

THIS PAGE INTENTIONALLY LEFT BLANK

1.

G10 Focus test: Using the convention in-in/out-out
When C is to violet we must turn focus knob
clockwise, i.e. towards bigger numbers.
Always take up slack in the ~~clockwise~~^{counterclockwise} direction.
(use edge of blackened portion rather than bare brass surface as
indicator for sake of consistency) i.e. make final setting
turning to smaller numbers!

On G40: Using the convention in-in/out-out
When C is to violet we must turn focus knob
to smaller numbers

Always take up slack by going to a much
smaller number first and then increase
number to desired one.

3.

Come Temp.

focus

Dome Temp.

Hour Angle
End

Dex

Home Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						David Dunlap Observatory	
						74" Logbook	
						Volume 34	
						Plate Nos. 27850-28444	
						October 1964-June 1965	

5.

Date Oct 14-15, 1964 (Wed-Thu) Observer FL, R, W, H ^{mse} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End		
27850	8 Agl HD 18516	19 ^h 41.5 ^m	+10° 22'	G10	IIaOb	9 _{short}	59°	19:30 ⁴⁵	21:00	-	2 ^h 28 ^m W		
27851 ⁰	4 Per HD 223368	1 37.4	+50 11	G10	IIaOb	9 _{short}	55°	21:20 ²⁵	22:10	A	2 ^h 19 ^m E		
27852 ¹	6 Psc HD 18884	23 34.8	+ 5 05	G10	IIaOb	9 _{short}	54°	22:23 ¹⁰⁰	01:43	B	03:19 W		
27853 ²	2 Cet.	2 ^h 57.1	+03 42	"	"	"	52	02:00 ⁶⁰	04:00	A	02:3 W		
27854 ³	HD 36673	05 28.3	-17 54	"	"	"	51°	04:17 ¹⁵	04:47	F	00:30		
27855 ⁴	HD 62509	07 39.2	+28 16	"	"	"	52°	05:03 ⁶	05:15	A	01:14 E		
27855 ⁴ F	Focus Test	IN-IN/OUT-OUT								B			
HD 7	C is to violet we must move PH away from mirror. i.e. to correct the tilt error										tilt error		
Oct 15	I backed off N screw 1/6 turn, advanced S 2 1/6 to make it just snug										snug		
27854 F2	Focus test	In-in/out-out.							67°	C			
	Over - did it. So I advanced N screw 1 1/2 turns, backed off S 1 1/6												
27854 F3	Focus test	In-in/out-out								C	Mirror C snug		
	So I backed off S screw by 1/6 turn and advanced N screw 1/6 turn and moved PH toward mirror												
F1 Half - Trolley	skipped off wire for shutter power - replaced. (Many sparks). reset focus from 2.50 to 2.45										*		
27854 F4	Focus test	In-in/out-out							a little better but still a bit wired	C	1:00 PM		
27854 T	Slit width test	Thru East prism 9, thru center 11, thru west prism 15/16 each.										C	5:10 PM

Dome Temp.

0030 QUITE WINDY TEL. UNSTEADY

Quality

1

1. *Line*

7

Little can

Adams

st centre to violet in red
st centre to violet in red

5-5 * Plates Jamming in P.H. "A" Red: C wheel
Vi: C Z vi.

PH A seems to be leaking.

Shows C through to red in the red
very slightly to red in center area.

5-5 PH. A. being retired for time-being

Troubles opening shutters - fuses blown

Note Plate broke as slide being inserted at exposure and - half of plate popped up and was left sitting on slide - could have fallen into spectrograph but luckily didn't. Remainder of Plate fell in (C) plateholder - Fl. (Not numbered)

Date Thurs Oct 15-16/64 Observer L- W^{mac} Mt Julian 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
27855	HD 186 791 γ Aql	19 ^h 41.5 ^m	+10° 22'	G10	II a O-B	9 SHORT	67°F	18 ^h 45 ^m ¹⁴	20 57	C	133W
27856	HD 209008	21 ^h 55.1 ^m	+6° 14'	G10	II a O-B	9 SHORT	63°F	20 ^h 10 ^m ¹²⁰	00 10	B	335W+
27857	HD 10516 φ Per	1 ^h 37.4 ^m	+50 11	"	"	"	59°F	00 30 ¹⁸	01 05	C	050W+
27858	HD 10516									B	
At 1:20, one of the 3 wires around the dome broke. Dome was in a position to do so. Closed shutters by hand. Whew!!!											
Oct 16/64	Backed off S 1/8 turn, advanced N 1/8, reset focus 2.40										
27857F ₁	Focus test in-in/out-out						71°F			C	
27858	C is too red at both ends about equally and seems										
	reset focus 2.20										
27857F ₂	Focus test in in/out out						71°F			C	
	centre still too red Focus should be										

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

broke

seems

Trued
out

Dome Temp. *66°F*

Transparency Conditions

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 57	C	1 33 W	10 33	0	4.15	K3 II	2-2 2	Bright Star Vel.	fine
00 10	B	3 35 W	+6° 35'	0	5.99	B3 III	2-2-2	INTERSTELLAR LINE PGM.	weak
01 05	C	0 50 W	+50° 30'	1	3.95	Bop	2-2 2	Special Stars for G10	fine

dome broke. Phoned Jerry. He suggested I close up.

One P.H. loaded (B).

Two unexposed plates in box (spotting room)

80/10

seems less to red in center! Error in curvature?

10/10

tried at 2.00 or less
I set it at 1.90

Date Fr/Sat Oct 16/17 '64.

Observer

v d B

But

Hb

Julian Day

[illegible]

Dome Temp.

How Angle
End

10

Dome Temp. 62°F

Focus

Dome Temp. 59°F

Transparency Conditions *Bright moon
Hazy*

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:43	C	01 30 W	+48 03	0-1	4.7	B4 ₂ β	2-1-2	Special Star for C10 - Be program	fine
2:54	C	01 23 W	+03 58	0	4.17	M2 II	2-1-2	Bright Std. Vel. Stars	quicking
	C						5/5		fine
									a bit to the N
									nearly O.K.
3:18	C	00 14 W	+16 27	0	1.38	K5 III	3-3	Bright Std. Vel.	fine
3:48	C	00 17 E	+21 09	0	3.0	B3e	3-3	Special Star for C10 - Be	last long
4:08	C	00 02 W	"	0-1	3.0	B3e	3-3	"	last long
4:35	C	00 30 W	"	0	3.0	B3e	3-3	" (probably numbered 2870)	last long
4:55	C	01 12 W	-17 49	00	2.80	F0 Ib	3-3	Bright Std. Vel.	dark
				2 unloaded p.H. in N. pier					
				6 unexposed plates in N. pier					
				8 exposed plates in darkroom					
C		slightly to right in red		10-10	C very slightly to N in red & to red in N				
		slightly to right in red		2 unloaded P.H. in N. pier					
		slightly to right in red		6 unexposed plates in N pier; didn't touch exposed plates					

13.

Date Mon Oct 19-20/64

Observer

(Kd)
ma
MR
Rv

- HJ

Julian 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.
19 OCT/64 // W										
27871 F2	focus test - in - in / out out				IIaO-B		54°F			C
(27872,	E Peg A	21 39.3	+9 25	G10	IIaO-B	9	47	19 07	19 57	C
27872	HD 206778	22 ^h 52.7 ^m	+48° 09'	G10	IIaO-B	9	44°	20 ^h 24 ^m	21 ^h 12 ^m	B
	HD 217050							21 ^h 58 ^m	24 ^h 00 ^m	B
	"									B
27873	φ Per	01 37.4	+50 11	"	"	"	40°	00 25	01 41	B
27874	HD 34787	05 14.9	+57 27	"	"	"	36°	02 02	05 48	B
Oct 20/64 Hd & Mac							46			B
27874 F,	Focus Test						46			B
	c to vi in the violet 21μ, at centre 14μ, in the red 8μ									
	Perhaps PH B has built-in Tilt error, ∴ Tilt seemed OK on PHC									
	Anyway to get rid of average c to vi shift of 14μ try adjusting									

Dome Temp.

Focus

Dome Temp.

Hour Angle
EndE 9^m +W 2^h 42^m +

O 136W 5

O 206W 5

from the
at change

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

Old exposure meter installed Today
N.B. - 700 V. on 1821.

N.B. - 700 V. on 1P21

[illegible]

Date THURS. OCT 22-23/64 Observer Julian Day

Dome Temp.
Focus
Dome Temp.
Hour Angle
End

Dome Temp.

Transparency Conditions

16: 0

[illegible]

Date Oct. 23-24, 1964

Observer...El

— #

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Clouds at beginning of 1st HALF. 18 0

17:40 Cleared to Good. (some huge shower
big Moon)
18:00 Clouds appearing.
21:30 Clouds gone.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2045	C	00 25 ^m	+9° 44'	0	3.86	K2Ib	3-6	Std. Veh. Guiding Difficult due to clouds. (Bo) 3003	weak
0011	C	00 22 W	50 32	0-1	3.95	POp	3-3-3	cut off due to clouds. (Bo) 3024 (15g) 3036 (15g) 3177	fine
								20 UNEX. Plates in N. Pier.	

1a.

Date 24/25 Oct, 1964

Observer *mcl* - H6 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	How Angle
27877	^{HD 10516} ♀ Per	1 ^h 37.4 ^m	+50° 11'	G10	IIaOb	9L		22 43 ⁴⁷	00 16	
27878	^{HD 5894} ♂ Cass	00 ^h 50.7 ^m	+60° 11'	G10	IIaOb	9L	44°F	00 34	00 44	
27878 F	Focus Test — lantern plates —						44°F	in-in/out-out		
27879	^{HD 20902} ♂ Per	03 ^h 17.2 ^m	+49° 30'	G10	IIaOb	9L	43°F	01:15	01:25	B
27880	^{HD 29139} ♂ Tau A	04 ^h 30.2 ^m	+16° 19'	G10	IIaOb	9L	43°F	01:45	01:53	
27881	^{HD 36673} ♂ Lep	05 ^h 28.3 ^m	-17° 54'	G10	IIaOb	9L	44°F	02:14	02:58	
27882	^{HD 62508} ♂ Gem	07 ^h 39.2 ^m	+28° 16'	G10	IIaOb	9L	44°F	03 37	03:42	
27883	^{HD 81797} ♂ Hy2	09 ^h 22.7 ^m	-08° 14'	G10	IIaOb	9S	44°F	04 07 ³⁴	05:14	B

Temp. 43°

Transparency Conditions *Very Hazy*

0150 — red light not working properly.

Temp. 43°F

Ending Time
E.S.T.

0010

0040

01-00

01-25

01-53

02-51

03-02

05-00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W	+50° 32'	0-1	3.95	Bop	3-3-3	Special star	Sens 5 { 3182 3242 } fine
W	+60° 33'	0-1	2.01	Bop	3-3-3	Be 1200	Sens 4 { 3243 3258 } gen. along spiral to red exp in vi.
W	+49° 42'	0-1	2.28	F5 III	3-3-3	Bright Std. Vel. Stars	Sens 4 { 3260 3280 } poor guiding
E	+10° 26'	1	1.38	K5 III	3-3-3	" " " "	Sens 4 { 3282 3307 } guiding
E	-17° 52'	0	2.80	F0 III	3-3-3	" " " "	Sens 4 { 3308 3328 } fine
E	+28° 05'	0-1	2.18	K0 III	3-3-3	" " " "	Sens 4 { 3328 3354 } poor guiding
E	-08° 29'	0	3.42	K4 III	3-3-3	" " " "	Sens 5 { 3355 3395 } fine

MAY BE EXPOSED — HAD TO REMOVE BEFORE INSERTING PLATE COVER

moved plate in darkroom

11 unexposed plates in north pier

PH B and C loaded in north pier

in plate in north pier for faint test

IS THERE A SHORT-CIRCUIT IN THE
SLOW MOTION CONTROLS? — SPARKS JUMPING
BETWEEN BOX AND TELESCOPE WHEN
BUTTONS ARE PRESSED — NOT NOTICED
UNTIL MIDWAY THROUGH FINAL EXPOSURE

Date OCT 25/26 1964 Su/Mo

Observer

Rc
Msc
SudB

H6

Julian 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.
27883	F, focus test	in in/out out		G10	lantern slide		69°F			C
27884	HD 159 561 α Oph	17 ^h 30.3 ^m	+12° 38'	G10	IIaOb	9	58°F	18:25	18:51	B
27885	HD 198578	20 45.5	+45 45	G10	IIaOb	9	58°F	19:05	21:20	C
27886	HD 217050	22 52.7	+48 00	G10	IIaOb	3 S	56°F	21:41	00 35	B
27887	HD 10516 φ Per	01 ^h 37.4	+50° 11'	G10	IIaOb	9L	58°F	00:56	04 03	B
27888	HD 81797 α Hya	09 ^h 22.7	-08° 14'	G10	IIaOb	9S	55°F	04 26	05 34	B

8 Unexposed plates in north pier (Box #1)
 Lantern slide plates for focus tests in north pier (Box #3)
 Exposed plates in darkroom (Box #3)

MADE THE MISTAKE OF HOLDING CONTROL
 BOX IN HAND AND ALLOWING FOREHEAD TO
 TOUCH END OF FINDER SCOPE — RESULTS IN
 A TERRIFIC SHOCK.

- H6

Dome Temp.

Focus

Dome Temp.

Hour Angle
East

P.H.

3^h 18^m W2^h 30^m W

04 23 W

04 24 W

01 50 E

* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h* 8^h

Dome Temp. 60°F

Focus

Dome Temp.

Transparency Conditions partly cloudy ALTO-cumuli 1830

thin cirri 1930

SUDDEN - Seeing extremely poor!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						min min at l. end of exposed plate box # 3 21 plate in red 2-2 C to red 21 in centre *	
3 ^h 18 ^m W	+12° 35'	1	2.14	A5 III	3-3-3	interstellar line pygm. sens 4 { 3397 3413	comp OK fine
2 ^h 30 ^m W	+46° 00'	1	4.5	B2.5e	3-3-3	NW C 355 Be Plate Broken* sens 5 { 3413 3448	
04 23 W	+48° 30'	40-X	5.2	B3ue	3-3-3	17W C 394 Spec Star for G10 sens 5 { 3448 3471	comp OK Lark
04 24 W	+50° 31'	0	3.95	B0p	3-3-3	Spec Star for G10 sens 5 { 3472 3528	comp OK fine
01 50 E	-08° 29'	0	3.42	K4 III	3-3-3	Bright Std. Vel. Stars sens 5 { 3529 3569	comp OK poor guiding

* Should adjust focus to
about 0.9 smaller.
- did so, i.e. set focus 1.60

Oct 26. Handset fixed by
Hiz.

* Plate must have broken during loading
or in Telescope. Distribution of
fragments shows that a second
fracture took place as slide was
closed



- 30 could we have an ashtray in dome?!
- 20 Keep 1964 Observer's Handbook in dome
- 10 Please provide a box of pencils in dome

0° Repair Radar-Lite

1° Screw loose holding top Slap covering mirror

2° Handset sparking and acting up

Please repair!

3 (Also see Oct 24/25)

23.

 Mon - Tue
 Date Oct 26/27

 Observer MR - ME Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
27888 ⁷	Focus Test	Oct 26	4.00 pm	G10	Lantern	9	69	in-out-out		B	Form
27889 ⁸	HD 198478	20 ^h 48.5	+45° 45'	"	Ilac Bk	"	62°F	19:48	21:25	B	2:41 W
27890	HD 217050	22 ^h 52.7	+48° 09'	"	"	"	58°F	22:03	01:45	B	6:53 W
Plate 27890 ^{found} was broken when removed from IAC											
27891 ⁸⁹	^{a Lep.} HD 36513	5 ^h 28.3	-17 54	G10	"	"	55°	02:10	02:50	B	0:31 E
27892 ⁸⁹	^{B Gem.} HD 62509	7 39.2	+28 16	"	"	"	"	03:15 ³	03:20	B	2:17 E
27893 ⁰	^{a Tau A} HD 29139	4 30.2	+16 19	"	"	"	"	03:40 ³	03:46	B	1:18 W
27894 ¹	^{a Hyo} HD 81797	9 22.7	-8 14	"	"	"	"	04:05 ³⁵	05:15	B	2:05 E

 EXPOSURE METER
 NOT WORKING

Dome Temp. 56°.....

24

Transparency Conditions

2300 - lazy, image very lively

0040 high cloud delays

6100 Cloud all over exposure.

Cleared up about 200

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1:21	B							Focus re-set to 1.60 (from 2.50) 2 ^m -2 ^m . C still to red by about 10 μ	sl center to red - lens	
2:25	B	2:41 W	46° 00'	2	4.9	B2.5d	3-3-3	BE Program Special Star for 619 MWC 353 (maybe fogged) set ⑦	3575 3636 3638 3678 completely out of focus	
3:45	B	4:53 W	+48° 30'	0	5.2	B3-ne	3-3-3	MWC 394		
4:00	P	Same for plate 27891!								
4:10	B	0:37 E	-17° 50'	0	2.8	Fo Ib	3-3-3	Bright Std Vel Exp. Meter stopped working	comp from look	
4:40	B	2:17 E	+28° 07'	0	2.18	K0 III	9	"	comp from look	
4:40	B	1:18 W	+16° 27'	0	1.38	K5 III	9	"	comp from look	
5:15	B	2:05 E	-8° 25'	0	3.42	K4 III	3-3-3	"	weak	
12 unexposed plates in north pier										

Date ²⁸⁻²⁹ Oct ~~37-38~~, 1964Observer ~~ELV~~Hd
Fl
Cn
Re

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
27892	HD 213806 δ Cep A	22 25.4 22 27.7 (1960)	+57 54 +58 13 (1960)	G40	IlaoB	20 long	56°F	20 04 ⁴	20 12	A	3 ^m E
27893	HD 200775	21 00.4	67 47	G40	IlaoB	long	57°F	20 28	20 58	A	2^h 10^m
27893	HD 218393	23 02.6	49 40	G40	IlaoB	20 long	56°F	21 20 ²⁵	22 10 ³⁷	A	01 17W
27894	HD 8779	01:21.4	-00:53	G40	IlaoB	20 long	54°F	22 27	23:40	B	00 29W
27894F	(Changed to G10)			G10		9L	54°				
27894F ₂	Oct 29 Hd+L Focus test		readjusted	G10	Lantern	9				B	
27894F ₃	"		in	G10	Lantern	9				B	
27894F ₄	"		"	"	"	9				B	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

180° for blue

Lib 1 21:23
23 10
21 00
2 10

26

Dome Temp.

Transparency Conditions *Poor*

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^m E	58 13	0-1	3.96	G0 F5-G2	with 15x filter 1 sec.	Ab. Handhook	DEVELOPED
2 ^h 10 ^m W	68 00	0-1	7.2	B5e		The Purgon	strong
01 17 W	50 00	0-1	6.8	A4e	1	The Purgon	DEVELOPED
00 29 W	-00 36	0-1	7.5	K0	1/2	Standard Vel. Star (SOME CLOUDS)	strong
					2min - 2min.	in EXPOSED BOX.	sl centre slightly to right
80° for blaze	22 ^h 22 ^m 22 ^s	54 ^h 25 ^m 22 ^s	3.80	2.6	1.20	Some broken clouds and much dew - dome dripping wet. Closed up	
	22 ^h 22 ^m 22 ^s	54 ^h 25 ^m 22 ^s	3.80	2.6	1.20	c to vi at 8 ^h in vi, 54 ^h in center, 58 ^h in red	
	22 ^h 22 ^m 22 ^s	54 ^h 25 ^m 22 ^s	3.80	2.6	1.20	Focus was 1.20 : result to 3.80	
	22 ^h 22 ^m 22 ^s	54 ^h 25 ^m 22 ^s	3.80	2.6	1.20	15/15 for F3 from c to r by v 22 ^h : result to 3.04	
	22 ^h 22 ^m 22 ^s	54 ^h 25 ^m 22 ^s	3.80	2.6	1.20	F4 excellent.	

Date Thurs Oct 29-30/64 Observer L^{Hd} - C^{ov} Julian Day 174.5

[illegible]

Dome Temp. 42.0 F

04:45 l. cloud from S + E

28

Focus

Transparency Conditions

Good
00: Excellent

Dome Temp.

McRae's Tutorial class - 90 visitors

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. # 2	REMARKS	Quality
12 08	B	Σ 1 17	50 30	00	3.95	Bop	2-2-2 with filter	rem 5-3852 3855	Plate broke
13 50	A	0 32W	58 15	00	7.4	B5	5-5-5 with filter	B Type Sta Vel 8 { 3856 3858	strong strong
13 52	B	1 07W	50 29	00	3.95	Bop	2-2-2 with filter (Plate developed)	- some weak, star; good 7 { 3861 3865	comp. from
13 36	B	0 53W	+03 57	0	4.17	M2 III	5-5-5 with filter EXP METER WORKING FINE *	Bright lsd Vel. 7 { 3866 3879	history
13 36	B	0 27E	+57 30	000	5.25	A0	4-4-4	Hi vel. Lt. clouds 7 { 3879 3886	history
14 11	B	01 04W	-00 57	00	5.9	K0	6-6-6	ltd Vel. 8 { 3887 3907	comp. from
14 55	B	01 55W	-02 56	0	6.5	M1	5-5-5	ltd Vel. 8 { 3907 3927	local
						15/15	He apparently forgot to remove 24 7x5/8 II 20 plates left	→ The filter not	nothing on plate

Exposed plates in darkroom, unexposed in 2 pier. 2 plates broke in "breaker"

(* Exp plate gave no of counts = $\frac{\text{tabulated value}}{1.0}$ in calculated line interval
 Seeing was better, also was late type star - Perhaps it is capping device
 - if open cap very carefully, works OK.
 Require small flashlight

29

Date Fr/Sat OCT 30/31 '64

Observer

(1fd)

B-H ✓

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
349-3125	HD 187923	19 50.5	+11 34	"	7/4/5	28		18 24	2x		
349-3126	HD 186408	19 40.9	+50 25	"	7/4/5	28		18 52	2x		
27900F2	From List	in in/out out		G10	Bantern	9	01.8°C 46F			B	
349-3127	HD 217014	22 55.7	+20°35'	"	6/5/5	28		21 08	2x		
349-3128	HD 166	00 04.7	+28°50'	"	6/6/5	28		21 28	2x		
349-3129	Π31	00 40.5	+41 03	"	8/4/5	28		21 53	2x	5167-4767	020E
349-3130	Π32	00 40.5	+40 39	"	8/4/5	28		22 30	2x	4767-5167	025W
349-3131	HD 10307	01 39.6	+42 26	"	6/4/5	28		23 08	2x		
349-3132	Hyad #2	03 15.7	+07 32	"	7/5/5	28		23 32	2x	15W	
349-3133	Hyad #15	04 12.3	+23 29	"	7/5/5	28		00 02	2x		
349-3134	Hyad #17	04 12.4	+14 32	"	7/5/5	28		00 20	2x	15W	
349-3135	Hyad #18	04 12.5	+12 21	"	7/5/5	28		00 42	2x		
349-3136	Hyad #23	04 15.3	+18 10	"	7/5/5	28		01 00	2x		
27901	φ Per	01 37.4	+50°11'	G10	IIaOb	9L	+41°	01 58	02 16	B	0256W
27902	HD 26162	04 03.3	+19°21'	"	"	9S	+41°	02 52	05 30	B	03-11

Dome Temp.

Focus

Dome Temp.

Dome Temp. ... 58°F

Focus

Dome Temp.

CO₂ 17:45

700V

Transparency Conditions OK Altstr. Low N

1915 Cumulus clouds moving in

2300 → Very Fine

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2x				4"	6.15	g2v		SSS	
2x				4"	5.96	g2v		SSS	
	B							from 3.04 no filter 7μ c to vi. re-set to 3.30. did so. 15/13	
2x				5"	5.51	gsv		SSS	
2x				4"	6.13	kov		SSS	
5:07-5:17		0°20'E	use Swoosy	-	-	-		Salary	
5:17-20		025W		-	-	-		"	
2x				4"	4.94	g2v		SSS	
2x				4"	7.78			SSS	
2x				4"	8.09			SSS	
2x				3"	8.46			1° Fix look on upper flap covering mirror	
2x				4"	8.06			2° Need small flashlight	
2x				5"	7.54			3° Clock out by 1.0 min	
26	3	0256W	+5031	1-2	3.95	Bop		5-5-5 Please put copy of 1964 travel book in dome	
530	8	0346W	+1931	0-1	6.4	KI		5-5-5 STD VEL	

15 UNEX. PLATES + P.H. "B"
IN CHUPBOARD N. PIER
Filter for Arc in N.P. Also

Plates developed

comp from
#74037 bonding
#74047 strong
#8 4048
#8 4066 strong

Date Sat Oct 31 - Nov 1 / 64 Observer Hd vrb mt Julian 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
<u>Important Note (Hd):</u> Examining recent plates carefully under high power, 27888 are in poor focus despite repeated focus checks with lantern plates. The flattens of PH's B and C. The would hold the thicker lantern plates. I returned PH B and readjusted PH C and tested as shown below. The diff. attributable, I think, to their different bending characteristics. Furthermore, I decided to											
27902 F ₁	Focus Test		in in/out-out	G10	IIaO	9	13.3°C 56			C	
27902 F ₂	" "		"	"	lantern	9	13.3°C 56			C	
27903	HD 170650	18 25.5	23 48	G10	IIaOB	^{long} 98	49	18 17 ³⁴	19 25	C	W 3 ¹ 22
27904	Q Per.	1 ^h 37.4	50 "	G10	"	^{long} 98	44	22 34 ⁷	22 48	C	E 29 ²
350 - 3137	HD 10307	01 34.6	+42 26		61515	28		23 05	2x		
350 - 3138	Hyad #2	03 15.7	+07°32'		71515	28		23 25	2x		
350 - 3139	Hyad #15	04 12.3	+73 29		71515	28		23 52	2x		
350 - 3140	Hyad #17	04 12.4	+14 32		71515	28		00 09	2x + 54		
350 - 3141	Hyad #18	04 12.5	+12 21		71514	28		00 29	2x		
350 - 3142	Hyad #23	04 15.9	+18 10		71514	28		00 46	2x		
350 - 3143	Hyad #34	04 20.7	+16 42		71514	28		01 04	2x		

Dome Temp.

CO₂ 22:30Transparency Conditions *Even than ci or low. Soggy*

Focus

V = 700

0000 (fluct) improved

Dome Temp.

the best seeing I have ever seen at DDD

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
der high		power, I found that all plates on G10 same (but not including)							
tem. plate		Finally, I traced the trouble to maladjustment of the screws holding							
lantern		plates against the pins, but not the extra-thin IacO's.							
on below		The difference between lantern and IacO's is now small and							
Further		I decided that in view of the new distribution of light in the spectrum we should eliminate							
C							30/30	Without the GG 18 filter but with the 15x filter. <i>ave 211 μ c to m</i>	
C							15/15	Pretty good throughout. <i>i.e. They are different</i>	
9 25	C	W 3 ^h 22	23 53	1	5.72	B5	5, 5, 5	Hi Vel inter. counting 1 per 5 min. sens 8	4068
22 48	C	E 29 ^m	50 30	2	3.95	Bop	5, 10	Special Star	4080+
				3"	4.94	S2V	SSS		4084
				2"	7.78	—	SSS		4087
				2"	8.00	—	SSS		stray
				1"	8.46	—	SSS		
				1 1/4"	8.06	—	SSS		
				2"	7.54	—	SSS		
				2"	7.86	—	SSS		

Cont

Dome Temp.

Focus

Dome Temp.

How Angle
End

0.55 V

7:43 W

Date SUN NOV 1/2

Observer

Hand
RC
MSE

..Julian Day

[illegible]

Domestic Temp

Focus

Dome Temp.

Hour Angle
End

3:39^w

315

38
Date Nov. 3-4, 1964
(Tues-Wed.)

— MSE
Observer FL, MSE - HV

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
2 27908	HD 178329	^h 19 ^m 03.1	+41° 16'	G10	IIa06	9L	55° 50°	17 54 ⁷⁴	20 21	C	3 ^h 52 ^m W
2 27909	HD 10576 δ Pers	^h 1 ^m 37.4	+50° 11'	G10	IIa06	9	49°	20 ^h 35 ^m	20 46	C	2 ^h 15 ^m E
2 27910	HD 6860 β And	^h 1 ^m 04.1	35 05	G10	"	9	49°	21 ^h 03 ^m	21 18	C	1 ^h 14 ^m E
27911	HD 20797	^h 03 ^m 16.0	+64° 14'	G10	"	9	49°	21 ^h 38 ^m	23 38	C	1 ^h 07 ^m E
27912	^α Eri HD 26965	^h 04 ^m 10.7	+07° 49'	G10	"	9	48°	00 ^h 09 ^m	01 17	C	00 20 E
27913	HD 75486	^h 08 ^m 45.2	62° 20'	G10	"	9	47°	01 ^h 43 ^m	02 ^h 57 ^m	C	03 ^h 17 ^m E
27914	HD 78362	^h 09 ^m 02.7	+63° 55'	"	"	9	46°	03 ^h 15 ^m	03 ^h 41 ^m	C	02 ^h 49 ^m E
27915	" 66141	^h 07 ^m 57.1	+02 36	"	"	"	+45°	04 29	05 21	C	00 02 E
27915 F	Focus TEST	IN-IN/OUT-OUT					07.1°C +45°			C	

Dome Temp.

