QUIDING) SL. STRONG
3:05 A	00:19	20° 40'	3"	2.7	A5	20		Ecl. Bin 40/22	NO COMPARISON (QUIDING) SL. STRONG
4:15 C	01:04	-3° 04'	~3"-4"	2.6	m6e	8-8-8		Mira Var. SLIT 700 LONG 400/300	FINE
4:50 A	00:58	-0° 54'	4"	5.9	K0	8-8-8		Star Vel. 400/126	SL. WEAK

(EXT. 30x # 3)

Date Sept 12-13 Thurs-Fri Observer Sc - R.S. / H.V. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31459	β Lyr	18 ^h 46.4	+33 15	G108	IIa-O	20.0 2.5	60°F	20:01 ⁽¹⁾	20:02	A	00 ^h 23 ^m
60	"	"	"	"	"	"	"	20:03	20:03	B	00 22
61	9 Sge HD 188001 T _n	19 ^h 47.9	+18 25	G108	"	"	"	20:18 ⁽³⁾	20:21	A	23 ^h 37 ^m
62	"	"	"	"	"	"	"	20:24 ⁽²⁾	20:26	D	23 ^h 43 ^m
31463	Nova Del.	20 37.7	+18 55'	G12	IIa-O	9.0	"	20:44 ⁽⁶⁴⁾	21:48	A	01:26
31464	HD 209813	22 ^h 01.0	+46° 45'	"	"	13.0	"	23:40 ⁽⁶⁴⁾	00:44	A	
31465	SZ Psc HD 219113 T _n	23 08.3	+0208	"	"	13 SHORT	"	01:00 ⁽¹⁷⁰⁾	03:55	C	03:00
31466	ϕ Per	01 37.4	+50 11	"	"	9 NORM.	"	04:09 ⁽³⁾	04:12	A	01:42
31467	HD 26162	04 03.3	+19 21	"	"	"	"	04:30 ⁽²⁸⁾	04:58	C	00:26
31467	T ₁	calibration step wedge for plates 31453-31467									

Dome Temp. 49° F 00^h10 AURORA

Transparency Conditions (clouds occasionally)

174

Focus

but mostly clear

Dome Temp.

AFTER 02^h30 EXCELLENT

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
20:02	B	00 ^h 23 ^m	+37° 21'	2-5	2.4	Rpe	none	G-12	polaroid mirror 2	80/3 FINE
20:03	B	00 22	"	"	"	"	"	"	" 2	"
20:21	A	23 ^h ^{[0235]T_n} 37 ^m	+18° 38'	"	6.2	Os	"	"	" mirror 1	80/3
20:26	C	23 ^h ^{[0045]T_n} 43 ^m	"	"	"	"	"	"	" 2 (in box #2)	"
21:18	A	0:17W	-19° 06'	"	6.5?	Waka	5-5-5	G-12		40/24 FINE
									(exposed to light)	
00:44	A		+47° 06'	"	7.5	KO	5-5-5	G-12		40/30 SL. WEAK
03:50	C	0350W	+0236	"	8.5- 9.5	KI III	5-5-5		HA Ecl. Bin.	400/286 SL. WEAK
04:12	B	0142W		2-3	3.95	Bop	15			40/18 FINE
04:30	C	0002W	+1933	2	6.4	KI	5-5-5		STD VEL BROKEN (3 pps)	40/30 FINE

Date Sept. 13/14, 1968 - Fri/Sat. Observer RG-Dy-Go/HK 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.
594-1 to 24								2210	0340	
31468	♃ Per	1 ^h 37. ^m 4	+50°11'	G-12	IIa-0	9.	57°F	4:11	4:15	A
31469	AR Cas	23 ^h 25. ^m 4	+58°0'	"	"	"	"	4:32	4:41	C
31470	HD 22484	3 ^h 31. ^m 8	+0°05'	"	"	"	"	5:07	5:18	A

Dome Temp. ...

Focus

Dome Temp. ...

Hour Angle
End1^h49^mW4^h28^mW1^h58^mW

Dome Temp. 45°F

Transparency Conditions GOOD

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Focus

Dome Temp. 46°F

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Filter

REMARKS

Quality

CIRRUS

4:15 A

1^h 49^m W

+50° 33'

~3"

3.95

B0p 5-5-5-12

HK *

40/18

STRONG

4:41 C

4^h 28^m W

+58° 24'

"

4.89

B3V 5-5-5 "

Hd Ecl. Bin.

40/15

STRONG (GUIDING)

5:18 A

1^h 58^m W

+0° 20'

"

5.2

F9 5-5-5 "

Std. Vel.

40/21

STRONG

Bm, Dy, Hh - visitors E Lyn

Date Sept. 14/15, 1968 - Sat./Sun Observer HK-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.H.	Hour Angle End
31471	Nova Del	20 ^h 37. ^m 7	+18° 55'	G-12	IIa-0	13	67°F	22:06 ⁽⁷⁰⁾	23:16	A	1:54 W
31472	XZ Cep	22 ^h 29. ^m 3	+66° 38'	"	"	13	"	23:40 ⁽¹⁴⁵⁾	02:05	C	2:45 W
31473	ARCAS	23 ^h 25. ^m 4	+58° 0'	"	"	9 ^{long}	"	02:15 ⁽⁶⁵⁾	03:20	A	3:10 W
31474	"	"	"	"	"	"	"	03:24 ⁽¹²⁾	03:36	C	3:27 W
31475	Ø Per	1 ^h 37. ^m 4	+50° 11'	"	"	9 ^{reg}	64°F	03:43 ⁽⁷⁾	04:00	A	1:37 W
31476	HD 3712 (α Cas)	00 ^h 34. ^m 8	+55° 59'	"	"	9 ^{reg.}	"	04:13 ⁽⁴⁾	04:17	C	2:58 W
31477	HD 12929 (α Ari)	02 ^h 01. ^m 5	+22° 59'	"	"	"	"	04:23 ⁽³²⁾	04:55	A	2:10 W
31478	HD 20902 (α Per)	03 ^h 17. ^m 2	+49° 30'	"	"	"	"	05:01 ⁽⁴⁾	05:05	C	1:03 W
31479	HD 29139 (α Tau)	04 ^h 30. ^m 2	+16° 18'	"	"	"	63°F	05:11 ⁽²⁾	05:13	A	0:02 E
31480	HD 62509 (ε Gem)	07 ^h 39. ^m 2	+28° 16'	"	"	"	"	05:25 ⁽³⁾	05:28	C	2:55 E

Dome Temp. 54°F

Focus

Dome Temp. 48°FTransparency Conditions SOMEWHAT HAZY

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02:00 + AFTER: CLOUDY

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	filter	REMARKS	Quality
23:16	A	1:54 W	+19°06'	~3"		Nova	5-5-5	S-12	Plate broken into 3 pieces, but still hanging together.	400/240 FINE
02:05	C	2:48 W	+67°01'	~4"	8.4	O95	5-5-5	"	Hd Ecl. Bin.	400/83 U. WEAK
03:10	A	3:10 W	+58°23'	"	4.89	B3V	5-5-5	"	Hd Ecl. Bin. (clouds) DARK SLIDE MOMENTARILY FORGOTTEN. PROBABLY FOGGED	40/15 BLACK (GUIDING) FINE
03:36	C	3:27 W	"	"	~11	S 11	5-5-5	"	" " "	40/15 FINE
04:00	A	1:37 W	+50°32'	"	3.95	B0pe	5-5-5	"	HK * (clouds)	40/18 FINE
05:17	C	2:58 W	+56°23'	"	3.34	K0II	5-5-5	"	Br Std. Vel.	40/30 (GUIDING) SL. STRONG
05:55	A	2:10 W	+23°21'	~5"	3.15	K2III	5-5-5	"	" " "	40/30 (GUIDING) SL. WEAK
05:05	C	1:03 W	+49°45'	"	2.27	FS Ib	5-5-5	"	" " " (clouds)	40/20 FINE
05:13	A	0:02 E	+16°27'	"	2.39	K5III	5-5-5	"	" " "	40/30 FINE
05:18	C	2:55 E	+28°08'	"	2.15	K0III	5-5-5	"	" " "	40/30 FINE

Dome Temp. 59°F

Transparency Conditions VERY HAZY

180

Focus

Dome Temp. 53°F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
20:25	02:00	-14 39	4"	6.0	B9I	5-10	412	B&B4 Bin 40/15	WEAK
				27	M5C			Filter used CANT FIND STAR 400/300	
20:10	00:33	+10° 34'		4.15	K3II	24		B&H Std. Vel. 40/30	FINE
22:25	01:16	19° 05'		?	Rona	5-5		SUDDEN FOG! 400/240 ¹⁵⁸	SL. WEAK
								STAR COMPLETELY DISAPPEARED!	



Date Mon Sept 16-17/68 Observer Hd Bii - Mx 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.
31484	HD161701	17 41.9	-14 42	G12	IIaO	9 reg		19 19 ⁽⁴⁰⁾	19 59	A
31485	HD171232	18 28.5	+25 25	G12	IIaO	15 short	67°F	20 11 ⁽¹³⁾	22 02	C
31486	HD213947	22 29.9	+26 05	"	"	13 short		22 15 ⁽¹²⁴⁾	0:19	A
31487	HD223094	23:41.5	28° 9'	"	"	"	64°F	0:26 ⁽¹²⁶⁾	2:32	C
31488	φ PERS	1:37.4	50° 11'	G12	IIaO	9 reg		3:19 ⁽¹⁴⁾	3:33	C
31489										
31488 T1	calibration step wedge for plates 31468-31488									

Dome Temp. -

Focus

Dome Temp.

Hour Angle
End

01:40

02:58

01:13

02:14

01:18

Dome Temp. 52°F (at ca. 22:00 EST)

Transparency Conditions Hazy

Focus

AFTER 0:00 EST : EXCELLENT

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
10 59	W 1 ^h 40	-14 41	2"	6.0	B9 I	5-5-14 ⁶ / ₁₂		NO Binary	80/40 (GUIDING) FINE
21 02	W 2 ^h 58	+25 29	2"	8.66	G8 III	5-5-5		Sec. Std. Vel. Nd	400/210 FINE
0:19	W 1:13	+26 27	1"	8.93	K4 III	5-5-5		" " " "	400/280 FINE
2:32	W 2:14	+28° 32'	2"	8.97	K5 III	5-5-5		" " " "	*1 400/242 SL. WEAK (GUIDING)
3:13	W 1:18	50° 31'	~5"	3.95	B0 p	5-10		Spect. Bin	*2 40/18 POOR SKY FINE

mwp. 2 / 69.0° E // 18 Sept / 64

*1 2 PIECES, 1 PC ~ 1/2" LONG, MISSING (MISSING PIECE SHATTERED)

*2 HEAVY CLOUDS FROM N.NE.

Date Sept 20/21 Fri/Sat Observer Gr-Gro/rt 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.F.	Hour Angle End
31489	HD 161701	17 41.9	-14 42	G12	II a0	009	66°F	19:05 ⁽³⁷⁾	20 33	A	06 30W
31490	HD 204867	21 26.3	-6 01	"	"	"	"	20:46 ⁽³⁸⁾	20:51	C	0 52°E
31491	AR Cas	23 25.4	+58 0	"	"	009XL	"	21:23 ⁽³⁹⁾	21:30	A	02 36
31492	HD 209813	22 ^h 01.0	+46° 45'	G12	II a0	013	"	21:47 ⁽¹⁰⁾	23 27	C	01 06W
31493	XZ Cep	22 29.3	+66 38	"	"	013X ^{3/4}	"	23 43 ⁽¹²⁾	01 ^h 45 ^m	A	2 55 ^m W
31494	β Ari	01 49	+20 19	G12	II a0	069X ^{1/2}	64	02 ^h 03 ^m	02 05	C	0 05 ^m E
31495	(1 ^{on end}) β Ari	01 49	+20 19	"	"	"	64	02 ^h 21 ^m	02 ^h 23 ^m	A	0 14 ^m W
31496	φ Per <i>maybe misdup</i>	01 37	50 11	"	"	009	64	02:34 ⁽⁶⁾	02:40	C	0 41W
31497	Mira Alt	¹⁹⁷⁰ 02 17.8	-03 06	G12	II a0	009	64	02:50 ⁽³⁰⁾	03:20	A	0 45 ^m W
31498	BF Ara	4 ^h 58.0	+41° 09'	"	"	013	64	03:32 ⁽¹⁰³⁾	05:15	C	0 67°E

Dome Temp. 55°F

Transparency Conditions Very hazy.

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Focus

Dome Temp. 51

Ending Time EST.	PR	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
20:30	H	02 30 W	-14 40	4"	6.0	B9I	5-5-5	G12	Thick cloud in west (alt. < 20°)	200/80 SL. WEAK
20:51	C	0 ^h 58 ^m E	-05° 41'	4"	3.73	G016	5-5-5	"	BR. ST. VEL. STAR	40/23 (GUIDING) FINE
21:30	A	02 ^h 17 ^m E	+58° 23'	2-3"	4.89	B3V	5-5-5	"	Blow slow RA Face. Fixed Refractor (#2 - NOT PHOTOMETER ONE) X hair light doesn't work. (60)	40/15 (GUIDING) FINE
23:27	C	01 06 W	+47 05	4"	7.5	K0	5-5-5	"		400/300 FINE
01:45	A	2 ^h 56 ^m W	+67 00	4"	8.4	O9.5	5-5-5	"	Hd BINARY. Sky clearer.	400/100 VERY WEAK PART OF COMP. MISSING *
02:00	C	0 ^h 05 ^m E	+20° 42'	4"	2.7	A5	5-7	"	Trailed too slow.	40/15 SL. STRONG (GUIDING)
02:23	A	0 ^h 14 ^m W	"	4"	2.7	A5	7-7	"	Trailed fast.	40/15 FINE *
02:49	C	0 ^h 41 ^m W	50° 32'	3-4	3.95	B0p	15	"		40/18 FINE
03:20	A	0 ^h 45 ^m W	-03° 04'	2"	6-7	Mia	5-5-5	"	PLATE BROKEN IN HOLDER (≈ 1/2° missing) →	400/400 FINE
05:5	C	0 ^h 6 ^m E	41° 16'	2"	8.5	B5V	5-5-5	"	Used finder/finder for 31400 Very thick haze + clouds.	400/130 VERY WEAK
* WITH AN EXTREMELY LONG SLIT, THERE IS THE DANGER OF PARTIALLY OR COMPLETELY BLOCKING THE FC COMP. (SEE # 31456,)										

Date Sept - Sun 21-22 Sept, 1968 Observer Sc / Bü-Gs 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
31499	β Lyr.	18 ^h 46.4	+33 15	G-12	II ₂ -0	13.0		21:26 ⁽¹⁵⁾	21:41	A	
31500	β Lyr.	18 ^h 46.4	+33 15	G-12	II ₂ -0	13.0		21:45 ⁽¹⁷⁾	22:02	C	3:07 W
31501	209813	22 01.0	+46° 45'	G-12	II ₂ -0	13.0	66°F	22:22 ⁽¹²³⁾	00:25	A	2:09 W
31502	AR Cas	23 25.4	+58 0	G-12	II ₂ 0	009H	"	00 51 ⁽⁹⁾	01 00	C	01 18 W
31503	ϕ Per	1 37.4	+50 11	"	"	009	65°F	01 10 ⁽⁶⁾	01 16	A	00 38 E
31504	HD 3712 (α Cas)	00 34.9	+55 59	"	"	"	"	01 25 ⁽⁵⁾	01 28	C	00 36 W
31505	HD 4128 β Cet	00 38.6	-18 32	"	"	"	"	01 37 ⁽²⁾	01 43	A	00 45 W
31506	HD 12929 α Ari	03 01.5	+22 59	"	"	"	"	01 50 ⁽¹⁵⁾	01 53	C	00 25 E
31507	HD 18884 α Cet	02 57.1	+3 42	"	"	"	64°F	02 00 ⁽²⁾	02 13	A	01 00 E
31508	HD 20902 α Per	03 17.2	+49 30	"	"	"	"	03 10 ⁽⁶⁾	03 12	C	00 23 E
31509	HD 29139 α Tau	04 30.2	+16 18	"	"	"	"	03 25	03 26	A	01 22 W
31509 T1	calibration wedge for plates 31489 - 31509										
31509 T2	sky spectrum dome open 1 ft 3". 9 L. 2 counts at um / A										

Dome Temp.

Focus

Dome Temp.

Date 25-26 Sept. 1968 Wed-Thu Observer Sc - Ez. / mse Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31510	β Lyr.	18 ^h 46.4	+33 15	G-12	IIa-0	13.0	64°F	19 12 ⁽¹²⁾	19 24	A	0 ^h 37 ^m W
31511	"	"	"	"	"	"	"	19 26 ⁽¹⁴⁾	19 40	C	0 ^h 54 ^m W
31512	"	"	"	"	"	"	"	19 43 ⁽²⁰⁾	20:03	A	1 ^h 11 ^m W
31513	"	"	"	"	"	"	"	20:05 ⁽³¹⁾	20:36	C	1 50 W
31514	HD 209813	22:01.0	46° 45'	G-12	IIa-0	12.0	57°F	1:03 ⁽⁶⁰⁾	2:03	C	0 4:02 W
31514 T.	calibration step wedge for plates 31510 - 31514										

Dome Temp. 47°F

Focus

Dome Temp. 43°F

Transparency Conditions AFTER EST 0:00 - INTERMITTENT
CLOUDS 150

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:24	A	0 ^h 37 ^m W	+33 21	3-4"	3.4	Bpe	5-5-5	isolated ①	40/20 FINE
19:40	C	0 ^m 54 ^m W	+33 21	3-4"	3.4	"	5-5-5	" ②	40/20 FINE
20:03	A	1 ^h 11 ^m W	+33 21	"	3.4	"	5-5-5	" ① (DARK SLIDE NOT COMPLETELY IN PLACE)	40/20 1 END FOLDED
20:26	C	1 50 W		"	"	"	5-5-	direct. clouds	40/18 STRONG
CLOSED UP AT 21 30 - E2									
[* FOUND TELESCOPE JAMMED AGAINST PLATFORM RELEASED]									
E2 RUN TOO FAR S. WITH S MOTOR & CLUTCH NOT A									
21:03	C	W 4:02	47° 06'	≥ 5"	7.5	K0	5-5	(FIELD DRAWN)	200/45 4? VERY WEAK
COMPLETE OVERCAST									
27 Sept/66 // MWP-2 / 67.0°F									

Dome Temp. 40°F

Transparency Conditions General

192

Focus

Dome Temp. 37°F

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10:15	A	0:37 W	+27° 13'	4-5"	10.5	F-K Fb	none	son Ferris (4000 ¹⁰⁰⁰ 900 ¹⁰⁰⁰ p.d. exp) →	$\frac{4000}{192}$ VERY WEAK
13:20								Lightning + clouds.	
23:46	A	1:44 E	+50° 33'	~4-5"	3.95	B _{0pe}	5-5-5		40/17 FINE
00:20	C	2:29 E	+03° 58'	"	4.16	M2 III	5-10	Broken into 2 pieces (Closed up at 00:30 EST because of clouds)	40/30 BROKEN FINE

Date SEPT. 29 - 30 / 1968 Observer (Gor) G-Ci / (H.S.) Julian Day SUN. - MON.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	
31518	HD190864	20 ^h 01.9 ^m	+35° 19'	G108	IIa-0	25 ex. long	54°	19:55	20:04	A	
31518	Go tried, but not photom.								about 10 min		
31519	NOVA DEL	20 ^h 37.7 ^m	+18° 48'	G12	IIa-0	13 long	52° F	20:55	22:09	A	
31519											
31520	SZ Psc	23 ^h 08.3 ^m	+02° 08'	G12	IIa-0	13 short	48° F	22:22	23:46	C	
31520	τ ₁	calibration step wedge for plates 31515 - 31518									

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

01^h 45^m W-
 01^h 54^m W-

Dome Temp. 36°F

Transparency Conditions

196

Focus

Dome Temp. 36°F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:00	00 ^h 17 ^m W		5"	7.96	0	NONE	SHUTTER MECH. ON G108 NEEDS REPAIR.	800/140 VERY STRONG
							Clouded in partially.	
2:09	01 ^h 46 ^m W	+49° 04'	4"	7:	NOVA	5-5-5	Speed control on auto-guider went crazy - at lowest, would only trail half the slit.	800/240 SL. WEAK
23:46	00 ^h 54 ^m W	+02° 34 ^m	6"	8.5	K.III	5-10	Cloudy intervals - clouds terminated by.	400/40 VERY WEAK 300
							<u>02h00</u> Cloudy. H.S.	
							30 Spt/04/1 NW P-2/66.0°F	

Date Mon Sep 30 - Oct 1 / 68 Observer Hd G. Coe Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
31521	HD 161701	17 41.9	-14 42	G12	IIaD	9		18 51 ⁽³⁸⁾	19 29	A
31522	Nova Delf	20 40.8 ^{37.7}	+18 55	"	"	9		19 45 ⁽⁴⁷⁾	20 29	C
598-1 to 33								21:25 ^(7:35)	05:00	
31522 T1	calibration step wedge for plates 31521, 22									

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

W 2' 05"

W 10"

Fitzgerald + class - Ring Nbr.

Date Mon Even 09 12 / 68 Observer Ri It / mse Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
5891 to 12								1935	22:20		
31523	HD 221253	23 35.4	+58° 0'	G12	IIaD	.009L	68°F	22:40	22:51	A	04:06
31524	φ Per	01 37.4	+50° 11'	"	"	1009		23:01	23:07	C	24:07E
31525	HD 11636	01 49	+20° 19'	"	"	013L		23:17	23:19	A	24:08E
31526	HD 222368	23 34.8	+05° 05'	"	"	009		23:29	23:52	C	04:41W
31527	HD 9138	1: 24.9	+5° 38'	G12	IIaD	13		0:02	0:56	A	00:06
31528	(52 PSC) HD 219113	23:08.3	+2° 8'	G12	IIaD	135		01:02	2:22	C	03:36
	BF AIR	4:58.0	41° 09'	G12	IIaD	135		2:27		A	
31528 T1	calibration step wedge for plates 31523-31527										
31528 T2	" " " " " # 31528										

Dome Temp _____
Focus _____
Dome Temp _____

Hour Angle
End

Date 3-4 Oct. 1968 Thurs-Fri Observer Sc-Ci-JL-HS Julian Day 1968274

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Est.
31529	β Lyrae.	18 ^h 46.4 ^m	+33° 15'	G12	II-a0	13 _{long}	56°F	18:51	19:12	A	0 ^h 55 ^m
31530	"	"	"	"	"	"	"	19:14	19:23	C	0 ^h 57 ^m
31531	"	"	"	"	"	"	"	19:24	19:32	A	1 ^h 15 ^m
31532	HD188001	19 ^h 47.9	+18° 25'	G-108	IIa-0	20x _{long}	"	19:50	20:09	A	0 ^h 50 ^m
31533	"	"	"	"	"	"	"	20:11	20:33	B	1 ^h 15 ^m
31534	λ Cep. ^{HD210839_{Tp}}	22 ^h 08.1	+58° 55'	G-108	IIa-0	20x _{long}	"	21:10	21:16	C	0 ^h 20 ^m
31535	"	"	"	"	"	"	"	21:19	21:26	A	0 ^h 17 ^m
31536	"	"	"	"	"	"	"	21:30	21:36	B	0 ^h 00 ^m
31537	HD 209813	22 ^h 01.0	+46° 45'	G-12	IIa-0	13 _{long}	"	21:54	23:58	C	2 ^h 27 ^m
31538	γ Cas.	00 50.7	60 11	"	"	13	"	00 11	00 14	A	00 06 ^m
31529	"	"	"	"	"	"	"	00 18	00 21	C	
	HD 111111 ^{Oct 1}	02 14.3	-03 26							A	
31539 T1	calibration step wedge for plates 31529 - 31539										

Dome Temp.

Focus

Dome Temp.

Hour Angle
Est.

Dome Temp. 36°F

Transparency Conditions partly cloudy

Focus

0033 clouds

Dome Temp.

0200 STILL 0^o CAST.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00:25	A	00 ^h 55 ^m W	+33 21	^{poor} 5+	3.4	B _p II	5-5-5	G-12	position ① clouds.	40/20 FINE
00:33	C	01 ^h 07 ^m W	+33 21	"	"	"	"	"	rotated " ②	40/20 FINE
00:32	L	1 ^h 16 ^m W	" "	"	"	"	"	"	" ③ clouds	40/18 FINE
00:39	A	0 51W	+18° 37'	"	6.23	085	none.	"	④ []	800/134 (GUIDING) FINE
00:35	B	1 ^h 15W	"	"	"	"	"	"	⑤	800/121 FINE
00:46	C	0 ^h 20 ^m E	+59° 16'	"	5.29	06F	"	"	⑥	800/118 FINE
00:26	A	0 ^h 11 ^m E	"	"	"	"	"	"	⑦ (problem?)	800/102 (GUIDING) FINE
00:30	B	0 ^h 00 ^m	"	"	"	"	"	"	⑧	800/126 SL. STRONG
00:33	C	2 ^h 28 ^m	+47° 06'	"	7.5	K0 III	5-5-5	G-12	" ⑨	400/1300 FINE
00:05	A	00 06E	+60 33	"	2.2	B0 IV	7-7	G-12	⑩	40/30 (GUIDING) SL. STRONG
00:02	C	"	"	"	"	"	7-7	G-12	⑪	40/30 SL. STRONG
00:00	A	00 06E	+60 33	3.4	7.3	gM6e 5	5	G-12	⑫	40/30

Dome Temp. 29°F

Transparency Conditions GOOD

204

Focus

Dome Temp. 24°F

scattered clouds

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:04	A	4 ^h 53 ^m W	+32° 53'	~5"	~8	MS ₂	5-5-5G-12	RG MIRA VAR. clouds	401198 * VERY WEAK
00:40	C	0 ^h 23 ^m E	+50° 32'	~4"	3.95	Dope	8-8-8	clouds	40113 FINE
								closed up at 01:00	
								RAIN	
								* comparison partially cut off due to very long slit	
								DEC. SLOW MOTION MOTOR SPARKS WHEN SLOW MOTION BUTTON IS PUSHED AND AGAIN WHEN BUTTON IS RELEASED. IS THIS NORMAL?	

205. Visitors: Am, Dy, Pl ^{1st - 92} ^{2nd - 104} E, E2 Lynneshown

Date 5-6 Oct, 1968 Sat-Sun. Observer Sc-Sv/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.
31542	φ Per.	1 ^h 37.4	+50° 11'	G12	IIa-0	9.0	46°F	22:27 ⁽¹²⁾	22:39	A
31543	"	1 ^h 37.4	+50° 11'	G12	IIa-0	9.0	46°F	22:43 ⁽¹¹⁾	22:54	C
31544	"	1 ^h 37.4	+50° 11'	G12	IIa-0	0.0	46°F	22:58 ⁽¹⁶⁾	23:14	A
31545	σ Cet.	2 ^h 14.3	+3° 26.1	G12	IIa-0	13.0		23:24 ⁽³¹⁾	23:55	C
31546	"	"	"	"	"	"		23:59 ⁽²⁰⁾	01:20	A
31547	HD 14386	2 14.3	+50 26.1	"	"	9xL		00:30 ⁽¹⁷⁾	00:47	C
31548	HD 9138	01 24.9	+05° 38			9		00:57 ⁽⁴⁾	01:39	A
31549	HD 29587	04 34.5	+41 57			13	42°F	01:54 ⁽¹⁾	02:55	C
31550	BF Aur	04 58.0	+41° 09			13		03:05 ^(2:05)	05:10	A
31551	HD 62509 PGEM	07 39.2	+28 16			9		05:26 ⁽⁴⁾	05:30	C
31551 T1	calibration step wedge for plates 31540-31551									

Dome Temp. 30°F

Transparency Conditions few clouds & haze

206

Focus

Dome Temp. 25°F

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:39	A	2:20 E	50° 32	3"	3.95	Bupe.	5-5-5	G12 polaroid filter ②	40/17 U.S.L.WEAK
2:54	C	2:05 E	50° 32	3"	3.95	Bupe.	5-5-5	G12 polaroid filter ④	40/17 SL.WEAK
3:4	A	1:45 E	50° 32	3"	3.95	Bupe.	5-5-5	G12 ②	40/18 FINE
3:55	C	1:40 E	-3° 05'	"	3-9	gM6e	5-5-5	G12 position ①	40/30 SL.WEAK
4:20	A	1:15 E	"	"	"	"	"	②	40/30 VERY SL.WEAK
4:47	C	0:47 E	"	"	3-9	SM6e	5-5-5	G12 2 pics	40/30 BROKEN SL.WEAK
4:39	A	0:54 W	+06° 02	~3	6.2	K4	5-5-5	std Del	200/150 SL.WEAK
4:55	C	1:00 E	+42° 04	2-3	7.7	G2	5-5-5		200/100 SL.WEAK
4:52	A	0:50 W	+41° 15'	~3	8.5-9.2	B5V	5-5-5	too much haze afternoon will 400	400/90 SL.WEAK (GUIDING)
4:30	C	1:31 E	+28:07		2.5	K0III	5-5-5	Bred std Del	40/30 FINE
7628164 // mwp-2 / 66.0°F									

Dome Temp. 34°F

Transparency Conditions POOR

20

Focus

21:00 - clouds

Dome Temp. 29°F

22:30 - excellent

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:20	C	7	+19°05'	~5"	~7.5	—	5-5-5	400/210	FINE
22:41	A		+50°32'	~2"	3.95	B0pe	5-5-5	HK *	EXTREMELY WEAK
22:50	A	.	"	2-3"	"	"	"	PROBABLY FOGGED (NO FOG) GAIN 400 BY MISTAKE	"
23:12	C	1:37 W	+58°22'	"	4.89	B3V	5-5-5	Hd Ecl. Bin.	(GLIDING) VERY WEAK BROKEN
23:27.5	C	1:32 E	+20°41'	"	2.7	A5	5-5-5	" " " BROKEN: 2 PIECES	40/15 40/17 40/18
23:34	A	1:25 E	"	"	"	"	5-5-5	" " "	BROKEN GLIDING NO COMP. *
	C			"	~9	R III	5	" " " (THIS PLATE WAS IN 3 PIECES, INVERTED)	400/
1:50	A	w 2:32	+2° 33'	~3"-4"	K I III	5	5	Ecl. Bin SHORTENED SLIT	400/43 VERY WEAK
								2:30 - clouds from S.W.	
								* SLIT TOO LONG; CUT OFF WAMP.	