Focus

Dome Temp.

★ Magnitude

" " " 22:05

Dome Temp.

38.

[illegible]

Date Nov 6-7, 1964
Fri-Sat

Observer Re - Mt
mse Msc

Julian Day

[illegible]

Dome Temp.

40

- 20^h 10 - 110423 - 20^h 35
- 4 UNEXP. I a 0 b in N. PIER
- 6 UNEXP. I a 0 film in N. PIER IN LABELLED BOX.

Date Nov 7-8 1964 Sat/Sun

Observer

Mse
vds - H5

Julian 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
27918	HD 206778 E Peg	21 39.3	+09 25	510	IIaO film	9 L	48°F	18 ^h 26 ^m	18 ^h 44 ^m	C	00 ^h 7 ^m ET
351-3147	169gB	19 40.9	+50 25		71415	28		18 53			
351-3148	169gA	"	"		71415	28		19 13			
351-3149	HD 217014	22 55.7	+20° 35		61515	28		19 34			
351-3150	HD 166	00 04.7	+28 50		61615	28		19 54			
351-3151	1731	00 40.5	+41 03		71515	28		20 14	2x + smy 5200 - 4700		0115°
351-3152	1732	00 40.5	+40 39		71515	28		21 02	2x 5200 - 4700		0030°
351-3153	HD 10307	01 34.6	+42 26		61515	28		22 45			
27919	HD 10516 φ pers	1 ^h 37.4 ^m	50° 11'	G10	IIaO film	9xL	43°F	23 ^h 02 ^m	23 ^h 20 ^m	C	00 ^h 29 ^m
27920	HD 21770 36 Per	03 ^h 25.5 ^m	+45° 43'	G10	IIaO-b	9 L	42°F	23 ^h 45 ^m	01 29	C	0052W
27921	HD 23230 V Per	03 ^h 38.4	+42° 16'	"	IIaO film	"		01 49	02 ^h 13 ^m	C	01 ^h 27 ^m
27922	HD 44478 H. Gem	00 ^h 16.9 ^m	+22° 34'	"	"	"	40°F	02 ^h 46 ^m	03 ^h 06 ^m	C	00 ^h 21 ^m ET
27923	HD 60522 2 Gem	07 ^h 29.8 ^m	+27° 07'	"	"	"	40°F	03 ^h 23 ^m	04 ^h 01 ^m	C	00 ^h 39 ^m ET
27924	HD 54605 δ CMa	07 ^h 06.3 ^m	-26° 14'	"	"	"	39°F	04 ^h 29 ^m	04 ^h 33 ^m	C	00 ^h 24 ^m W
27925	HD 62044 σ Gem	07 37.0	+29 07	"	"	"	38°	05 10	06 00	C	0113W -Expos
27925F	Focus TEST IN-IN/OUT-OUT			"	"	"	"			"	

Dome Temp.

Focus

Dome Temp.

Dome Temp. 47°F CO₂ in 1800Transparency Conditions OK

2215 thin cl. Low in W

2225 clouded out

clouds ~ 0200

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 ^h 7 ^m E	+9° 42'	1	3.54	K2Ib	7-7-7	K-line Program. Sens 7 {4317 4327	fine.
		8"	6.20	SSD	SSS		
		8"	5.96	g2V	SSS		
		5"	5.51	g5V	SSS	3 IIa0b Plates in N. Pier	
		5"	6.13	K0V	SSS	10 IIa0 Films " " "	
01 ^h 15 ^m E		-	Galaxy	SSS		0630-0800 Repair to Dome Pwr. Cable	
0030 E		-	Galaxy	SSS			
		7"	5.2V	SSS			
00 ^h 29 ^m W	50° 31'	1-2	3.95	Bop	7-7-7	Special For Cn 10 Sens 7 {4328 4326	stony
00 52 W	+45° 57'	1-2	5.6	F4II	5-5-5	F- Star Prog. Sens 8 {4337 4352	stony
01 ^h 22 ^m W	+42° 28'	1-2	4.4	F5II	5-5-5	F- Star Prog. out of focus! # 7 {4353 4362	girdling
00 ^h 21 ^m E	+22° 33'	1-2	4.54	M3III	7-7-7	K-LINE # 4 {4363 4373	good!
00 ^h 39 ^m E	+27° 00'	1-2	5.40	M0II	7-7-7	" (out of focus in center) 7 {4374 4384	comp. poor
00 ^h 24 ^m W	-20° 19'	1	2.5	F8Ia	7-7-7	F-STAR #4 {4385 4388	weak
0113 W	28 59	1	5.26	KIP	7-7-7	10 Keep box of pencils - done #8 {4398 4428	good
- EXPOSURES X1.5	ON IIa0 FILM.				K-line	20 OBSERVERS hand book	useless
					30/30	FOCUS PLATE USED TO	just of focus
						SUPPORT FILM CROCK	center to
						F 27919	Very bad focus

Date NOV 8-9/1964
SUN/MONObserver ^{Kd velB} RC -
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.	How Angle End
27926	HD 170650	18 ^h 25 ^m 5	+23° 48'	G10	IIaO film	9L	52°F	18:05	*1	B	
27927	HD 210027 i Peg	22 ^h 02 ^m 4	+24° 51'	G10	IIaO film	9L	51°F	18 ^h :48 ^m	20 ^h 20 ^m	B	04 ^h 43 ^m
27928	HD 105116 p Per s	01 ^h 37 ^m 4	50° 11'	G10	IIaO 6	9XL	48°F	21 ^h 17 ^m	21 ^h 05 ^m	C	01 ^h 55 ^m
27929	HD 18884 α Cet	02 ^h 57 ^m 1	+03° 42'	G10	IIaO film	9L	48°F	21 ^h 42 ^m	21 ^h 25 ^m	B	01 ^h 21 ^m
352-3154	4 III	03 20	+17		61515	28			22 23	2x	
352-3155	4 IV	03 20	+17		61515	28			22 43	sun, 2x	
352-3156	HD 20630	03 17.2	+3° 14'		61515	28			23 02		
352-3157	Hyad #2	03 15.7	+7 32		71515	28			23 27		
352-3158	Hyad #15	04 12.3	+23 29		71515	28			23 45		
352-3159	Hyad #17	04 12.4	+14 32		71515	28			00 02		
352-3160	Hyad #18	04 12.5	+12 21		71515	28			00 22		
352-3161	Hyad #23	04 15.9	+18 10		71515	28			00 40		
352-3162	Hyad #39	04 20.7	+16 42		71515	28			01 02		
352-3163	Hyad #50	04 22.2	+14 41		71515	28			01 22		
352-3164	Hyad #58	04 23.8	+18 42		71515	28			01 40		

Dome Temp.

Focus

Dome Temp.

Dome Temp. $5^{\circ}3'$

Focus

Dome Temp.

CO₂ in 22:10Transparency Conditions $1\frac{1}{2}$, OK, slight ground fog
O100 thin fog patches in sky?

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	B		23° 51'	1	5.72	B5	5-	INTERSTELLAR - LINE - PROG { 4433	
20	B	04 ^H 43 ^M W	"				5-5-5 *2	(18) #8 { 4436 4448	Good
25	C	01 ^H 55 ^M W	+25° 12'	1	4.4	F5	5-5-5	F-STAR PROG. (8) #6 { 4450 4458	lousy
25	B	01 ^H 21 ^M E	50° 31'	1	3.95	B0P	5-5-5	SPECIAL FOR M10 (5) #7 { 4459 4464	very poor guiding
26	C	01 ^H 56 ^M E	3° 56'	1	4.17	M2	5-5-5	K-LINE very poor focus #6 { 4465 4474	weak
23					6	S2V	SSS	II. II. III. IV. ⊙	
23					6	S2V	SSS		
302				6"	4.83	S5V	SSS		
322				3"	7.78	—	SSS		
345				3"	8.09	—	SSS		
302				4"	8.46	—	SSS		
22				3"	8.06	—	SSS		
40				4"	7.54	—	SSS		
02				3"	7.86	—	SSS	strange cloud??	
22				3"	7.62	—	SSS		
40				3"	7.53	—	SSS	*2 LIMITING H.A. WEST *1-FOCUS PLATE BROKEN	

(Continued)

Date Nov 8-9, Sun-Mon 1964 Observer CW Julian Day 1964.338

[illegible]

47

Date NOV 12-13

THURS-FRI

Observer

JLB

MSE

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.II.	Hour Angle End
27930 F ₂	focus test		in in/out and		Ilao film		61°F			C	
27931	HD 1013 X Per	00 ^h 09. ^m 4	+19° 39'	G10	Ilao film	9L	59°F 57°F	20 ^h 56 ^m 19	23 ^h 34 ^m	C	02 ^h 36 ^m 4
27932	HD 10516 φ Per	01 ^h 37. ^m 4	50° 11'	G10	Ilao film	9XL	57°F	23 ^h 46 ^m 8	00 ^h 02 ^m	B	01 ^h 32 ^m W
27933	HD 31398 Ant	04 ^h 50. ^m 5	+33° 00'	"	"	9L	56°F	00 ^h 17 ^m 13	00 42	B	01 00 E
	HD 20902 α Per	03 ^h 21. ^m 7	+49° 44'	"	"	9L	59°F	10 10 WINDY TO GUIDE		B	
27934	HD 29139 α Tau	04 ^h 30. ^m 2	+16° 19'	"	"	9L	57°F	01 ^h 04 ^m 3	01 ^h 09 ^m	C	06 ^h 12 ^m E
27935	HD 39801 α Ori	05 ^h 49. ^m 8	+07° 23'	"	"	9L	56°F	01 ^h 26 ^m 6	01 ^h 37 ^m	B	01 ^h 09 ^m E
27936	HD 48329 ε Gem	06 ^h 37. ^m 8	+25° 14'	"	"	"	53°F	02 ^h 27 ^m 20	03 ^h 07	B	00 22 E
— 0330 closed up —											
27936 F ₁	FOCUS TEST		NOV 13 in in/out and				45.0°F			C	

Dome Temp.

Focus

Dome Temp.

Dome Temp. 60°F

Focus

Dome Temp.

Transparency Conditions Fair, Clearing after showers
windy. warm mass
VERY GOOD AFTER 2300^h

0110 heavy AC from west.
 0300 THICK AC ↑

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	C						30/30		
3 ^h 36 ^m	C	02 ^h 34 ^m W	+20° 03'	0 ⁺	6.29 M2 III	5-5-5	K-LINE	#1 image jumpy	badly out of focus out of focus weak
4 ^h 02 ^m	B	01 ^h 32 ^m W	50° 31'	0 ⁺	3.95 Bop	5-5-5	SPECIAL FOR G10	#7 {4558 {4559 {4564	comp & weak guiding?
4 ^h 42 ^m	B	01 00 E	33° 07'	1	3.97 K3 II	5-5-5	K-EMISSION PROC.	#6 {4565 {4575	guiding? fine
4 ^h 55 ^m	B				2.3 F5 II		F-STAR PROC.	too windy in west.	
4 ^h 09 ^m	C	00 ^h 12 ^m E	+16° 28'	1	2.24 K5 III	5-5-5	K-LINE	#4 {4575 {4579 out	guiding faint in
4 ^h 37 ^m	B	01 ^h 09 ^m E	07° 25'	0	2.27 M2 Ia	5-5-5	INCREASING CLOUD K-EMISSION PROC.	#4 {4579 {4583	strong
5 ^h 07 ^m	B	00 22 E	+25° 11'	0	3.96 G8 Ib	5-5-	FREQUENTLY INTERRUPTED BY CLOUDS K-EMISSION PROC.	#5 {4586 {4596	out of focus guiding?
Unexposed IIaO film in north pier 7 Exposed IIaO film strips in darkroom 2 unloaded pH (B4C) in north pier (Is the magnitude for 2 Tai incorrect in the standard velocity program? - Hb)									
	C						30/30	*1 - VERY WINDY - DIFFICULT GUIDING	at centre focussed in centre

Date Nov 14/15
Sol-SunObserver MT - RC

Julian 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
27937	λ And HD 222107	23 ^h 32.7 ^m	+45° 55'	G-10	IIao film	9 L	50°	18:45 ³¹	19:46	C	0:30 E +
27938	56 Peg. HD 218356	23 02.2	+24 56	"	"	9 L	46°	20:07 ⁹⁶	23:18	C	3:33 W +
27939	ϕ Perse HD 10516	1 ^h 37.4 ^m	+50° 11'	"	"	"	43°	23:40 ²²	00:24	C	2:04 W J
27940	μ Per. HD 26630	04 ^h 7.6 ^m	+48° 9'	G-10	IIao film	9 L	42°	01:07 ²⁶	02:19	C	1:17 W 4
27941	π Aur HD 40239	5 ^h 52.5 ^m	+45° 56'	G-10	IIao film	9 L	42°	02:46 ⁷	03:00	C	0:21 W 4
27940 T	7 luxure test			G-10	IIao film	9	44	full aperture		C	Antic wind

Date: Nov 16/17

Observer Ra- Mt Julian Day 100

Rn- MT
Mae

Julian Day

[illegible]

Dome Temp. 42°F

Focus

Dome Temp.

Transparency Conditions Fair - heavy, patchy cloud

at 2220

cloud out at 2230

52

Ending Time
E.S.T.

P.E.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

02:30

C

00 20 W

0

3.95

Bop

5-

Disappointing

#7 {4708
4709

weak

03:05

C

0:55 W

+45° 58'

0

5.94

M3II

5-5-5

K-line

(PLATE
BROKEN)

#8

{4712
4752very weak.
out of focus

IN N. PIER: 2 PH'S (B&C)

1 FOCUS PLATES

2 BOXES T-60 FILM

1 BOX 'EXPOSED' - #22941

Clouds 3:15

2 focus plates in N pier.

53.

Date 17-18 NOV/1964 Observer RC - HV Julian Day 245
TUES-WED 1756

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
27943	HD 178329	19 ^H 03 ^M 11	41° 16'	G10	IIAD FILM	9L	43°F	17 ^h 56 ^m	18 ^h 30 ^m	C	21° 55' W
27943	HD 10576	01 ^H 37 ^M 4	50° 11'	G10	IIAD FILM	9xL	40°			C	700 W W
27943	HD 19275	03 ^H 01 ^M 1	74° 01'	G10	IIAD FILM	9L	40°	23 ^h 04 ^m 19	23 ^h 47 ^m	C	0° 10' W
27943	F. focus test in-in/out-out			G10	IIAD film	9	26F	22 NOV		C	From

Date Nov 24/25, Tues-Wed 1964 Observer Cn ^{Mac} - H ~ Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
27944	HD 209008	21 ^H 55 ^m .1	+06° 14'	G40	Ilford-Ilford	13L	39°F	17 ^H 52 ^m 5	18 ^H 02 ^m	B
27945	HD 218393	23 ^H 02 ^m .6	49° 40'	G40	Ilford	13L	37°F	18 23	18 37	B
27946	HD 223501	23 ^H 45 ^m .0	61° 39'	G40	Ilford	13L	36°F	18 45	19 15	A
27947	HD 24560	03 ^H 49 ^m .3	44° 38'	G40	Ilford	13L	35°F	23 ^H 52 ^m 15	00 ^H 22 ^m	A
27948	HD 26420	04 ^H 05 ^m .7	41° 52'	G40	Ilford	13L	34°F	00 ^H 34 ^m 13	01 ^H 00 ^m	A
27949	HD 37175	05 ^H 31 ^m .0	-05° 41'	G40	Ilford	13L	34°F	01 ^H 32 ^m 23	02 ^H 18 ^m	A
27950	HD 50209	06 ^H 47 ^m .1	-00 10'	G40	Ilford	13L	34°F	02 ^H 30 ^m 23	03 ^H 16 ^m	B
27951	HD 65079	07 ^H 51 ^m .9	+03° 14'	G40	Ilford	13L	34°F	03 ^H 28 ^m 24	04 ^H 16 ^m	A
27951 T	Fluxme Test			G10	Ilford film	9	44°F	full aperture		C

Dome Temp.

Focus

Dome Temp.

Hour angle
End

00 02 W

00 30 E

00 35

00 27 W

00 40 W

00 43 W

00 21 W

00 22 W

00 22 W

00 22 W

00 22 W

Dome Temp. 40°

Focus

Dome Temp.

Transparency Conditions *Poor - l. cloud, haze**after 2330 transparency**0300 - FOG & THIN CLOUDS.*

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 ^H 01 ^M	B	00 02 W	+06° 33'	0	5.99	B3E	5-5-5	EXP meter not working INTERSTELLAR LINE PROG #10 { 4784 4786	developed fine
8 37	B	00 30 E	50° 01'	0	6.8	A4c	5-5-5	Bc PROG Exp. meter prob. not working #10 { 1 count	good
10 15	A	E 0 35 ^m	46° 03'	0 ⁺	8.2	B3e	5-15	" " (but it went out of balance) Exp. mtr. working #9 { 4789 4293	l. ok.
								Sky very poor for all 3. probably about 3 real counts	
0 22 ^M	A	00 ^H 27 ^M W	44° 50'	0 ⁺	7.8	B3ne	7-7-7	Bc Prog. #10 { 4795 4796 / NOT	fine
0 00 ^M	A	00 ^H 49 ^M W	42° 02'	1	7.6	B3ne	7-7-7	" " -700V #10 { 4797 4797 / RELEASE	(fine) strong
2 18 ^M	A	00 ^H 43 ^M W	-05° 40'	1	8.2	B5ne	7-7-7	" "	strong
3 15 ^M	B	00 ^H 25 ^M W	-00° 14'	1	8.3	B5ne	7-7-7	" "	fine
4 16 ^M	A	00 ^H 22 ^M W	+03° 05'	1	7.7	B3ne	7-7-7	" " #9 -900V 4807	strong
		outside HA = 3 ^h E dec 42							
		inside " 3 ^h W " 42					20/20		center to real.
								PH B LOADED - IN N. PIER:	

57

Date NOV 29/30 / 1964 Observer Had - Hn Julian Day
SUN. MON Msc Msc

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
27951 F.	focus test - in-in/out-out			G40	IIaOb	13	26°F	17 ^H 32 ^M		B
27952	HD 184467	19 ^H 29 ^M 55 ^S	24° 24'	G40	IIaOb	13	24	17 32	18 02	B
27952	HD 220116	23 ^H 16 ^M 57 ^S	43° 43'	G40	IIaOb	13	24°F	18 ^H 55 ^M 50 ^S	20 35	A
27952 F	focus test in-in/out-out			G40	IIaOb	13	21	20		B
27953	HD 2789	0 26:3	66 36	G40	"	"	21	20 58 ⁴⁵	22 28	A
27953 F	focus test in-in/out-out			G40	"	"		22 53 ⁴⁰		B
27954	BD +54° 398	1 45.8	54 51	"	"	"	21°F	22 53 ⁴⁰	00 ^H 13 ^M	A
27955	HD 36665	5 ^H 28 ^M 3	+27 59	G40	"	"		00 29 ²³	01 15	B

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

02 42 W

000/W

Date 30-31 Nov/64.

MON - TUE S

Observer

- Mt

Mse

..Julian Day

[illegible]

Date Dec 1-2, 1964Observer Fl, 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.
27960F1	HD 216629	22 49.4	+61 36	G40	Ilao 6	13	18°			
27960F2	Focus Test	In-In, out-out.								
Dec 2, 1964		Focus was set to 56 From 57								
27960F3	Focus Test	In-In, Out-Out					Focus: 56		13	B
F4	"	"	"	"		Reset	Focus: 56		SLIT 13	A
F5	"	"	"	"			Focus 54		13	B
F6	"	"	"	"	"Control"		Focus 54		13	A
F7	"	"	"	"		Focus 54	Tilt changed 1/2 turn		13	B
F8	"	"	"	"	"Control"		Focus 51		13	A
F9	"	"	"	"		Focus 53.5			13	B
F10	"	"	"	"		Focus 53.5			13	A
F11	"	"	"	"		Focus 52			13	B
F12	"	"	"	"		52			13	A

Dome Temp.

Focus

Dome Temp.

Hour Angle
EndReflected
light
has been
checked

Temp

Dome Temp.

Transparency Conditions Good

Focus

Some cloud at beginning.

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					10.0	B2pe		Cn Be Prog. Cirrus Clouds appeared Note: Cn Be Prog Star #36 Cannot be found in sky! -18.45-	
13 F							30/30		ct vi
13 A							35/35	Developed 3 min in Dig	ct vi
13 B							"		ct vi
13 A							"		ct vi
13 A							"	tilt changed N screw out 1/2 turn S " in 1/2 turn	ct vi
13 A							45/45	Between F7 & F8 the telescope was moved in dec & R.A. Did this affect Focus???	ct vi
13 A							"		ct vi!
13 A							45/45	Same as F 9	ct vi
13 A							"	BEST very good!	not quite as good.
13 A							"	Two hours west	

Date Observer Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2							45/45	Telescope 4 hrs west	Focus OK little weak
2							45/45	Telescope on meridian	" "
								not touch focus	
A							30		
B							15	(may be fogged by incomplete capping)	
A							15		
B							30		
A							60	fogged by incomplete capping	
A							15		
B							30		
								best exposure	Focus seems OK

Date DEC 6-7/1947

SUN - MON

Observer

Ad - H
Mre

Julian 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.
27960 T8	sky	G		G40	IIaOB	full length 13	22 F			A
T9	sky			G40	"	13	22 F			B
T10	Full aperture Comp			"	"	13 long	22			A
T11	"			"	"	"	22			B
27961	HD 212943	22 22.8	+4 12	"	"	"	19	17 55	18 09	A
27962	HD 220116	23 16.1	+57 43	"	"	"	17	18 23	20 23	B
27963	HD 10516	01 37.4	50 11	G10	IIaO	9	15°	20 47	21 05	C
27963 F	Focus test in input out			G10	IIaO	9				C
27963 T	Flexure test		50° 11'	G10	IIaO	9				C
27964	BD+54 398	1 45.8	54 51	G40	IIaOB	13	13 F	21 42	22 32	A
27965	HD 14422	2 14.7	56 56	"	"	"	10	22 50	00 22	B
F1	Focus test	(Mon Dec 7)		G40	IIaOB	13	21° F			A
F2	Focus test			G10	IIaO	9	21° F			
T3	Flexure test			G10	IIaO	9	21° F			B
T4	"			G10	IIaO	9	21° F			C
T5										E

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

16.3

27° +

1/49° S

10.1° S

3 1/2° =

11 1/2°

12 55°

Chang

order

side

Dome Temp.

Transparency Conditions Good

Focus

0001 Clouds

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	16.30 EST	clear sky			2 sec		OK
	"	"	"		6 "		
					15s	These tests made after straightening the film "filter" which was curled up in the tube	OK
					30s		strong
18 09 A	N 27 ^m	+4 31	1	5.9 KO	5-5-5	Std vel 900 volts	strong
0 23 B	N 49 ^m	58 05	1	9.28 B-5	5-5-5	CN Be prog. - beyond limit	4966 4968 4968
05 C	0 10 ^m	50 32	1-2	3.95 B-5	8-8-8	SPECIAL FOR G10	fine
					40/40		weak
	3 ^h W = inside						weak
	3 ^h E = outside				25/25		OK
22 32 A	N 1 27 ^m	55 12	1	8.44 B-5	5-5-5	Cn - Be Prog.	fine
0 12 B	02 55 W	57 15	1	9.58 B-5	5-5	clouds! Cn - Be Prog.	weak
					20/20		OK
	Changed focus from 7 to 12					ie the scale reads 2	OK
	Meridian = outside;					3 ^h E = inside	OK
	Meridian = outside;					3 ^h W = inside	OK
						PH A loaded in m. pier	OK
						#1 - NOT RELIABLE	

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.I.
15	Flexure	Test	35° 20'	G-10	Ans	9	26°F			C
16	Flexure	Test	35° 20'	G-10	Ans	9	26°F			B
27765 F3	Focus Test	in-in/out-out.		G-40	<u>Ans</u>	13	26?			A

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

[illegible]

69

Date 8-9 DEC / 64

Observer CN -

Julian Day

MSE

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
27966	³⁵ Agr HD 210 191	22 ^h 03 ^m 5	-19° 01' 610	10	100 b	9	29°F	18 ^h 33 ^m 15	19.03	C
27967	HD 220 116	23 ^h 16 ^m 1	57° 43' 614°	"	"	13	26°F	19 ^h 17 ^m 47	20.50	A
27967F	Focus Test	22	101	10	"	13	24°F			B
Dec 9 '64										
27967T1	Flexure Test		35°	10	100	13	26°F			A
T2	Flexure Test		35°	10	100	13	26°F			B
T3	" "		"	"	"	"	"			A
T4	" "		"	"	"	"	"			B

Dome Temp.

Focus

Dome Temp.

Hour angle
End

01 30W

12 17

21 19 E

* exposure
not capped

Dried

Dried

Dried

Dried

Dried

Dried

Dome Temp. 29°F

Focus

Dome Temp.

and

Transparency Conditions *good*

70

$19^{\text{h}} 30^{\text{m}}$ - intermittent cloud,
 $20^{\text{h}} 45^{\text{m}}$ - light cloud from NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 50W	$-18^{\circ} 40'$	0	5.74	B2V	5-5-5	INTERSTELLAR LINE PROG.	weak.
02 53	$58^{\circ} 06'$	1	7.28	B05V	5-5-	Cm. Be PROG. (Light cloud) CLOUDS 20 50	good.
21 19 EST					25/25	Focus 52	sl centre to red.
Closed up $21^{\text{h}} 20^{\text{m}}$							
* exposure stopped at 20 50 by clouds.							
let capped at 21 19							
Inside 3^{h}E					15/15		fine.
outside - meridian					15/15		out of focus.
Inside 3^{h}W					30/30		fine.
outside - meridian					30/30		center very sl
inside - 3^{h}E							to violet.
outside - meridian							
inside - 3^{h}W							

Date 9-10 DEC/64

Date 9-10 DEC/64 Observer L - RC Julian Day 175
WEATHER Mse

WED-THURS

[illegible]

Date 13-14 DEC/64
SUN - MONObserver McL - H
McC

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Flow Angle End
27970	HD 10516 PERS	01 ^H 37.4 ^m	50° 11'	G10	Ladk	extra 9-long	35°F	20 ^H 20 ^m	20 42	C	W 14 ^m
27970 F	from Test			G10	"					BC	
27971	HD 11291	01 ^H 45.8 ^m	50° 18'	G40	"	13	34°F	21 ^H 04 ^m	21 11	A	00 31 ^m
27972	HD 11905	01 ^H 57.9 ^m	41° 12'	G40	"	13	32°F	21 ^H 25 ^m	21 41	B	01 00 ^m
27973	HD 19698	03 ^H 5.2 ^m	+11° 30'	"	"	13	"	21 ^H 49 ^m	21 57	A	01 02 ^m
27974	HD 21933	03 ^H 27.1 ^m	+9° 02'	"	"	"	"	22 ^H 01 ^m	22 07	B	00 ^H 15 ^m
27975	HD 23258	03 ^H 38.6 ^m	+20° 37'	"	"	"	"	22 ^H 13 ^m	22 21	A	00 ^H 08 ^m
27976	HD 24769	03 ^H 51.2 ^m	+22° 54'	"	"	"	31°F	22 ^H 24 ^m	22 30	A	00 ^H 10 ^m
27977	HD 25175	03 ^H 54.9 ^m	+17° 00'	"	"	"	"	22 ^H 35 ^m	22 43	B	00 ^H 11 ^m
27978	HD 26676	04 ^H 08.1 ^m	+09° 58'	"	"	"	"	22 ^H 48 ^m	22 56	A	00 ^H 09 ^m
27979	HD 27563	04 ^H 15.9 ^m	-07° 50'	"	"	"	30°F	23 ^H 02 ^m	23 12	B	00 ^H 07 ^m
27980	HD 27742	04 ^H 17.6 ^m	+20° 45'	"	"	"	"	23 ^H 18 ^m	23 26	A	01 19 ^m
27981	HD 28217	04 ^H 22.0 ^m	+10° 59'	"	"	"	"	23 ^H 32 ^m	23 40	B	00 ^H 29 ^m
27982	HD 28843	04 ^H 27.6 ^m	-03° 25'	"	"	"	"	23 ^H 48 ^m	23 53	A	00 ^H 36 ^m
27983	HD 29587	04 ^H 34.5 ^m	41° 57'	"	"	"	"	00 ^H 00 ^m	00 44	B	01 19 ^m

Dome Temp. 35.0 F

Focus

Dome Temp.