Date Oct 9/10 Wed/Thu 1968 Observer F RS SV - Julian Day

Dome Temp. 3
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
	MH2 328-116	19 55.0	39 41	G-12	IIaO	8	52F	19:50	21:05	A
	HD 221253	23 25.4	58 00	"	"	13		22:25	22:45	C
31559 T1	calibration for plates 31553, 31560, 31561									
31559 T2-	" " 31554 - 31559									

Hour angle
End
0.10W

Dome Temp. 39°F

Transparency Conditions

212

Focus

Dome Temp.

Ending Time
EST.

P.F.

21.05

22.45

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 05W	39° 26'	"	"	Em	6-6	wrong field? slit wrong	WEAK COMP NOTHING
0 15W	58° 24'	2	4.9	B3V	6-6-6	200/80 clouds	FORGOT TO UNCR.P.??
						10 Oct/68 // MWP-2 / 66.0° E / 7.0 min.	
						" " " 12.0 min	

Dome Temp. 38°F

Transparency Conditions

Focus

20:00 CLOUDS

Dome Temp.

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0° 10"

A

?

2"

7.5

KO

S-S-5

250 counts.

400/300

FINE

0200

Clouds.

MORE CLOUDS 0230

mwp-2/act 11/67.0"=//

1 Plate from A - 2 Pcs MARKED "60"

1 " " C " " "XX"

Dome Temp. 41°F

Transparency Conditions *hazy + fog*

216

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:20	A 0.35W	+10° 19'	3-4	5.8	F8	5-5-5	I think wrong star Std Vel WRONG STAR 200/100	*
19:56	C 1.25E	+04° 35'		5.9	K0	5-5-5	" " 200/150	OK *
20:04	A 3.35W	+47° 07'		7.5	K0	5-5-	field diaphragm lens repaired WRONG STAR 400/200	*
							fog becoming heavy - HD209813 - 20 counts took 30m. outside of dome quite wet	
							* BADLY FOGGED; IT APPEARS THE TOP WAS MOMENTARILY OPENED ON THE EXP. BOX	

Date Oct 12/13 1968 Sat-Sun Observer S. Go/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.H.	Hour Angle End
602-1 to 2								2130	2200		
31564	♂ Ceti	2^h 14.3	3° 26'	G-12	Ilford	9.0		23:10	23:40	A	
31564	HD 14386 Mars Ceti	2 ^h 14.3	-3° 26'			9		23:50 ⁽¹³⁾	00:03	C	1 ^h 04E
31565	♂ Per	1 ^h 37.4	+50° 11'			9		00:16 ⁽⁴⁾	00:20	A	0 ^h 12E
31566	HD 218393	23 ^h 02.6	+49° 40'			9		00:40 ⁽³⁰⁾	01:17	C	3 ^h 22W
602-3 to 25								0125	0542		
								2CH = 4:47			

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 4.2°

Transparency Conditions good

218

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 00								Readings unstable - cirrus.	
22 40	A				~6	M6e	5-5-5	① polarized plate badly broken.	40/30 (circled)
00 03	C	14 04 E	-03 04	3	~6	M6e	5-5-5		40/30 SL. WEAK
00 30	A	04 12 E	+50 33'	3-4	3.95	B0pe	5-5-5	HK* centred, slow motion	40/17 STRONG
01 17	C	34 22 W	+50 03'	3	6.8	Ave	5-5-5	Hd Be	200/80 SL. WEAK
								P.H. A LOADED IN N.P.	

Date Oct 13/14 1968 Sun/Mon Observer Ed. G. C. (H.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.H.	Hour Angle End
603-1 to 3								16 06:40	01:35 19 07:15		
31567	HD 209813	22 ^h 01.0 ^m	+46° 45'	G12	IIa-0	13	58°F	20:14	21:59	A	01 09 W
31568	φ PEP (HD 221253)	1 ^h 37.4	+50° 11'	G12	IIa-0	9	56°F	22:28	22:34	A	1 54 E +
31569	AR Cas	23 ^h 25.4	+58 0'	G12	IIa-0	9	56°F	23:02	23:10	A	0 55 W +
31570	(HD 16636) β Ari	01 ^h 49 ^m	+20° 19'	G12	IIa-0	13	55°F	23:35	23:38	A	1 00 E
31571	β Ari	04^h 58^m	+41° 09'	G12	IIa-0	13					

Dome Temp. 43°F

Transparency Conditions

220

Focus

Dome Temp.

FOGGY 24:00

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:15								Variable extinction.	
23:59	A	01 ^h 09 ^m W	+47° 06'	5	7.5	K0	5-5-5		400/200 SL. WEAK
23:34	A	1 54 E	+50° 31'		3.95	B0pe	5-5-5		400/17 (GUIDING) FINE
23:10	A	0 55 W	+58 22'		4.89	B3V	5-5-5		40/15 (GUIDING) FINE
23:38	A	1 00 E	+20 41		2.7	A5	5-10		40/18 (GUIDING) * FINE
					~8.5			FOG!	400/
								* 2/3 OF COMP. MISSING; SLIT TOO LONG	
								* SILICA GEL IN SPECT. SHOULD BE DRIED	
								* FINDER X HAIR LIGHT HAS BROKEN WIRE AT POT.	

Date Oct 14/15 1968 Mon/Tue Observer GO. NG. Ia - Hr Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31572 ⁷¹	Nova Del	20 ^h 37.7	+18 ^o 55'	G12	IIaO	13L	46°	1833 ⁽⁴²⁾	19:15 ⁽³⁷²⁾	C
31573 ⁷²	BD +61° 41'	2 ^h 19.0	+61° 33'	G108	IIaO	30	44	19:48	0200	A
31574 ⁷³	BF Aur	04 58.0	+41° 09'	G12	IIaO	13s		0244 ^(1:52)	0436	C
31574 ⁷³	T1	calibration strip used for plates 31561 - 31574								

Dome Temp. 46°

Transparency Conditions ... Foggy - Poor

222

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19:55	O	0h 51m W	+19° 05'	3" ~ 8	?	?	5-5-5	400/21	FINE
0200	A	0055W	+61° 53'	4-5	B-11, 2	?	R-2-2	* PLATE CAPPER MALFUNCTION! 800 400/41	FINE
								UNIVERSAL JOINT BROKEN! (G-108)	
0736	C	0052W	+41 16	4-5	8.5 -9.2	B5 V	5-5-6	ECL. BIN. Hd. 400/124	VERY WEAK
								0420 Clouds	
								If the dome is to be fastened with someone please	
								back CHAIN	
								ROPE	
								STAINING	
								RAG	
								SOMETHING ?	
								* UNIVERSAL COMPLING REPAIRED - me	
								DRYER CHANGED IN E.M. PART.	

15 Oct / 68 / in WP-2 / 68.0 °F / 7.0 min
[2 AOC, H &]

Date Oct 15/16 1968 TUES-WED Observer Sc - ci / HK - 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 Angle End
31574	γ Cyg. (194093)	20 ^h 21.1 ⁹⁷⁰	+40° 09'	G-12	IIa-0	13	65°F	19:02	19:04	A	0° 03'
31575	"	20:18.6	+39° 56'	"	"	"		19:06	19:08	C	0° 07'
31576	34 P Cyg (HD 193237)	20 ^h 14.6	+37° 43'	G-12	IIa-0	13	64°F	19:58	20:06	A	h 10'
31577	HD 193793	20 ^h 17.1	+43° 32'	G-12	IIa-0	13.0	64°F	20:18	21:25	C	2° 25' W
31578	12 Cas (214994)	22 ^h 37.0	+39° 43'	G-12	IIa-0	13.0	63°F	21:37	21:43	A	h 25'
31579	0 And (217675)	22 ^h 57.3	+41° 47'	"	"	"	63°F	22:06	22:09	e	0° 24'
31580	57 Psc (HD 219113)	23 ^h 08.3 ^m	+2° 08'	"	"	" slit		22:32	23:49	A	1° 58' W
31581	AK Cas 221253	23 ^h 25.4	+58° 00'	"	IIa-0	9.0	62°F	24:02	24:08	C	2° 00' W
31582	HD 217050	22 ^h 52.7 ^m	+48° 09'	"	"	"	62°F	00:35	00:45	A	3° 11' W
31583	HD 217543	22 ^h 56.3 ^m	+38° 10'	"	"	"	61°F	01:00	01:31	C	3° 53' W
31584	δ Per.	01 ^h 37.4 ^m	+50° 11'	"	"	"	60°F	01:41	01:44	A	23' W
31585	HD 12302	01 ^h 55.6 ^m	+59° 12'	"	"	"	60°F	02:21	4:33	C	4° 04'
31586	HD 21650	03 ^h 24.6 ^m	+41° 25'	"	"	"	60°F	05:06	5:55	A	3° 48'
31587	β Gem (HD 62509)	07 ^h 39.2 ^m	+28° 16'	"	"	"	59°F	06:07	6:10	C	0° 12'
31588	ϵ Leo (HD 84441)	09 ^h 40.2 ^m	+24° 14'	"	"	"	59°F	6:15	6:15	A	0° 05'
31588 TI	calibration strip under for plates					31576 - 31588					1.65

Dome Temp. 52°F

Transparency Conditions good

2:24

Focus

Dome Temp. 45°F

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:04	A	00 ^h 03 ^m W	+40° 10'	2"	2.88	F816	none	5+2 calcite prism test - good plate (developed) 40/36	FINE
9:08	C	0 ^h 07 ^m W	"	2"	"	"	"	guide on "left" slit to set both	FINE
10:06	A	1 ^h 10 ^m W	+37° 56'	2"	5.2	Bp	none	imager 40/30	SL. WEAK
21:25	C	2 ^h 25 ^m W	+43° 46'	2"	6.8	Wc6	"	80/60	VERY WEAK
21:43	A	0 ^h 24 ^m W	+40° 05'	"	5.2	B1	"	plate broken - 2 pcs. in box 80/61	BROKEN SL. WEAK
22:09	E	0 ^h 29 ^m W	+42° 11'	"	3.6	B6p	"	40/30	FINE
23:19	A	1 ^h 58 ^m W	+20° 33'	"	8.5-9.5	K1IV	5-5-5	short slit 800/2000	VERY WEAK (SL. GUIDING)
24:08	C	2 00 W	+58° 24'	~3"	4.9	B3E	5-5-5	Hd Ecl. Bin. 40/15	FINE
00:45	A	3:11 W	+48° 28'	"	5.2	B3ne	5-5-5	Hd Be * 40/15	(GUIDING) FINE
01:31	C	3:53 W	+38° 35'	"	6.4	B3ne	5-5-5	" " " 40/15	SL. WEAK (GUIDING)
04	A	1:23 W	+50° 33'	"	3.9	B0pe	5-5-5	Hk * 40/16	FINE (GUIDING)
4:33	C	4.04	+59° 33'	"	8.2	B3e	5-5-5	Hd Be * 400/150	SL. WEAK (GUIDING)
5:55	A	3:48	+41° 38'	2+3"	7.2	B5ne	5-5-5	" " " 400/150	(GUIDING) SL. WEAK
6:10	C	0:12 E	+28° 06'	"	2.15	K0III	5-5-5	Bright Std Vel. 40/31	(GUIDING) FINE
6:16	A	2:05 E	+23° 55'	"	3.76	G07I	5-5-5	" " " sky was bright 40/29	(GUIDING) SL. WEAK
		16 Oct / 16 F / mwp-2 / 68.0°F / 7:0 AM						SUNRISE = 6:33 EST	

Dome Temp. *46°F*

Transparency Conditions

226

Focus

Dome Temp.

Ending Time
E.S.T.

P.M.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

*Cloudy on most of day.
(+ danger of moisture falling
on telescope)*

Dome Temp. +31°F

Transparency Conditions Good after 02^h00 EST

232

Focus

0335 Clouds:

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0220W	4117	3	8.5 9.2	B5V	5-5-5	Hd Ecl. Bin.	400/73 SL. WEAK
MWP-2 / 10 min @ 69° = 12.00 / 6.4							

visitors: ~80 in MR's 216 class
M13, ϵ Lyr

Date MON-TUES Oct 21-22/68 Observer HK-Tr/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.II	Hour Angle End
31592	ϕ Per	1 ^h 37.4	50° 11'	G12	II-O-0	9	52°F	21:20	21:30	C	2:28E
31593	HD 209813	22 ^h 01.0 ^m	+46° 45'	"	"	13 SHORT	51°F	22:02	23:02	C	2:42W
31594	ARCas	23 ^h 25.4 ^m	+58° 00'	"	"	9 LONG	50°F	23:24	23:30	C	1:45W
31595	β Ari	01 ^h 49.0 ^m	+20° 19'	"	"	13	"	23:44	23:46	A	0:22E
31596	HD 20017 ^{HD 20017 T_n 95}	03 07.9	+48 19	"	"	13	"	23:57	01:31	C	0:04W
31597	HD 26162	04 3.3	+19 21	"	"	13	"	01:41	02:15	A	0:07E
31598	HD 35410	05 19.4	-00 59	"	"	9	48°F	02:29	03:10	C	0:27E
31599	HD 44131	06 15.0	-2 54	"	"	9	"	03:20	04:11	A	0:21E
31600	HD 66141 β Gem	07 57.1	+02 36	"	"	9	"	04:20	05:02	C	1:11E
31601	HD 62509 α Hya	07 39.2	+28° 16'	"	"	9	46°	05:13	05:25	A	0:32E
31602	HD 81797	09 22.7	-8° 14'	"	"	9	"	05:33	05:55	C	1:45E
31602 T ₁	calibration step wedge for plates 31592 - 31602										

Dome Temp. +35 F

Transparency Conditions FAIR

234

Focus

Dome Temp. +29°F

Ending Time EST.	PA	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:30	C	2:28E	50°33'	3"	3.95	B0pe	5-5-5	HR * 40/16	FINE
03:02	C	2:42W	+47°07'	2-3"	7.5	K0	5-5-5	spect. Bin 400/200	FINE
03:30	A	1:45W	+58°24'	2"	4.89	B3I	5-5-5	Hd Ed. Bin. 40/15	(SL GUIDING) FINE BROKEN
03:46	A	0:22E	+20°39'	"	2.7	A5	5-5-5	" " " BROKEN; 2 PIECES 40/15	FINE (SL GUIDING)
01:31	C	0"04W	+48°35'	~3	7.9	B9a	5-5-5	Hd Be field clects 400/150	SL WEAK
02:15	A	0"07E	+19°34'	3	6.4	K1	5-5-5	std. vnl 400/300	FINE
03:10	C	0"27E	-00 54	3	5.9	K0	5-5-5	std. vnl 200/150	V. SL WEAK BROKEN
04:1	A	0"21E	-02 53		6.5	M1	5-5-5	std vnl Broken 2 Pieces 200/150	WEAK BROKEN
05:06	C	1"11E	+02 28	4	5.5	K3	5-5-5	std vnl clouds from S.W. Broken 2 Pieces 200/150	V. SL WEAK BROKEN
05:25	A	0"32E	+28°07'		7.15	K0TD	5-5-5	Broken std vnl 2 Pieces 40/30	FINE
05:55	C	1"45E	-08 39		3.40	H4M	5-5-5	" " " clouds 40/30	FINE

22 Oct / Oct mwp 2 / 68.0°E / 70min

Date Mon-Tues Oct 28-29/68 Observer R. G. V. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31603	ϕ Per.	1 ^h 37.4	+50° 11'	G12	IIaD	9.	43°F	00:07	00:12	A
31604	HD 11636	01 49	+00° 19'	"	"	13 L	"	00:20	00:22	C
31605	HD 22484	03: 31.8	+00° 05'	"	"	9	42°F	00:33	0 ^h 55 ^m	A
31606	HD 29139	04: 30.2	+16° 18'	"	"	9	"	01:02	01:04	C
31607	^(ϕ Per.) HD 20902	03:17.2	+49° 30'	"	"	9	"	01:12	01:24	A
3160771	calibration	step wedge for plates 31603 - 31607								

Dome Temp. ... 25°F

Transparency Conditions ... clouds

238

Focus

Dome Temp.

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:12	A	0 ^h 42 ^m W	+50° 34'	5"	3.95	B0pe	5-5-5	Clouds in N.	40/16 (GUIDING) SL-STRONG
00:22	C	0 ^h 41 ^m W	+20° 40'	.	2.7	A5	15		40/15 (GUIDING) FINE
00:35	A	0 ^h 28 ^m E	+00° 20'		5.2	F9	5-5-5	Std Vel.	200/100 FINE
01:04	C	1:17 E	+16° 30'	5"	2.39	KSTIII	5-5-5	Std Vel.	40/30 FINE
01:24	A	0:15 W	+49° 47'		2.27	FSTII	5-5-5	Std vel. Cloudy.	40/18(1)12 FINE
<p>nwp - 2/67°F / 29.6e/6e</p>									

Dome Temp. 20°F

Transparency Conditions good until 20h

242

Focus

Dome Temp.

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:08	C	4 ^h 31W	39° 46'	1-4	10.8	Em	S-5-5	F emission object (ungraded in R.A.) cloud MW	OK
	D				3-76	K336		FBK Program clouded out could	
								* * Could not get exp. meter to work !! (TESTED ON 3 RD MAG. *)	
								EXI MTR CHECKED - DRYER - CHANGED - Hr	

243

20:30-22:00 ~50 visitors in Miss Northcott's class
M15Date Oct 31/Nov. 1, 1968 - Thurs/Fri Observer H.K.-Cs/Hv-Jf Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
31610	HD 206773	21 ^h 39. ^m 3	+57° 17'	G 12	II a 0	9	43°F	18:46 ⁽¹⁸⁾	19:04	C	0:18E
31611	HD 217050	22 ^h 52. ^m 7	+48° 09'	"	"	"	"	19:15 ⁽⁷⁾	19:22	A	0:05E
31612	HD 218393	23 ^h 02. ^m 6	+49° 40'	"	"	"	42°F	19:31 ⁽²¹⁾	19:52	C	0:50E
31613	HD 217543	22 ^h 56. ^m 3	+38° 10'	"	"	"	"	20:01 ⁽¹²⁾	20:13	A	0:23E
31614	φ Per	1 ^h 39. ^m 4	+50° 11'	"	"	"	"	20:21 ⁽³⁾	20:24	C	2:53E
31615	HD 209813	22 ^h 01. ^m 0	+46° 45'	"	"	"	"	22:00 ⁽⁶⁴⁾	23:04	A	3:25W
31616	AR Cas	23 ^h 25. ^m 4	+58° 00'	"	"	4	41°F	23:11 ⁽⁷⁾	23:18	C	2:13W
31617	β Ari	1 ^h 49. ^m 0	+20° 19'	"	"	"	"	23:28 ⁽²⁾	23:30	A	0:2W
31618	HD 15472	2 ^h 24. ^m 4	+70° 30'	"	"	"	"	23:53 ⁽⁸²⁾	01:15	C	?
31619	BF Aur	04 58.0	+41° 09'	"	"	SHORT 13	"	0131 ⁽⁶¹⁾	0232	A	0:55E
31619 T1	calibration step wedge for plate				31609 - 31619						

Dome Temp. 30°F

Transparency Conditions good

244

Focus

Dome Temp.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:07	C	0:14 E	+57°37'	3-4"	7.0	B0ne	5-5-5	Hd Be * 400/150	(GUIDING) FINE
20:09	A	1:10 E	+48°31'	"	5.2	B3ne	5-5-5	" " " POSSIBLY FOGGED SLIGHTLY 40/15	FINE
20:52	C	0:50 E	+50°03'	"	6.8	Ane	5-5-5	" " " 400/150	FINE
20:53	A	0:23 E	+38°32'	"	6.4	B3ne	5-5-5	" " " 40/15	FINE
20:24	-	2:53 E	+50°33'	"	3.95	B0pe	5-5-5	Hk * 40/16	(GUIDING) FINE
23:04	F	3:25 W	+47°07'	4-5"	7.5	K0	5-5-5	400/200	(GUIDING) FINE
23:08	C	2:13 W	+58°23'	"	4.89	B3V	5-5-5	Hd Eclipsing Binary 40/15	(GUIDING) FINE
23:30	A	0:2 W	+20°41'	"	2.7	A5	5-5-5	" " " BROKEN: 1 BIG PIECE 1 SMALL " 40/15	BROKEN GUIDING * FINE
23:15	C	?	+70°51'	"	8.0	B4ne	5-5-5	Hd Be * 400/150	FINE
23:32		0005 E	+4115		8.5 9.2	B5I	5-10	Hd Ecl. BIN CLOUDS 400/56	VERY WEAK

1 neo/68/ m.w.p. - 2/69.0°F

* SLIT TOO LONG; CUT OFF COMP

Date 3/4 Nov. 1968 SUN/MAN Observer nh / Hr 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.	Hour Angle End
31625	R CAS	23 ^h 53. ^m 3	+50° 49.9'	G-12	IIa-o	13	40°F	1935	3:55 2330	A	2° 0' W
31626	28 TAU =			G-12	"	"	"	2345	2355	C	1° 15' E
31627	φ PER	01 ^h 37. ^m 4	+50° 11'	G-12	"	"	"	00:11	00:13	C	1° 06' W
31628	HD 21650 MWC 68	03 ^h 24. ^m 6	+41° 25'	G-12	"	"	38°F	00:29	02:12	A	1° 19' W
3162E	T1	calibration step wedge for plates				31620 - 31628					

Dome Temp. 26°F

Focus

Dome Temp. 22°F

Transparency Conditions CLOUDY AT FIRST.
CLEAR
0035 CLOUDS

250

exp. meter in balance when pot is almost completely counter-clockwise

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23:30	A	2 ^h 10 ^m W	+50° 14'	2"-4" ~ 8.0 variable		Me	Fe 5+5+5	some light clouds	400/360 FINE
23:55	C	1 ^h 15 ^m E	+24° 05'	3"	~ 5.2	B8e	Fe 8+8	PLEIDNE	40/17 * SL. STRONG
00:13	C	1 ^h 06 ^m W	+50° 32'		3.95	Bo pec	15		40/17 * STRONG
02:12	A	1 ^h 19 ^m W	+41° 37'	3"	7.2	B5	5-5-5	Hd Be. Bin.	400/180 SL. STRONG

* SL. FOG AT 1 END.

4200/6x/MWP-2// 66.2°F

END BROKE OFF P.H. "C" slide } G-12
REPLACED w/ P.H. "B" slide. }

Dome Temp. 28°F

Transparency Conditions Very murky (i.e. practically soaked in)

Focus

Dome Temp. 28°F

Ending Time
E.S.T.

20 58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:04 E	+50°33'	4"	3.75	B0 _p	5-10	HK * (heavy clouds + full moon) 40/16	(GUIDING) FINE
						up to 20:00 - temporary cover of clouds	
						21:00 - permanent cloudsiness set in	
	mwp-2/66°E/15200/68						

Date Nov 5/6 1968 TUES./WENSD. Observer Sc-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 Angle End
31630	^{197345TM} HD 191077TM 2 Cyg	1970 20° 40.4	+45° 10'	G-12	IIa-O	9.0	46°F	^{h m} 18:33.5 (20)	^{h m} 18:35	A	
31631	2 Cyg	"	"	"	"	"	"	^{h m} 18:38	^{h m} 18:39	C	
31632	HD 217050	22° 52.7	+48° 09'	G-12	IIa-O	13.0		19:04 (20)	19:30	A	0:42E
31623	"	"	"	"	"	"		19:22 (20)	19:52	C	0:20E
31634	ARCA5	23 25.4	+58° 0'	G-12	IIa-O	9.0		21:19		A	0:42W
31634	71	calibration step wedge for 31632 - 4									

Dome Temp. —

Focus —

Dome Temp. —

Hour Angle
End

Dome Temp. 22°F

Transparency Conditions $\text{very thick haze (i.e. cloudy)}$ 256

Focus

Dome Temp. 20°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:35	$0^{\circ}00'$	$+58^{\circ}34'$	$4-6''$	3.75	BO _{pe}	5-5-5 HK * (clouds) 40/15 $\frac{1}{2}$	FINE
						23:00 - GOT EVEN CLOUDIER - WENT HOME	
						mwr - 2/66° = // 12 20/68	
						RATE METER WORKS IMPROPERLY INTEGRATOR ALL RIGHT	

Date Nov. 18/19, 1968 - Mon-Tues. Observer HK R. 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.	How Angle End
31636	HD 10516 HD 5311 ϕ Per	1 ^h 37. ^m 4	+50° 11'	G-12	IIa-O	9	38°F	18:40 ^②	18:42	C	320E
31637	γ Cas	0 ^h 50. ^m 7	+60° 11'	"	"	"	"	18:51 ^③ 19:08	18:57 19:09	A	270E
31638	"	"	"	"	"	"	"	19:15 ^③	19:17	C	200E
31639	AR Cas	23 ^h 25. ^m 4	+58° 00'	"	"	9 LONG	"	19:30 ^④	19:34	A	020E
31640	β Ari	1 ^h 49. ^m 0	+20° 19'	"	"	13 LONG	"	19:47 ^③	19:49	C	230E
31641	HD 209813	22 ^h 01. ^m 0	+46° 45'	"	"	9	"	20:18 ¹²	21:30	A	330W
31642	HD 35410	05 19.4	-00 59			9		01 21 ⁵⁵	01 56	C	000W
31642 F	Focus test				out of focus position	9	36°F			A	
31642 T	calibration	steps	wedge for plates								31636 - 31642
	Nov 20										
	Li	Open up	and closed up again							P.H. A	LOADING

Dome Temp. 24°F

Focus

Dome Temp. 20°F

Transparency Conditions initially: low flying clouds
 19:15: very clear except for occasional quick clouds

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Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:42	C	3:26 E	+50°34'	3-4	3.95	B0pe	5-5-5	HK *	40/16 (GUIDING) FINE
19:29	A	2:12 E	+60°34'	"	2.0	B0pe	5-5-5	Don Morton * (clouds)	40/15 (GUIDING) FINE
19:17	C	2:04 E	"	"	"	"	5-5-5	" " " 3X NORMAL	40/45 STRONG
19:34	A	0:20 E	+58°22'	"	4.89	B3V	5-5-5	Hd. Ecl. Bin.	40/15 FINE
19:49	C	2:30 E	+20°41'	"	2.7	A5	5-5-5	" " "	40/5 * POOR GUIDING EXP. OK
21:00	A	3:01 W	+47°07'	4-5"	7.5	K0	5-5-5		400/200 SL. WEAK
								21:30 - clouded over	
01:56	C	04:09 W	-0 55		5.9	K0	5-5-5	star vel. clouds	200/150 SL. WEAK
	A								20/20 contact to insolit
								clouded over & good	
								19 Nov/68 // map p. 21 66°E	
								* TOO LONG A SLIT; CUT COMPAR. OFF COMPLETELY	

Dome Temp.
Focus
Dome Temp.