Transparency Conditions

clearing after 20th

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 14 ^m	50° 31'	1	3.95	Bop	5-5-5	SPECIAL FOR G.10 - more windy. star off slit 1/2 time	fine
					30/30		O.K.
00 35 ^W	50° 38'	1	5.62	B9	5-5-5	B8-B9 PROC. #9 { 5231	fine
01 ^H 00 ^W	41° 33'	1	6.56	B9	5-5-5	windy star of time #9 { 5233 * 1 slit 1/2 time #9 { 39	fine
W 02 ^m	+11° 45'	1	5.89	B9	5-5-5	" #9 { 5239 comp. work 5242	fine
00 ^H 10 ^m E	+09° 16'	1	5.59	B8	8-8	" #9 { 5242	fine
E 08 ^m	+20° 46'	1	6.01	B9	8-8	" #9 { 5243 5246 1/2	fine
00 ^H 10 ^m E	+23° 07'	1	5.96	B9	8-8	" #9 { 5246 5249	fine
00 ^H 01 ^m E	+17° 13'	1	6.28	B9	8-8	" #9 { 5250 5253 1/2	fine
00 ^H 01 ^m E	+10° 02'	1	6.20	B8	8-8	" #9 { 5254 5257 1/2	fine
00 ^H 07 ^m W	-07° 37'	1	5.67	B8	8-8	" checked field #9 { 5258 5263	fine
W 19 ^m	+20° 57'	0-1	5.87	B8	8-8	" #9 { 5263 5267	fine
00 ^H 29 ^m W	+11° 09'	0	5.79	B8	8-8	" #9 { 5268 5271 1/2	fine
00 ^H 36 ^m W	-03° 15'	0	5.89	B9	8-8	" #9 { 5272 5275 1/2	fine
0119 W	42° 04'	0	7.7	G2	5-5-5	Std Vel #10 { 5278 5287	fine
[OVER]						due to wind or wind balance, difficult to maintain on slit	

- MSE
- H_v

Observer

Julian Day

[illegible]

Dome Temp.

Transparency Conditions Good

76

[illegible]

77

MR.

Date 14-15 DEC/64

Observer M. S. - R. C. Julian Day

MON - TUES

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
27991	HD 10516 Per	01 37.4	50° 11'	G10	II 906	4xL	26°F	17 52	18 08	C
27991	HD 11443 TRI	01 47.4	+29 06	"	"	9.L	25°F	18 ^h 33 ^m	18 ^h 59 ^m	C
27992	HD 10516 Per	01 ^h 37 ^m 4	+50° 11'	"	"	9xL	"	19 ^h 16 ^m	19 ^h 32 ^m	C
27993	HD 20902 Per	03 ^h 17 ^m 2	+49° 30'	"	"	9 L	24	19 ^h 53 ^m	19 ^h 59 ^m	C
	HD 20620	03 ^h 14 ^m 1								
27993 F,	from test	in in / ant.		G10	"	9 L	23°F			C
27994	HD 20630 KAT	03 ^h 14 ^m 1	03° 00'	"	"	11 L	23	20 ^h 25 ^m	22 25	C
27995				G40		13				
27995	HD 30085	04^h 39^m 4	70° 45'	G40	"	13	22°F	23 06	23 14	A
27996	HD 32781	05^h 00^m 5	76 21	"	"	"	23 14			B
27995	HD 30085	04 ^h 39 ^m 4	70° 45'	"	"	11	22°F	23 21	23 27	B
27996	HD 32781	05 00.5	76 21	"	"	"	21	23 38	23 51	A
27997	HD 34880	05 15.5	-05 28	"	"	"	19°F	00 13	00 27	B
27998	HD 43262	06 10.7	-9 00	"	"	"	19°F	00 39	00:51	A

Dome Temp. 26° F

Focus

Dome Temp.

Transparency Conditions

Transparency Conditions fair mean not 1/4 78
some clubs

~~Some clouds~~

Dec clamp sticking badly at 2300 EST; 2330

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 08	C				3.75	Bop	5-5-5	PLATE BROKE DURING EXP. WAS SPECIAL FOR G10. DEFINITELY UNDER	fine
19 59	C	1 ^h 30 ^m E	29 26 0	0	4.0	F6105	5-5-5	F-STAR PROG	fine
01 02	C	0 ^h 40 E	50 11 0	0	3.95	Bop	5-5-5	SPECIAL FOR G10	weak
19 59	C	2 ^h 03 E	49 40 0	0	2.3	F516	8-8	F-star prog.	strong
	C								
2 25	C	00 45W +03	15 0	0	5.74	G51	5-5-5	DEC CLAMP STUCK ON AT END OF EXP. #8 { 5355 5379	fine
3 14	A	00 15 E	70° 54'	00	6.31	B9	8-	(ONLY BRIGHT) BS-B4 PROG #9 { 5381 5384 1/2	fine
	B				6.29	B9			
3 27	B	00 01 E	70° 50'	00	6.37	B9	8-8	BS-B4 PROG only bright stars in field #9 { 5385 5388.5	fine
3 51	A	00 00	76° 27'	00	6.29	B9	8-8	" #9 { 5390 5393.5	fine
02 2	B	00 28W	-05 22	00	6.27	B9	8-8	" #9 { 5394 5397.5	fine
0 51	A	00 01 E	-09 01	00	6.01	B9	8-8	" #9 { 5398 5401.5	fine
								FLEXIBLE COUPLING ON GND CAPPING DEVICE PLATE LEFT SNAPPED APART EITHER AT BEGIN OR END OF UNCAP	

79

Date 15 Dec (cont'd)

Observer ^{RC} me

Julian Day

TUES

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28000	HD 47964	6 36.0	+0 36	G40	π 206	13	19°F	01:00 ⁴	01 08	B
27999	HD 51892	06 54.0	+07 27	"	"	"	19°F	01 20 ⁶	01 ^h 31	A
28001	HD 56446	07 ^h 11.9	+06 51	G40	"	"	"	01 41 ⁹	01 ^h 59	B
28002	HD 67725	08 04.2	-11° 3'	"	"	"	20°F	02 30 ⁷	02 43	B
28003	HD 71833	08 ^h 22.4	-20° 37'	"	"	"	19°F	02 ^h 57 ¹⁰	03 ^h 31	"
28004	HD 83650	09 ^h 34.9	-10° 07'	"	"	"	"	03 ^h 47 ²	04 02	13
28005	HD 89449	10 18.3	+19 59	"	"	"	19°F	04 ^h 21 ²	04 25	19
28005 F ₁	focus test in in/out. air	"	"	"	"	"	"	"	"	B.
28006	HD 104337	" 55.7	-19 06	G10	"	92	20°F	05 07 ⁴	06 15	C

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

00 12 E

00 76 E

00 33 W

00 01 E

00 21 E

00 16 E

00 34 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

00 23 E

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

some clouds after 00 30.

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 08	B	00 12 E	+10° 33'	00	5.62	B9	8-8	138-139 #9 { 5402 5405	fine
1 31	A	00 7 E	+07° 23'	0	6.28	B8	8-8	" #9 { 5407 5410.5	fine
1 51	B	00 03 W	+06 45	0	6.42	B9	8-8	" #9 { 5412 5415.5	strong
2 03	B	00 05 E	-11 15	0	6.23	B9	8-8	" #9 { 5416 5419.5	fine
2 12	B	00 25 W	-20° 47	0	6.4	B8	8-8	" #9 { 5422 5426 5429.5	weak
4 02	B	00 16 E	-10° 22	0	6.17	B9	8-8	" field drawn (*)	fine
0 25	A	0 34 E	+19° 40'	0	5.3	F5	15'	STD. VEL.	strong
	B						30/30		what are specimens
6 15	C	00 23 E	-19° 26'	0	5.28	B5	5-5	INTERSTELLAR LINE PROG #8 { 5433 5444	to weak. poor guiding some flexure.

we don't use lantern plates any more. There are unbaked Ilao for focus plates now.

apparently there are no lantern slides for PH-B (also) loaded. as so from test SNAPPED APART AGAIN, PLATE LIKELY

* 1 COUPLING IN CAPPING DEVICE IS DAMAGED.

81

Date Dec 15/16, 1964

Observer F1, 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
28007	HD 212943	22 22.8	+04 12	G40	IIaO	13	21°	18 17	18 28	A	24 W
28008	HD 223311	23 44	-06 56	"	"	"	20°	18 43	19 12	A	47 W
28008F1	In-In/Out-Out									B	
	Operations suspended until 21:30 - T.V. System being tested.										
28008F2	Focus changed from 52 → 51.									B	
28009	HD 19698	3 5.2	+11 30	"	"	"	18°	21 33	21 42	A	0 04 F
28010	HD 19796	3 5.5	+42 01	"	"	"	"	21 52	22 02	A	14 W
28011	HD 21433	03 27.1	+09 02	"	"	"	"	22 12	22 23	B	15 W
28012	HD 23258	3 38.6	+20 37	"	"	"		22 32	22 45	B	26 W
28011 F1	focus lost in in/out/out			"	"	"	18° F			A	
F2	"				"		30° F	Focus	51		
F3	"				"		30° F	Focus	50		

Dome Temp.

Transparency Conditions

Good

Focus

Dome Temp.

Ending Time
EST.

P.R.

Ending Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 28	A	^m 1 ^h 24 W	+04 31	0	5.9	RO	5-5-5	Stdnd. Velocity {sens 9 (7counts) {5450 5457	fine
19 12	A	0 47 W	- 6 35	0	6.3	gK4	5-5-5	Check this starts Dec 5	fine
	B						40/40	Dec reading disagrees, wrong *? (Same focus as previous night.)	center to west
	P						41/40		fine
20 42	A	0 04 E	+11 46'	0	5.89	B9	12-12	B8 - B9	fine
21 02	A	0 14 W	+42 15	1	5.95	B8	12-12	" " nothing large	fine
21 23	B	0 15 W	+ 9 15	0-1	5.59	B8	12-12	" "	fine
21 45	B	0 26 W	20 50	0-1	6.01	B9	12-12	" "	fine
	A						40/40	(Developed)	fine
							40/40	Clouds 22:50	fine
							45/40	Closed up.	fine

83

Don Screening learning & guiding

R

L

MT

Date 16-17 DEC / 64

Observer M. S. E.

- M. S. E.

Julian Day

WED-THURS

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	I	How Angle End
28013	HD 11857	01 51.4	61 12	640	Ilad _{un}	13	35°F	20 23	20 33	B	00 04 51
28014	HD 10293	01 35.6	58 08	"	"	"	35°F	20 50	21 01	A	00 48 58
28015	HD 9138	01 24.9	+05 38	"	"	"	36°F	21 11	21 19	B	01 12 00
28016	HD 19698	03 25.2	+11 30	"	"	"	"	21 34	21 46	A	00 04 11
28017	HD 19736	03 05.5	42 01	"	"	"	"	21 53	22 07	B	00 24 42
28018	HD 21933	03 27.1	+09 02	"	"	"	"	22 13	22 24	A	00 19 01
28019	HD 23258	03 38.6	+20 37	"	"	"	"	22 33	22 44	B	00 38 20
28020	HD 23383	03 39.7	55 37	"	"	"	"	22 52	23 02	A	00 45 00
28021	HD 29587	04 34.5	41 53	"	"	"	"	23 22	00 02	B	00 50 04
28022 F	HD 40574	08 54.6	-01 29	"	"	"	"			A	
	focus test in in/out-out			"	"	"	"			B	

Date 17-18 Dec / 64

Observer C. Alex

Julian 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.
							24°F 10			
28021 F2	Janus Test 2nd/1st. 1st			C40	Ilao	13	24°F			A
T3	Flexure Test			C40	Ilao	13	24°F			B
F4	Janus Test			C40	Ilao	17	24°F			A
F5	Janus Test			C40	Ilao	13	24°F			B
F6	"			"	"	18	"			A
F7	"			"	"	13	"			B
① Observer narrowly escaped injury when step on south pier upon which he was standing broke - PLEASE FIX ② Please fix handle on observing box.										

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

1 30 W

Mund
3hr

3hr W

2hr E

3hr W

3hr W

Dome Temp.

Focus

Dome Temp.

Transparency Conditions *a few clear intervals*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						<i>Opened up ~ 19^h 15^m cloud up 19^h 45^m</i>	
A 1 ^h 30 ^m W	+35°				40/40		Focus OK
B Meridian - outside					30-30		Flexure present
B 3hr W	- Draich					plate broken while developing	
A 3hr W	+35°				40/40	To test effect of slit width on resolution	
B 2hr E	+35°				40/40	To check reproducibility of focus	Focus good
A 3hr W	+35°					7(2) v. slightly et. in ~ 4000 Å	
B 3hr W	35					7(4) v. more et. than (2) ? (Cn)	
						75 perfect	
					30/30		sl. center to red.
					40/40		sl. center to red
							is violet

CONTINUED

Date 17-18 Dec/64

Date 17-18 Dec/64

Observer... Hb-Mse

..Julian Day

[illegible]

Dome Temp.

grass
2 full moon

0150 $\overrightarrow{AC}$

88

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 01	A	00 48 _W	+15 52 0	5.46	B8	8-8	B8-139	#6 { 5533 5535	fine
01 27	B	00 25W	+04 32 0	6.44	B9	8-8	" developed	#6 { 5535 5537 *1	
02 05	A	00 52W	-20 58 0	5.3	B8	8-8	" <u>HELD UP BY CLOUDS</u>	#6 { 5537 5538.5	good exposure small part of spectrum missing
02 30 - closed up									
*1 - plate 28023 in wash in labroom.									

89

Date Dec 18-19, 1964

Observer *FL ME*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
28025	HD 217312	^h 22 ^m 54.8	^s 162 32	G10	ThOb	13	18°	17 58 ³⁰	21 02	C	339 W
28026	4 Per	1 37.4	+50 11	"	"	9	16°	21 26 ¹⁰	21 46	B	140 W
28027	BD 59° 612	3 07.3	+59 33	G40	"	17	15°	22 09 ¹¹	23 30	A	152 W
	BD 37 1282	5 35.9	+37 56	"	"	"	15°			B	
28028	HD 42259	6 04.6	-05 03	"	"	"	15°	00:08 ³⁰	01:07 ³⁹	B	035 W
28029	HD 50091	6 46.5	-13 07	"	"	"	14°	01:19 ²⁰	02:37	A	123 W
28030	HD 71833	8 24.4	-20 37	"	"	"	15°	02:54	03:33	B	040 W
28030F	focus test in in focus out										
28030 F2											

Dome Temp.

Focus

Dome Temp.

Dome Temp.

EST CLOCK SEEMS TO
BE $\sim 2^m$ SLOW.
FL.

Transparency Conditions Good-Fair-Full Noon!

20:30 light cloud

03:10 cloud

98

[illegible]

Date 3-4 JAN/65
SUN - MON

Observer

Ad -
more

Julian Day

[illegible]

Dome Temp.

Transparency Conditions *yes*

92

[illegible]

Date 4-5 Jan/65

Observer..... *Tral*

Julian Day

MON - THURS

[illegible]

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

CO 12,

Dome Temp.

Transparency Conditions "variable cloudiness" 94

[illegible]

95

Date 5-6 JAN/65
TUES - WEDObserver MSE - MR

Julian 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.
28038 ⁴	HD 44637	06 17.7	+15 09	G140	MaD6	1.3	32°F	22 29 ¹⁴	22 57	A
28038 ⁵	HD 45314	06 21.6	+14 57	"	"	"	"	23 04	23 18	B
28038 ⁶	HD 50083	06 46.5	+05 13	"	"	"	31°F	23 32	23 46	A
28037	HD 52721	06 57.2	-11 09	"	"	"	"	00 03 ⁸	00 19	B
28038	HD 65176	07 52.4	-01 20	"	"	"	29°F	01 01 ⁵²	02 45	A
28039	HD 65875	07 55.8	-02 36	"	"	"	"	"	"	B
28040 28039	HD 92588	10 36.3	-01 13	"	"	"	27°F	02 57 ¹⁵	03 27	B
28040	HD 83650	09 34.9	-10 07	"	"	"	"	03 42 ⁶	03 54	A
28041	HD 103095	11 47.2	+38 26	"	"	"	"	04 06 ⁸	04 22	B
28042	HD 107328	12 15.3	+03 53	"	"	"	26°F	04 54 ⁵	05 04	A
28042 F ₁	focus test in in/out out			"	FaD(ce)	"	"			A
A MORE EXTENSIVE PROGRAM IS NEEDED										

Dome Temp.

Focus

Dome Temp.

How Angle
End00 39_E00 24_E00 20_E00 03_E01 35_W00 27_E01 00_W00 38_E00 32_E

For -

Dome Temp.

Transparency Conditions *good*

Focus

0100 A few clouds

Dome Temp.

0500 More clouds.

Ending Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
22 57	A	0.0 39 _E	+15 09	0-1	7.7	B3e	6-6-6	Hol. Be P Log	#8 { ⁽¹⁰⁾ 5758 5768	strong
23 18	B	00 24 _E	+14 56	1	7.1	B2ne	6-6-6	"	#7 { ⁽⁴⁾ 5769 5773	fine
23 46	A	00 20 _E	+05 09	1	6.8	B2e	6-6-6	"	#7 { ⁽⁴⁾ 5774 5778	gushing?
00 19	B	00 03 _E	-11 15	1	6.6	B3e	6-12	"	#7 { ⁽⁴⁾ 5779 5783	gushing?
02 45	A	01 35 _W	-01 31	1	8.1	B5ne	6-6-6	"	#8 { ⁽¹⁰⁾ 5786 5796	fine
	B				6.4	B2e		"	#6 { ⁽²⁾	
03 27	B	01 27 _E	-01 33	1	7.4	K.1	6-6-6	STD. VEL.	#7 { ⁽¹⁰⁾ 5798 5808	fine
03 54	A	01 00 _W	-10 24	0	6.7	B9	9-9	B8-B9	#6 { ⁽²⁾ 5809 5811	fine
04 22	B	00 38 _E	38 00	1	7.3	G5	6-6-6	STD. VEL.	#7 { ⁽¹⁰⁾ 5812 5822	fine
05 04	A	00 30 _E	+03 29	1	6.1	K1	6-6-0	"	#6 { ⁽⁴⁾ 5823 5827	fine
	A						50/50			at bottom board

FOR THE LATTER PORTION OF 2nd HALF!!!

PH (G40)
B LOADED IN N. PIER.

97

Date 6-7 JAN/65
WED - TH WRSObserver L. R. C.
M. S.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
28043	HD 2789	0 26.3	66 36	G40	Ilao6	17	34°F	17 46	19 24	B	01 42W
28044	⁶ PER.5 HD 10516	01 37.4	50 "	G10	Ilao6	9XL	30°F	19 40	20 02	C	01 09W
28044 F	focus test in in/out out			"	"	9				C	
28045	HD 21933	03 27.1	09 02	G40	"	13	"	20 43	20 50	B	00 08W
28046	HD 23258	03 38.6	20 37	"	"	"	"	21 00	21 07	A	00 13W
28047	HD 23552	03 41.0	50 26	"	"	"	"	21 14	21 21	B	00 23W
28048	HD 23594	03 41.3	56 49	"	"	"				A	
	REQUIRE FIELD DIAGRAM FOR HD 23594										
28048	HD 30122	04 39.7	123 27	"	"	"		22 06	22 15	A	00 26W
28049	HD 31373	04 50.2	114 54	"	"	"	28°F	22 23	22 37	A	0 32W
28050 ⁴⁶	HD 33647	05 06.6	00 24	"	"	"	29°F	23 34	23 57	B	01 36W
28051 ⁰	HD 47431	06 33.5	14 47	"	"	"	"	00 08	00 22	A	00 34W
28052 ¹	HD 53929	07 01.8	105 04	"	"	"	"	00 46	01 02	B	00 47W
28053	HD 61787	07 36.7	-27° 42	"	"	"	28°F			A	
28053 ⁴⁷	HD 63655	07 44.9	-13° 6	"	"	"	28°F	01 30	01 46	A	00 48W
28053 ⁴⁸	HD 71906	08 24.8	37 36	"	"	"	27°F	02 00	02 24	B	00 52W

Dome Temp. 34°F

Focus

Dome Temp.

Transparency Conditions

Pos - l. cloud overhead
 Cloud over entire W. horizon.
 - general haze all evening

98

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 24	B 01	42W	66 59	1	8.61	B2e	6-6.6	cn - Be	(2) { 5829 #8 { 5849 29 5850 #6 { 5870 fine fine guiding l. weak center to red
0 02	C 01	09W	50 31	01	3.95	Bop	5-5-5	Spec. FOR G10	
							30/30		
6 10	B 00	08W	09 15	01	5.59	B8	9-9	B8 B9	" { 5871 6 { 5873 fine strong
1 07	A 00	13W	20 49	01	6.01	B9	9-9	" 100% out of focus FIELD FLATTENER NOT IN POS	(2) { 5874 6 { 5876 out of focus out of focus
1 21	B 00	23	50 39	1	5.87	B8	9-9	" Flare on plate along spectrum	(2) { 5877 #6 { 5879 fine drop center
					6.46	B9		"	(2) { 5880 #6 { 5882 strong out of focus
1 15	A 00	20W	23 34	1	6.72	B8	9-9	" * Comp. messy!	(2) { 5880 #6 { 5882 strong out of focus
2 37	A 00	32W	15 20	1	5.69	B8	9-9	" some clouds 2300	(2) { 5883 #6 { 5885 milling
3 57	B 01	36W	40 27	0	6.56	B9	9-9	"	#6 { 5886 #6 { 5888 fine
4 22	A 00	34	+4° 47	0	6.53	B9	9-9	" * Comp. messy. Plate upside down? No!	(2) { 5884 #6 { 5891 fine
1 12	B 00	47	+40 58	1	5.90	B8	9-9	" * Comp. very messy. Plate upside down? No!	(2) { 5892 #6 { 5894 strong
					6.5	B8		"	#6 { 5895 #6 { 5897 * No immediate explanation.
1 46	A 00	48W	-13 14	0-1	6.10	B9	9-9	" Tests show that field flattener	(2) { 5895 #6 { 5897 not advanced on plate upside down give even worse spectra
2 24	B 00	52W	37 24	0	6.04	B9	9-9	"	#6 { 5898 #6 { 5900 fine fine

Date *cont'd*

Observer.

Julian Day

[illegible]

Date 7 JAN 1965

Observer *Myre*

Julian 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
28055 F ₁	test - full aperture			G40	IIaO(u)	13L	32°F			A	field
28055 F ₂	"	"	"	"	"	13L	"			"	"
28055 F ₃	focus test in in/out out			"	IIaOb	13	31°F			A	
28055 F ₄	"	"		"	"	13				B	
28055 F ₅	"	"		G10	"	9	"			A	modified
28055 F ₆	"	"		"	"	9				"	
- adjusted arc length prior to tests - 9 IIaOb in n pier for G40 - no IIaOb for G40 - 20 IIaOb for G10 in n pier - left instrument w. G10 in pos'n											
28055 F ₇	focus test in in/out out			G10	IIaOb	9	32°F			A	

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
A	- field flattener not in pos.				18	similar to # 28046	
"	- " " in pos, ^{plate} upside down				18	barely visible, blurring	
A					25/25	sl c to s	
B					25/25	" "	
A	modified * (test focus consistency)				30/30	sl c to s	
"					30/30	" "	
						* Front holding curved pieces installed.	
						change focus on G10: setting from 0.2 to 0.1	
A					30/30		

Date Jan 9-10, 1965 Sat-Sun Observer FL, V- Julian Day 174.5

[illegible]

Date. JAN 10-11/65 -
SUN - MON

Observer Hd-(Hr)
gpc

Julian 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.
2805 ⁶ 7	HD 10516 p PERS	01 37.4	50 11	G10	IIaD16	9XL	24°F	17 43 ²⁵	18 33	A
2805 ⁷ 8	HD 23552 BD+54°398	01 45.8	+54 51	G40	IIaD5	13	21°F	19 00 ⁴⁵	20 30	B
2805 ⁸ 9	HD 23552	03 41.0	+50 26	G40	IIaD6	13	21°F	20 35 ⁸	20 48	A
28060	HD 23552	03 41.8	68 12	G40	IIaD6	13	21°F	20 55		B

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. ... 25° F

Focus

Dome Temp.

Transparency Conditions

- excellent at start
- extensive haze from 5 ~ 1900
- haze cleared by 2000, ~~partly cleared~~

106

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
18 33	A	E 5 ^m	50 32	0.1	3.95	Bot	5-5.4	SPECIAL FOR G10	(30) 5924 #6 { 5954	fine
19 30	B	W 1 ^h 44 ^m	55 10	0	8.44	Bope	6-6.6	On Be-Phay =	(30) 5955 #9 { 5985	fine
0 48	A	00 06 w	50 38	0	5.87	B8	9-9	B8-B9 PROG	(2) 5985 #6 { 5988	fine
	B		68 25	0	6.28	B8	9-	B8-B9 PROG <u>clouds</u>	(2) 5988 #6 { 5990	
- GROUND WIRE FOR CONTROL BOX IS <u>LOOSE</u>										

107

Date Jan 12-13, 1969; Tue-Wed Observer FL, Mse; - 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.	How Angle End
28058 _a	HD 222847	23 39	-18 52	G40	IIaD/b	13	24°F	17 52 ¹⁵	18 18	B	0 06E
28059	HD 11291	01 45.8	+50 18	"	"		24	18 31 ⁵	18 40	B	00 02W
28060	HD 23950	3 44.0	+21 57	G40	IIaD/b	13	24°F	18 50 ¹⁰	19 09	B	01 27E
28061	HD 23363	03 39.5	-01 29	"	"	"	1	19 15 ⁵	19 24	A	01 06E
28062	HD 23324	3 39.2	+24 32	"	"	"	"	"	"	B	"
28061 F ₁				G40	"	9	24°F			A	
F ₂	focus tube in. in/out/out			G40	"	9	"			B	
F ₃				G40	"	9	"			C	
28062	HD 36665	05 28.3	-27 59	G40	IIaD/b	17	"	21 15 ¹⁴	21 42	B	00 37E
28063	BD +37° 1292	5 35.9	+37 56	"	"	"	23°F	21 48 ³⁶	23 00	A	00 32W
28064	HD 50896	06 50.0	-23 48	"	"	13	"	23 16	23 45	B	00 25W

Date 13-14 JAN/65

Date 13-14 JAN/65 Observer L

Observer. L

Julian Day

WED - THURS

Myse

[illegible]

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

142W

111

Date *Thursday Jan 14 1965* Observer *Mac* *Ch* - *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.
28064	<i>Focus Test In-2/flat-1st</i>			G40	<i>IIaOb</i>		0°F			B
28065	HD 2789	0 26.3	+66 36	G40	<i>IIaOb</i>	17	-1°F	18 50	19 51	B
28066	BD 59° 612	03 07.3	+59 33	G40	<i>IIaOb</i>	17	-5°F	20 44	20 23 02	B
28067	HD 55439	7 07.8	-9 40	G40	<i>IIaOb</i>	17	-6°F	23 31	00 59	A
28068	HR 3019 HD 63112	7 42.1	-12 26	G40	<i>IIaOb</i>	13	-6°F	01 26	01 46	B
28069	HR 3042 HD 63655	7 44.9	-13 6	G40	<i>IIaOb</i>	13	-6°F	01 52	02 17	A
28070	HR 3185 HD 67725	8 4.2	-11 3	G40	<i>IIaOb</i>	13	-7°F	02 24	03 01	B
28071	HR 3201 HD 68099	8 5.9	+10 7	G40	<i>IIaOb</i>	13	-6°F	03 12	03 29	A
28072	HR 3458 HD 74393	8 38.7	+4 42	G40	<i>IIaOb</i>	13	-6°F	03 35	04 05	B
28073	HR 3846 HD 23650	9 34.9	-10 07	G40	<i>IIaOb</i>	13	-6°F	04 19	05 15	A
28074	HD 114447	13 05.5	+39 02	G40	<i>IIaOb</i>	15	-6°F	05 26	05 50	B
28073T	<i>Calibrated Star Wedge</i>									
28074T	<i>Focus blew on slitters</i>									

*Exposed plates in room
Unexposed plates in Uprae*

Dome Temp. 0°F

Focus

Dome Temp.

Transparency Conditions *Excellent*
Bright moon

0500 L 'seeing' is extremely poor.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	B						25/25		
9 51	B	2 ^L 38°W 67	00	0 ⁻	8.61	B2e	6-12	Cn - Be <i>slit length is too long</i>	<i>center to vwh</i>
3 02	B	3 ^L 09°W 459	48	0 ⁻	9.33	B1: I, pane	6-6-6	Cn - Be <i>was not changed after</i>	<i>#9 { 6117 weak guiding.</i>
00 59	A	01 09W -9	47	0	8.58	B3e	6-6-6	Cn - Be <i>excursing, dip tended because telescope was at 5. pane, #9</i>	<i>#9 { 6131 fine.</i>
01 46	B	01 22W -12	34	0 ⁻	6.37	B9	9-9	B8 - B9	<i>#9 { 6163 l wh.</i>
2 17	A	01 50W -13	15	0	6.16	B9	9-9	B8 - B9	<i>#6 { 6194 fine.</i>
3 01	B	02 15W -11	15	0	6.23	B9	9-9	B8 - B9	<i>#6 { 6196 fine.</i>
3 29	A	02 40W +9	57	0 ⁻	6.05	B9	9-9	B8 - B9	<i>#6 { 6197 fine.</i>
4 05	B	02 43W +04	28	0 ⁻	6.28	B8	9-9	B2 - B5	<i>#6 { 6200 l wh.</i>
5 11	A	02 59W -10	25	0 ⁻	6.17	B9	9-9	B2 - B3	<i>#6 { 6203 guiding?</i>
5 50	B	02 00W +38	42	0 ⁻	6.3	FO	9-9		<i>#6 { 6206 fine.</i>
								0530 CII↑	<i>#6 { 6208 fine.</i>
									<i>#6 { 6209 fine.</i>
									<i>#6 { 6211 fine.</i>
									<i>#6 { 6212 equinox.</i>
									<i>#6 { 6214 guiding.</i>

- 23 15: AID DEC SLOW MOTION.