Transparency Conditions

Ending Time
EST.

PE

A

A

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						$s/5$ ^(no) filter) set from <u>70 R</u> (through 100 R) to 30 R (c.w. as viewed above knob) (set to 50 R then down to 30 R for backlash)	SL. C TO VIOLET
						$s/5$ no filter - focus set to <u>50 R</u> . (D-19)	GOOD

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Wed. - Thurs.

Date Nov. 20-21, 1968

Observer Rs - Cs - HK 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.
31643 361643	ϕ Per	01 ^h 37.4 ^m	+50° 11'	G12	IIa-O	9	32	19 ^h 50 ^m	17 ^h 55 ^m	A
31643	T1 calibration slip wedge			G12						for # 31643
										Nov 22 Still cloudy at 3:30 AM HV
										Nov 21 " " " " " "
										" 24-25 S. lat. 2 cent at 03:30 HV
										" 25-26 Clouded in quickly, 1 plate used & discarded - HK, In

Dome Temp.

Focus

Dome Temp.

Hour Angle
End4^h 05^m E.

HK (ϕ Per)Date Nov. 27-28, 1968 / Wed-Thurs Observer F. Ea. / L. M. S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
31644	ϕ Per	1 ^h 37.4 ^m	+50° 11'	G-12	IIa-D	9	36°F	17:38 ⁽⁴⁾	15:42	C	351E
31645	M42 328-116	19 55.0	+39 41	"	"	9 short		18:13 ^{3/4R}	21:13	C	5:06W
31646	Saturn WRING	¹⁹⁶⁸ 1 14.8	+5° 00.0	"	"	9 v. long		21:37 ⁷	21 44	A	
31647	"	"	"	"	"	"		21:45	21:53	C	
31648	E RING	"	"	"	"	"		21:54	22:01	A	
31649	MOON 12	"	"	"	"	"		22:11	22:15		
31650	HD 3651	6 34.2	20° 43'	"	"	9 LONG		22:45 ⁴	23:31	A	3:06W
31651	HD BF AUR	4:58.0	41° 09'	G-12	IIa-D	13 ^{2/3}		1:49 ^{2:40}	4:29	A	3:06W
31651 T1	calibration star wedge for #										
31651 T2	"	"	"								

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

3:06W

3:06W

m.w.

Dec 2/3

Dome Temp. 19°F

Transparency Conditions *Good at start*

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Focus

then scattered cloud after 20h

Dome Temp.

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15:42	C	3:51 E	+50° 34'	3-4"	3.95	GOpc	5-5-5	HK # 40/17	(LOADING) FINE
21:13	C	5:26 W	+39° 47'	3-5	10.8	Em	5-5-5	F * Emission 408/53	GOOD
21:44	A		+ 5° 02'				15	F Program 24/20	* STRONG
21:55	C		+ 5° 02'					F " 20/20	* STRONG
22:01	A		+ 5° 02'					F " 20/20	* STRONG
22:15								F Anstarchus? (at-terminator) 20/20	* STRONG
23:31	A	3:06 W	+20° 54'		5.8	KOVI	5-5-	Bk Program (Exp meter sticking) 20/22?	VERY WEAK
4:29	A	3:06 W	41° 17'	4"	5.5-9.2	B5	5-5-5	E clipping Binary 800/122	WEAK
								<u>OVERCAST (04:30)</u>	
								DEC. SLOW MOTION MALFUNCTION ~ 23:00 (LINK-PIN SHEARED; REPAIRED BY L.)	
								NB ALL F & BK PLATES NEED A CALIBRATION PLATE	
								mwp-2 / 29 Nov/68 // T = 67° = 17 min	* Too long a slit, the FE comp was almost lost
								15 min	
DEC 3/68 EX. MTR CHECKED AK								* Exp Meter difficult to start.	
SPYER 2. CHANGED									

Date Dec 7/8, 1968 / 2nd - lun Observer BⁿG - W₃ / R.C.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.H.	Hour Angle Ecl
31652	ϕ Per	1 ^h 37 ^m .4	+50° 11'	G-12	II a-0	9	28°F	22:35 [Ⓢ]	22:39	A	01 01W
31653	" HD 23862 ⁱⁿ	"	"	"	"	"	26°F	22:48 [Ⓢ]	22:52	C	02 01W
31654	Pleiades (28 Tau)	03 ^h 43 ^m .2	+23° 50'	"	"	¹³ (3x long)		23:23 [Ⓢ]	23:47	A	00 51W
31655	HD 45829	06 ^h 24.6	+07° 59'	"	"	9	22°F	00:12 [Ⓢ]	03:12	C	01 38W
31656	HD 48329	06 ^h 37.8	+25° 14'	"	"	9		03:21 [Ⓢ]	03:30	A	01 40W
31657	HD 62509	07^h 39.2	+28° 16'	"	"	9					
31656F	focus test				out out / in in		22°F			C	

Dome Temp. 7°F

Transparency Conditions *hazy; scattered cirrus clouds.*

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Focus

Dome Temp. -30°F

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
22:39	A	01 49 W	+50° 33'	3"	3.95	B0pe	5-5-5		STRONG	
22:52	C	02 01 W	+50° 33'	3"	"	"	5-5-5		FINE	
23:47	A	00 51 W	+24° 04'	3"	4.8	B8p	<u>none</u>		FINE	
03:12	C	01 35 W	+07° 58'		6.8	K0	5-5-5	clouds	40/42 L.WEAK	
03:30	A	01 40 W	+25° 11'		3.1	G8, 6	5-5-5	"	40/21 FINE	
					1.2	K0 III		"	20/15	
							55	no plate	broken 2 pieces	SL. C T R. BROKEN

Exposure meter inoperative! Tonight's exposures (3152-3165) band on exposure graph down up by $\sqrt{5}$ overload light on power supply burned out

Date Sun/Mon 8/9 Dec 1968 Observer H.G. Cox/H₂ 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.	Flow Angle End
31657	Nova Del	20 37.7	+18 55	G12	IIa-0	13 long	20°F	17:30 ⁽¹⁴⁵⁾	20:15	C	4° 30' W
31658	β Ari	01 ^h 49 ^m	+20° 19'	G12	IIa-0	13 long	20°F	20:46:30 ⁽¹⁴²⁾	20:48:00	C	0° 09' E
31659	ϕ Per	01 ^h 37.4	+50° 11'	"	"	13 long	20°F	21:15 ⁽³⁾	21:18	A	0° 29' W
31660	"	"	"	"	"	9	29°F	21:25 ⁽⁵⁾	21:30	C	0° 13' W
31661	HD 3651	00 ^h 34.2	20° 43'	"	"	9 long	18°F	21:46 ⁽¹⁷⁵⁾	00 41	A	0° 56' W
31662	HD 44033	06 ^h 14.4	+14° 42'	"	"	"	16°F	01:07 ⁽¹⁰⁷⁾	02 48	C	01° 35' W
31663	HD 44537	06 ^h 17.2	+49° 20'	"	"	"	14°F	03:07 ⁽⁶²⁾	04 09	A	02° 42' W
31664	HD 101501	11 ^h 35.8	+34° 46'	"	"	"	11°F	04:41 ⁽³⁸⁾	05 19	C	0° 24' E
31665	HD 89449	10 ^h 14.3	+19° 59'	"	"	"	10°F	05:37 ⁽¹⁵⁾	05 55	A	0° 33' W
31666	HD 107328	12 ^h 15.3	+03° 53'	"	"	"		06:15 ⁽³²⁾	06 51	C	00° 32' E
31666 T1	calibration strip used for plates										
31666 T2	"	"	"	"	"						

Dome Temp. $+8^{\circ}F$

Transparency Conditions *clear - gusty wind*

270

Focus

Dome Temp. ~~$+8^{\circ}F$~~ $+12^{\circ}F$

Ending Time EST.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
205	C	4 ^h 30 ^m W	+19° 06'	4"	8:	Nova	5-5-5	had to rewind dev. fast motion new	²⁰⁶ / ₄₀₀ FINE
2148	C	0 ^h 09 ^m E	+20° 41'	3"	2.7	A.5	8-8		15/40 SL. STRONG
218	A	0 ^h 29 ^m W	+50° 34'	2 ⁺ " _{rm}	2.9	Bope	8-8	windy	20/40 FINE
230	C	0 ^h 43 ^m W	+50° 34'	3"	3.9	"	"		18/40 VERY STRONG
0041	A	04 56 W	+20° 53'	3 ⁻ " ₆	7.0	K02	5-10	Bk seeing deteriorated after 1st half hour.	¹¹⁵ / ₄₀₀ FINE
0248	C	01 ^h 25 W	+14° 41'	3"	6.0?	K3 16	5-5-5	"	160/200 V. SL. WEAK
0400	A	02 42 W	+49° 19'	2 ⁺ "	6.1	K5	5-5-5	"	158/200 V. SL. W.K
0519	C	01 ^h 24 E	+34° 23'		6.3	G8	5-5-5	"	132/200 FINE
0555	A	00 ^h 33 W	+19° 40'	3"	5.3	F5	5-5-5	STD VEL	107/200 FINE
0651	C	00 ^h 32 E	+03° 28'	"	6.1	K1	5-5-5		127/200 SL. WEAK
								<u>0710</u> Shutters with T. 120 by hand or motor Gears jump. H	
9 dev/164 MICOP-2/66° F									

Date Mon/June 9/10 Observer FRANK-GR 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		
31667	ϕ Puv	1 ^h 37. ^m 4	50° 11'	G12	II-90	9	+14°F	18:02	18:06	C	2 ^h 33 ^m 5		
31668	NOVA DEL	20 ^h 37. ^m 7	+18° 55'	"	"	"	43°F	18:49	20:06	A	4 ^h 23 ^m 10		
31669	+57° 257	969.0	190 32	G40	"	18	43°F	21:25	23:05	A	2 ^h 42 ^m 10		
31670	+57° 257			"	"	"	"	"	23:32	23:36	C	3 ^h 15 ^m 10	
31671	HD 26162			4 ^h 7.2	"	"	"	18	"	00:07	00:18	B	1 ^h 10 ^m 10
31672	"			"	"	"	"	"	"	00:23	00:35	C	1 ^h 26 ^m 10
31673	HD 14542			2 ^h 20.7	+57° 15'	"	"	4	"	00:50	00:54	B	3 ^h 31 ^m 10
31674	"	"	"	"	"	"	100°F	00:55	01:02	C	3 ^h 42 ^m 10		
31675	HD 20365	3 ^h 16.3	+50° 02'	"	"	"	"	1:10	1:11	B	2 ^h 55 ^m 10		
31676	HD 29587	4 ^h 7.2	+42° 5.8'	"	"	"	100°F	01:34	02:10	B	3 ^h 55 ^m 10		
31677	"	"	"	"	"	"	"	02:11	02:40	C	2 ^h 50 ^m 10		
31678	HD 66141	07 57.1	+02 36	G12	"	9	100°F	02:55	03:44	C	0 ^h 43 ^m 10		
31679	HD 101013	11 ^h 32.5	+51° 10'	"	"	9	10°F	3:55	05:06	A	1 ^h 30 ^m 10		
31680	HD 62509	07 59.2	+28° 16'	"	"	"	"	05:26	05:28	C	2 ^h 45 ^m 10		

Dome Temp. ~~40~~F + 16 °F

Transparency Conditions *Clear*

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Focus

Dome Temp.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:06	C	2 ^h 33 ^m E	+58° 34'	4"	3.85	B0.0E	5-5-5	HK *	40/17 FINE
20:06	F	4 ^h 23 ^m W	+19° 06'	3"	~8	?	5-5-5	IRON ARC ALMOST CUT OFF: TOO LONG A SLIT	400/100 OK
23:55	H	2 ^h 46 ^m W	+58° 09'	3"	10.7	~K	2-2	GH * half hour delay near end of exposure	400/40 (QUIDDING) SL. STRONG
23:50	C	3 ^h 15 ^m W	+58° 03'	3"	7.4	B.6E	2-2	"	400/25 FOLDED
00:18	B	1 ^h 10 W	19° 34'		6.4	K1	2-2	"	400/60 SL. STRONG
00:35	C	1 ^h 26 W	"		"	"	2-2	GH *	400/75 STRONG
01:14	B	3 ^h 34 W	+57° 15'		7.2	B8	2-2	"	400/20 SL. STRONG
01:02	B	3 ^h 42 W	"		"	"	"	"	400/30 STRONG
01:11	E	2 ^h 55 W	+56° 08'	~4	5.1	B3	2-2	"	400/25 STRONG
02:00	B		+42° 00'	~2	7.7	G2	X-2	"	400/40 SL. STRONG
02:40	C	2 ^h 50 W			"	"	2-2	"	400/100 SL. STRONG
03:44	C	0 ^h 43 W	+02° 27'		5.5	K3	5-5-5	std val	200/150 FINE
05:06	A	1 ^h 30 E	+50° 48'		6.0	K1	5-5-5	BK	400/300 FINE
05:28	C	2 ^h 45 W	+28° 06'		2.18	K0.4	20		20/15 FINE
BOX # 3:10 UNEXPOSED PLATES EXPOSED TO LIG									
RA. SLOW MOTION TOO SLOW Heaters were off R:									

Date June 10, 1968 Observer G.H.P. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31681	HD 76294	8 ^h 50.1	+06 ^m 20 ^s	612	II-a0	9	10 ^o F	05:37	5:46	A
31682	HD 139195	15 31.7	+10 ^o 21	"	"	"		06:00 st	7:00	
31682 71	calibration step wedge for plates 31667 - 31668, 31672 - 31673 31667 - 31682.									

Done Temp.

Focus

Done Temp.

Hour Angle
End1^h 56^m3^h 35^m

1:6

Dome Temp.

Transparency Conditions

Focus

Dome Temp. ~~-100°F~~ 100°F

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
546	A	1 ^h 52W	+06006	5"	3.1	K0II	5-5-5	BK	49/30 FINE
7100		3 ^h 35E	+10009		5.4	K1	5-5-	BK	130 200/150 FINE
10 Dec 1968 // mwp. 2 / 66°F									

Dome Temp. 14° F

Transparency Conditions good in some areas

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Focus

2130 - clouds from W. side.

Dome Temp.