*HAD DIFFICULTY SETTING TELESCOPE BECAUSE DEC. SM. WOULD NOT ENGAGE. FINALLY SET TELESCOPE BY PUSHING ON SPECTROGRAPH.

- FOUND TELESCOPE FAR OUT OF FOCUS. NECESSARY TO POINT IT BRIGHT STAR TO CORRECT. ~ 1/2 HR

113 - PH B (G40) IN 'SCOPE DARK SLIDE. ~~1st~~ ~~2nd~~ ~~3rd~~ ~~4th~~ ~~5th~~ ~~6th~~ ~~7th~~ ~~8th~~ ~~9th~~ ~~10th~~ ~~11th~~ ~~12th~~ ~~13th~~ ~~14th~~ ~~15th~~ ~~16th~~ ~~17th~~ ~~18th~~ ~~19th~~ ~~20th~~ ~~21st~~ ~~22nd~~ ~~23rd~~ ~~24th~~ ~~25th~~ ~~26th~~ ~~27th~~ ~~28th~~ ~~29th~~ ~~30th~~ ~~31st~~

Date Fri/Sat Jan 15/16 Observer V + V¹B Julian 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.
28075	HD 11291	01 45.8	+50 18	G40	Emob	15?	+10°F	18 ^h 55 ^m 19 ^s	19 32	A
28076	Focus									B
	Jan 16/65 Hdr Found slit set at 9 - changed to 13									
28075 F ₁	Focus test	in-in/out-out	G40	Emob	13	-4°F				A
28075 F ₂	" "	" "	" "	" "	" "	" "				A
28075 F ₃	" "	" "	" "	" "	" "	" "				A
F ₄	" "	" "	" "	" "	" "	13	+20°F			B
F ₅	" "	" "	" "	" "	" "	13	+20°F			A

Dome Temp. +10 F

Transparency Conditions thick Cirrus

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1932	13 ^h 13 ^m	50° 30'	0	5.62 B9	6+6+6	B8 B9 " N.B. Dec. 1. contour, strong	strong
						Stopped, clouds	
1513							
A	from setting changed					30/30 from 50 to 47	sl c to vi
A						30/30 from setting 48	more c to vi
A						30/30 " " 49	most c to vi
3						30/30 44 setting 46 might be best.	detector
A						30/30 45 — or even lower value	good.

Date last Jan 16-17 1965 Observer Cn - RC Julian 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
28076	BD+50° 360	01 42.2	+50° 37'	C40	Thob	21	0°	18 30 ⁶⁰	20 30	B	02 12W
28077	BD+37° 1292	05 35.9	+37 56	"	"	17	-3°F	20 40 ⁵⁰	22 20	A	00 08W
28078	BD+25° 970	05 40.2	+25 30	"	"	17	-4°F	22 27 ⁴⁴	23 55	B	01 39W
28079	HD38 708	05 42.6	+29 06	"	"	17	-6°F	00 00 ²³	00 46	A	02 18W
28080	BD+44° 1898	09 36.0	+44° 18'	"	"	"	-7°F	01 32	03 44	S	01 34W
28080	BD 44° 2112	11 33.2	+44° 39'	"	"	"	-8°F	04 ⁵⁵ 12	06 02	A	1 55W
28080T	Calibration Sky Wedge										
Jan 18, 1964 Dome temp +18° E											
28080F1	Focus Test			C40	Thob	13	18			A	
F2	"			"	"	13	18			B	
F3				C10		9	17			A	
F4											

Dome Temp.
Focus 45
Dome Temp.

Dome Temp.

Transparency Conditions

Transparency Conditions *Excellent* *last full moon*, 11.61:

Ending Time
E.S.T.

Date..... 07/14 Jan 18-19 1965.

Observer vdB-SK-MT Julian Day

Mae

Julian Day

[illegible]

Dome Temp.
 Focus
 Dome Temp.

CO₂ in }
 N=700 } 12:30

Transparency Conditions

Full moon
 Night dark but
 thin blowing snow
 ptm. after 1900

118

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 12 ^m E	0° 27'	6"	4-3	B9II		EXT. ST. } NOT ptm	
0 ^h 6 ^m W		6"	"	"		" }	
1 ^h 17 ^m W		5"	5.6	K3II		I OK	
1 ^h 30		5"	"	"		I ↓	
2 ^h 34 ^m + 46"		5"	5.0	Fo Ia		I	
1 ^h 11 ^m + 121 W		5"	1.9	F5 Ib		I a little hazy but uniform	
2 ^h 14 ^m + 23.5 W + 2 ^h 35 ^m		5"	3.3	K3 Ib		I { haze, high light columns	
2 ^h 17 ^m 2 ^h 30		5"	3.8	F5 II		I { haze, high light columns	
						I { haze, high light columns	
						Cloudy - " Finis	
						KAFS 3MI focus at #47 Shy light	
00 23 E -10 22	0	6.17	B9	6-6-6	B8-B9	56421 56423 56424	fine
0 ^h 0 ^m -01 23	0	7.4	K1	6-6-6	Std. Vel.	#8 { 56424 + 56425	fine
3 ^h 46 ^m W 44 23	0	9.59	F4	6-12	KAFS	#9 { 56445 56490	fine

119

Date 21-22 JAN/65
TH-FR

Observer R.C., vB

H₀ Julian 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
355T 1	✓ And	00 47.8	+40° 53'			T=10'		18 30	19 00		1 24W
2	HD 9927	01 35.7	+48 26			T=10		19 10	19 26		1 20W
3	✓ And					T=10		19 31	19 50		2 30W
4	HD 9927					T=10		19 53	20 25		
5	✓ And					T=10		20 30	19 46		3 30W
6	HD 9927					T=10		20 50	21 08		03 01W
7	✓ And	02				T=10		21 25	21 42		04 18W
8	HD 9927	01 35.7	48 26					21 50	22 09		04 02W
9	"	"	"					22 11	22 27		04 23W
10	134 Tau	05 ^h 47.4	+12° 38'			T=10		22 39	22 55		05 39E
11	K Gem	07 ^h 42.2	+24° 29'			T=10		23 ^h 03 ^m	23 ^h 23 ^m		05 53E
12	HR 1861	05 30.8	-01 37			T=10		23 30	23 50		01 48W
28084	HD 63112	07 42.1	-12 26	G40	TrOb	13	20°F	00 48	00 58	B	01 01W
28085	HD 63655	07 44.9	-13 06	"	"	"	"	01 12	01 22	A	01 20W
28086	HD 67725	08 04.2	-11 03	"	"	"	"	01 28	01 40	B	01 21W
28087	HD 68099	08 05.9	+10 07	"	TrOb	13	20°F	01 45	01 58	A	1 36W

Dome Temp.

Focus

Dome Temp.

Dome Temp. 25°F

Focus 49 1/2

Dome Temp.

17 30 CO₂ 700 V

Transparency Conditions Fine

Windy

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 20	1° 20 W	-1° 59 W	1	4.53	B5			
19 26	1° 20 W	-1° 36 W	1	3.56	K3			
19 50	2° 30 W	2° 49 W	1					
20 25		-2° 37 W	1				done 1 1/2 times	
19 46	3° 30 W	3° 46 W	0					
21 08	03 01 W	3° 19 W	0					
21 42	04 28 W	04° 42 W	0		A 37			
22 09	04 02 W	04° 21 W	0		A 37			
22 27	04 23 W	04° 39 W	0					
22 55	04 39 W	-0° 55 W	0-1	4.90	B9	V		
23 21	0° 53 E	0° 31 E	0-1	3.57	G8	III		
23 50	01 48 W	02 08		5.35	B1	E		
00 57	01 01 W	-12 34	1-2	6.37	B9	9-9	Ran out of dry ice	
01 22	01 22 W	-13 14	1	6.10	B9	9-9	BB - B9	lark
01 40	01 21 W	-11 14	1-2	6.23	B9	9-9	B8 - B9	quadrant
01 58	1 36 W	+09 57	2	6.05	B9	9-9	"	lark

EXPOSURE METER
IS COUNTING (?) MUCH
TOO SLOWLY

6480
6481
6481
6481

lark
quadrant
lark
quadrant
lark
quadrant

Date 22 Jan, 1965

Observer... Hb/Mse

Julian Day

Dome Temp.

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.H.	Hour Angle End
28088	HD 71906	08 24.8	37 36	G40	Π aOb	13	20°F	02 08	02 20	8	01 39J
28089	HD 74393	08 38.7	+04 42	G40	"	"	20°F	02 25	02 40	A	1 46W
28090	HD 74604	08 39.8	67 05	G40	Π aOb	.3	20°F	02 46	03 02	B	1 58W
28091	HR 8774 HD 82327	09 26.2	+74 47	G40	Π aOb	13	20°F	03 08	03 20	A	1 41W
28092	HD 93427	10 42.1	+65 40	G40	Π aOb	13	20°F	03 31	03 38 ₃₀	B	0 40W
28093	HD 92728	10 37.4	+57 43	G40	Π aOb	13	22°F	03 44	03 51	A	0 58W
28094	HD 96314	11 01.1 -26 45	-26 45	G40	Π aOb	13	21°F	04 02	04 22	F	01 07W
28095	HD 107348	12 15.4	-21 39	G40	Π aOb	13	22°F	04 34	04 52	A	0 22W
28096	HD 114447	13 05.5	39 02	G40	Π aOb	13	22°F	05 00 ₃₀	05 17 ₃₀	B	00 03 E
28097	HD 115612	13 13.2	+68 56	G40	Π aOb	13	22°F	05 22	05 39	A	00 13 W
28098	^{136 849} HD 143187	15 17.8	33 17	G40	Π aOb	13	21°F	05 59	06 12	B	02 40E
28099	HD 133529	14 59.9	-25 24	G40	ΠaOb	13				A	
28099	HD 134946	15 07.5	-23 38	G40	ΠaOb	13				A	
Closed up 0620 — clouds											
28098F	Form Test.						30/30	21°F		A	
28098T, 28098T ₂	Calibration obj Wedge				developed with plates # 28654-6						
					" " " " # 28087-98F						

Dome Temp.

Transparency Conditions

GOOD

Focus

WINDY

Dome Temp.

0200 EST. — THIN CLOUD FROM WEST

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 20	B	01 39W	37 24	2-3	6.04	B9	9-9	B8-B9 Cloud moving in	guiding
02 40	A	1 46W	+04 28	2	6.28	B8	9-9	"	weak guiding
03 02	B	1 58W	+66 52	1	6.10	B8	9-9	"	fine
03 20	A	1 41W	+74 28	1-2	6.36	B9	9-9	"	fine
03 32	B	0 40W	+65 19	0-1	6.22	B9	9-9	"	fine
03 51	A	0 58W	57 24	1	5.77	B9	9-9	"	guiding
04 12	F	01 07W	-27 04	0-1	5.64	B8	9-9	" (d+e)	wrong star? weak
04 52	A	0 22W	-22 00	0-1	5.25	B8	9-9	" (d+e)	fine
05 10	B	00 03 E	+38 42	0-1	6.3	F0	9-9	"	another star? fine
05 39	A	00 13 W	+68 35	0-1	6.09	B9	9-9	B8-B9 (d+e)	guiding
06 13	B	02 40 ^E	+33 05	0-1	5.34	B9	9-9	" (d+e) clouds	guiding
					7.1	B8		"	
					6.6	B9		"	
								EXP. MTR NOT FUNCTIONING.	cert. to red.
								CROSSHAIR ILLUM. ON VISITOR'S	
								EYEPIECE WOULD BE HELPFUL.	

Date. 23 JAN/65

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.
	HD 23258									
28098 F ₂	four test in-in/out-out			Gr 40	Il a 0.1		28°F			C

Dome Temp.

Transparency Conditions

124

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						(2) { 6495 0 { 6897	
						DOME APPARENTLY FROZEN -	
						30/30 WILL NOT TURN	sl centre to read

Date 28/29 JAN/65

THURS - FRI

Observer

Can

B SK -

Hb

Julian Day

[illegible]

Dome Temp.

10245' CLOUDS!!

126

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
9 42	A	2	15 _w 50 33	0-1	3.95	Bop	5-5-5	SPEC. FOR G10	DEVELOPED	30 { 6502 #6 { 6532
	A		Focus 48				30/30		DEVELOPED	Val. etc. etc.
03	B	03 05W	59 47	0-1	9.33	BIV pnd	6-6-6	On BE PROG	Field checks. Had trouble centering in west dome. Had trouble turning	130 { 6533 #9 { 6563 #9 { 6563 #9 { 6593 #9 { 6596 #9 { 6626 #9 { 6628 #9 { 6650 #9 { 6641
02	C	02 04W	+28 03	0	8.40	Ble III	6-6-6	" Focus 47		
02	B	02 54 _w	59 08	0	8.25	B3 pnd	6-6-6	On BE		
01 49	A	2 54 _w	-9 46	0	8.58	B3 pnd	6-6-6	" too far west		
02 26	C	2 39 _w	+27 39	0	6.14	B.9	9-9	B8-B9 focus 46		
02 41	B		+9 57	1	6.05	B.9	6-	" THICK CLOUDS!		
							27/30			weak star spectrum no center comparison
								-rechargeable flashlight in warming sun		
								-UPPER BUTTON (W) FOR DOME TURNING, MAKING POOR CONTACT		
								-DOME DIFFICULT TO TURNABLE EAST		
								-VISITORS' EYEPIECE ILLUM... (LAMP APPEARS OK)		

127

PH A+C LOADED IN TRIPIER

Date 29/30 JAN/65 FRI/SAT Observer Fl. mel - MT Julian 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
28105	HD 105 ¹⁶ φ Per	1 ^h 37. ^m 4	+50° 11'	G10	IIaob	9	-5°F	18 ^h 51 ^m 15 ^s	19 ^h 21 ^m	A	1 58W
356T 1	HD 23180	03 ^h 42. ^m 0	+32° 10'		T=10			19 50	20 ^h 19 ^m		0 26W
356T 2	ε Tau	04 ^h 26. ^m 5	+19° 06'		T=10			20 28	21 00		21W
356T 3	HD 23180	03 ^h 42.0	+32° 10'		T=10			21 09	21 20		1 ^h 48W
356T 4	ε Tau	04 ^h 26.5	+19° 06'		T=10			21 33	21 47		1 ^h 23W
356T 5	HD 23180	03 ^h 42.0	+32° 10'		T=10			21 58	22 11		2 36W
356T 6	ε Tau							22 21	22 38		2 14W
356T 7	HD 23180							23 55	23 07		3 ^h 33W
356T 8	ε Tau						2°F	23 17	23 44		3 10W
356T 9	ε Tau							23 52	00 02		2 40
356T 10	HD 23180				T=10		1°F	00 10	00 20		4 48
								01 53			
28105	BD +45° 1859	10^h 38.^m3	+45° 12'	G40	IIaob	13	-1°F	01 53	04 42	C	2 30W
28106	HD 114762	13 ^h 07. ^m 5	+18° 02'	"	"	"	-3°	04 55	05 56	A	1 ^h 08W
28106 F	FOCUS TEST			"	"						

Dome Temp. 0° Focus 46 miles

Transparency Conditions *Good* *Clouds on Southern Horizon*

00 00757 6000.

128

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 ^h 21 ^m	A	1 ^h 58 ^m W	+50° 31'	0	3.95	BOP	S-5-5	Special G10	Counter not used
20 ^h 19 ^m		0 26W	0 ^h 56W	0	3.82	B1 III			gimbal?
2 00		21W	0 ^h 7 ^m W	0+	3.54	KO III			
21 20		1 ^h 46W	1 ^h 57 ^m W	0+	3.82	B1 III			
21 49		1 ^h 25 ^m W	1 ^h 42 ^m W	0					
22 11		2 36W	2 48W	0					
22 38		2 14W	2 31						
23 07		3 ^h 33 ^m W	3 45	0+					
23 44		3 10W	3 37	0+					
00 02		3 45	3 56	0+					
00 20		4 04	4 58	0+					
		4 48							
01 55	C	2 ^h 20 ^m W	+44° 52'	0+	9.59	F4	6-6-6	KAF's Binary	#9 6652
05 56	A	1 ^h 08W	+17 43	0+	8.2	F7	6-6-6	Std. Velocity	#9 { 6683 6728
							30/30	Accidentally uncapped,	badly fogged very faint fogged good exposure centre to wicket

Date 30/31 Jan '65 Sol/Sun Observer 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 Est
28107F	Focus Test			G40	IIaOb	13	60F			B	
28107	HR 1221 HD 24769	03 51.2	+22 54	G40	IIaOb	13	60F	18 ^h 36	18 44.5	A	30 486
28108	HR 1234 HD 25152	03 54.7	+36 44	G40	IIaOb	13	60F	18 54	19 10	B	30 265
28109	HR 1328 HD 27026	04 11.2	+41 54	G40	IIaOb	13	50F	19 18	19 40	A	30 125
28110	HR 1371 HD 27650	04 16.6	+42 12	G40	IIaOb	13	50	19 45	20 02	C	30 144
28111	HR 1377 HD 27722	04 18.6	+33 54	G40	IIaOb	13	55F	20 08	20 31	A	30 211
28112	HR 1424 HD 28503	04 24.6	+39 48								
28112	HR 1512 HD 30122	04 39.7	+23 27	G40	IIaOb	13	5F	20 41	21 17	B	30 50W
28113	HR 1442 HD 28817	04 27.8	+17 48	G40	IIaOb	13	50F	21 23	21 46	C	31 38W
28114	HR 1576 HD 31373	04 50.2	+14 54	G40	IIaOb	13	40F	21 51	22 03	A	31 21W
28115	HR 1600 HD 31764	04 53.4	+14 24	G40	IIaOb	13	40F	22 ^h 09 ^m	22 31	C	31 52W
28116	HR 1402 HD 28217	04 32.0	+10 59	G40	IIaOb	13	40F	22 37	23 20	B	32 31W
28117											
28118											
28119											
28120											
28121											
28122											
28123											
28124											
28125											
28126											
28127											
28128											
28129											
28130											
28131											
28132											
28133											
28134											
28135											
28136											
28137											
28138											
28139											
28140											
28141											
28142											
28143											
28144											
28145											
28146											
28147											
28148											
28149											
28150											
28151											
28152											
28153											
28154											
28155											
28156											
28157											
28158											
28159											
28160											
28161											
28162											
28163											
28164											
28165											
28166											
28167											
28168											
28169											
28170											
28171											
28172											
28173											
28174											
28175											
28176											
28177											
28178											
28179											
28180											
28181											
28182											
28183											
28184											
28185											
28186											
28187											
28188											
28189											
28190											
28191											
28192											
28193											
28194											
28195											
28196											
28197											
28198											
28199											
28200											

Dome Temp.

Focus

Dome Temp.

Hour Angle
Est

Dome Temp. 60°F (yes)

Focus 47.5

Dome Temp.

Transparency Conditions fair (light As in south)
scattered CI

2030: completely overcast with light cloud.

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	B						30/30		at centre at night	
8 44.5	A	00 48E +23° 01'		1	5.96	B9	6-6-6	B8-B9	semib { 6732 6734	fine
19 10	B	00 26E +36 55		1	6.31	B9	6-6-6	"	" { 6734 6736	fine
19 40	A	00 12E +42 06		1	6.07	B8	6-6-6	" CLOUDS INTERFERING	" { 6737 6739	good
20 02	C	00 04W +42 23		0	5.96	B9	6-6-6	" HELD UP BY CLOUDS MAY BE MARKED "11"	" { 6739 6741	fine
20 21	A	00 32W +34 05		0-1	5.53	B8	6-6-6	" MARKED "2.811"	" { 6742 6744	fine
					6.21	B8		Close Double star! - approx. same magnitude and colour - separated by 1.5"		fine
21 17	B	00 56W +23° 35'		0	6.12	B8	6-6-6	B8-B9	semib { 6744 6746	fine
	C	01 38W +17 58		0-1	6.19	B8	6-6-6	" Close double 2559 Tau 3" Just resolved in good eq. scope	semib { 6746 6748	fine
22 02	A	01 32W +14° 58'		0-1	5.89	B8	6-6-6	"	semib { 6748 6750	fine
22 31	C	01 57W +14 29		0-1	5.93	B8	6-6-6	"	semib { 6750 6752	fine
23 20	B	03 18W +11° 11'		0	5.79	B8	6-6-6	" Held up by clouds	semib { 6752 6754	fine
								SNOW closed up 2330		
								PH A, B and C loaded in North pier		

Date 31 Jan/65

Observer H. d. H. r. Julian Day

M. s. e.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28116 F ₁	focus test in-in/out-out	G 40	II a Ob	13	17°F					A
28116 F ₂	focus test in-in/out-out	G 10	II a Ob	9	17°F					A
	all should be regapped									
28117	φ PER HD 10516	01	37.4 50 11	G 10	II a Ob	9xL	17°F	18 15 ³¹	19 17	A
28118				G 40	II a Ob	13				B
28118	HD 22484	03	31.8 +00 05	G 40	II a Ob	13	17°F	20 14 ²	20 18	B
28119	HD 27742	04	17.6 +20 45	G 40	II a Ob	13	17°F	20 24 ⁶	20 35	C
28120	HD 50896	06	50.0 -23 48	G 40	II a Ob	13	16°F	20 45 ²⁰	21 25	A
28121	HD 47088	06	34.5 +06 06	G 40	II a Ob	13	15°F	21 30 ¹⁹	22 14	C
28122	HD 47984	06	38.8 +6 10	G 40	II	13	12°F	22 23 ²⁹	23 20	F
28122 T ₁	Calibration Slip Wedge for plates # 28106 - # 28107									
28122 T ₂	" " " "	"	"	"	"	"	"	"	"	"
					# 28107 F - 15	# 28118 - 22				

Dome Temp.

132

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
A	focus setting 49					30/30	sl. centre to violet in violet.	
A						30/30	sl. centre to red.	
19 17	A W 2 ^h 01 50	29	1	3.95	Bop	5-6-	special for G10 clouds (30) { 6756 darning up. #6 { 6786	fine.
	- 19:30 - clear but snow falling - closed temporarily							
20 18	R 01 09 _W +00	18	0	5.2	F9	18	std. vel. (2) { 6786 6 { 6788	fine
20 35	C 00 40 _W +20	54	0	5.87	B8	9-9	B8-B9 (3) { 6789 6 { 6791	fine
21 25	A E 1 ^h 01	-23	53	0	6.6	WR	6-6-6 WR FOR SK 7 { 6792	fine
22 14	C W 6 ^m +6	05	0	7.3	OB	6-6-6	IMON - SK clouds (4) { 6794 7 { 6795 7 { 6798	lwk
23 20	A 01 05 _W +6	09	0	7.2	AzIb	6-6-6	" " STARN. L. AIGER clouds visible 7 { 6800 ON SLIT 7 { 6802.3	fine
	- 23:30 closed temporarily							
	<u>0100</u> 5 mm. flares							
22	PH B (G42) loaded.							

Date 2-3, Feb., 1965 Tue-Wed Observer FL, Mse; MT-Mse Julian Day 171

[illegible]

Dome Temp. *8°*.....

Transparency Conditions Some clouds in south (1800)
moderate sw wind

134

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 02	A	17 55 W	50 31	0 ⁻	3.95	B0p	6-12	Special For G10 CLOUDS (30) { 6805 } Snow Flurries	weak
								Closed up (quickly!!)	
		.2 in spectrograph - change focus to 48						19:07	
00 30	B	15 30 W	-12 34	0 ⁻	6.37	B9	9-9 B8-B9	#6 { (2) 6817 } #6 { 6819 }	fine
01 05	A	12 37 W	+27 39	0 ⁻	6.14	B9	9-9 B8-B9	(focus 47.8) clouds #6 { (2) 6879 } <u>clouds</u> #6 { 6827 } 6820.3	fine
	G							closed 30/30 01 15	nothing on plate

Date 3-4 Feb/65
Wed - ThursObserver L - Rc
Mal

Julian 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
28126	ϕ Per HD 10516	01 37.4	50 11	G 10	Π a Ob	9x2	10°F	18 13	18 50	A	1:46 W
28127	HD 36665	05 28.3	+27 59	G 40	Π a Ob	17	8°F	19 18	20 10	B	045E
28128	BD +37° 1292	05 35.9	37 56	"	"	17	8°F	20 20	22 28	C	126W
28129	HD 61554	07 34.7	-18 27	G 40	Π a Ob	13		23 03	23 47	A	0 48 W
28130	HD 36881	05 29.7	+10 10	G 40	Π a Ob	13		23 52	00 10	C	3 15 W
28131	HD 40724	05 55.6	+22 24	G 40	Π a Ob	13	3°F	00 19	00 26	B	3-16 W
28132	HD 51688	06 53.3	+26 03	G 40	Π a Ob	13	2°F	00 46	01 00	A	2:42 W
28133	HD 92588	10 36.3	-01 13	G 40	Π a Ob	13	2°F	01 28	02 14	C	0 14 W
28134	HD 103095	11 47.2	+38 26	G 40	Π a Ob	13	2°F	02 42	03 17	A	0 05 W
28135	HD 107328	12 15.3	+3 53	G 40	Π a Ob	13	2°F	3 27	3 45	C	0 07 W
28136	HD 107348	12 15.4	-21 39	G 40	Π a Ob	13	2°F	3 52	4 14	A	0 35 W
28137	HD 115612	13 13.2	68 56	G 40	Π a Ob	13	2°F	4 23	4 40	C	0 05 W
28138	HD 136849	15 17.8	33 17	G 40	Π a Ob	13	2°F	4 51	4 59	A	1 41 E
28139	HD 133527	14 59.9	-25 24	G 40	Π a Ob	13	2°F	5 06	6 04	C	0 19 E
28139 F,	focus test in in/out out			G 40	Π a Ob	13				A	C
28139 T	Calibration Slip Wedge			- For plates 28126 - 39 F,							17mm

Dome Temp.

136

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 50	A	1:46 _w	50 31	1	3.95	Bop	6-6-6	special for G10 #6 { ³⁰ 6821 6851	fine
20 10	B	0 45 _E	28 03	1	8.40	B12	6-6-6	Cn - Be (focus setting 47.5) (field drawn) #9 { ³⁰ 6852 6882	fine
22 28	C	1 26 _W	37 58	1	9.28	B3Ipe	6-6-6	" " " windy! #9 { ³⁰ 6884 6914	fine
23 47	A	0 48 _w	-18 34	0	6.42	B9	9-9	B8-B9 #6 { ⁽²⁾ 6916 6917.5	fine
0 10	C	3 15 _w	+10 15	0	5.54	B8	9-9	B8-B9 #6 { ⁽²⁾ 6919 6921	fine
10 36	B	3 16 _w	+22 26	0-1	6.23	B8	9-9	B8-B9 (focus setting 46.5) #6 { ⁽²⁾ 6922 6924	fine
1 11	A	2 42 _W	+25 59	0-1	6.27	B9	9-9	B8-B9 (field drawn) #6 { ⁽²⁾ 6925 6927	fine
2 7	C	0 14 _W	-1 33	0	7.4	K1	9-9	std vel (circus cloud) #7 { ⁸ 6928 6936	fine
3 17	A	0 05 _w	+37 58	1	7.3	G5	9-9	std vel " in south #7 { ⁽⁴⁾ 6937 6945	fine
4 5	C	0 07 _w	+3 31	1	6.1	K1	9-9	std vel " also n + nwr #7 { ⁽⁴⁾ 6950 6951	fine
1 14	A	0 35 _w	-22 00	0	5.25	B8	9-9	B8-B9 (d+e) #6 { ⁽⁴⁾ 6951 6953	fine
1 40	C	0 05 _w	68 35	0-1	6.09	B9	9-9	B8-B9 (d+e) #6 { ⁽⁴⁾ 6954 6956	fine
1 59	A	1 41 _E	33 04	0-1	5.34	B9	9-9	B8-B9 (d+e) #6 { ⁽⁴⁾ 6957 6959	fine
2 04	C	0 19 _E	-25 37	0	7.1	B8	9-4.5	138-139 #7 { ⁽⁴⁾ 6960 6964	fine but fogged.
	A	C to violet - rather much! 30/30						upper button for dome turning makes poor contact	
		Focus was poor thro' out night, think PH A (G10) loaded in drkrm							

Dome Temp.

Focus

Dome Temp.

Transparency Conditions *Clouds: 15^h-20^h*
 21:45 very light cloud from N & W.
 21:50 l. cloud over entire sky.
 0110 2-3 mag. absorption and getting worse.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A						30/30	focus setting 47	c to violet
	A						30/30	" " 45	o r
	A						30/30	" " 47	c to violet
20 32	A	00 32E	+29 08	0	8.25	B3pe	6-6-6	Cn-Be (focus setting 45.0)	poor grad
21 50	C	00 01 W	+05 51	0	9.72	B0pe	6-6-6	Cn-Be 21:45 light cloud	l weak
3 42	B	00 59w	-23 00	0 ⁻	5.25	B014pe	6-6-6	Cn Be disappeared ~ 23:40 general	l weak
								focus setting 44.2 acc. to new graph.	
00 07	A	00 41E	-08 29	0 ⁻	2.2	K5	9-9	5 th d. Vel. clouds	5. l weak
	A						30/30		c to vi
1 21	B	0 32w	-74 32	0 ⁻	6.36	B9	18	B8-B9 general light cloud	#7 {7053.5-7058.9

P H A, B, C loaded.

- no 640 plates in dome

139

Date *5 Feb / 65*

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.
28144 F ₁	<i>focus test</i>	<i>in</i>	<i>in</i>	<i>out</i>	<i>out</i>	G40	Π a06	13	17°F	A
28144 F ₂	<i>focus test</i>	"	"	G40	"	"	30°F	(7 Feb)		A
F ₃	"	"	"	"	"	"	"	"		"
F ₄	"	"	"	"	"	"	30°F			A

dome temp 37°F

Dome Temp.

Focus

Dome Temp.

How Angle
End

Dome Temp. 24° F

Transparency Conditions

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A						30/30	focus setting 46.8	no detector in r
								PM A, B, C loaded, unexp. plates + exp. pl. box in n. pier	
	A						30/30	forgot to change focus - 46.8	bad! c to r
							"	focus setting 49.3	c to r
	A						50/50	focus setting 51 (D 19 dev)	ok no detector
								emulsion affected by humidity??	

some
temp 32° A

$$R \sim M_{se}$$

Observer.....B

He

Julian Day

Mon - Tues

Dome Temp. ...
Focus ...
spectrograph
Dome Temp. ...

Hour Angle
End

Dome Temp. 33°F

Focus Spectrograph 29°F
Dome Temp.

Transparency Conditions Fair

0140 HAZE

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A	1 ^h 14 ^m		4.3	B9 ^{III}			Special for 6.10 ⁽³⁰⁾ #6	
	A						30/30	EXTST. very close to moon	
	B							Electronic Malfunction	
								" focus setting 49.0 wrong. LIKE ON GRAPH BY MISTAKE	c to r (badly)
1 17	C	0 20 ^E +5	50	0-1	7.7	OB	6-6-6	" " 50.4 IMON (SK) ⁽¹⁰⁾ #8 ⁽¹³⁰⁾	c to r (perigee)
	A						8.8 OB	IMON (exp mtr very difficult to balance)	
								-finder field in no way resembles diag	
2 21	A	1 06 ^w -9	00	0	6.01	B9	9-9	B8-B9 no mtr	fine
3 31	R	1 47 ^w +3	10	0	7.6	F6-B	6-6-6	IMON field drawn	fine
0 00	C	1 53 ^w +28	14	0	6.21	B9	6-6-6	B8-B9	fine
1 15	A	2 08 ^w +4	58	0-1	5.90	B8	6-6-6	B8-B9	fine
0 47	B	0 225W		0-1	5.95	B8	6-6-6	B8-B9	fine
2 00	C	0 020W	-01 34	0	7.4	K1	6-6-6	STD. Vel	fine
3 02	A	0 11 W	38 00	0	7.3	G5	6-6-6	" "	fine
								⁽¹⁵⁾ 7307 #8 7322 PORCELAIN CRACKED	
								South, broken STICKS!!! EAST of PIVOT	

143

Date 9 Feb 1965 (cont'd) Observer H. J. M. J. M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
28152 F ₁	focus test in in/out out			G40	IIaOb	13	22°F			B	
28153	HD 93427	10 42.1	65 40	G40	IIaOb	13	22°F	03 17	03 39	C	1 46 W
28154	HD 107348	12 15.4	-21 39	G40	IIaOb	13	22°F	03 46	04 00	A	0 46 W
28155	HD 115612	13 13.2	68 56	G40	IIaOb	13	21°F	04 12	04 24	B	0 07 W
28156	HD 114762	13 07.5	+18 02	G40	IIaOb	13	21°F	04 32	05 40	C	01 29 W
28156 T	Calibration Step Wedge										
28156 F ₁	focus test in in/out out			G40	IIaOb	13	21°F			B	dome 2
28156 F ₂	" "	"		"	"	"	37°F			"	4

Dome Temp.

Transparency Conditions 0500 POOR (Haze + Cloud)

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
B							30/30	focus setting (49.9) — SET 49.9 BY MISTAKE ON RPT. CALLED FOR 48.9	OK
3 39	C	1 46 _W	65 21	0	6.22	B9	6-6-6	B8-B9 #7 ⁽⁴⁾ {7324 7328	glistening
4 00	A	0 46 _W	-21 59	0	5.25	B8	6-6-6	B8-B9 d.e. #7 ⁽⁴⁾ {7329 7333	fine
4 24	B	0 07 _W	68 36	0	6.09	B9	6-6-6	B8-B9 d.e. #7 ⁽⁴⁾ {7334 7338	fine
5 40	C	01 29 W	417 43	0-1	8.2	F7	6-6-6	std. Vel. #9 ⁽⁴⁵⁾ {7339 7384	fine
0600 Clouds CLOSED.									
G40 P.H. A B ^C Loaded.									
B		dome temp	27 ⁰ F				50/50	focus setting 49.9	OK
"		"	45 ⁰ F (10 Feb/65)				" "	(0.19 dex) " " " 54	sl. to

145

V

Date 13 Feb '65 Sat/Sun Observer Hb - R. Mcl Julian Day 14

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
28157 F	focus test			G40	IIaOb	13	18°F	set	48.5'	A	
28157	HR 1769 HD 35104	05 ^h 17.2	-13 51	G40	IIaOb	"	18°F	20 06	20 46	B	00 44 W
28158 ⁷	HR 1800 HD 35548	05 ^h 20.4	-00 38	G40	IIaOb	"	16°F	21 00	21 30	C	0 28 W
28159 ⁸	HR 1806 HD 35640	05 ^h 21.1	-05 37	G40	IIaOb	13	16°F	21 33	22 03	B	01 57 W
28160 ⁵⁹	HR 1807 HD 35656	05 ^h 21.2	+06 47	G40	IIaOb	13	15°F	22 07	22 37	A	02 30 W
28161 ^p	HR 2095 HD 44756	06 18.4	-04 39	G40	IIaOb	13	"	22 44	23 14	B	02 14 W
28162 ¹	HR 2656 HD 53240	06 59.2	-09 52	G40	IIaOb	13	14°F	23 19	23 49	C	02 05 W
28163 ²	HR 2838 HD 58580	07 21.1	-04 20	G40	IIaOb	13	14°F	23 53	00 23	A	02 17 W
357 T 1	" L Mi	09 ^h 33.5	+35° 59'			T = 10		01 25	01 35		1' 10 W
357 T 2	" Leo	10 ^h 30.8	+09° 29'			"		01 42	01 53		0 30 W
357 T 3	# 98	10 ^h 09.3	+49° 39'			"		02 00	02 11		01 0 W
357 T 4	" U Ma.	11 ^h 51.9	+53° 54'			"	12°	02 20	02 39		0 13 E
357 T 5	# 108	11 07.5	+44° 42'			"		02 37	02 45		0 47 W
357 T 6	# 109	11 16.5	+33° 17'					02 50	03 01		0 53 W
357 T 7	" U Ma	10 ^h 14.9	+43° 06'			"		03 10	03 23		2 14 W
357 T 8	" Leo	10 ^h 30.8	+09° 29'			"	12°	03 21	03 35		2 14 W

Dome Temp.

Focus

Dome Temp.

Dome Temp. 18°F (inside)

Focus 48.5

Dome Temp.

Transparency Conditions good ... scattered Cu

2030: EXCELLENT

MOON almost full

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 5	A						30/30	no center exp	no center
00 46	B	00 ^h 44 ^m W	-13° 45'	0	6.42	B8	6-6-6 B8-B9	exp. meter counting (?) too slowly - estimated exposure	no comp. out of focus
01 30	C	01 25 W	-00 34	0-1	6.23	B9	6-6-6	7394 7396	fine
02 03	B	01 57 W	-05 33	0	8.11	B9	6-6-6		fine
02 37	A	02 30 W	+06 53	0	6.37	B9	6-6-6		fine
03 14	B	02 11 W	-04 40	0	6.40	B9	6-6-6	finder field	guiding
03 49	C	02 05 W	-10 03	0	6.37	B8	6-6-6	" "	fine
04 03	A	02 17 W	-04 26	0	6.45	B9	6-6-6	Re: Exp. Met. - Voltage was at 700V. (fe)	guiding L weak
01 35		1 ^h 10 W	1 ^h 20 ^m W	1	5.41	68 II-V			
01 53		0 30 W	0 ^h 41 W	1	3.85	B1 J6			
02		01 10 W	01 ^h 20 ^m W		6.95	dM0			
02 39		0 13 E	0 ^h 09 E		2.44	A0 V			
02 45		0 47 W	0 ^h 36 W		3.01	K1 III			
03 01		0 53 W	1 ^h 03 W		3.48	K3 III			
03 23		2 14 W	2 ^h 22 W		3.45	A2 IV			
03 55		2 14 W	2 ^h 23 W					clouded over	

147

Date Sun Feb 14-15/65 Observer Hd - H V Julian Day 075

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	How Angle End
28164 ³	6 pens HD 10516	01 37.4	50 11	G10	IIaOb	9xL	18 ⁰	18 25 ¹²	18 49	A	W 229
28165 ⁴ F ₁	Focus test			G10	"	"	18 ⁰	In-in/out-out			
28165 ⁴	6 PERS					9xL	"	18 52	19 25	A	W 305
28165 ⁴ F ₂	focus test in-in/out-out			G40	IIaOb	13	19 ⁰ F	1		A	
28166 ⁵	BD 37° 1292	5 35.9	+37 56	G40	"	"	19 ⁰ F	19 56 ³⁴	21 04	B	W 45 ^m 4
28167 ⁶	BD 25° 970	5 40.2	+25 30	G40	IIaOb	13	19 ⁰ F	21 19 ²⁹	22 17	C	W 1 ^m 55
28168 ⁷	HD C5583	07 54.3	+29 31	G40	IIaOb	13	19 ⁰ F	22 25 ⁹	22 43	A	W 6 ^m 2
28169 ⁸	+5° 1451	(1450) 06 49.8	(1450) +5 13	G40	IIaOb	13	19 ⁰ F	23 59 ²¹	00 41	B	W 3 14 +5
28170 ⁹	BD +45° 1859	10 38.3	45 12	G40	IIaOb	13	18 ⁰ F	01 20 ¹²⁷	05 34	C	045 ^m 44
28171 ⁰	HD 123782	14 04.6	49 56	"	"	"	17 ⁰ F	05 41 ⁴	05 49	A	010 ^m 19
28172	HD 144579	16 01.5	+39 24	G40	IIaOb	13	17 ⁰ F	05 57 ⁸	06 12	B	00 28 39
28171 T	Calibration step wedge				for plates			#28164 F ₂ - 28171			

Dome Temp. $25^{\circ}F$

Focus

Dome Temp.

Transparency Conditions *full moon*
*very good**some cloud in w - 0400*

148

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18 49 A	W 2 29	50 30	2	3.95	Bop	6-6-6	1st Proj (plate broken) #6 { 7398 grinding 7428 lumps very old carbon to red	
19 25 A	W 3 05	"	2	3.95	Bop	6-6-6	dome temp 22 [difficult to hold] 3 { 7424 temp 22 [difficult to hold] 6 { 7459 fine. focus setting 49.0	
21 04 B	W 4 5	42 01	2	9.28	B3pe	8-8-8	dome temp 24 (30) very old carbon to red. CW 13a (finder field) #9 { 7462 7490 out of focus	
22 7 C	W 1 55	+25 32	2	8.63	B3nc	8-8-8	dome temp 23 slower (30) 7491 Cn-Bc (finder field) count! #9 { 7511 count no slow may be wrong star. broken plate	good
22 45 A	W 6 m	+29 19	1	7.9	G 7	8-8-8	short plate; may be no good #8 { 7514 7526 fine.	
00 41 B	W 3 14	+5 12	1	9.5	OB	8-8-8	I mon (finder field) (30) 7526 #9 { 7556 good	
05 34 C	04 15 W	44 51	1	9.59	F4	8-8-8	KAFS (45) 7562 #9 { 7607 grinding?	
01 05 W	49 37	1+	6.8	M2	10-10	Std Vol.	7610 #7 { 7618 fine	
06 12 B	E 0 28	39 13	1	7.2	OB	10-10	" " 7619 #7 { 7625 grinding.	

149

Date _____

Observer

CN (Mt)
Msc

Julian Day

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Date Feb 17/18/65 Observer ^{Mse} Hb Julian Day 171.5
Wed. Thurs

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
28178	Jupiter	03 05.34 ¹⁹⁶⁰	16 32.8 ¹⁹⁶⁰	G10	IIc06	9	24	19 16 ¹⁵	1.9 46	B	W 2.14
28179	Alcyon ^{n. Tau}	03 45.11 ¹⁹⁶⁰	+23° 59'	G40	IIc06	13	"	19 53	1.9 54	A	W 1.43
28179 F	Focus Test			12	11		28°F	in in/out out		B	
28179 T	Calibration Slip	Wedge		for plate 28179							

Date 18-19 Feb/65-

Date 18-19 Feb/65
Thurs-Fri

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.
28180	^{HR 1147} ^{H_D} 23383	03	39.755	37 G40	Ilacob.	13	20°F	18 37	18 54	A
28181	H_D 23552	03	41.050	26 G40	Ilacob	13				
28180 F,	focus test in input out "				"	"	"			C
28180 T	Calibration Step Wedge - for plates							28180 - 28180 F,		

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

W 8:46

Dome Temp. *24°F*

Transparency Conditions *fair - poor - some cloud*

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>W 0:46</i>	<i>55 49</i>	<i>0</i>	<i>6.02</i>	<i>B9</i>	<i>18-81</i>	<i>B8-B9 focus setting ~49.3 clouds</i>	<i>#6 {7777 7778.1} look</i>
			<i>5.87</i>	<i>B8</i>			<i>#6 {⁽²⁾ }</i>
					<i>30/30</i>		
						<i>PH A, B, C loaded in n. pier</i>	

Date 19-20 Feb, Fair Isl 1965 Observer Ln - Mt Julian Day 171-172

[illegible]

Dome Temp. 8° F

Focus

Dome Temp.

Transparency Conditions *dark clouds in W*20:15 cloud from north.
02:20 some cloud about

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								Had just started when clouds came up & frost crystals started falling - so closed up p.d.g. - cleared - opened up again.	
00 30	A	01 12 W	+43 47	0-133-41	F5p	6-6-6	Fl. Lyngto	(30) 7785 #4 7815	fine O.K.
						30/30	Focus 45		
01 55	C	01 50 W	+29 08	0	8.25 B3:pe	6-6-6	Cn Be	occasional cloud. 7815 #9 7845	guiding?
02 10	A	00 06 W		0	4.39 B0I:pe	18	Cn Be	7846 #6 7848	fine
02 30	S	00 45 W	-23 00	0	5.25 B0I:pe	18	Cn Be	exp. meter does not seem to stay balanced. very slow!	fine
02 40	C	02 40 W	-09 47	0	8.58 B3e:SD-3	6-6-6	Cn Be	7850 #9 7874	link
03 30	A	02 31 W	+44 52	0	9.59 F4	6-6-6	KHFS BINARY exposure terminated	7874 #9 7898	link
04 44	B	01 14 W	+17 41	0	8.2 F7	6-6-6	Std Vel.	7899 #8 7914	fine
05 50	C	00 30 W	-25 38	0	7.1 B8	6-12	B8-B9	7914 #7 7918	link

P.H. A loaded.

Date 21 Feb/65
Mon

Observer H. S. Nyse Julian Day[illegible]

Dome Temp. 12°F Transparency Conditions *good*

Focus

*windy !! (vw)*Dome Temp. $+6^{\circ}\text{F}$

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12	26	0.0	F.8	S	KAFS	focus setting 47 finder field TOO FAIR	7931
NO 34	+17 41	0	8.2	F7	8.8.8	std vel focus 47	(45) 7934
W 1:15	45 27	0-1	7.64	F3	8.8.8	KAFS ^{needing to un. dec. clamp} (finder field) focus setting general haze	#9 {7979 #8 {7980 7995
							girdling fine

(EXP PLATES IN UNEXP BOX #2.)

159

Date 22-23 Feb/65

Observer

Pr-Hr

Julian Day

Mon - Tues

(myse)

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

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

Transparency Conditions

Focus

20-30 m/hr ^W winds

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			50 31		3.95	B2p		Had too WINDY (30) #6	
20 01	A	E1 12	-26 17	0	2.48	F8 Ia	8-8-8	FFI - supergiants. (23) #4 8028	fine
								[Trouble connecting capping device for short camera - OK now]	
22 30	A	W01 52	+4 31	1	8.1	BIV	8-8-8	I Mon focus 44 (finder flared) #9 8052	fine
	B				9.87	A2 V		KAFS focus 42 (45) #9 8098	
							50/50	focus setting 43	OK
								23-30 : snow	
								P-H A8 C (or 40) loaded	
								5/8 x 7" plate in dome	

Date 23-24 Feb/65

Date 23-24 Feb/65
Tues - Wed

Observer

Hb Msc

Julian Day

[illegible]

Dome Temp. 18°F

Focus

Dome Temp.

Transparency Conditions *very poor*

1920 - good

2015 - clouds from north

2100 - general haze & 1 mag or more

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
921	A	01 07 W	+22 19	0-1	6.11	B8	6-6-6 B8-B9	(wide) focus 46 1/2 several mag. absorption	#6 { 8173 guiding 8175 weak
940	B	01 01 W	+20 38	1	5.71	B9	6-6-6 B8+B9 (d.e)		#6 { 8176 fine 8178
1958	C	00 49 E	-14 22	1	5.14	B8	6-6-6 B8+B9 (d.e)	finder field distant	#6 { 8170 78 good apperance 8180 80 guiding
	B	-14 20	"	"	6.40	B9	6-6-6 (d.e)	(clouds from S.) 700 5000	#6 { 8180 8180.3
218	A	03 28 W	+57 02	0	6.46	B9	6-6-6 B8-B9	dome 140F FIRST 1/4 COUNT ON WROGK STAR finder field	#6 { 8181 8182.5 weak

PH BIC loaded in N pier

Dome Temp.

Transparency Conditions *excellent*
20 - 30 : good

164

Ending Time E.S.T.	PA	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	B						30/30	focus 53.3	focus good
1959	C	W 125	23 05	0	5.96	B9	8-8-8 B8-B9	#6 { 8188 8190	fine
1924	H	W 139	17 14	0	6.28	B9	8-8-8 " only bright * in field	#6 { 8191 8193	fine
1942	BV	1 47	+10 08	0	6.20	B8	8-8-8 " " " " " "	#6 { 8194 8196	fine
20 05	CW	2 03	-7 39	0-1	5.67	B8	8-8-8 B8-B9 " " " " "	#6 { 8196 8198	fine
21 12	A	W 250	42 04	0	7.7	92	8-8-8 std. Vel. " " "	#8 { 8199 8213	fine
21 54	B	W 136	+6 05	0	7.3	OB	8-8-8 T-mon (SIC)	#8 { 8213 8223	fine (guiding)
00 43	CW	1 32	29 17	0	9.89	F5	6-6-6 KAFS	#9 { 8223 8253	fine
	A						30/30	focus setting 50	good focus
0303	A	0239W	44 54	0	9.59	F4	6-6-6 KAFS	#9 { 8254 8284	fine (guiding)
06 09	CW	2 22	29 25	0	10.00	F8	1-6-6 KAFS	#1 { 8285 8311	broken lost SIC
								PM A & B loaded	

165

Date 1/2 March/55Observer ^{VdB} MCC.

Julian Day

MON / TUES.

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
358 T 1	1767-60 III	0844	+12	CH II	I=10		2130	Q = G			100E
2	-65 II			"			2140	Q = G			050E
3	-34 II			"			2150	Q = G			040E
4	-35 II			"			2205	Q = F			035E
5	-32 II			"			2210	Q = F			020E
6	-31 II			"			2215	Q = F			015E
7	105			"			2235	Q = F			005W
8	81			"			2240	Q = F			010W
9	27-I			"			2250	Q = F			020W
10	25 ±			"			2255	Q = F			025W
11	81			"			2300	Q = F			030W
12	105			"			2305	Q = F			035W
13	15-I			"			2310	Q = F			040W
14	84			"			2320	Q = F			040W

Dome Temp.

Focus

Dome Temp.

Dome Temp. 30°F

Focus

Dome Temp.

CO₂ in } 1800
V=700 }

Transparency Conditions V. Fine

166

New guide Telescope mounted 1800-20.30.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ⁰⁰ E							
0 50 E							
0 40 E							
0 35 E							
0 20 E							
0 15 E							
0 05 W							
0 10 W							
0 20 W							
0 25 W							
0 30 W							
0 35 W							
0 40 W							
0 50 W							

167

Cont.

Date 170/Tu Mar 1/2 Observer ncC
vdB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
358-15	1767-105	0849	+1200	ch II		I=10		2325	02F		055W
16	81							2330			0100W
17	141							2337			0107W
18	1-I							2345			0115W
19	170							2350			0120W
20	105							2355			0125W
21	81							2400			0130W
22	244							0005			0135W
23	224							0010			0140W
24	231							0015			0145W
25	105							0025			0155W
26	81							0030			0200W
27	164							0035			0205W
28	190							0045			0215W
29	105							0050			0220W

Dome Temp.

Transparency Conditions *Very Fine*

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
055W							
0100W							
0107W							
0115W							
0120W							
0125W							
0130W							
0135W							
0140W							
0145W							
0155W							
0200W							
0205W							
0215W							
0220W							

169.

CONT

Date Mon/tue cont Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
358-30	1767-81	08 49	+12	CH4		E70		00 55	4=F		225W
-31	153							00 00			230W
-32	108							01 05			235W
-33	105							01 10			240W
-34	81							01 15			245W
-35	135							03 25			255W
-36	105							03 30			300W
37	81							03 33			303W
38	105							03 36			307W
39	81							03 40			311W
40	105							03 45			316W
41	81							03 50			321W
42	105							03 54			325W
43	81							03 58			329W
44	105										

Dome Temp.

Focus

Dome Temp.

170

Dome Temp.

Transparency Conditions V. Fine

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 25W							
2 30W							
2 35W							
2 40W							
2 45W							
2 55W							
3 00W							
3 03W							
3 07W							
3 11W							
3 16W							
3 21W							
3 25W							
3 29W							

CONT

Dome Temp.

[illegible]

Dome Temp.

Transparency Conditions ✓ Fine

172

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		3 38 ^m							
		3 41							
		3 46							
		3 51							
		3 56							
		4 01	)						
		4 06							

Date 2 Mar / 65
Tues

Julian Day

Hour Angle
End

Dome Temp.

174

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A						30/30	focus setting 50	good focus
6 08	B	W 2 24 29 26	10 ⁷	10.00	F-8	8-8-8	KAFS	(finder fields) (PH A & C loaded)	#9 ⁽³⁾ { 8318 8354.5 } break

175

Date 2-3 MarObserver H. L. - Mt

Julian Day

Tues - WedMar

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
28207	HR 1160 HD 23552	03 41.0	50 26	G40	IIaOb	13	32°F	18 45	19 03	C	W1 42
28208	HR 1161 HD 23594	03 41.3	+56 49	G40	IIaOb	13	33°F	19 07	19 45	A	W2 24
28209	HR 1305 HD 26670	04 08.1	+61 36	G40	IIaOb	13	33°F	19 49	19 57	A	W2 07
28210	HR 1510 HD 30085	04 39.4	+70 45	G40	IIaOb	13	33°F	20 03	20 14	A	W1 53
28211	HR 1371 HD 27650	04 16.6	42 12	G40	IIaOb	13	33°F	20 22	20 37	A	Wd 42
28212	HR 1424 HD 28503	04 24.6	+39 48	G40	IIaOb	13	32°F	20 41	21 03	B	W2 59
28213	HR 1576 HD 31373	04 50.2	+14 54	G40	IIaOb	13		21 10	21 43	C	03 15W
28214	HR 1860 HD 36589	05 27.7	+20 24	G40	IIaOb	13	30°F	21 48	22 47	A	03 41W
28215	HR 2645 HD 52860	06 57.7	+47 54	G40	IIaOb	13	29°F	22 56	23 15	B	W2 37
28216	HR 2844 HD 58661	07 21.5	48 24	G40	IIaOb	13	28°F	23 21	23 35	C	W2 35
28217	HD 92588	10 36.3	-01 13	G40	IIaOb	13	28°F	23 43	00 50	A	00 35W
28218	HD 103095	11 47.2	38 26	G40	IIaOb	13	28°F	00 58	01 28	B	00 03W
28219	HD 121861	14 50.9	+45° 43'	G40	IIaOb	13	26°F	01 40	03 10	C	E1 17
28220	HR 5801 HD 139160	15 31.5	-25 57	G40	IIaOb	13	26°F	03 21	04 04	A	E1 05
28221	HR 5912 HD 142301	15 48.7	-24 57	G40	IIaOb	13	26°F	04 10	04 37	B	E0 48

Dome Temp.

Focus 5

Dome Temp.

Dome Temp. 36 °F

Focus 53 (52 after 2250) (51 after #28219)

Dome Temp.

Transparency Conditions good (thick CT in SW)

176

thin haze cover from 1915
clearing 2000, return 2030
poor after 2000
improved about 0100

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
9 03	C	N 1 42	+30 40	0	5.87	B8	8-8-8	B8-B9	ser 6 ⁽²⁾ { 8362 8364	fine
9 45	A	N 2 24	57 03	0	6.46	B9	8-8-8	B8-B9	# 6 ⁽²⁾ { 8365 8367	fine
9 57	A	N 2 07	61 45	0	5.59	B8	8-8-8	B8-B9	# 7 ⁽⁴⁾ { 8368 8372	guiding
10 14	A	N 1 53	70 47	0-1	6.37	B9	8-8-8	B8-B9	# 7 ^(F) { 8376 8380	fine
10 37	A	N 1 42	42 20	0	5.96	B9	8-8-8	B8-B9	finder field (does not seem to agree with guide field) # 7 ⁽⁴⁾ { 8381 8386	fine
10 03	B	N 2 59	39 55	0	6.21	B8	8-8-8	B8-B9	[Double: each component guided more than half of slit] # 7 ^(F) { 8386 8390	fine
10 40	C	03 15W	15 00	0	5.69	B8	8-8-8	B8-B9	about 1 mag absorption # 7 ⁽⁴⁾ { 8391 8395	lost
10 47	A	03 41W	+20 27	0	6.04	B8	8-8-8	B8-B9	" " " # 7 ⁽⁵⁾ { 8399 8399	fine
10 15	B	N 2 37	+47° 51'	0	6.34	B9	8-8-8	B8-B9	# 7 ⁽⁴⁾ { 8399 8403	fine
10 35	C	N 2 35	48 15	0	5.53	B9	8-8-8	B8-B9	# 7 ⁽⁴⁾ { 8404 8408	fine
10 50	A	00 35W	-01 33	0-1	7.4	K1	8-8-8	Std. Vel. (1.2 mag. absorption)	# 8 ⁽²⁰⁾ { 8409 8429	fine
10 28	B	00 03W	+37 58	0	7.3	G5	8-8-8	Std. Vel.	# 8 ⁽¹⁵⁾ { 8429 8444	guiding
10 30	C	E 1 17	+45 26	0-1	7.64	F3	8-8-8	1-A1-S	# 8 ⁽¹⁵⁾ { 8446 8461	guiding
10 04	A	E 1 05	-26 07	0-	6.0	B9	8-8-8	B8-B9	# 7 ^(X) { 8462 8466	guiding
10 37	B	E 0 48	-25 05	0-	6.2	B8	8-8-8	B8-B9	# 7 ⁽⁴⁾ { 8467 8471	fine

Date 3 Mar (cont'd) Observer Mt-Mse Julian Day Wed

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
28222	^{HR 5998} HD 144661	16 01.9	-24 11	G40	IIaOb	13	26°F	04 43 ²⁵	05 32	C	E 0 06
28223	^{HR 6003} HD 144844	16 02.8	-23 25	G40	IIaOb	13	26°F	05 37 ¹²	06 01	H	W 0 21
28222 F	HR 5998	16 01.9	-24 11	G40	IIaOb	13	26°F	04 43	05 32	C	E 0 06
28223 T ₁	Calibration Step Wedge							28207 - 20			
28223 T ₂	"	"	"	"	"	"	"	28221 - 23			

Dome Temp. 29° F

Focus 51

Dome Temp.

Transparency Conditions good

178

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 32	C	E 0	06-24 20	0-	6.5	B8	8-8-8	B8-B9 #7 ^(u) { 8372 8376	fine
6 21	A	W 0	22-23 34		5.9	B9	8-10	B8-B9 #7 ^(u) { 8377 8378	weak
							30/30	8379	
							PH B loaded.		

179

Date _____

Observer: Hb/Mke

Julian Day

Plate No.

Object

R.A.
1900Declination
1900

Inst.

Emulsion

Slit

Temp.

Starting Time
E.S.T.

Ending Time
E.S.T.

P.

28224

HR 1424
H.D. 28503

04 24.6

+39 48

640

IIaob

13

33%

19 5.0

2.1 06

R

Hour Angle
End

Dome Temp. 3

Focus 537

Dome Temp

Hour Angle
End

03 30w 3

Dome Temp. 37° F

Focus 5-3 1/2

Dome Temp.