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	GAIN	COUNTS	Quality
19:45	A	W 4:05	20° 06'	~4"	?	nova	5-5-5	G-12 filter	800	303	OK
20:04	A	E 0:04			5.7	ρ ₁ α ₁ -b	4	" GH*	400	10	STRONG
20:12	C	N 0:12	+58° 04'	5"	7.4	B6936	4	" GH	100	5	(GUIDING) STRONG
21:17	A	W 1:17	58° 10'		10.2	09.519	2-2	" GH FIELD OF 74" VISITOR'S EYEPiece DRAWN	800	41	POOR GUIDING
21:32	-	W 0:32	57° 15'		7.2	B8	2-2	std. SOME DOUBT ABOUT THE IDENTITY OF THIS *	100	5	(GUIDING) STRONG
				3.1	3.95	30pc		Spat. Bin	40	17	
<u>CLOUDS</u>											
+ light snow											
		mwp 2165° E 11 12 Dec 64				G-12 PH. 'A' loaded.					

Dome Temp. 23°F

Focus 37, 36

Dome Temp.

Transparency Conditions Fair strong winds

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clouds from 20.30 on

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 26	A	0 27E		0	10.7	-	8-8-8		VERY WEAK 400/25
20 40	B	0 37W	58 10		10.1	09.5	8-8	Changed focus	400/14 FINE
								closed up 21:45 because of clouds	

Dome Temp. 14°F

Focus

Dome Temp. 7°F Transparency Conditions *scattered clouds;
high wind*

280

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:00	3:00 W		$>6''$	4.4	KO V	5-10	Seeing extremely poor. (Probably weak. Tried to stop - telescope due to platform) $400/23$	* SL. WEAK
05:14	0:11 W	$128^{\circ}46'$	$>6''$	8.36	K2 III	7-8	Seeing terrible. Should have had ca. 350 $400/24$ counts. Forgot to remove dark slides. Tried to focus telescope using Regulars, but seeing so bad that not much improvement obtained.	
							* SLIT TOO LONG; FC COMP $2/3$ MISS/1X G	
							<u>Note:</u> We found loaded plate holder in north Pier. It is included in box of exposed plates just in case there is something on it. It is placed on that side of plate container which is at tail end of snow.	
							T.V. Pictures very poor. Dec. picture goes double when various switches (e.g. dec. motor) are activated. RA picture could do or do with some improvement.	

Date Mon Dec 15/16, 1968 Observer R. C. S. / Bu - Ci Julian Day max

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
31691	BD +57° 260	1968 14 18.4	+58° 04'	B40	IIaD	18	120° F	18:07	18:10	C	
31692	257							18:27	18:32	A	E 25°
31693	249							18:47	20:12	B	0° 15W
31694	HD 6162	44 3.3 22	+19° 23'	"	"	"	100° F	20:28	20:35	C	2° 15E
31695	HD 9138	01 24.9	+05° 38'	G12	IIaD	9		20:50	22:03	A	1° 57W
31696	HD 22484	03 31.8	+00° 05'	"	"	"		22:15	22:35	C	0° 22W
31697	HD 26162	04 63.3	+19° 24'	"	"	"		22:43	00:04	A	2° 00W
31698	HD 35410	05 19.4	-00° 59'	"	IIaD	"		00:27	01:27	C	2° 27W
31699	HD 66141	07 57.1	+02° 36'	"	"	"		01:40	02:18	A	0° 20E
31700	HD 81797	09 22.7	-08° 14'	"	"	"	100° F	02:29	02:35	C	0° 26E
31701	HD 89449	10 14.3	+19° 59'	"	"	"		02:52	03:19	A	0° 35E
31702	HD 92588	10 36.3	-01° 13'	"	"	"	10° F			C	
31702	HD 107326	12 15.3	+03° 53'	"	"	"		04:09	05:02	C	0° 51E
31703	HD 109379	12 29.1	+22° 51'	"	"	"	10° F	05:20	05:29	A	0° 34E
31704	HD 136202	15 14.2	+02° 09'	"	"	"		06:00	06:38	C	0° 15E
31705	(P.V.) HD 102870	11 45.5	+02° 20'	"	"	"	11° F	06:49	07:06	I	0° 34W

Dome Temp. $+15^{\circ}F$

Focus 26

Dome Temp. $+15^{\circ}F$

Transparency Conditions ^{very} high winds lazy (relative!) 282

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
13 0		$+58^{\circ}04'$		5.7	F01a	4	Capping mechanism fell apart suniversal joint did a little work on it	200/10	FINE
18 32	E 1 ^h 25 ^m			7.4	B6c	4	wind to stop pinning	200/8	FINE
20 12	0 ^h 15 ^m W		2.3	10.2	B1D	2-2	stop pinning - not clear through	200/26	FINE
20 55	2 ^h 46 ^m E	$19^{\circ}32'$	2.4	6.4	K1	2-2	reset focus 25	200/13	SL. STRONG
22 03	1 ^h 57 ^m W	$+06^{\circ}00'$	4-5	6.2	K4	5-5-5	std. vel.	200/150	FINE
22 55	0 ^h 22 ^m W	$+00^{\circ}20'$	~5	5.2	F9	5-5-5	" "	200/100	SL. STRONG
30 00	1 ^h 20 ^m W	$+19^{\circ}35'$	~4	6.4	K1	5-15	"	200/65	V. SL. WEAK
31 00	1 ^h 27 ^m W	$-00^{\circ}54'$	~5	5.9	K0	5-5-5	Finder field down std. vel.	200/150	FINE
32 00	0 ^h 20 ^m E	$+02^{\circ}28'$	~4	5.5	K3	5-5-5	std. vel.	200/150	SL. STRONG
32 25	0 ^h 26 ^m E	$-08^{\circ}30'$	~3	2.2	K5	5-5-5	std. vel.	20/15	FINE
33 10	0 ^h 35 ^m E	$+19^{\circ}40'$	~4	5.3	F5	5-5-5	std. vel.	200/100	STRONG
				7.4	K1		std. vel. ^{abandoned: too much} drift in dec. due to wind.	400/300	
35 20	0 ^h 53 ^m E	$+03^{\circ}32'$	~4.5	6.1	K1	5-5-5	std. vel.	200/150	FINE STR.
35 32	0 ^h 34 ^m E	$-23^{\circ}12'$	~4.5	2.8	G4	5-5-5	std. vel. ^{Tremendous drift in dec.} Due to wind?	40/21	(GUIDING) SL. WEAK
36 00	0 ^h 35 ^m E	$+1^{\circ}56'$	~5	5.6	G0	5-5-5	std. vel.	200/100	FINE
37 00	0 ^h 34 ^m W	$+1^{\circ}56'$	"	4.16	F8V	5-5-5	Bright std. vel.	40/21	FINE OVER

Date Sun Mon Dec 15/16 with Observer R.Cs, PM/Bu-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.
31705 T1	calibration step									
T2	"	"	"	"						
					31690, 31695 - 31705					
					31688, 31689, 31691 - 31694					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time
E.S.T. P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Very slight precipitation ^{minutes} of ice crystals inside dome, even after dome closed.	
						Hook on slow motion control box needs to be tightened.	
						16 Dec 1968 / MCP-2 / 68° F	

Date Mon/Tues - Dec. 16/17/88 Observer HKCs/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.H
31706	ϕ Per	1 ^h 37. ^m 4	+50° 11'	G-12	IIa-O	9	17°F	17 ^h 26 ^m ②	17:34	A
31707	β Ari	1 ^h 49. ^m	+20° 19'	"	"	13 LONG	"	17 ^h 48 ^m ②	17:50	C
31708	AR Cas	23 ^h 25. ^m 4	+58° 0°	"	"	9 LONG	"	18:05 ⑤	18:11	A
31709	HD 222404	23 ^h 35. ^m 2	+77° 04'	"	"	9 LONG	18°F	18:29 ⑤	18:34	C
31710	HD 210745	22 ^h 07. ^m 4	+57° 04'	"	"	"	"	18:49 ⑥	18:55	A
31711	HD 206778	21 ^h 39. ^m 3	+09° 25'	"	"	"	"	19:06 ③	19:09	C
31712	HD 17506	2 ^h 43. ^m 4	+55° 29'	"	"	"	"	19:36 ④	19:47	A
31713	HD 22649	3 ^h 33. ^m 5	+62° 54'	"	"	"	"	20:02 (2) ①	20:03	C
31714	HD 26162	4 ^h 03. ^m 3	+19° 21'	"	"	9 LONG	"	20:32 (3) ③	20:48	C
31715	BF Aur	1 ^h 58. ^m 0	+41° 09'	"	"	13 1/2 LONG	"	21:39 ③	22:13	A
31716	HD 65934	07 ^h 56. ^m 1	+26° 55'	"	"	13	20°F	22:40 ⑩	00:30	C
31717	HD 75935	8 ^h 47. ^m 9	+27° 18'	"	"	"	"	00:45 ⑩	02:24	A
31718	HD 102494	11 ^h 42. ^m 7	+27° 53'	"	"	"	"	02:31 ⑭	05:00	C
31719	HD 89449	10 ^h 14. ^m 3	+19° 59'	"	"	9	20°F	05:13 ⑮	06:22	A
31720	HD 107328	12 ^h 15. ^m 3	+03° 53'	"	"	"	"	06:29 ⑨	06:38	C
31720	T1 calibration strip andy for flux	"	"	"	"	"	"	06:43 ⑰	07:04	A
31720	T2	"	"	"	"	"	"			

31706 - 31713, 31715 - 31717

31714, 31718 - 31720

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

2:41

2:37

0:07 W

0:21 W

2:10 W

2:51 W

3:0 E

1:20 E

0:13 E

0:54 W

0:0 E

3:5 W

4:4 W

4:7 W

0:12 W

1:4 W

Dome Temp. 21°F

Focus

Dome Temp. 20°F

16:56 EST, clouds: thin overhead. 286

Transparency Conditions

Thicker near horizon, especially in west.

17:20 EST

much worse. Black clouds. only bright stars

High velocity wind

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7:24	A	2:41 E	+50°34'	2"	3.95	B0 _{pe}	5-5-5	HK *	40/18 FINE
17:50	C	2:37 E	+20°40'	"	2.7	A5	5-5-5	Hd Eclipsing Binary	40/15 * FINE
8:11	A	0:07 W	+58°24'	"	4.89	B3V	5-5-5	" " "	40/15 * FINE
8:34	L	0:21 W	+77°30'	"	3.2	K1II	5-5-5	BK *	40/30 * FINE
8:55	A	2:10 W	+58°03'	3"	3.6	K1Ib	5-5-5	"	40/30 * FINE
19:09	C	2:51 W	+9°46'	"	2.4	K2Ib	5-5-5	"	40/31 * (GUIDING) FINE
9:47	A	1:36 E	+55°48'	"	3.8	K3Ib	5-5-5	"	40/31 * FINE
2:02	C	1:20 E	+63°15'	"	5.1	S5	5-5-5	" (SEE FINDER FIELD)	40/30 * (GUIDING) FINE
12:13	A	0:13 E	+19°34'	"	6.4	K1	5-5-5	STD VEL: BROKEN: 1 LARGE 1 SMALL	40/30 FINE BROKEN
00:20	F	04:54 W	+41°17'	"	8.5-9.2	B5V	5-5-5	Hd Ecl. Bin.	400/150 FINE
2:24	A	04:10 E	+26°45'	"	8.87	G8III	5-5-5	Sec. Std. Vel field drawn	800/400 FINE
5:05	C	14:35 W	+27°04'	~2	9.35	G8IV	5-5-5	"	800/400 FINE
06:22	C	0 ^h 04 ^m W	+27°32'	"	8.26	G8IV	5-5-5	"	800/400 FINE
06:39	C	14:47 W	+19°40'	~3	5.3	F5	5-5-5	Std Vel [* SLIT TOO LONG & IRON ARC PARTLY OBSCURED]	200/100 NO COMP. (GUIDING) * FINE
07:04	C	0 ^h 12 ^m W	+03°31'	3	6.1	K1	5-5-5	Std Vel [* * ARC GAP WAS TOO NARROW.]	200/150 NO COMP. FINE **
mwp-2 / 66° E / 17 Dec 1968								(2AOC14E)	

Date Tues/Wed Dec 17/18/68 Observer Sc, Hns/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.
31721	β Lyrae	18 ^h 46 ^m 5	-33°15'	G12	IIa-D	13	25°F	17 ^h 39 ^m EST ⁽³⁾	17 ^h 42 ^m	A
31722	β Lyrae	18 ^h 46 ^m 5	+33°15'	G12	"	13	25°F	17 ^h 45 ^m ⁽⁴⁾	17 ^h 49 ^m	C
31723	β Lyrae	18 ^h 46 ^m 5	+33°15'	G12	"	"	25°F	17 ^h 54 ^m ⁽⁵⁾	17 ^h 59 ^m	A
31724	HD 193237 P Cygni	20 ^h 14 ^m 1	+37°43'	G12	"	"	24°F	18 ^h 09 ^m ⁽⁶⁾	18 ^h 18 ^m	C
31725	P Cygni	20 ^h 14 ^m 1	+37°43'	G12	"	"	24°F	18 ^h 22 ^m ⁽⁷⁾	18 ^h 31 ^m	A
31726	ϕ Per	1 ^h 37.4	+50°11'	G12	"	9	24°	18 ^h 51 ^m ⁽⁸⁾	18 ^h 54 ^m	C
31727	ϕ Per.	1 ^h 37.4	+50°11'	G12	"	9	24°	18 ^h 59 ^m ⁽⁹⁾	19 ^h 03 ^m	A
31728	ϕ Per.	1 ^h 37.4	+50°11'	G12	"	9	24°	19 ^h 09 ^m ⁽¹⁰⁾	19 ^h 12 ^m	C
31729	Mira	2 ^h 14.3	-3°26'	"	"	13	22°	19 ^h 40 ^m ⁽¹¹⁾	20 ^h 42 ^m	C
31730	Mira	2 ^h 14.3	-3°26'	G12	"	"	21°	20 ^h 46 ^m ⁽¹²⁾	21 ^h 48 ^m	C
31731	Pleione 2 nd mag	3 ^h 43 ^m 3	+23°51 ^m	G12	"	9	20°	22 ^h 58 ^m ⁽¹³⁾	23 ^h 12 ^m	C
31732	Pleione 2 nd mag	3 ^h 43 ^m 3	+23°51 ^m	G12	"	"	20°	23 ^h 14 ^m ⁽¹⁴⁾	23 ^h 25 ^m	A
31733	Pleione	3 ^h 43 ^m 3	+23°51 ^m	G12	"	"	20°	23 ^h 30 ^m ⁽¹⁵⁾	23 ^h 45 ^m	C
31734	BF Aur.	4 ^h 58.0	41°09'	G12	"	13	20°	1 ^h 30 ^m ⁽¹⁶⁾	2 ^h 43 ^m	C
31735	HD 90961	10 ^h 24.3	29°05'	G12	"	13		04:47 ⁽¹⁷⁾	05:40	A
31736	HD 102494	17 ^h 42.7	27°53'	G12	"	11		05:48 ⁽¹⁸⁾	06:52	C
31736 r	Calibration for	31728, 31734	-C							

Done Temp.