Transparency Conditions poor

light fog

180

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

21 06

B

03 30W

39 55'

0-1

6.21

B8

8-8-

B8-B9

mag.

mag. absorption

② 8778
sens 6 8780

weak
guiding

181. 1925-1940 TEST for Auto. Guiding Project. H_V

Date Mar 10/11/65

Observer.....*V/Mse-Rc* Julian 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
28225	HR 1305 HD 26670	04 08.1 (1950)	+61 36	G40	IIaOb	13	24°F	48 ^h 56 ^m 8 ^s	19 12	A	W1 54
28226	HD 46484	06 31.3	+4 42	G40	IIaOb	13	22°F	19 40	20 13	B	W1 38
28227	HR 2244 HD 43445	06 11.1	-13 41	G40	IIaOb	13	20°F	21 19	21 31	C	W2 15
28228	HR 2370 HD 44037	06 14.4	-08 32	G40	IIaOb	13	20°F	21 27	22 11	A	W2 55
28229	HR 2932 HD 61224	07 33.1	-14 13	G40	IIaOb	13	20°F	22 21	23 00	B	W2 26
28230	HR 4317 HD 96314	11 01.1	-26 45	G40	IIaOb	13	20°F	23 06	23 41	C	E6 26
28231	HR 4696 HD 107348	12 15.4	-21 39	G40	IIaOb	13	20°F	23 48	00 05	A	E1 16
28232	HD 114-762	13 07.4	18 02	G40	IIaOb	13	20°F	00 ^h 14 ^m 39 ^s	01 ^h 32 ^m	B	E0 41
28233	BD +29° 24' 45"	14 02.6	+29 45	G40	IIaOb	17	180°F 21°F	02 ^h 09 ^m	05 ^h 29 ^m	C	W2 21
28234	HD 170235	18 23.2	-25 19	G40	IIaOb	13				A	
28233 F ₁	focus test	in in/out out G40			IIaOb	13	16°F	focus still at 44' 13"		A	
28233 T	Calibration Step Wedge				for plates # 28224 - 33 F ₁						

Dome Temp. $25^{\circ}\text{F} / 24^{\circ}\text{F}$
 Focus $50\frac{1}{2} / 49\frac{1}{3}$ after #26/
 Dome Temp.

Transparency Conditions very good - excellent
 strong NW wind ~ 20
 wind down after 0100

182

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 12	A	W 1 54	61 46	0	5.59	B8	8-8-8	B8-B9 windy!	(4) 8782 Sens 7 (8782
10 13	B	N 1 38	+04 42	1	8.1	B1V	8-8-8	IM on - (SK) (finder fields)	(30) 8789 #9 {8819
1 31	C	W 2 15	-13 41	D	4.97	B9	12-12	B8-B9 trouble in capping device - plate may be fogged	(4) 8820 #7 {8824
2 11	A	W 2 55	-08 32	0	5.05	B9	8-8-8	"	(4) 8824 #1 {8828
3 01	B	N 2 22	-14 21	0	6.40	B9	8-8-8	" d.c.	(4) 8828 #7 {8832
3 41	C	E 0 26	-27 04	0	5.64	B8	8-8-8	" d.c.	(4) 8832 #7 {8836
4 05	A	E 1 16	-21 57	0	5.25	B8	8-8-8	B8-B9 d.c. (finder field)	(4) 8836 #7 {8840
5 12	B	E 0 41	+17 43	1	8.2	F7	8-8-8	std. vel.	(45) 8840 #9 {8885
5 52	C	W 2 21	+290 27'	1	10.00	F8	8-8-8	KAFS	(30) 8886 #9 {8916
6 11	A				6.71	B5C		Cn - Be	(4) 8917 #7 {8921
6 53	A						30/30	EXPECT C.T.O.I.	OK

183 1900 - align finder for Vdb & wait for sky to clear

Date 11-12 Mar 1965 Observer L - Re Julian Day 173.5

Thurs - Fri

Msc

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
28234	AR 1619 HD 32273	04	56.8 +01 28 640	IIaOb	13	22°F	20 17	20 37	A	W2 37	
28235	AR 1724 HD 34317	05	11.5 +01 50 640	IIaOb	13	20°F	20 41	21 09	B	W2 55	
28235 F ₁	focus test in in/out out			640	IIaOb	13	20	—	—	C	—
28236	H.D. 71833	08	24.4 -20 37	"	"	13	19°F	22 45	A	—	
28236	BD 45° 1859 10	38.3	45 12 640	IIaOb	17	18°F	23 24	02 22	B	W2 42	
28236 F ₁	focus test in in/out out			640	IIaOb	17	14°F at end	—	—	C	—
28237	HD 107 328	12	15.3 +03 53 640	IIaOb	13	14°F	02 34	02 49	A	W1 33	
28237 F ₁	focus test in in/out out			640	IIaOb	13	14°F	—	—	B	—
28238	AR 5801 HD 139 160	15	31.5 -25 57 640	IIaOb	13	14°F	02 ^h 59 ^m	03 ^h 25 ^m	C	E0 ^h 57 ^m	
28239	AR 5912 HD 142 301	15	48.7 -24 57 640	IIaOb	13	14°F	03 ^h 45 ^m	04 22	A	E0 28	
28240	AR 5998 HD 144 661	16	01.9 -24 11 640	IIaOb	13	13°F	04 27	04 ^h 57 ^m	B	E0 ^h 28	
28241	AR 6387 HD 153 401	17	06.2 -27 38 640	IIaOb	13	13°F	05 ^h 03 ^m	05 ^h 33 ^m	C	E0 ^h 34	
28241 T	Calibration Step Wedge				for plates 28234 - 41						

Dome Temp.

Focus 49 1/2

Dome Temp.

Dome Temp. $25^{\circ}F$
 Focus $49\frac{1}{3} / 48\frac{1}{2} / 47\frac{1}{3}$
 Dome Temp.

Transparency Conditions *poor*

184

2030 - cloud in lower, nr, + nr
 2300 - excellent but $\frac{1}{4}$ moon
 0130 - some cloud in SW & W wind
 0230 - cirrus
 REMARKS

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		Quality
00 37	A	W 2	$38^{\circ} + 01'$	$3''$	0	6.16	B8	8-8-8 B8-B9	BINARY - COMPACTION 22 MAG. FAINTER clouds coming #7 {8921 8924 fine
01 09	B	W 2	$55^{\circ} + 01'$	$55''$	0-1	6.35	B9	8-8-8 B8-B9	#7 {8195 8198 L weak
	C						30/30		good focus
	A					6.4	B8	B8-B9	#7 {8930
02 22	B	W 2	$42^{\circ} 44'$	$54''$	0-1	9.59	F4	6-8-6 KAFS	(FINDER FIELD) focus $48\frac{1}{2}$ DIFFICULT EXP. MTR. BAL. VERY #9 {8932 8962 * fine
	C						30/30	same focus ($48\frac{1}{2}$)	NOT RELIABLE good focus
02 49	A	N 1	$33^{\circ} + 03'$	$30''$	1	6.1	K1	8-1-6 Std Vel	focus $47\frac{1}{3}$ #7 {8964 8972 fine
	B						30/30	"	good focus
03 11	C	E 0	$57^{\circ} - 26^{\circ} 8'$	$0''$		6.0	B9	8-8-8 B8-B9	" #7 {8972 8976 guiding
04 22	A	E 0	$28^{\circ} - 25^{\circ} 05'$	$0''$		6.2	B8	8-8-8 B8-B9	" #7 {8977 8981 guiding
04 51	B	E 0	$06^{\circ} - 24^{\circ} 19'$	$0''$		6.5	B8	8-8-8 B8-B9	" #7 {8981 8985 fine
05 23	C	E 0	$34^{\circ} - 27^{\circ} 42'$	$0''$		6.0	B9	8-8-8 B8-B9	" #7 {8985 8989 fine

*1) - ACCORDING TO DEC. SETTINGS, PLATES
 28169 & 28186 WERE DIFFERENT STAR.

PH A, B, C loaded; +3 plates in pier
185

Date 12/13 March/65
Fri/SAT.

Observer VdB
MCE

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
359 T 1	HD 41117	06 ^h 01. ^m 7	+20° 08'			$\tau=10$		17 38			0 ^h 40 W
2								18 18			1 ^h 20 W
3	B Cnc	08 ^h 14. ^m 5	+09° 19'					20 32	20 44		0 ^h 22 E
4	γ Hya	08 41.3	+03 32					20 53			0 40 E
5	B Cnc	08 14.5	+09 19					21 10			0 00
6	γ Hya	08 41.3	+03 32	V-A5	B-A4, V-A5			21 20			0 14 E
7	B Cnc			A4				21 36			0 26 W
8	γ Hya							21 50			0 13 W
9	B Cnc							22 03			0 52 W
10	γ Hya							22 14			0 37 W
11	B Cnc							22 24			0 14 W
12	γ Hya							22 36			00 59 W
13	B Cnc							22 48			01 37 W
14	γ Hya							23 00			01 22 W
15	B Cnc							23 10			02 00 W

Dome Temp.

Focus

Dome Temp.

Dome Temp. 32°F

Focus

Dome Temp.

CO₂ }
700W } 1800

Transparency Conditions Excellent (except for clouds on West Horizon)

186

1700W D

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0°40 W

4.63

1°20 W

5.90

32°F 20:00

0°22°E

3.52

0°40 E

4.30 B3E

25°F 22:30

0 00

3.52 K4III

0 14 E

24°F 24 00

0 26 W

0 13 W

0 52 W

0 37 W

01 14 W

00 59 W

01 37 W

01 22 W

02 00 W

187

Date 12/13 March cont

Observer

-ME

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
355-16	η Hya								23 24		1' 47W
355-17	B Cnc								23 35		2 25W
-18	η Hya								23 43		02 12W
-19	B Cnc								00 01		02 51W
20	η Hya								00 13		02 35W
21	B Cnc								00 25		03 14W
22	η Hya								00 36		02 58W
23	B Cnc								00 47		03 14W
24	η Hya								00 58		03 00W
25	B Cnc								01 09		03 58W
26	η Hya								01 17		03 39W
28245 F	Focus test in in/out out										
28245 T	Calibration Sky										
28242	HD 114762	13 07.5	+18° 02'	G40	IIaOb	13	20°F	02 05	02 55	A	00 50 W
28243	HD 123782 HR 5801	14 04.6	+49 56	"	"	"	20°F	03 15	03 35	B	00 34W
28244	HD 139160 HR 5912	15 31.5	-25 57	"	"	"	20°F	03 50	04 30	C	00 00
28245	HD 142301	15 48.7	-24 57	"	"	"	20°F	04 40	05 20	A	00 00W

Dome Temp.

Focus 49.2

Dome Temp. 24°

Transparency Conditions Perfect

188.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2324		1' 47W							
2336		2 25W							
2349		02 12W							
0001		02 51W							
0013		02 35W							
0026		03 14W							
0036		02 58W							
0047		03 36W							
0058		03 20W							
0109		03 58W							
0117		03 39W							
							30/30		
0055	H	00 50 W	+17° 42'	1	8.2	F7	8-8-8	Standard Vel.	C.K.
0035	C	00 34W	+49 37	1	6.8	M2	8-8-8	11	#8 {8992 9007 fine
0040	C	00 00	-26 28	0	6.0	B9	8-8-8	B8-B9	#7 {9008 9016 look approx. 47.8 guiding
0050	H	00 30W	-25 07	0	6.2	B8	8-8	B8-B9	#7 {9017 9021 look
									#7 {9022 9026 guiding

189 PH C loaded in pier

Date Tues-Wed, Mar 16-17, 1965 Observer Cn - Rc Julian Day 19650316.5

Myse

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
28246	HD 63462	07 ^h 43.9	-25° 42'	G40	IIa 60	1.3	30°F	20 53	21 11	C	90 45W
28247	HD 66141	07 52.1	+02 36	G40	IIa 06	13	"	21 16	21 32	A	00 52W
28248	I UMa HD 78362	09 02.7	63 55	G110	IIa 06	9	"	21 43	23 45	A	W1 57
28249	HD 109379	12 29.1	-22 51	G10	IIa 06	9	27°F	23 55	00 53	B	50 17
28250	BD+29° 2495	14 ^h 02.6	+29° 45'	G40	IIa 06	17	26°F	01 06	03 59	B	W1 15
28251	HD 131861	14 50.9	45 43	G40	IIa 06	13	25°F	04 05	04 21	A	W0 49
28251 F	focus test in in/pair Boula				G40 IIa 06	1.3	25°F			C	
28251 T	Calibration step Wedge				for plates 28246-7 28250-51 F.						

Dome Temp.

21115 Cloud from north

- better after 2300

- getting cloudy after 0300

[illegible]

191 PH A, B, C loaded in piece

Date MAR 19th 1965 Fri-Sat Observer FL, MCP - MT Julian Day 171.5

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

Excellent

(2200 fair)

192

Saw unidentified satellite at 19:20 - high inclination orbit, tumbling.

0045

getting very hazy

0200

heavy haze, light cloud

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20:31	A	1 01 W	-26 19	5"	2.48	F8Iq	6-6-6	Plate broke 4700# FL Supergiant	Sens 49140 2170 fine
21:23		0 20 W			4.2	A0I		$B = 2.849$	but broken
21:39		0 30 W			4.3	B3		2.657	
21:57		0 34 E			4.5	A7V		2.839	
22:24		0 10 E			1.3	B7I		2.725	
22:36		—			3.9	B0		2.564	
22:45	A	0 37 W	+03 30	0	6.1	K1	8-8-8	Star Vel going very slowly	#7 { 9173 9181
22:42	B	0 40 E	+45 26	0	7.64	F3	8-16	KATS Binary Terminated	#8 { 9182 9197
Clouds about 2:30									

* 811.6 dec set would not operate
something to do with dec clamp

Haze

Dome Temp. 20° Focus Temp 20° set 49

Dome Temp.

Transparency Conditions

21^L good.194
pm - l. cloud around horizon,
 haze above.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
9 41	A	00 57W	-11 46	0	5.62	B1Ipe	8-8-8	Cn Be	4 9196 #7 9200 30 9201 #9 9230 2 9231 #6 9233 9235 #9 9280 #5 9283 9293 #8 { 9295 9310 #8 { 9311 9321	guiding guiding no crop fine fine fine dark
0 50	B	01 37W	-05 28	0-1	7.49	B1Ipe	8-8-8	Cn Be occasional cloud		
1 10	C	00 58W	-25 51	0	4.39	B0Ipe	16-8	Cn Be		
02 20	B	04 28W	+29 15	0	9.89	F5	8-8-8	KAFS Binaries		
02 55	B	1 20E	-23 52	0	5.37	B3Ipe	8-8-8	Cn Be		
4 39	B	1 23W	+45° 26'	0 ⁺	7.64	F3	8-8-8	KAFS Binaries		
05 15	A	0 47W	-23 35	0 ⁺	5.9	B9	8-8-8	B8-B9		
							30/30			
								two plates stuck together as well as one blank with 28261		

1951

Date Sun - Mon Mar 21-22 1951 Observer HS - H/er Julian Day 195myse

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
28262	^{HR 1619} HD 32273	04 ^h 56 ^m .8	+01° 28'	G40	IIaOb	13	16°	19 16 ¹³	19 41	A	02 21W
28263	^{HR 1671} HD 33224	05 03.6	-08 47	G40	IIaOb	13	15°	19 48 ¹¹	20 09	B	02 42W
28264	^{HR 1826} HD 36058	05 23.9	-03 24	G40	IIaOb	13	"	20 14 ¹¹	20 47	C	02 59W
28265	^{HR 2109} HD 40574	05 54.6	-01 27	G40	IIaOb	13	13°	20 51 ¹⁰	21 28	A	03 11W
28266	^{HR 2213} HD 51892	06 54.0	+02 29	G40	IIaOb	13	"	21 31 ⁹	21 51	B	02 34W
28267	^{HR 2840} HD 58599	07 21.2	+11 12	G40	IIaOb	13	11°	21 55 ⁹	22 13	C	02 29W
28268	BD +45° 1753	09 36.7	45° 30	G40	IIaOb	17	11°	22 24 ¹⁰²	01 48	A	03 48W
	TESTS AUTO. GUIDING PROJECT.							0150	0230		
28268 T ₁	Calibration Step Wedge - for plates							28260 - 61 F			
28268 T ₂	" " " " "							28253 - 59, 62 - 68			

Dome Temp.

0115 HAZE

5. Learn

Loaded

Dome Temp. _____
Focus S
Dome Temp. _____

Mse

Hour Angle
End

Date *Wed. Thurs. 24/25 May* Observer *Hd - Rc* Julian Day

[illegible]

Dome Temp. 22°F
 Focus 51 2/3 311491148
 Dome Temp.

Cloudy at first
 Transparency Conditions fair
after 2330 - excellent
within hour 2200 - gone by 0000

200

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 31	A	W 1 27	+07 23	0	6.28	B8	8-8-8 B8-B9	<u>not focus: 51 2/3</u> FIELD #7 {9378 some clouds DRAWN #7 {9382	fogged
20 58	B	W 1 52	25 59	0-1	6.27	B9	8-8-8 B8-B9	FIELD (4) {9382 DRAWN #7 {9386	fine
21 22	C	W 2 11	47 51	0	6.34	B9	8-8-8 B8-B9	dome 20°F FIELD (4) {9387 DRAWN #7 {9391	fine
21 48	A	W 2 35	+04 58	00	5.90	B8	8-8-8 B8-B9	dome 18°F #7 {9391 #7 {9395	fine
								<u>not focus: 49</u>	
22 12	B	W 2 44	+0 15	0-1	5.95	B8	8-8-8 B8-B9	#7 {9395 #7 {9399	fine
22 40	C	W 3 07	+11 06	0	6.24	B8	8-8-8 B8-B9	(4) {9399 #7 {9403	fine
23 07	A	W 0 18	57 23	0	5.77	B9	8-8-8 B8-B9	(4) {9403 #7 {9407	fine
23 32	B	W 0 37	65 20	0	6.22	B9	8-8-8 B8-B9	(4) {9408 #7 {9412	fine
00 07	C	W 1 05	-27 05	0-	5.64	B8	8-8-8 B8-B9 (d.e)	TELESCOPE NEAR used v.B. for 1st 1/2 hr #7 {9412 #7 {9415	weak
00 43	A	W 0 17	-21 59	0-	5.25	B8	8-8-8 B8-B9	focus dome 16°F (4) {9416 #7 {9420	weak
01 00	B	W 0 27	17 43	0-1	8.2	F7	8-8-8 5th d. vel. CLOUDS	(45) {9422 #9 {9424	weak
							30/30		
								PECULIAR NOISES - SHOULD BE LOOKED CLOCK FOR STD TIME IS MAKING	
								NOT RELIABLE	
								REQUIRES ATTENTION UPPER (WEST) DOME TURNING SWITCH	

201 PH A loaded (G40)

Date Mar 27 1965 Sat Sun Observer FL Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
28283				G10	Iludb	9				
28 Mar/65 - Sun										
28282 F ₂	focus test.			G10	Iludb	9	31°F			A
28282 F ₃	" "			G10	Iludb	9	29°F			A
28283 F ₄	focus test			G10	Iludb	9				A
28282 F ₄	focus test			G10	Iludb	9	29°F			A

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 20° Transparency Conditions Haze + Clouds

Focus

Dome Temp.

Ending Time
EST.

PH

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Clouded out // (photo)

31/30 dome temp 32°F

sl c to red

30/30 focus changed from 1.5 to 2.5

c to red

readjusted arc gap to $\sim 1/4"$. plate
broke during exposure

same amt

30/30 focus changed from 2.5 to 2.0

sl c to red

203

Date 30-31 Mar/65
Tues - WedObserver Ch - Mt
Moe

Julian Day

EST APPROX.

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
28283	HD 58978	07 22.8	-22 53	G40	Ilab	13	24°	19 ^h 32 ^m 8	19 48	A	0 36 W
28284	BD +45° 1753	09 36.7	+45 30	G40	Ilab	17	24°	20 03 ¹³⁹	00 40	B	2 55 W
28285	HD 103095	11 47.2	38 26	G40	Ilab	13	15°			C	
28286	HD 107328	12 15.3	+03 53	G40	Ilab	13				A	
28287	BD +29° 2495	14 02.6	29° 45'	G40	Ilab	17				B	
28284 T	Calibration Step Wedge for plates 28283 - 4										

Dome Temp.

Focus 50

Dome Temp.

205

Date 31 Mar - 1 Apr

Observer Hb - Re

Julian Day

Wed - Thurs

M re

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
28285	HD 54605	07 04.3	-26 14	G10	IIaOb	9		19 13 ¹⁷	19 47	A	01 00 W
28286	+ Gem HD 47105	06 31.9	+16 29	G10	IIaOb	9XL	28°F	19 55 ⁵	20 05	B	00 14 W
28287 F				G10	IIaOb	9				B	
28287	+ Gem HD 47105	06 31.9	+16 29	G10	IIaOb	9XL	28°F	20 07 ⁶	20 18	A	01 01 W
28288	HR 2932 HD 61221	07 33.1	-14 13	G40	IIaOb	13	28°F	20 30 ¹³	20 55	A	01 40 W
28289	HR 3470 HD 74604	08 39.8	+67 05	G40	IIaOb	13	27°F	21 07 ⁵	21 17	B	02 54 W
28290	HR 3774 HD 82327	09 26.2	+74 47	G40	IIaOb	13	27°F	21 21 ⁵	21 37	C	00 27 W
28291	HR 4215 HD 93427	10 42.1	+65 40	G40	IIaOb	13	27°F	21 42 ⁵	21 52	A	01 31 W
28292	HR 4317 HD 96314	11 01.1	-26 45	G40	IIaOb	13	26°F	22 20 ³⁰	22 30	B	00 03 W
28293	HD 92588	10 36.3	-01 13	G40	IIaOb	13	25°F	22 37 ⁴⁸	23 37	C	01 35 W
28294	HD 103095	11 47.2	+38 26	G40	IIaOb	13	23°F	23 45 ⁴⁸	1 ^{0100?} 20	A	01 51 W
28294T	H Calibration Wedge						28288 - 94			B	
28294										C	

TIMES ARE VERY
UNRELIABLE - WATCH LOG

Dome Temp. (G40)

Focus 5.2

Dome Temp.

Hour Angle End

01 00 W

00 14 W

01 01 W

01 40 W

02 54 W

00 27 W

01 31 W

00 03 W

01 35 W

01 51 W

FROM

BY

Dome Temp. 33°F
 (940) Focus 52/51/50/

Transparency Conditions excellent

Dome Temp.

1130 - THIN HAZE BEGINNING TO APPEAR.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	ALL 3 PLATES WERE IN PH. A; POSSIBLY IT IS A PLATE PROBLEM	Quality
19 47	A	01 00 W	-26° 18'	0	2.48	F8	6-6-6	FL supragiants	PLATE BROKEN DURING EXP. (22) 9494	#4 {9516 weak
20 05	B	00 48	+16° 26	0	1.9	A010	6-12 H/d	long slit - double exposure	(30) 9516	#4 {9546 fine
	B						30/30			
21 18	A	01 01	+16 26	0	1.4	A010	6-6-6 H/d	" " - " "	(30) 9546	#4 {9576 fainting
20 55	A	01 40 W	-14° 19'	0	6.40	B9	8-8-8 B8-B9	focus set: 52 (dfe)	(4) 9577	#7 {9581 fine
21 17	B	00 54 W	+66° 52'	0-1	6.10	B8	2-8-8 B8-B9	delay - first blow in RA slow motion	(4) 9582	#7 {9586 fine
21 37	C	W0 27	74 30	0	6.36	B9	8-8-8 B8-B9		(4) 9587	#7 {9591 fine
21 52	A	01 31 W	65 19	0	6.22	B9	8-8-8 B8-B9		(4) 9592	#7 {9596 fine
22 30	B	00 03	-27 05	0	5.64	B8	8-8-8 B8-B9 (dfe)	focus set: 51	(4) 9596	#7 {9600 L weak
23 37	C	N1 35	-01 32	0	7.4	K1	8-8-8 Std. Vel.	FIELD DRAWN	(20) 9601	#8 {9621 fine
24 15	A	N1 51	38 00	0	7.3	B5	8-8-8 Std. Vel.	focus set: 50 FIELD DRAWN	(15) 9622	#8 {9637 L weak
	B				6.6	B7				
	C				6.5	B8				

CLOUDS

FROM 2100 TIMES ARE OUT BY AT LEAST 15 MIN.

UPPER (WEST) DOME TURNING. BUTTON REQUIRES ATTENTION

RE VER
 IE - VATE

LOSING TIME ALL EVE.

207 PM B & (400) loaded

Date 2 Apr - 3 Apr Observer Mc SR - ME Julian Day

361 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
355-3173	γ Gem	6 ^h 35.7	+16° 26'	6/2/3+5/4/3		28"		20 ^h 04			18 ^h 4 ^m 10 ^s
-3174	γ Gem	"	"	5/3/3		28		20 37			237 ^m "
355-3175	ϵ Aur	4 59.5	+43 47			28"					
355-3175	ζ Gem	7 2.1	+20 37	6/4/2/6/5/2		28"		21 ^h 22			2 ^h 59 ^m W
355-3176	ζ Mon	8 6.9	-2 52	6/3/2 6/5/3		28 28"		21 ^h 53			2 ^h 28 ^m W
355-3177	β Cnc	8 14.7	+9 18	6/5/3		28		22 ^h 23			2 ^h 48 ^m W
355-3178	77912	9 4.3	+38 36	6/5/3		28"		22 ^h 57			2 ^h 24 ^m W
355-3179	ζ Leo	10 14.7	+23 35	6/3/3		28"		23 ^h 20			1 ^h 43 ^m W
355-3180	50 UMa	11 21.0	+43 41	6/5/3		28"		23 ^h 48			1 ^h 5 ^m W
355-3181	ρ Boo	14 30	+30 31	6/5/3		1		0 ^h 21			1 ^h 32 ^m E
28298 F				640 IIaOb		13					
28295	HD 123782 HR 5655	14 ^h 04.6	+49° 56'	640 IIaOb		13	22°F	01 ^h 20 ¹⁰	01 40 ⁴⁰	B	0 ^h 00
28296	HD 134946 HR 5999	15 07.5	-23 38	640 IIaOb		13	22°F	02 00 ²⁵	03 20	C	0 ^h 42 ^m W
28297	HD 144651	16 01.9	-24 11	640 IIaOb		13	22°F	03 28 ⁹	04 20	A	0 ^h 43 ^m W
28298	HD 145001	16 03.6	+17 19	640 IIaOb		13	22°F	04 32	04 50	B	0 ^h 15 ^m W

Dome Temp.

Transparency Conditions *Perfect*

Focus *49.8*

Dome Temp. *22° (0100)*

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		<i>19^h 4^m (middle)</i>		<i>4"</i>	<i>1.95</i>	<i>A0 IV</i>		<i>Ext St.</i>	
		<i>2^h 37^m (")</i>		<i>5</i>	<i>1.95</i>	<i>A0 IV</i>		<i>" at the end star a little bit out of centre</i>	
					<i>4.3</i>	<i>F0 Ia</i>			
		<i>2^h 59^m W (middle)</i>			<i>5</i>	<i>G9 Ib</i>			
					<i>5.3</i>	<i>G2 Ib</i>			
		<i>2^h 28^m W</i>							
		<i>2^h 48^m W</i>		<i>4"</i>	<i>4.5</i>	<i>K4 III</i>		<i>at the end * walked nearly out</i>	
		<i>2^h 24^m W</i>			<i>5.5</i>	<i>G8 Ib</i>			
		<i>1^h 43^m W</i>			<i>4.0</i>	<i>F0 II</i>			
		<i>1^h 5^m W</i>			<i>5.5</i>	<i>G8 II</i>			
		<i>1^h 32^m E</i>			<i>4.9</i>	<i>K3 III</i>			
							<i>30/30</i>	<i>Focus Test</i>	
<i>01 40</i>	<i>B</i>	<i>0^h 00</i>	<i>+49° 38'</i>	<i>0-1</i>	<i>6.8</i>	<i>M2</i>	<i>8-8-8</i>	<i>Std. Vel.</i>	<i>#7 { 9644 9652 fine</i>
<i>03 20</i>	<i>C</i>	<i>00^h 42^m W</i>	<i>-23° 40'</i>	<i>0</i>	<i>6.6</i>	<i>B9</i>	<i>8-8-8</i>	<i>B8-B9</i>	<i>#7 { 9653 9658 fine</i>
<i>04 20</i>	<i>A</i>	<i>0^h 43^m W</i>	<i>-24° 20'</i>	<i>0</i>	<i>6.5</i>	<i>B8</i>	<i>8-8-8</i>	<i>B8-B9</i>	<i>#7 { 9657 9661 fine</i>
<i>05 50</i>	<i>B</i>	<i>01 15 W</i>	<i>+17 08'</i>	<i>0</i>	<i>6.1</i>	<i>G4</i>	<i>8-8-8</i>	<i>Std. Vel.</i>	<i>#7 { 9661 9667 fine</i>

209
PH 1A loaded.

160 visitors, showed Mars, Uranus, - V, Jov. Sm.

Date Sat. April 3-4, 1965. Observer McCl + SK + ^{RL}JR Julian Day 171.5

[illegible]

Dome Temp.

Transparency Conditions *Good*

210

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		10 ^h (middle)						to repair transmission at spectro photom eter + fix meter to it	
		0 ^h 4 ^m W						} Stds	
		0 ^h 15 E							
		1 ^h 57 ^m							

24

Date 4-5 Apr 1965 Observer Am - H. H. Chase Julian Day 165

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
28299	HD 47105 J Gem	06 31.9	+16 29	G10	IIaOb	9x2	37°F	19 20	19 32	B	01 27W
28300	"	"	"	"	"	"		19 34	19 46	A	01 45W
28301	HR 2374 HD 46075	06 26.1	+11 52	G40	IIaOb	13	36°F	19 58	20 20	B	02 25W
28302	HR 2605 HD 51688	06 53.3	+26 03	G40	IIaOb	13	36°F	20 26	20 42	C	02 31W
28300 F1	focus test			G40		13	36°F			A	
28303	BD 145°1859	10 38.3	+45 12	G40	IIaOb	17	33°F	20 55	00 01	A	01 54W
28304	HD 114762	13 07.5	+18 02	G40	IIaOb	13	28°F	00 09	00 52	B	00 17W
28305	BD +29°2495	14 02.6	29 45	G40	IIaOb	17	28°F	00 59	03 05	A	01 35W
28306	HD 131861	14 50.9	45 43	G40	IIaOb	13	26°F	03 16	04 55	B	02 38W
28306 T	Calibration Step Wedge				for plates			28275-98	28301-06		

Dome Temp. 38°F
 Focus $54 \frac{1}{2} / 57 \frac{2}{3} /$
 Dome Temp. 27°F

Transparency Conditions EXCELLENT

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 32	B 01 27 W	+16 26	0	1.9	AOTW	6-6-6	Hd	(30) 9673 #4 {9703 fine
19 46	9 01 45 W	"	"	"	"	6-6-6	Hd	(30) 9704 #4 {9734 guiding
20 20	B W 2 25	+11 51	0	6.46	B8	8-8-8	B8-B9 focus 54 1/2	(30) 9735- fogged
20 42	B 02 21 W	+26 59	0-1	6.27	B9	8-8-8	B8-B9	#6 {9737 fine
	A					30/30		(30) 9738 #7 {9742 fine
00 01	A W 1 54	+44 53	0-1	9.59	F4	8-8-8	KAFS EXP METER NOT WORKING - WILL STAY AT ZERO AFTER FOCUS	sl. center to red. (30) 9744 #9 {9774 fine
00 50	W 0 17	+17 43	0-1	8.2	F7	8-8-8	std Vel focus set: 57 1/3	(30) 9775 #9 {9805 badly fogged
03 5	A 01 35 W	29 26	0-1	10.00	F8	8-8-8	KAFS	(30) 9806 #9 {9839 fine
04 15	B W 2 38	45 27	0	7.64	F3	8-8-8	KAFS THIN CLOUDS DURING EXPOSURE	(30) 9840 #8 {9855 guiding
26301-01								

- 8 and plates in dome

213

Date 5.6 Apr/65Observer Hyon- How Julian 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	
28307	HD 47105 f G.C.M.	06	31.9 +16	29	G10	π a Ob.	9xL	19 21	19 41	B	W1 45	
28308	HD 45105						41°F			B		
28307 F ₁	focus test				G10	π a Ob.	13	41°F		A		
28308	HD 89449	10	14.3 +19	59	G10	π a Ob.	13	38°F	21 55	22 05	B	W1 27
28309	HD 107328	12	15.3 +03	53	G10	π a Ob.	13	38°F	22 13	22 31	C	E1 09
28310	BD +29° 24' 5"	14	02.6 +29	45	G10	π a Ob.	13	34°F	22 41	02 41	A	0116W
28311	BD 131861	14	50.9 45	43	G10	π a Ob.	13	34°F	02 56	04 46	B	W1 85
28310T	Calibration Step Wedge						17					
								28308-11				
8/Apr/65 - dome temp 43°F												
28310 F ₁	focus test				G10		13	39°F		A	02 hr	
28310 F ₂	focus test				G10		13	39°F		A	"	
28310 F ₃	focus test				G10		13	38.5°F		A	"	

214

Dome Temp. 43°F
 Focus $56/54\frac{2}{3}/54$
 Dome Temp.

Transparency Conditions VERY POOR AT START - MUCH
CLOUDS W SW + W.

haze getting thicker from 0300

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
9 41	B	W-1	45 +16	27	0-0	1.9	A0126-6.6	Hd	#4 {9858 9888	fine
	B									
	A						30/30	focus set 56 (BEFORE #25306)	sl c to r	
								<u>CLOUDING IN</u>		
12 15	B	W 0	27 +19	40	0	5.3	FS 8.8	Astd. Uel. focus 5 2/3	#7 {9893 9900	fine
12 31	C	E 1	08 +03	30	0	6.1	K1 8.8	Std Uel.	#7 {9904 9909	guiding
02 41	A	0116 W	29	27	0	10.00	FR 8-8-8	KAFS	#9 {9910 9937	fine
04 46	B	U 2	35 +5	26	0	7.64	F3 8-8-8	KAFS focus set 54	#8 {9938 9947	nothing
								A LOST CAUSE - CLOUDS		
								EVIDENTLY CAMERA DEVICE CAN BE UNATTACHED EITHER TO EXP.		
	A	51 1/2 hr					50/50	focus set 56		clear
	A	"					50/50	focus set 57		val c to r
	A	"					50/50	focus set 58		fogged, focus OK

215

PH 5 B & C (G & D) loaded

Date Fri Apr 9-10/65

Observer

Hd

V

- Mt

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
28311	8 Gem	6 31.9	+16 29	G10	IIaOB.	9 ^L	38	20 00 ⁷	20 14	A	W 233
28312	"	"	"	"	"	9xL		20 18 ¹⁸	20 44	B	W 3 03
28312 F	Focus test				IIaOB.	9		in in / out out		A	
28313	HD 81797	9 22.7	-8 14	"	"	9xL	37	21 08 ³	22 10	C	W 139
28313 F	Focus test			"	"	9				B	
28314	HD 107328	12 15.3	+03 53	G40	IIaOB	13	34 ¹⁹	22 45 ²³	23 23	B	00 01 E
28315	HR 4857 HD 111226	12 42.6	-24 18	"	"	17	34	23 47 ⁸	00 32	C	00 31 W
28316	HD 123782	14 04.6	+49 56	"	"	13	34	00 45 ¹⁶	01 00	A	0 12 E
28317	HD 130644	14 40.9	+45 36	"	"	13	34	01 13 ³⁰	01 45	B	0 0 E
28318	HR 5655 HD 134946	15 07.5	-23 38	"	"	"	34	02 00 ¹⁷	03 00	C	0 4 W
28319	HR 5912 HD 142301	15 48.7	-24 57	"	"	"		03 09	03 43	A	0 45 W
28320	HD 144244	16 02.8	-23 25	"	"	"				B	
28319T	Calibration Step Wedge				for plates			28314-19			

Dome Temp.

Transparency Conditions

*little
hazy*

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 33	+ 16 28	1	1.9	A0 IV	6-6-6	1st Sp Rin	4 { 9950 9965 out of focus
W 3 03	"	1.0	"		6-6-6		" 4 { 9967 9997 out of focus
W 1 39		1	2.2	K5	6-6-6	Std Vel. Plate broken can't understand why it took so long.	4 { 1997 0025 out of focus
00 0 1 E	+ 63 31	0	6.1	K1	8-8-8	Std Vel. Set Focus 54	7 { 0022 0030 fine
00 37 W	- 24 37	0-1	7.1	B9	6-6-6	B8-B9	8 { 0034 0044 weak
0 12 E	+ 49 37	1-2	6.8	M2	8-8-8	Std. Vel.	8 { 0045 0065 weak
0 04 E	+ 45 19	1	7.64	F3	8-8-8		8 { 0066 0081 good exposure
0 45 W	- 23 51	0	6.6	B9	8-8-8	B8-B9 (blew a fuse 2 buttons at once)	7 { 0082 0086 weak
0 45 W	- 25 07	0	6.2	B8	8-8-8	B8-B9	7 { 0087 0091 weak
			5.9	B9		B8-B9	7 { 0092 0096

03 50 ; Handle to unex plate not working. Closed up.
 Repaired Longworth

217 PH A, B, C loaded

Saturday April 10, 1965 150 visitors showed
the moon Cr, Fl, Dm

Date 12 Apr 1965

Observer

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
28319 F ₁	focus test			G10	IIa D6	9	36°F			A	12h 00
F ₂	focus test			G10	IIa D6	9				A	"
F ₃	focus test			G10	IIa D6	9	35°F			A	"
F ₄	focus test			G10	IIa D6	9	35			A	"
F ₅	focus test			G10	IIa D6	9	35			B	"
F ₆	focus test			G10	IIa D6	9	35			C	"
28319 F ₇	Focus			G10	IIa D6 ^{unbr.}	9	32°F			A	"
F ₈	"			"	"	"	"			A	"
F ₉	"			"	"	"	33			A	"
28319 T ₂	Sky Spectrum			"	"	"	33	sky: 15 S		A	"
F ₁₀	Focus			"	"	"	33			C	"
F ₁₁	Focus			"	"	"	36			A	"

Blue sky
about 3 pm
near 6

Dome Temp. 40°F

Focus

Dome Temp. 39°F

Transparency Conditions

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

8-19 DEVELOPMENT REMARKS

Quality

A

12 hr w

60/60

focus set to 1.5 from 2.0

C to R

A

"

60/60

focus set to 1.0 from 1.5

V S I C to R

A

"

60/60

focus set to ~~0.8~~ from 1.0

V S I C to R

A

"

60/60

focus set to - 9.5 from 9.0

FAIR
V S I C to R

B

"

60/60

same

C

"

60/60

same

Testing B & C for consistency
with P.H. A

S I C to R

A

In in/out out

60/60

focus

8.0

C to R by 15 μ

A

"

60/60

"

6.0

C to R by 6 μ . ii correct nothing
should be 4.7

A

"

60/60

"

4.7

C to R again! by ¹³ μ !

A

"

15 S

shows bad edges on sky sp.

C

"

60/60

Focus 4.7 Diff. P.H. C to R by ³⁴ μ !Maybe I didn't turn far enough for the backlash.
Anyway, I reset again at 4.7.

A

"

60/60

Focus 4.7 C to R by 13 μ Very unsatisfactory! Why the discrepancy between F_8 & F_9 ?
Perhaps because the telescope was moved to 40 min west
in order to get the sky!all measures of
displacement
made at 3930.

219

Date 13-14 Apr/65

Tues - Wed

Observer

F/ ~~2115~~ Mt
Myre

Julian 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
28319 F ₁₂	focus test	—	—	G40	IIaOb	13	38°F	—	—	A	
28320	HD 4710 + 06	34.6 + 5	50 76	G40	IIaOb	13	38°F	19:55		B	
28320	HD 4710 7 06	31.9 + 5	53	G40	IIaOb	13	38°F	20:20 ³⁵	21 30	A	W 4 16 +
28321	BD + ⁴⁵ 1753	09	36.7 + 45 30	G40	IIaOb	17	36°F	21 42 ⁸⁹	00 40 ¹⁹	B	W 4 12 +
28322	HD 130044	14 40.9	+45 36	"	"	13		00 55 ²¹	01 32 ⁵²	C	000
28323	HD 144579	16 01.5	+39 24	"	"	13		02 05 ⁴⁶	02 46	A	00 06
28324	HD 161306	17 39.7	-09 46	G40	IIaOb	17	32°F	02 58	04 29	B	00 02
28324 T5	Calibration Slip	Wedge									
28324 F ₁	Focus test		+30°	G10	IIaO	9	35°F			A	01 00 W
F ₂	"		"	"	"	"	"			A	"
#3 T1	Sky spectrum		"	"	"	9	35°F			A	"
#4 T2	"	"	"	G40	IIaOB	4	50°			A	
#5 T3	"	"	"	G40	"	4	50°			A	
#6 T4	"	"	"	G10	IIaO	9				A	1/21 curv

Dome Temp. —

Focus 5.8

Dome Temp. —

Dome Temp. 43°F

Focus 58 / 55 / 53 1/2

Dome Temp. 37°F

(moon near full)
Transparency Conditions excellentEnding Time
EST.

PH

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

A						30/30	focus set 58			
				7.7	0.3	8-	(FINDER FIELD) WRONG STAR	#9 {0124		
1 30 A	W 4	06 +5 52	0	7.7	0.3	8-8-8	IMON (SK) FIELD DRAWN	#9 {0100		
00 20 B	W 4	12 H 5 13	8-1	9.87	H 2 V	8-8-6	KA FS (Hd) Focus set to 55 DOME 37°F FIELD DRAWN	#9 {0131		
01 32 C	000	+45 20	1	7.64	F3	8-8-8		#8 {0159		
02 46 F	E 0	06 +39 15	0-1	7.2	G8	8-8-8	Std Vel	#8 {0176		
04 10 B	E 0	02 -9 47	0	8.77	Ble	8-8-8	Gr. Be focus 53 1/2	#9 {0192		
								#9 {0222		
A	01 ^h 00 W	In-In / Out-Out				60/60	Focus 0. (on the fine scale)			FOGGED
A	"	"	"			60/60	Focus 3 (" " " sl.) Focused			OK
A	"	"	"			15	Missing - between dome and administration			
A						2 ^s	Focus 59			focused
A		(shutters 2' open)				6 ^s	Focus 59			ONE IMAGE
A	1/2 of corrector covered					30 ^s				ONE IMAGE

Date 14-15 April/65 Wed/Thurs Observer Hb Julian Day Mse

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28325	8 Gem HD 47105	06 ^h 31 ^m 13 ^s	+16° 29'	G10	IIaOb	9XL	55°F	19 34 ¹⁶ 20 39	20 06	A
28325 F ₁	focus test			G10	IIaOb	9	48°F			A
28326										

Sat Apr 16/65 Hd.

I have an idea that the failure to hold focus on direction we have been doing, i.e. in pushing PH's change the focus. If this is so we should set the i.e. to smaller numbers. So I set this

28325 F ₂	focus test			G10	IIaOb	9	30F			A
28325 F ₃	"			"	"	"	"			A
28325 F ₄	"			"	"	"	"			A

Focus 2.80 looks good (with eyepiece). Others are c to
So I reset to 2.80 by turning up to 3.6 and then

Dome Temp.

Transparency Conditions *very poor*

222

Endg Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
0006	A	02 45W	+16° 29'	C	1.9	AOTV	6-12	Hd Sp Bin	CLOSED up Duf To CLOUD	0230 0241 0250	exp. pos. ok but comp. lines are wide
	A						30/30	plate broke during exp.			C. to red (for what it is worth)
<u>ALL UNEXP. PLATES</u> IN REFRIGERATOR											
G10 may result from taking up slack in the horns we may slip the clamp and so focus always by turning the knob counter clockwise way in the following											
	A							on coarse scale on fine scale			
	A						5/5	set focus 2.80			best
	A						5/5	" " 2.40			C 12 vi
	A						5/5	" " 2.00			C 12 vi
vi (significantly, perhaps (?) the point we have had for some time) back (counter clockwise) to 2.80. Let us see if it will repeat.											

Sat. Nite: ~160 persons: Showed Mars in 74" FL, Ck, Cc
223

Date Sun Apr 18-19/65 Observer Hd - H₂ M₂ Julian Day 174

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
28325 F ₅	Focus	in - in / out out	G10	IIaOB	9	35°F				A	
28326	HD 78362	09 02.7 +63 55	G10	"	9		19 56 ⁹³	23 02		A	13 20
28326 F	Focus	in in / out out	G10	IIaOb	9	33°F				A	
28326 T ₁	Sky Spectrum	hair across slit	G10	IIaO	9	32°F				A	slit
T ₂	" "	" "	G10	IIaO	9	32°F				A	
T ₃	"	"	"	"	"	"				A	
F2	Focus Test	" 2x-in / slit-slit	"	"	"	"				B	
T4	Sky Spectrum	hair across slit	R10	IIaO	9	35°F				A	
T5	"	"	"	"	"	"				A	
F3	Focus Test	2x-2 / slit-slit	"	"	"	"				B	
Perhaps the difference of focus between spectrum edge and spectrum - so we placed a piece of shim stock supposedly touching the slit											
T6	Sky + 6 in are full aperture	G10	IIaO	9						A	

225

363

Date 19-20 April/65

Mon - Tues

Observer *Kr - Hs*

Me

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28327	HD 47984	06 36.1	+6 13	G40	IaOb	13	39° ³¹	19 49	20 51	A
28327 F,	focus in in/out out	"	"	"	"	"	37°F	—	—	B
28328	p Leo HD 91316	10 27.5	+09 49	G10	IaOb	9xL	35°F	21 06 ⁴⁸	23 22	A
28328 F,	focus in in/out out	"	"	G10	IaOb	9	—	—	—	B
386-3182	α Leo 87901	10 6.5	+12 9				11 37 ⁴²			
28329	HD 131861	14 50.9	+45 43	G40	IaOb	13	33	00 21	02 25	C
28329 T,	Calibration Step Wedge				for plates		28327, 28329			

Dome Temp.

0210 Clouds.

226

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
051	A	W3 46	+6 10	0	7.2	A2Ib	8-8-8	(SK) I Mon FINDER FIELD (NOTE BELOW)	(25) 0292 #9 { 0317
	B						30/30	focus 47.12	guiding? O.K
032	A	W2 26	+9 31	0-1	3.85	BIIb	8-8	Interstellar line prog.	#5 EQUIP. FOR SET FOR ST. PHOT.
	B						30/30		guiding O.K
								I am sorry it is definitely not photometric	
0225	A	0108W	45 26	0-1	7.64	F3	88-8	KAF5 focus at 53	(30) 0345 #9 { 0373
									fine half plate fogged
								WHERE IS THE SAFETY CHAIN FOR G40 PLATE HOLDER??	
								NOTE: FINDER FIELD FOR 28327 THERE IS A LARGE DISCREPANCY BETWEEN THE -6" FINDER & THE MAIN INSTRUMENT	

227

1 hr work on 2-ch. phot. at start

Date 20-21 April /65 Observer V SK
Tues. - Wed Urb - Pmt Julian Day Msc

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
354											
357 -3183	α Leo	10 06.5	+12° 09'		5-5-2	28		20:30			0° 10' W
3184	ϵ Leo	9 44.2	+23° 56'		6-5-2	28		21:03			1° 03' 13" W
3185	ζ Leo	10 14.7	+23 35		6-3-2	28		21 32			0° 5' W
3186	ι Cnc A	8 44.6	+28 54		6-4-2	28		21 58			3° 2' W
3187	ι Cnc B	"	"		6-5-3	28		22 23			3° 21' W
3188	η 912	9 4.3	+38 36		6-4-3	28		22 56			3° 35' W
3189	56 UMa	11 21.0	+43 41		6-4-2	28		23 18			1° 20' W
3190	δ Boo	14 30.2	+30 31		6-4-3	28		00 00			0° 43' E
3191	RCB	15 47	+28 34		6-6-3	28		0 41			1° 14' E
3192	HR 6050	16 10.5	+42 28		7-4-3 6/6/3	+sky		1 32			0° 24' E
3193	β Dra	17 29.7	+52 20		5/5/3	28		2 16			1° 25' E
3195	ξ Dra	17 52.9	+56 52		5/6/3	28		2 41			1° 23' E
3196	γ Her	17 55.0	+37 15		5/6/3	28		3 08			0° 54' E
3197	ν Her	17 57.2	+30 12		5/6/3	28		3 45			0° 1' E
3197	89 Her A	17 54.0	+26 3		6/6/3	28		3 45			0° 12' E
3197'	A'	"	"		6/6/3	28		4 20			0° 13' W

Dome Temp. 42° Transparency Conditions *excellent*

Focus

Dome Temp. 36° Ending Time
E.S.T.

P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 10 ^m W			1.3	B7V			
1 ^h 03 ^m + 1 ^h 13 ^m W			3.1	SO II			
1 ^h 06 ^m W			3.6	F0 III			
3 ^h 02 ^m W			5.0	G8 I			
3 ^h 21 ^m W			6	B3 V			
3 ^h 35 ^m W			5.5	G8 Ib			
1 ^h 40 W			6.0	G8 II		deep l. clouds in north	
0 ^h 43 E			4.8	K3 III			
1 ^h 14 E			6.0	C60			
0 ^h 34 E			5.9	K4 II		moon	
1 ^h 25 E			2.8	G2 Ib		deaths incl. faint comp.	
1 ^h 23 E			3.9	K2 III		Cirrus + cloudy condensations	
0 ^h 54 E			3.8	K4 II			
0 ^h 1			4.4	F2 II			
0 ^h 17 ^m E			5.4	F2 Ia		ice, paper	
0 ^h 13 ^m W							

Date 22-23 April/65 Observer - RC Julian Day
Thurs. Fri Mae

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
28330	^{p Leo} HD 91316	10	27.5 +09 49'	G10	TuOb	9xL	4/2 F ^Q 20	20 ⁸⁷	23 14	A	w 2 30
28331	HD 119476	13	38.4 65' 20"	G10	TuOb	normal 9 slit length				B	
28331	HD 119476	13	38.4 65' 20"	G10	TuOb	9 normal	4/1 OF 23	52 ²⁵	00 42	B	W D 51
28331	F, focus test	in-in/out out	a10	TuOb	9					A	

Dome Temp.

47°F

Focus

Dome Temp.

Transparency Conditions

poor - at least 1/2 mag absorption to 23 ss

230

Ending Time
EST.

PM

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

23 14 A

W 2 30

+09 29 0 -1

3.85

B17h

8-8-8

INTERSTELLAR LINE PROG

#5

0420

guiding

5.70

B9n

#6

0470

23 42 B

W 0 51

64 59 0

5.70

B9n

8-16

CLOUDS - CLOSED

#6

0474

very weak

30/30

0100

O.K.

→ SK attempted photometry but chart recorder is not working

nearly impossible to turn dome east of meridian - cable just slipping

231

365

Date 23-24 April/65

Observer HB - Mt

Julian Day

Fri-Sat.

SK

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
28332	HD 104337	11 ^h 55.7 ^m	-19° 06'	G10	IIaOb	9x2	42°F	20 49 ⁵⁹	22 47	A	00 39W
28332 F	Focus test			G10	IIaOb	9		in/out		B	
358 -3198	α Leo	10 6.5	+12 9		5/4/3	28"		23 08			3 ^h 16 ^m W
								23 15			
-3199	56 UMa	11 17.4	+44 02		6-5-3	28"		23 42			2 ^h 33 ^m W
28333	HD 149650	16 ^h 31.0	+61° 02'	G10	IIaOb	9	35°F	00 45	04 30	C	1 ^h 40 ^m W

Dome Temp.

Focus

Dome Temp.

Dome Temp. 41°F

Focus

Dome Temp. 34°
 Transparency Conditions 2000 Poor, Scattered Clouds $\downarrow 232$
 $2145 - \text{Good}$
Ph. 2 C (G10) loaded in N. Pier. 0100 Excellent (no cloud)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 39 W	$-19^{\circ} 27'$	0	5.28	B5	8-20	Interstellar line [Münchstd] $\{ 0481 \}$ rem 5: $\{ 0541 \}$	weak
					30/30		
			1.33	B7 II		clouds, very hazy	
$3^h 16^m$ W							
$2^h 33^m$ W			5.10	G8 II		thick clouds. FINIS	
$1^h 40^m$ W	$+60 55$	0	5.85	A1 II	8-8-8	Interstellar Fine Pgm. $\{ 492 \}$ rem 6 $\{ 304 \}$	l weak guiding

233

366

Date 24/25 April/65

Observer

- ^{Re} Mel

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.	How Angle End
	M3	Serge looked for W Vir star in M3									
358 T ①	γ Boo	13 ^h 53.1	+18° 34'		T = 10 m			01:00	01:45		ticks
28334	^{60 Her} HD 154494	17 ^h 00.7	12° 53'	G10	TA06	9xL	320	2 ^h 28	⁶⁰ 4 ^h 28	A	W 1/4

Dome Temp.

Favourable clouds at 23:00 - 23:45
Clear again at 24:00

234

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:45								tested photometer with star in various positions in diaphragm.	
1:28	A	W 1 ^h 19	+12° 47'	1	4.91	1937	8-8-8	Interstellar line Prog. Sine #5 { 5.07 5.29 good exposure	
								[plate found broken upon unloading plate holder - may have broken in unloading -	
								[Exposure meter very slow] - maybe not working right?	

1st half: DRY Run on "Auto Event" VB, Hr, & Halliday
235

Date 27-28 Apr/65 Observer - F-L Julian Day 171

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
28334 F ₁	focus test	in in/out out		6440	IIaD6	13	41°F			A	
28335	HD 142184	15	48.0 -23 41	6440	IIaD6	13	41°F	23 51 ⁵⁷	01 35	B	0 10E
28336	HD 161306	17	39.7 -09 46	6440	IIaD6	17	42°F	01 46	04 20	C	0 44W
28336 T	Calibration Step Wedge				for plates 28335-36						

237 1st half Pluto Obs. vdB, Ha, Mse

Date 28/29. Apr 65 Observer ^{Hv} SK Julian Day

367

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
359-3200	α CrB	15 ^h 33.1	+26° 50'	5	4-3	28"		01 ^h 08 ^m		
3201	HR 6050	16 10.5	+42 28	7	4-3	28		01 ^h 40 ^m		
3202	π Her	17 14.0	+36 50	6	4-3	28"		02 22		
3203	89 Her	17 54.0	+26 3	6	5-3	28"		02 47		
3204	γ Her	17 57.2	+30 12	6	4-3	28"		3 20		
3205	η Her	17 55.0	+37 15	6	5-3	28"		3 46		
3206	β Dra	17 29.7	+52 20	6	3-3	28"		4 12		

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

0^h 0^m

0^h 4^m

0^h 32^m E

0^h 44^m E

0^h 6^m E

0^h 12^m W

239

VB

1750

Date 29/30 Apr Observer 1750 Julian Day

Dome Temp.

Focus

Dome Temp.

[illegible]

240

Dome Temp.

Focus

Dome Temp.

CO₂ in } 1900
V700 }

Transparency Conditions Fine

2300 isolated clouds

0000 - getting windier windy NW

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		01 ^h 25W		2"	1.33	B74		Ext. ST	
1 sky		0 ^h 30 ^h 5a		3"	12.7	QSO			
		0 10W		4"	"	"		Small q, drifted out	
1 sky		0100W							
	A						30/30	focus set: 59	
20	B	E 0 20 45 28	0-1	7.64	F3	8-		KAFS DON'T EXPECT #9 { 0590	center to red center to blue
								ANY TURNING ON PLATE - CLOUDED OUT	weak

○○○○

241

Date 30 April / 1 May 1965 fr/sat Observer 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
28338 F1	Focus TEST			G-40	IIaOb	13	56°F	in in / out out		C	
28338 F2	Focus TEST			G-40	IIaOb	13	57°F	in in / out out		A	
28338 F3	Focus TEST			G-40	IIaOb	13	55°F	in in / out out		B	
28338 F4	Focus TEST			G-40	IIaOb	13	55°F	in in / out out		C	
28338	32 +29° 24' 5" 14 ^h 02 ^m 16 ^s		+29° 45'	G-40	IIaOb	17	54°F	21 15 ^h 22 45		A	03° E
28338 F5	Focus TEST			G-40	IIaOb	13	50°F	in in / out out		B	
May 1965 (Sun)											
28338 F6	focus test			G-40	IIaOb	13	55°F	in in / out out		A	01 W

Dome Temp. -

Focus

Dome Temp.

242

Dome Temp. ... 56.0 F

Transparency Conditions

Thin AS

Focus

Poor

Dome Temp.

2230 - clouds

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
at	C						30/30	Focus setting #61	v. sl. ctol
at	A						30/30	Focus setting #61	v. sl. ctol
at	B						30/30	Focus setting #59	ctol
at	C						30/30	Focus setting #63	v. sl. ctol
at	A	03E	+29° 26'	10.00	F8	8-16	8-16	KAPs Binoculars ^{CLOUDS} Focus 62 FIELD view	Too weak
at	B						40/40	Focus setting #60	very slightly center
								Closed up 0010 EST	too ad
at	A	01 W					40/40	focus set 62	v. sl. ctol

May 1st, 65: 180 visitors - showed Ranger VII film; Gd., ck, Sm.
243

Date May 2-3, Sun-Mon, 1965 Observer Fl - 2, se Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
28339 ⁸	HD 103095	11 47.2	+38 26	G40	IIaOb	13	52°	21:32 22:59	21:42 00 34	B
28340 ³⁹	HD 136202	15 14.2	+02 09	G40	IIaOb	13	50°F	00 39	01 53	C
28341	HD 161701	17 41.9	+42 40	G40	IIaOb	13				B
28339 F ₁	focus test in in/out at G40				IIaOb	13				B
28339	Calibration Step Wedge									
3 May/65										
28339 F ₂	focus test in in/out at G40				IIaOb	13	67°F			A
	" " " " " "				"	"	"			A
28339 F ₃ T ₂	sky spectrum G10 with hair across slit and actually in contact with the jaws.									A

Dome Temp. 5
Focus 62
Dome Temp. 4

Hour Angle
End

00:17 W
43 09 3

W 1 02 T

Dome Temp. 56°FFocus 62Dome Temp. 49°F

Transparency Conditions

"variable cloudiness"

Poor High Cirrus

244

00 00 - ~1 mag absorption

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:17 W W 3 09	37 59 0	7.3	G5	8-8-8	Focus 62 Std. Vel. Star	exposure halted at 21:42 (clouds)	(15) {605 sens {629
W 1 02	701 55 0-0	5:6	G0	8-8-8	Std Vel	patchy clouds	(3) {627 #6 {624
		6.05/39			BS-34 PROA		#8 {635
					30/30		O.K.
						CLOUDS - SUCID BY 0215	
					30/30	dome 71°F	focus not 67
					50/50	" 70°F	"
						The hair line is <u>double</u> !!	EX-REALLY POORLY SEEPS OK
						14 EXPOSED PLATES IN REFRIG.	OK

245

R.A.S.M. Button Replaced. Hr

Date 5-6 May 1965
Wed - Thurs

Observer SK - H/m

Julian Day

[illegible]

Dome Temp.