Focus

Done Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions

Focus

Clear flight wind

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 ⁿ 21 ^m W	+28° 22'	4"	4	B9p	none	positive 1 calite	40/20
4 ⁿ 28 ^m W	+33° 22'	4"	4	B9p	none	2	40/20
4 ⁿ 38 ^m W	+33° 22'	4"	4	B9p	none	1	40/20
3 ^h 30 ^m W	+37° 58'	4"	4.9	B10g	none	1 calite	40/20
3 ^h 43 ^m W	+37° 58'	4"	4.9	B10g	none	2	40/20
1 ^h 18 ^m E	+50° 32'	4"	4.8	B0ne	none	2	40/18
1 ^h 00 ^m E	+50° 32'	4"	4.0	B0ne	none	2	40/18
1 ^h 09 ^m E	+50° 32'	4"	4.0	B0ne	7-7	Comparison = fine Spectra	40/18 FINE
0 ^h 01 ^m E	+03° 04'	4"	var	M6e	none	1	40/10
1 ^h 01 ^m W	-03° 04'	4"	var	M6e	none	2	40/10
1 ^h 54 ^m W	+24° 06'	6"	5.1	B8ne	none	clouds - 2 position	40/20
2 ^h 08 ^m W	+24° 06'	6"	5.1	B8ne	none	2	
2 ^h 34 ^m W	+24° 06'	6"	5.1	B8ne	none	1 exposed plates in box 3 - in 1/2"	
04 58 W	41 16	3"	8.5	B5V	5-5-5	Hd Ecl. BIN	400/140 FINE
04 43 W	28 46	3"	8.36	K2 III	5-5-5	Sec. STD. VEL	400/300 FINE
00 37 W	27 37	3"	8.26	G8 V	5-5-5	" " "	400/216 FINE

m w p 12 N 69° E // 14 km/6 F

31736 T2 = # 31721 - 31727 31729 - 31733

Date 12-19 Dec/68 Wed. Thoms Observer M.E. ^{Bj} ^{Hk (oper)} / Ea. 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 angle End
31737	d Pers	1:37.4	+50° 11'	G12	II a0	9	26°F	17:18 ⁹	17:22	C	3:47E
31738	d Pers	1:37.4	50° 11'	G12	II a0	9	"	17:24 ²	17:26	A	3:43E
31739	HD 200465	20:58.5	+39° 06'	G12	I a0	9xL		17:52 ⁵⁰	18:59	A	4:30
31741	HD 210745	22:07.4	+57° 42'	"	"	"		20:59 ⁷	21:06	A	4:30
31740	HD 200465	20:58.5	39° 06'	G12	II a0	9xL		19:00 ¹⁰⁶	20:46	C	4:51P
31742	HD 3651	20:34.2	20° 43'	G12	I a0	9xL		21:21 ⁴⁴	22:05	C	4:50
31743	HD 17506	2:43.4	55° 29'	G12	II a0	9xL		22:12 ¹	22:23	A	4:52
31744	HD 22649	3:33.5	62° 54'	G12	I a0	9xL		22:31 ³²	23:01	C	4:50
31745	HD 26965	4:10.7	-7° 49'	G12	I a0	9xL	27°F	23:09 ²²	23:31	A	4:50
31746	HD 44033	6:14.4	+14° 42'	G12	II a0	9xL		23:37 ⁴⁸	24:25	C	5:20
31747	HD 44537	6:17.2	+49° 20'	G12	II a0	9xL		00:35 ²¹	00:56	A	5:10
31748	HD 45829	6:24.6	+07° 59'	"	"	"		01:14 ^{3:31}	04:45	C	5:55
31748 T1	calibration strip made for # 31737 - 31748 MWP-2/68 = 11 20 Dec/68										

Dome Temp. 31°F

Transparency Conditions EXCELLENT

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	EXP. BOX #3	REMARKS	Quality
17:22	C 3:47 E	+50° 39'	2"	3.95	Bopo	5-5-5	HKX		(GUIDING) FINE
17:26	A 3:43 E	"	"	3.95	Bopo	5-5-5	S. Bin	SMALL END PIECE BROKE OFF	(GUIDING!) BROKEN! FINE
18:59	W 3:30	+39° 26'	2 1/2"	6.4	K21	5-5-5	BK		V. SL. WEAK
21:06	A 4:30 W	+58° 09'	3"	3.6	K1 1/2	5-5-5	BK	(PLATES 39-42 ADD 1) i.e. 39-42 → 40-43	FINE
20:46	C 5:18	39° 26'	5"	6.4	K22	5-5-5	BK		V. SL. WEAK
22:55	C 3:00	21° 07'	2-3"	5.8	K0U	5-5-5	BK		FINE
22:23	A 1:06	55° 49'	2-3"	3.8	K356	5-5-5	BK		FINE
23:01	C 0:50	63° 16'	2-3"	5.1	55	5-5-5	BK		FINE
23:31	A 0:50	-7° 30'	8"	4.4	K0U	5-5-5	BK		FINE
24:25	C E 0:20	+14° 42'	4"	5.0	K356	5-5-5	BK		V. SL. WEAK (GUIDING)
00:50	A E 0:10	+49° 19'		5.1	K51ab	5-5-5	BK		SL. WEAK
04:16	C N 3:55	+07° 58'		6.8	K019b	5-5-5	BK	CLOUDS: STOPPED AT 4:45	WEAK
							CLOSED UP 450		
							CLOUDS 3 ²⁰ 4 ³⁰		

P.H. "A" LOADED
9 IN NORTH PIER

EN BIN
COMING

Date Jan 29/30 1968Observer Ri. Has. Lp/Hh-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.
31750	ϕ Per	1 ^h 37 ^m 4	+50° 11'	G12	2A0	9	17	18:46	18:22	A
31751	HD 22484	3 ^h 31 ^m 8	0° 05'	"	"	"		20:00	20:13	A
31752	BD +57° 258	11 ^h 13 ^m 6	57° 47'	G40	2A0	18	17°	20:38	21:45	A
31753	BD +57° 249	1 ^h 12 ^m 3	57° 51'	G40	2A0	18	7	21:53	22:36	B
31754	BD +57° 247	1 ^h 12 ^m 1	57° 50'	"	"	"	16°	22:43	23:24	C
31755	HD 14542	2 ^h 15 ^m 9	56° 54'	"	"	"	16	23:47	23:52	A
31756	HD 45829	06 24.6	+07 59'	G12	2A0	00B		00 21	02 39	C
31756 71	calibration	step wedge for plates			31749 - 31756					

Dome Temp. 2.0

Focus 27.5

Dome Temp.

Transparency Conditions clouds

clearing after 20:00

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	0 ^h 56 ^m E	50° 32'	4"	3.95	Sage	5-5-5	HK* clouds 40/18	(SL. FOG) FINE
23	1 ^h 05 ^m E	00° 20'	4"	5.2	F'S	5-5-5	Std Vel 200/100	FINE
23-5	2 ^h 45 ^m W	+58° 10'	4"	10.7	-	G12 G40 2-8-8	GH* 800/80	
23-6	3 ^h 43 ^m W	+58° 13'	4"	10.2	BIV	G40 8-8-8	GH* clouds 800/40	
23-26	4 ^h 34 ^m W	+58° 13'	4"	10.1	09.5 W	8-8-8 G40	GH* 800/40	
23-52	3 ^h 51 ^m W	+57° 15'	4"	7.2	B8	8-8-8 G40	GH Std Vel 200/10	
23-5	02 29 W	+07 58	4-5	6.8	KOlab	5-5-5 G12	BK PROG 0225 CLOUDS 400/300	SL. WEAK
30 Dec / 6.4 / m.w.p. - 2 / 6.4 ° F								

Date WED 1/2 1969 Observer G2/Wg - Mrs Julian Day
THUR

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
31757	♂ PER	1 37.4	+50 11	G12	2A0	009	10°F	19 18 ⁵	19 23	A	00 10h
31758	♂ ARI ^{1163c}	1 49.0	+20 12	"	"	03L	"	19 53 ³	19 56	A	00 32h
31759	HD 14869	02 19.7	+29 26	"	"	013	8°F	21 02 ¹¹³	22 55	A	03 00h
31760	HD 32963	05 01.8	+26 12	"	"	"	"	23 14 ⁷⁶	0: 30	A	01: 58
31761	BF AUR	4:58.0	41° 09'	"	"	13 ² / ₃	"	0:46 ⁴	4:57	C	05:24
31762	HD 90861	10:24.3	+29° 05'	"	"	13 ² / ₃ L	2° F	4:15 ¹⁶	4:31	A	00:34
31762-11	calibration step wedge for plate				31757-62						

Dome Temp. +10.0°F

Focus

Dome Temp. 0

Transparency Conditions

Good (WINDY)
scattered clouds after 14.

296

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:23	00 10W	+50 34	4-5"	3.95	B0pe	5-5-5	HK *	40/18 SL. STRONG (GUIDING)
9:56	00 32W	+20 40	"	2.7	A5	5-5-5	Ecl. Bin	40/15 FINE
10:55	03 00W	+29 47	"	8.96	K3II	5-5-5	S.S.U.	400/200 SL. WEAK
11:30	W1:53	+26° 20'	"	8.36	G2II	5-5-5	S.S.U. * THIS STAR IS VERY CLOSE TO THE MOON (4 PIECES) (SKY VISIBLE ON SLIT)	400/135 SL. WEAK BRDKN
11:57	W5:24	+1° 17'	"	8-9	B5V	5-5	Ecl. Bin FIELD OK (*)	800/273 SL. WK.
12:11	W0:34	28° 45'	"	8.36	K2III	5-5	S.S.U. CLOUDS	800/40 VERY WK.

m.w.p. - 21 60°F // 3 Jan 1969

* THIS PLATE WILL BE FOGGED AT 1 END -
SOMETHING SHOULD BE DONE TO REPAIR
THE DARK SIDES (BOTH OF THEM)

Dome Temp. 15.0 F.....

Transparency Conditions clear → cloudy → clear → cloudy ³⁰⁰

Focus

Dome Temp. +10.0 F.....

Ending Time
EST.

PA

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 45 ^m E	+50° 34'	3"	3.95	B0pe	15	Sp. Bin.	2 1/2 minutes N. COMP. U. WEAK
1 ^h 52 ^m E			5.36		15		40/16 FINE
?			VAR 8.5-9.2	B5V		TOO CLOUDY!	
0 ^h 50 ^m E	29° 4'		5.1	B0pe	15	through thick clouds	40/12 SL. WEAK BROKEN
2 ^h 55 ^m W	+11° 52'	3"	8.0	Ma	5+5+5	terminated by clouds #67 broken after exposure.	400/114 VERY WK.

Date Jan 5-6 Observer AG-LP 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.
31768	ϕ Per	1 ^h 37. ^m 4	+50° 11'	G12	IIa50	9 long	14	2200	22:35 ³⁵	C
31768 T1	calibration	step	wedge	for	plates	31763-31768				
31768 F1	G40 focus	test		^{10 Jan} G40	IIa50	9	16° F			A
F2				"	"		"			A
F3				"	"		"			A
<p>^{10 Jan} Thurs Jan 9-10 Mended & cleaned snow (roughly) from telescope. Then cloudy. Partly clear at times. Ad.</p>										
<p>3/10 Cloud 2nd half. 3:30 AM. HV</p>										

Dome Temp. ... 15

Transparency Conditions hazy, Thick Overcast

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 40 ^m W	+50° 34'	2"	3.25	BOpe	15	through mucho clouds.	40/17 SL. STRONG
6 Jan / 69 // mwp-2 / 61° F							
					2/2	no ^{610/1612} filters + 6cm 12 focus 200	C TO R
						27.4 *	U.S.C. C TO UI
						Dome = 19° F	24 UT.
							33.0
							C TO UI
						* from graph	

Date Jan 10/11 Fri-1st Observer Bu - Ir / 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.H.
31769	ϕ Per	1 ^h 37 ^m .4	+50° 11'	G-12	DaO	9	13°F	22:05	22:13	PT
31770	HD 44537	06 ^h 17 ^m .2	+49° 20'	G-12	DaO	long 9.		22:35	0 hours approx.	C
Sun. Mon. Jan 12-13 A few clear breaks AFTER 0300										
15 Jan HV										
31770 T1	calibration step wedge			G-12						
31770 F1	focus test			G-12	DaO	9	16°F			C

Dome Temp.

Focus

Dome Temp.

Hour Angle
End3^h 36^m W
many
0.4 W

NW 1/2

Dome Temp. 100°F

Focus

Dome Temp.

Transparency Conditions reasonably clear at ca. 19:45
clouded over at 20:10. closed up until
22:00 hrs. 304

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 36 ^m W	+52° 35'	3''-4''	3.95	B0pe	5-5-5	Hk *	40/18 FINE - SL. STRONG
0:45 W	+49° 19'	3''-4''	5.1	K5.1ub	5-5-0	Bk # Clouds & snow. ↑ no comparison (2 hours after end of exp. - rilled plate out) J.C.S.	200/170 SL. WEAK
mwp/2 - 61°F - 11/13 Jan 69						10/10 no filter	FINE (V. SL. C TO W. IN REF)

Ending Time
E.S.T.

13 ft

0 hours approx

320

4

c

Date JAN. 13/14, 1969-Mon./Tues. Observer HK / 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.
31771	ϕ Per	1 ^h 37. ^m 4	+50° 11'	G-12	IIa-O	9	+24°F	18:37 ⁽⁴⁾	18:41	A
31772	"	"	"	"	"	"	"	19:09 ⁽⁵⁾	19:15	C
31773	BD +57° 265	1 ^h 15. ^m 7	+57° 50'	G40	"	18 lens	"	19:46 ⁽⁵⁹⁾	2:45	B
31773 T1	calibration tip wedge for slats 31771-3									

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

Transparency Conditions *occasional low clouds*

306

Focus

21:00 - clouded in

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

Ending Time
EST.

PH

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:15 W	$+50^{\circ}34'$	2-3"	3.95	80p	55-5	HK * NO FILTER	40/18 STR. COMP. FINE
0:49 W	"	3-4"	"	"	55-5	"	40/18 FINE
2:42 W	$+58^{\circ}13'$	3"	10.2		8-16	GH *	800/12 WEAK
mwp-2/68°E // 14 Jan 1969						DEC CLAMP BECAME INOPERATIVE. MR FIXED IT AND SUGGESTED THAT IT BE CLEANED OFF.	
						G-12 P.H. A LOADED IN NORTH PIER	

Date JAN 15/16

Observer MSE

Go LP (Bj) / Ea 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.I.
31774	HD 22649	^h 3 ^m 35.5	+62° 54'	G12	IIaD	9XL		17:53	19:03	C
608-1 to 19	M67, Hyades							1945	02:30	
3177411	step under for 31774 17 Jan 1969 10WR-2/1A ⁹ F									

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

F117

Dome Temp. 18² F

Transparency Conditions

Focus

Dome Temp. 15⁰ F

Ending Time EST.

19:03
22:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
F1117	65° 16'	3-4"	5.1	S5	5-5-5	ok. NO EXP. MTR. (H.V. ON)	STRONG
						2 ³⁰ CLOUDS	
						3 ¹⁵ STILL CLOUDY CLOSED UP	

Date Jan 19/20, 1969 (SUN-MON) Observer T. - L. P. / H. 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.	Hour Angle End
31775	ϕ Per	$1^h 37^m.4$	$+50^\circ 11'$	G-12	II aO	9 long	33°	18:50. ^(3/2)	18:53.5	A	52° W
31776	HD 21499	$3^h 25^m.05$	$+47^\circ 41'$	G-12	II aO	9 long	31°	20:00. ⁽¹⁾	20:10	A	20° W
31777	Pleiades	$3^h 43^m.3$	$23^\circ 51'$	G-12	II aO	9 extra long	31°	20:33. ⁽¹²⁾	20:45	C	45° W
31778	27 Tauri	$3^h 43^m$	$23^\circ 46'$	G-12	II aO	9 extra long	31°	21:06. ⁽³⁾	21:09	C	1° 02' W
31779	27 Tauri	$3^h 43^m$	$23^\circ 46'$	G-12	II aO	9 extra long	31°	21:14. ⁽²⁴⁾	21:16.5	A	1° 06' W
31780	Pleiades	$3^h 43^m.3$	$23^\circ 51'$	G-12	II aO	9 long	31°	21:33.5. ^(3 1/2)	21:37	A	1° 30' W
31781	27 Tauri	$3^h 43^m$	$23^\circ 46'$	G-12	II aO	9 long	31°	21:44. ⁽¹⁾	21:46	C	1° 38' W
31782	HD 36919	$5^h 29.9$	$-6^\circ 04'$	G-12	II aO	9 long	30°	22:23. ⁽¹²⁾	01:05	A	03' 20" W
31783	HD 92588	$10^h 36.3$	$-01^\circ 13'$	"	"	"	"	01:23. ⁽⁸⁶⁾	02:49	C	00 10' E
31784	HD 103095	$11^h 47.2$	$+38^\circ 26'$	"	"	"	26°	03:09. ⁽⁷³⁾	04:22	A	05 11' W
31785	HD 107328	$12^h 15.3$	$+03^\circ 53'$	"	"	"	26°	04:31. ⁽³⁴⁾	05:05	C	00 27' W
31786	HD 123782	$14^h 04.6$	$+49^\circ 56'$	"	"	"	25°	05:18. ⁽³¹⁾	05:39		00 47' E
31786	TI	calibration step wedge for plates			31775 - 31786						

Dome Temp. 35°F

0013 H.V. for EX. MTR. 1P21 FOUND SWITCHED OFF ON TELESCOPE. HV 312
 Transparency Conditions

Focus

Dome Temp.

(had to estimate time of exposure)

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	HK #	REMARKS	Quality
1:33.5	A	52 ^m W	58° 36'	2.1"	3.95	B0pe	5-5-5		Power supply for exp. meter switched from Spectrophotometer to exp. meter exposure meter balances but does not count even for PERSEI!!	(GUIDING) SL. WEAK
2:10	A	20 ^m W	47° 54'	2.3"	5.46	B8	5-5-5	RG*	10 min exp	FINE
2:45	C	40 ^m W	24° 04'	2"	4.6	B8	5-5-5	RG*	12 min exp	(GUIDING) FINE
2:09	C	1 ^h 02 ^m W	24° 00'	1.5"	3.5	B8	5-5-5	RG*	3 " "	(GUIDING) V. SL. WEAK
2:10.5	A	1 ^h 10 ^m W	24° 00'	1.5"	3.5	B8	5-5-5	RG*	2.5 " " repeated slit length	WEAK
2:13.7	A	1 ^h 30 ^m W	24° 04'	1.5"	4.6	B5	3-5-5	RG*	3.5 min exp	WEAK
2:14	C	1 ^h 38 ^m W	24° 00'	1.5"	8.5	B8	15	RG*	2 min exp	(GUIDING) SL. WEAK
3:05	A	03 ^h 12 ^m W	-5° 57.5'	1.5-3"	8.25	B8	7-4-4	RG*	162 180 " "	SL. WEAK
0249	C	00 10E	-1° 34'	3"-4"	7.4	K1	5-5-5	STD. VEL	200/152	FINE
0249	A	00 11 W	+37° 56'	3"	7.3	K1	5-5-5	" "	200/153	FINE
0505	C	00 27 W	+03° 28'	3"-4"	6.1	K1	5-5-5	" "	40/30	FINE
0539	C	00 47E	+49° 36'	"	6.8	M2	5-10	" "	0530 CLOUDS 200/23	VERY WEAK

PROGRAMS NEEDED FOR 2nd HALF.

map-2/68°E/1 20 Jan 1969

(2AOC148)

Date Jan 20/21 Observer / R. 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.
31787	HD 66141	07 ^h 57 ^m	+2° 36'	G-12	IIaD	9.4	28°	00 ^h 19 ^m ³⁸	00 ^h 57 ^m	A
31788	HD 81797	09 ^h 22.7	-8° 14'	G12	"	"	28°	01 ^h 07 ^m ⁴	01 ^h 11 ^m	C
31789	HD 89449	10 14.3	+19 59	"	"	"		1 ^h 22 ^m ²	01 ^h 44 ^m	A
31790	HD 91948	10 31.9	+60° 38'	"	"	"		1 ^h 57 ^m ⁸⁴	03 ^h 21 ^m	C
# 31790 71	calibration step wedge for plates 31787 - 31789									
# 31790 72	calibration step wedge for # 31790									
JAN. 23 - 24 3 30 AM. CLOUDY, FOGGY HR.										

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

0° 45' W

0° 30 E

0° 51 E

0° 30 W

21 Jan

21 Jan

Dome Temp. 30°

Transparency Conditions ... some clouds, fog, haze

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Focus

Dome Temp.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ^h 57 ^m	A	0 ^h 40 ^m W	+12 25'	~4	5.5	K3	5-5-5	G12 - Solid Vel	200/150 FINE
01 ^h 1 ^m	C	0 ^h 30 E	- 8° 29'	~4	2.2	K5	5-5-5	" "	20/15 FINE
01 ^h 44 ^m	A	0 ^h 51 E	+19° 40'		5.3	F5	5-5-5	" "	200/100 FINE
03 ^h 21 ^m	C	0 ^h 30 W	+60° 19'	~3	7.37	F8	5-5-5	Spectroscopic Binary clouds at 03:15 closed up at 3:30	400/194 V-SL-WEAK
		21 Jan 1969 / mwp-2 / 68° E						(2400 INH)	
		22 Jan 1969 / mwp-2 / 68° E						(2400 INH)	

26-27

Date Jan ~~25~~ 26 Sun/Mon Observer B. W. H. C. S. / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
31791	ϕ Per	01 ^h 37. ^m 4	+50° 11'	G12	Ia-0	9 reg.	15° F	18:16	18:22	A	0 ^h 40 ^m W
31792	27 Tau.	3 ^h 43. ^m 2	+23° 55'	G12	Ia-0	9	15°	18:39	18:46	C	0 ^h 54 ^m E
31793	28 Tau.	3 ^h 43. ^m 2	+23° 50'	"	"	"	"	18:56	19:15	A	0 ^h 27 ^m E
31794	HD 21699	3 ^h 25. ^m 7	+47° 41'	"	"	"	"	19:35	19:53	C	30 ^m H
31795	Con B	05^h 30.^m 5	-5° 59'	"	"	"				A	
3179451	calibration	step wedge	for plate	31791 - 31794	1/mwp-2/68° F / 27 Jan / 69. (210 C (H))						

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 16°F

Focus

Dome Temp.

Transparency Conditions *Broken* Clear sky - Cloud + Haze 19:05 316

Ending Time EST.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:22	A	0 ^h 46 ^m W	50° 34'	~2.5	3.95	B0 _p	5-5-5	HR*	40/18 FINE
18:46	C	0 ^h 54 ^m E	23° 59'	4"	3.62	B8 _{II}	5-5-5	r G* Comp	40/15 FINE
19:5	A	0 ^h 27 ^m E	26° 03'	4"	5.01	B4 _p	5-5-5	r G* clouds reflect moonlight nearby.	200/80 FINE
19:53	C	30 ^m W	47° 57'		5.36	B8 _{VI}	5-5-5	r G*	200/80 * FINE
	A				~7.3	B9		r G*	400/150
			Clouds						
							Close	23:15	
23:00/09									
(10)								* SLIGHT FOG AT BLUE END OF PLATE	

Date Jan 27/28, 1969 Mon./Tues. Observer H.K. Ircke/ 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
31795	ϕ Pers	$01^h 37^m 4$	$+50^\circ 11'$	G12	Ilco	9	10°F	18:03	18:06	C	5:31 W
31796	HD 16452	$2^h 33^m 3$	$+81^\circ 01'$	"	"	"	10°F	18:47	20:05	A	1:32 W
31797	BD +57°263	$1^h 14^m 0$	$+57^\circ 46'$	G40	"	18	"	20:44	21:10	B	4:10 W
31797 T1	calibration step wedge for plates 31795-7						28 Jan 69/mwp-z				
									(2905148)		

Dome Temp. 10 °F

Transparency Conditions EXCELLENT

1

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Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:06	C	0 ⁿ 37 ^m W	50° 34'	3-4"	3.95	80 _n	5.5-5	HK # 40/17	FINE
20:05	A	1 ⁿ 32 ^m W	81° 21'	2-3-4"	5.9	G8	5.5-5	BK * STOPPED BY TELESCOPE COMING CLOSE TO DIA. 400/176	* WEAK
21:10	B	4:10. W	58° 13'	4"	10.2		12-24	GH * exposure stopped by clouds 800/2511	VERY WEAK
<p>Clouds two G-12 plate holders <u>loaded</u> in dark room</p>									
<p>* FC COMP. PARTLY OBSCURED (TOO LONG A SLIT)</p>									

Dome Temp. 31°F

Focus

Dome Temp.

Transparency Conditions *poor - much high cloudiness.*
→ complete clouds.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:30	A	1 ^h 31 ^m W	+50° 34'	2"	3.95	B8pe	15 ^s	(take 3 to make sure, since this is important night for Hk)	40/17 * FINE
19:08	"	2 ^h 01 ^m W	"	3"	"	"	"	variable seeing - wind coming up.	40/18 * FINE
19:33	"	2^h 25^m W	"	3"	"	"	"	plate broke	DISCARDED 40/16 * FINE
20:05	C	2 ^h 22 ^m W	+47° 54'	3-4	5.36	B8p	Sat beg.	clouds getting worse ~ 2 mag. ave.	200/80 ** FINE
20:30	A	3 ^h 20 ^m W	+24° 04'	3-	~5	B8pe	5+5	clouds quite bad - terminated by Beware G2V	400/101 * WEAK

3 Feb 1969 // mwp - 2/6 + 0 P // (2.40 C I H F)

* Fe COMPARISON ALMOST VISIBLE
 [POSSIBLY 640 FILTER STILL IN PLACE?]

** Fe NOT VISIBLE

Date 3/4 Feb. 1969 Mon./Tues. Observer H.K. Co. / R. H. S. Julian Day 19690204
N.A. Jim Thomson

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31803	ϕ Per	1 ^h 37.4 ^m	+50° 11'	G12	IIaO	9	26°F	18 ^h 40	18 ^h 47	C
31804	"	"	"	"	"	"	"	18 ^h 58	19 ^h 04	A
31805	λ Ori	5 ^h 49.8	+07° 23'	G12	IIaO	9 long	26°F	23 ^h 55	00 ^h 13 ^m	A
31806	S unc	8^h 38.2	+0° 21'	G12	IIaO					
31806	HD 76294	08 ^h 50 ^m	+06° 20'	G12	IIaO	9	17°	00 ^h 54 ^m	01 ^h 17 ^m	C
31807	HD 101501	08^h 35.9	+34° 26'							
318071	calibration strip									for 31803 - 31806

Dome Temp. 2

Focus

Dome Temp. 2

Hour Angle
End1^h 30^m W2^h 00^m W3^h 00^m W4^h 03^m W

Dome Temp. 24°F

Transparency Conditions Clear Very high wind!

Focus

Dome Temp. 23°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
18:47 C 19:04 A	1h 30m W 2h 00m W	+50° 34'	~4	3.95	B0pe	5/5/5	HK * 40/17	FINE
	"	"	"	"	"	5/5/5	HK * BROKEN: 1 LARGE 1 SMALL 40/18.6	(G412 III G) FINE
							Change to G-40	
							Clouded in completely 20:25 EST. Snow flurries (or blowing).	
							A G-40 plate-holder (A) is loaded and in N-pier.	
							left at G-40: G40 filter G418 " slit at 18	
							23:02 : Dome T = 22°F	
							Change back to G12	FINE
01:15	3h 00 W	+7° 31'	~3	0.4	M2I	5/5/5	Fuse blew in middle. (BK *) 20/15	BROKEN in Box
							40/50	
01:17	1h 03 W	+06° 07'	6	3.1	K0III	5/5/5	(BK *) clouds & lazy 40/30	FINE
							P.H. A+C. loaded in N.P.	
							closed up at 02:30	

Ending Time
E.S.T.

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