NB

So T20 gives same resolution as 78 use to

Transparency Conditions

Transparency Conditions *fair at start - poor
excellent after midnight*

246

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			25 12		3	G856		diaphragm had to be set etc., slit anew	
		3 ^h 12 ^m W			4.0	G5II		adapted	
		3 ^h 32 ^m W			5.8	B9E		clouds	
					2.8	G216		clouds, finished	
00 27	A	00 11 W	45 27	0-0	764	F3	8-8-8	KAFS Binaries [focus 62 1/2 ~ 2333] improved seeing	fine
	B				53733E		in - 80	#8 06 25	
		0 ^h 32 ^m W			2.23	A0E		Std photometric conditions, but not excellent	
		0 ^h 45 ^m E			2.8	G216			
		0 ^h 30 ^m E			7.0	F2 Ia		(photometrically)	
					5.4	F2 Ib		all clouded over; 3 ^h 12 ^m EST	
03 30	B	E 0	48	1	5.7	B8	12-12	138-139 (focus 54) #7 - 3 counts	fine
03 51	C	W 0	44 -14	43	0-1	6.05	139	8-8-8 138-39 #7 { 06 76	quiescing
04 10	A	E 0	55 113	13	1	6.07	B8	8-16 138-39 clouds & daylight #7 { 06 79	poor / quiescing
								06 80	
								unexposed, plate in refrigerator	

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

Dome Temp. _____
Focus _____
Dome Temp. _____

Hour Angle
End

00

Dome Temp.

Transparency Conditions

248

[illegible]

Date May 11/12 Tu/We

Observer McC + V.B. Neal

Julian 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
371 - 1	HD 96833	11 07.5	+44 42		$\tau=10^6$	38"		09 00	21 27		1° 19W
2	"	"	"		"	"			21 34		1° 26W
3	HR 4534	11 47.2	+14 47		$\tau=10$	38			21 50		1° 04W
3	HR 4540	11 48.8	+01 58		10	38			21 59		1° 10W
5	HR 4550	11 50.5	+38 05		10	38			22 08		1° 16W
6	HR 4662	12 13.6	-17 20		10	38			22 19		1° 50W
7	HR 5019	13 16.5	-18 06		10	38			22 25		0° 09
8	HR 4583	13 10.2	+28 04		10	38			22 34		0° 24
9	HR 5072	13 26.6	+13 59		10	38			22 45		0° 19
10	HR 5235	13 52.9	+14 35		10	38			22 52		0° 00
11	HR 5062	13 23.7	+55 10		10	38			23 03		0° 32
12	HR 4531	12 59.1	+56 34		10	38			23 12		1° 13
13	HD 96833	11 07.5	+44 42		10	38			00 29		0° 424
14	HR 4550	11 50.5	+38 05		10	38			00 44		0° 355
15	HD 96833	11 07.5	+44 42		10	38			00 48		0° 448
16	HD 4983	13 10.2	+28 04		10	38			01 07		0° 259

Dome Temp.

CO₂ inTransparency Conditions very fine

Focus

700V

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 27	1° 19W			3.01	K1 III		Testing A4, A5, B5 / A4 - ?	
21 34	1° 26W						V B U 1C4	
21 50	1° 09W			2.14	A3 V		A2, A1, A4	
21 58	1° 10W			3.61	F8 V		B1, A5, B3	
22 08	1° 16W			6.45	S8 V		C1, C1, C4	
22 13	1° 05W			2.60	B8 III		A4, A3, A5	
22 25	0° 09			4.75	S6 V		B3, B3, B6	
22 34	0° 24			4.28	S0 V		B2, B1, B4	
22 45	0° 19			4.98	S5 V		B3, B3, B6	
22 52	0° 00			2.69	S0 V		A3, A3, A6	
23 03	0° 39			4.01	A5 V		B1, A5, B3	
23 12	1° 13			4.93	F2 V		B3, B2, B5	
00 24	2° 42 4			3.01	K1 III		A4, A5, B5	
00 44	2° 35 5			6.45	G8 V		B6, B6, C4	
00 48	2° 44 8			3.01	K1 III		A4, A5, B5	
01 07	2° 25 9			2.28	G1 V		B2, B2, B5	

1° 2 Clamp does not
unclasp
2° 5 slow motions
broke down

Date May 11-12 Contd. Observer Hr McI Julian Day 175

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

EXCELLENT

254

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

5 20W

5 42W

5 50W

5 27W

Integrator #1 Malfunction. Fixed
R.A. Elong Sw. " "
Hv

255

Date 12-13 May Observer Cm. Julian Day Wed - Thurs
May

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
28344	HD 98262 V U Maj	11 13.1	33 38	G40	IIaOb	13	63°F	20 54	20 55	A	W 0.43
28345	"	"	"	"	"	"		20 56	21 00	B	W 0.48
28346	HD 111812 31 Com	12 46.8	28 05	G40	IIaOb	13	62°F	21 08	21 16	C	E 0.30
28347	"	"	"	"	"	"		21 17	21 33	A	E 0.12
28348	HD 114710 β Com	13 07.2	28 23	G40	IIaOb	13	61°F	21 36	21 40	B	E 0.25
28349	"	"	"	"	"	"		21 42	21 49	C	E 0.16
28350	HD 116842 80 U Maj	13 21.2	55 31	"	"	"		21 55	21 56	A	E 0.23
28351	"	"	"	"	"	"		21 58	22 02	B	E 0.18
28352	HD 123299 α Dra	14 01.7	46 51	"	"	"		22 11	22 13	C	E 0.45
28353	"	"	"	"	"	"		22 14	22 18	A	E 0.40
28354	HD 126660 θ Boo	14 21.8	52 19	"	"	"	60°F	22 23	22 25	B	E 0.53
28355	"	"	"	"	"	"		22 26	22 30	C	E 0.48
28356	HD 127665 ρ Boo	14 27.5	30 49	"	"	"		22 37	22 41	A	E 0.44
28357	"	"	"	"	"	"		22 42	22 50	B	E 0.25
28358	HD 127762 δ Boo	14 28.1	38 45	"	"	"		22 53	22 53.5	C	
28359	"	"	"	"	"	"		22 55	22 57	A	E 0.27

Dome Temp. 67°F
 Focus $65\frac{1}{2}$ / $64\frac{1}{2}$ /
 Dome Temp. 57°F

Transparency Conditions ~~poor~~ - considerable cloud, 256:

Ending Time EST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 55	A	N 0.44	33 18	1	4.86	F2 $\overline{10}$	24	NK standards focus $65\frac{1}{2}$ #6 {1 1/2 conts	fine
21 00	B	W 0 48	"	"	"	"	"	#6 {3 conts	fine
21 16	C	E 0 30	27 45	1	5.63	G2 $\overline{11}$	8-16	#6 {0696	fine
21 33	A	E 0 12	"	1	"	"	B-8-8	#6 {0697 1/2	fine
21 40	B	E 0 25	28 05	"	4.85	G2 $\overline{11}$	8-16	#6 {0698	strong
21 49	C	E 0 16	"	"	"	"	8-16	#6 {0701	guiding
21 56	A	E 0 23	+55 12	"	4.01	A5 $\overline{11}$	24	#6 {0701	strong
22 02	B	E 0 18	"	"	"	"	24	#6 {0702.5	strong
22 13	C	E 0 45	+64 34	"	3.64	A0 $\overline{11}$	24	#6 {0703	strong
22 18	A	E 0 40	"	"	"	"	24	#6 {0706	strong
22 25	B	E 0 53	52 02	"	4.06	F7 $\overline{10}$	24	#6 {0707	strong
22 30	C	E 0 48	"	"	"	"	24	#6 {0709	strong
22 41	A	E 0 44	30 31	"	4.86	K3 $\overline{11}$	24	#6 {0710	fine
22 50	B	E 0 25	"	"	"	"	24	#6 {0711	fine
22 53.5	C		38 28	"	3.23	A7 $\overline{11}$	24	#6 {0712	fine
22 57	A	E 0 27	4	"	"	"	24	#6 {0714	fine

Date Wed. Thurs (cont'd) Observer Aug. H. R. Julian Day 191

[illegible]

Dome Temp.

Date 13-14 May Observer M. C. Lee (H.M.) Julian Day 2454880.5

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
372-1	HR 4133	10^h 30.8	+09° 29'			T-10	4=38"		21 42		W 2 22
372-1	HR 4133	10 30.8	+09 29			T-10	4=38"		22 23		W 3 02
-2	HR 4335	11 07.5	44 42						22 48		W 2 50
-3	HR "	"	"						22 59		W 3 01
4	HR 4456	11 ^h 32.8	+17° 00'						23 17		W 2 53
5	HR 4534	11 ^h 47.2	+14 47						23 38		W 3 00
6	HR 4335	11 07.5	44 42						23 52		W 3 59
7	HR 4456	11 ^h 32.8	+17° 00'						00 08		W 3 44
8	"	"	"						00 25		W 4 02
9	HR 4534	11 ^h 47.2	+14 47						00 39		W 4 00
10	"	"	"						00 49		W 4 12
11	HR "	"	"						00 57		W 4 19
12	HR 4335	11 07.5	44 42						01 18		W 5 20
13	"	"	"						01 28		W 5 30
14	"	"	"						01 40		W 5 43

Dome Temp. 52° F

Focus

Dome Temp. 48° F

Transparency Conditions EXCELLENT

FULL MOON

260.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 42	W 2 22			3.85	B1B		Integrator #1 malfunction, Fixed by Frank.	
22 23	W 3 02			3.85	B1B			
22 48	W 2 50			3.01	K1U		A4, A5, B5	
22 59	W 3 01			"	"		A4, A5, B5	
23 17	W 2 53			5.95	B?		B5 B4 B5	
23 33	W 3 00			2.14	A3U		A3 A2 A5	
23 52	W 3 54			3.01	K1U			
00 08	W 3 44			5.75	B7			
00 25	W 4 02			"				
00 39	W 4 00			2.14	A3U			
00 49	W 4 12			"	"			
00 57	W 4 19			"	"			
01 18	W 5 20			3.01	K1U			
01 28	W 5 30			"	"			
01 40	W 5 43			"	"			

261-

Date 14 May / Thurs Observer Incl. (K. S.) Julian Day 174

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T. <i>middle</i>	P.I.	Hour Angle <i>min</i>
372-15	HR 4335	11 07.5	-44 42				$t=10 \text{ sec } \phi=38''$		01 53	1	5' 52"
- 16	"	"	"						1 59	2	6 01
16	HR 6212	16 39.9	+31° 40'						2 22		W 0 52
17	+20 3312	17 24.0	+02° 11'						2 41		W 0 27
18	HR 6556	17 33.2	+12° 35'						03 00		W 0 37
19	HR 6603	17 41.6	+04 35'						03 12		W 0 40
20	^{0 DPH} HR 6629	17 46.1	+02 44'						03 27		W 0 50
21	HR 6869	18 19.4	-02 54						03 40		W 0 30
22	^{Y 142} HR 7178	18 57.5	32 38						03 53		W 0 05
28361 T	Sky Test			G10	Ilad	9	+54	} Corrector Plate Removed.		17	
28361 F	Focus 1			"	"	"	"			18	

Dome Temp. 46.0 F

Focus

Dome Temp.

Transparency Conditions

Hour Angle centre	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 53 W 5' 52			3.81	K1 IV		AV 05, 135	
1 59 6 01			4	"			
2 22 W 0 52			2.82	60 IV		A4, A3, A6	
2 41 W 0 27			7.54	K7 II		C3, C3, C6	
03 00 W 0 37			2.08	A5 III		A2, A1, A4	
03 16 W 0 40			2.77	K2 III		A4, A5, 135	
03 27 W 0 50			3.75	A0 U		A6, A5, 133	
03 40 W 0 30			3.26	K0 III - IV		A5, A5, 135	
03 53 W 0 05			3.25	B9 IV		A5, A3, A6	
<i>In-In / Out out</i> <i>sky 15. 7c one 2 (no filter)</i> <i>5/5 no filter. From 2.80 as before.</i>							<i>Bad Images</i>

Date Fri May 14/15/65 Observer L. S. Cw. Julian Day 171.5

Dome Temp.
Focus ... 62
Dome Temp.

FRANK

Dome Temp. +50Focus 62.5Dome Temp. +49

Transparency Conditions

full moon

264.

Some Haze

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 54	A	0 14 W	45 26	0	7.64	F3	8-8-8	KHFS Bin	fine
0 38	B	00 00	-23 51	0	5.37	B3 Inc	8-8-8	On Be ① ^{moon fairly close, haze.} focus 60 1/2	fine
2 30	C	00 00	-09 48	0	8.77	B2e SW-2	8-8-8	On Be	fine
3 9	A	00 31 W	-24 20	0	6.2	Oes	8-8-8		fine
4 05	B	00 42 W	-25 15	1	6.71	B3 SW-2	8-8-8	On Be	lwk.

FRANK ① Had trouble with exp-meta uncapping device - IT DID NOT CAP WHEN THE KNOB WAS TURNED - fortunately realized that the knob felt funny when turning so "capped & uncapped" X until it closed.

265

Mon May 17

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.E.
28366 F1	Iron Test - Put camera back in			G10	DaO	9	54°			A
F2	" re-aligned ✓			"	DaO	9				C
F3	"			"	DaO	9				C
F4	"			"	DaO	9				C
T2	Tungsten			"	DaO	9				C
T3	"			"	DaO	9				C
T4	sky hair across slit			"	"	"				C

We seem finally to have got rid of the trouble which has been plaguing us re G10, i.e. doubling of the images in the direction $\perp$ the dispersion (a hair across the slit gave 2 images in the spectrum; the edges of star & sky spectra showed effects of 2 overlapping spectra). Apparently the corrector plate centre was not exactly on the axis of the spherical mirror - we adjusted it to be so within a few tenths of a mm. and the trouble seems to have disappeared. - Hd.

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	A					no filter	5/5	Focus 2.85	C to R
	C					"	5/5	Focus 2.85	"
	C					"	5/5	Focus 2.75	"
	C					"	5/5	Focus 2.00	OK
	C					"	4 counts	Focus 6	too weak
	C					"	25 counts	"	broken (sp) too weak
	C					"	23 f.e. are		
	C					"	155 obj		
Double Images <u>Gone!</u>									<u>GOOD</u>

really al
S to R.



has
the
may
effects
to center
or
and

Date 17-18 May/65 Observer Hyse Julian Day 175
Mon - Tues

[illegible]

Dome Temp. 52°F

Focus $61\frac{1}{2}$ / $60\frac{1}{2}$

Dome Temp.

Transparency Conditions ~~from at 21.30 but apparently~~
quite good after midnight ~~clearing~~

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 08	A	09	-09 48	0	8.77	B2e	8-8-8	Cn-Be focus $61\frac{1}{2}$	(30) #9 { 0942 0972
02 31	B	11	-14 43	0	6.05	B39	8-8-8	138-139 focus $60\frac{1}{2}$	(31) #7 { 0973 0976
03 41	C	24	58 29	0-1	7.5	K.5	8-8-8	Stal. Vel.	#9 { 0977 good exposure gumming.
	A						30/30		O.K.

269

Date 18-19 March 1951 Observer Hol - RC Julian Day 183
Lucas - H. Sed (Chase)

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 long Expt.
28370	H10109379	12 29.1	-22 51	G10	Iladob	9		20 41 ²⁵	21 27	B	W 23 ^m
28370 F	Focus test	In	In/out-out		"	9				C	
28371	H10109379	12 29.1	-22 51	G10	Iladob	9	60°F	21 36 ²⁶	22 27	B	W 23 ^m
28372	B Leo	11 44.0	+15 08	G40	Iladob	13	60°F	22 47	22 47½	A	
28373	"	"	"	"	"	"		22 51	22 51½	B	W 233
28374	B Vir	11 45.5	+2 20	G40	Iladob	13		22 58	23 18	C	W 259
28375	"	"	"	"	"	13	59°F	23 21	23 35	A	W 316
28376	T Her	16 16.7	46 33	"	"	13		00 06	00 09	B	W 0 40
28377	"	"	"	"	"	"	"	00 12	00 14	A	W 0 36
28378	B Her	16 25.9	+21 42	G40	Iladob	"	57°F	00 32	00 34	A	W 0 26
28379	"	"	"	"	"	"		00 40	00 43	B	W 0 16
28380	B Her	16 37.5	31 47	G40	Iladob	"		00 57	00 58	C	W 0 09
28381	"	"	"	"	"	"		01 04	01 08	A	W 0 03
28382	B Her	17 21.4	17 00	G40	Iladob	"		01 17	01 45	B	W 0 09
28383	"	"	"	"	"	"		01 50	02 20	C	W 0 24
28383 T	Calibration										
28384	Sup. Wedge	17 30.3	+12 30	G40	"	"				A	

Dome Temp.

Focus 6.4

Dome Temp.

Dome Temp. $65^{\circ}F$ Focus $64/031$

Dome Temp.

Transparency Conditions

poor at start - cloud patches

quite good by 2130

getting brisk from north - 2230

1270

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 27	B	W 23 ^m	-23 "	0 ⁻	2.8	G4	8-8-8	Star Vel * BROKEN PLATE 23 {1023 #4 {1046	fine (discrete weaks) C to R exp. in the
	C						5-5	Focus 2.0	
22 27	E	W 1 ^h 23 ^m	-23 "	0 ⁻	2.8	G4	8	FORGOT TO REPLACE FILTER AFTER FOCUS TEST. Comp will be very strong #4 { 1047 #4 { 1065	weak.
22 42	A		+14 49		2.24	A3 ^{II}	24	MK - steel from 64 #6 { (2) 1067 #6 { 1069	fine.
22 51	B	W 233	"				24	" #6 { (1) 1069 #6 { 1070	fine.
23 18	C	W 2 59	+1 59	0	4.16	F8 ^V	12-12	" Haze #6 { (4) 1070 #6 { 1074	fine.
23 35	A	W 3 16	"	"	"	"	12-12	" Clouds #6 { (2) 1074 #6 { 1076	fine.
00 09	B	E 0 40	46 24	"	3.89	B5 ^{IV}	24	" #6 { (2) 1077 #6 { 1079	fine.
00 14	A	E 0 36	"	"	"	"	24	" #6 { (1) 1079 #6 { 1080	fine.
00 34	A	E 0 26	+21° 35'		3.8	G8 ^{III}	24	" #6 { (1.5) 1080 #6 { 1081 1/2	fine.
00 43	B	E 0 16	"	"	"	"	24	" #6 { (3) 1082 #6 { 1085	fine.
00 54	C	E 0 09	31 40		3.46	G10 ^{II}	24	" TROUBLE #6 { 1085 #6 { 1086.5	fine.
01 08	A	E 0 03	"	"	"	"	24	" SETTING IN 8- #6 { (3) 1087 #6 { 1090	fine.
01 21	B	E 0 09	+16 58	"	6.12	A9 ^{III}	24	" Haze + Cloud #6 { (1) 1091 #6 { 1092	weak.
02 21	C	W 0 24	"	"	"	"	24	" CLOUDS #6 { (2) { #6 {	guiding
	A			"	2.24	A5 ^{III}		#6 { (1.5) { #6 {	

Date 10/10/2010 Observer 100 Julian Day 255[illegible]

~~55/7~~

Transparency Conditions

272

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
C					10 filter	5/5	2.00 focus.		center to red;
P					"	"	2.00 1.50		O.K.
C					"	"	1.50 1.00		center to white
DR HEARD : I AM NOT SURE NOW WHAT IS BEING USED AS A POINT OF REFERENCE. USING THE BLACKENED BRASS AS AN INDICATOR IT IS NOW AT 0.0 - IN ANY EVENT THIS IS 0.5 GREATER THAN AS MURRAY LEFT IT I.E. THE SAME AS F₂ - NO FOCUS TEST TAKEN									

273

Date 19-20 May 1965

Observer Mel - Cn Julian Day

Wed - Thurs

(Mel)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	MIDDLE Ending Time E.S.T.	P.H.	Hour Angle End
373-1	HR 4534	11 47.4	+14 46			T=10 sec	Q=38"	20 53			W 0 38
373-2	HR 4456	11 32.9	+16 59					21 13			W 1 12
-3	HR 4540	11 48.8	+01 58					21 30			W 1 15
-4	HR 4695	12 18.6	+03 30					21 45			W 1 10
-5	NGC 4649	12 41.9	+11 44					22 06			W 0 57
3	M 3	13 40.6									
-6	HR 4695	12 18.6	+03 30				54P=	23 00			W 2 15
-7	HR 4540	11 48.8	+01 58					23 16			W 3 00
-8	HR 4534	11 47.4	+14 46					23 30			W 3 16
-9	HR 4456	11 32.9	+16 59								
-9	HR 4540	11 48.8	+01 58					23 45			W 3 30
28384	HD 142184	15 48.0	-23 41	G140	Iladob	13	53°	00 22	00 40	A	W 2 1 W
28385	HD 161306	17 39.7	-09 46	"	"	17		00 48	02 26	B	W 1 6 W
28386	HD 164906	17 58.3	-24 24	"	"	17		02 34	03 35	C	W 1 07

Dome Temp.

Focus 62

Dome Temp.

Dome Temp. 62°F
 Focus 62/
 Dome Temp. 48°F

01^h Rising moon reveals light cloud in south,
 Transparency Conditions EXCELLENT

274

THE DOME IS TURNING MUCH BETTER!

MIDDLE

EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		MIDDLE							
0 53		W 0 38				A3U		A3U , C102, R102, C3/02, ^{D1} std 58	
1 13		W 1 12				133U		std 57	
1 30		W 1 15				F8J		std 59	
1 45		W 1 00				40III		62	
2 06		W 0 57			9.88	67			
								Large looked for his. W in stars in M3	
3 00		W 2 15				K0III		sky is much darker since third mirror deployed	
3 16		W 3 00				F8U			
3 30		W 3 16				A3U			
3 45		W 3 30				F8U			
								Large looking for stars in M13	
00 40	A	00 21 W	-23 50	00 5.37	33U	10-10-10	Cn B	ZOCUS 62	#1101 #7 1105 #30 1105 fine
02 26	B	00 16 W	-09 47	0-18.77	82.50U	10-10-10	Cn B		#9 1135 fine
03 35	L	W 1 07	-24 22	00 7.61	81IV	10-8-8	Cn T Be	0300 - CONSIDERABLE MAGNITUDE - STAR VERY FAINT.	#9 1135 #9 1155 Luck

275

Date 20-21 May 1965
Thurs - FriObserver Mcl
(Mee)

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
374-1	^{B Red} HR 4534	11 47.4	+14 46		t = 10 sec	φ = 30"			20 57	
-2	^{B V.M.} HR 4540	11 48.8	+01 58						21 23	
-3	HR 4695	12 18.6	+03 30						21 39	
-4	HR 4983	13 10.3	28 02						21 56	
-5	HR 4534	11 47.4	+14 46						22 11	
-6	HR 4540	11 48.8	+01 58						22 27	
-7	HR 4695	12 18.6	+03 30						22 44	
-8	HR 4983	13 10.3	28 02						22 59	
-9	HR 4540	11 48.8	+01 58						23 15	
-10	HR 4695	12 18.6	+03 30						23 29	
-11	HR 4540	11 48.8	+01 58						23 42	
-12	HR 4695	12 18.6	+03 30						0 00	
-13	"	"	"						0 12	
-14	HR 4534	11 47.4	+14 46						0 25	
28387	HD 176318	18 54.6	38 07	G40	Te06	13	52°	01 ^m 41 ^s	01 ^m 53 ^s	A
28388	HD 186547	19 40.0	13 03	G40	Te06	13		01 58	02 31	B

Dome Temp. 61
Focus 6 1/2
Dome Temp. 51Hour Angle
End
11 00
11 10
11 05
11 02
11 00
11 15
11 02
11 25
11 03
11 48
11 31
11 19
11 31
11 15
11 27
11 34

Dome Temp. 60°F

Focus 6 1/2

Dome Temp. 51°F

Transparency Conditions ...VERY GOOD...

0045 - 74ICK HAZE

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
MIDDLE							
20 57	W 0 47			A3U	#58	FRANK: 1) IT WOULD BE BETTER TO HAVE BOTH LIGHTS ON THE CHART REC. THE SAME COLOUR 2) THE INK DOESN'T FLOW TOO WELL	
21 23	W 1 10			F8U	#59		
1 39	W 0 57			K0III	#62		
1 56	W 0 22			G0U	#65		
2 11	W 2 00			A3U	#58		
2 27	W 2 15			F8U	#59		
2 44	W 2 02			K0III	#62		
2 59	W 1 25			G0U	#65		
3 15	W 3 03			F8U	#59		
3 29	W 2 48			K0III	#62		
3 46	W 3 31			F8U	#59		
0 00	W 3 19			K0III	#62		
0 12	W 3 31			11	"		
0 25	W 4 15			A3U	#58		
01 53 A	E 1h 27m 08 13	1	5.7	B8	12-12	B8-B9 focus 6 1/2	#7 { 11 59
02 31 B	E 0 34 13 13	1	6.07	B8	8-8-8	B8-B9 considerable haze	#7 { 11 63
							#7 { 11 67

fine guiding

Date 21 May 65 Observer (Mae)/Mcd Julian Day 172

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
28389 -	HD 187691	19 46.2	710	10640	IIaOb	13	52°F	02 ^h 40 ^m	02 ^h 50	C	E1 ^h 22 ^m
28390	HD 190603	20.7	31	56040	IIaOb	13		02 54	03 04	A	E1 22
28391	"	"	"	"	"	"		03 06	03 16	B	E1 ^h 10 ^m
28391 F,	focus test in in/out focus 640 IIaOb						49°F			C	
28391 T	Calibration Slip Wedge						for plates 28389 - 91 F,				

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

fair - considerable haze 278.

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 ⁵⁰	L	E 1 ^h 22 ^m	10° 19'	0	5.4	F8	8-8-8	std. vel. #7 ⁶ { 1173	fine
03 04	A	E 1 22 32 07		0	5.7	B.5.5 ₂	24	M.K. std. APPEARS TOO #7 ⁽²⁾ { 1173	gushing
01 16	B	E 1 ^h 10 ^m	"	0	"	"	8-8-8	" > RED FOR B.5.5 ₂ { 1175	gushing
	C						30/30	BUT ONLY #7 { 1179	gushing
								BRIGHT ONE IN FIELD.	slightly to V.

279

Sat., May 22nd, 1965

Date May 22-23, 1965

185 visitors. for first group wanted
to show slides, but bulk put out; NO span
one ground - showed Julian Day
for second group showed M3. Gd, Ch, Sm.

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
28392	HD 142184	^h 15 ^m 48.0	-23 41	GPO	IIaD6	13		00 01 ¹⁰	00 21	A	0 15W
28393	HD 164906	17 58.3	-24 24	"	"	"	55	00 36 ⁵⁶	02 28	B	0 11W
28394	HD 170235	18 28.2	-25 19	"	"	"	54			A	
28393F ₁	Focus Test	In-In / Out-Out					55°			A	

280

Dome Temp. 55° Transparency Conditions ~~Fair~~ Excellent!

Focus

01:30 Cirrus in South.

Dome Temp.

Ending Time
EST.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

H.V. found to be
700V. after exp gone down

Quality

00 21

A

0 15 W

 $-23^{\circ} 52'$

0

5.4

Blue 8-16

Cu Be

Very
Slow!T = 55° F Focus = 62.5

Sens 8

out of focus.

02 28

B

0 11 W

 $-24^{\circ} 22'$

0

7.61

Blue 8-8-8

Cu Be

SPECIAL DRIVE OFF
SO. HAD TROUBLE FINDING STAR.
CHECKS WITH FINDER FIELD.

Sens 8

out of focus.

A

A

6.71

Blue 8-8-8

Cu Be

Sens 8

Clouded Out. 02 30.

Capping mech became disconnected so had to
exp with door open but all light? out.

A

20/30

circle to
red. body.

Date 23-24 May 1965

Observer. *Sch*

Julian Day

Sun - Mon

C. M. se

[illegible]

Dome Temp. 62° F
Focus 64 1/2 / 62 /
Dome Temp.

Transparency Conditions *excellent*

0120 - TEMP. DRIPPING, NOTICEABLE &
MUCH CLOUDS

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 25	A	01 10 W	29 26	0	10.00	F8	8-8-	KAFS ^{from rd 64 1/2} TROUBLE ⁽³⁰⁾ #9 {12 05	l weak
0 44	B	W 1 41	45 27	1	7.64	F3	8-8 8	KAFS ^{limery} CAPPING ^{EXP. #8} {12 35	gimbling
2 20	C	W 2 03	17 08	0	6.1	G4	8-8	std vel ^{SEEING DROPPED TO 0-VERY SHARPLY AT MID EXP.} #7 {12 50	fine
41 1000 50612 OVERCAST FRANK: 1) EVIDENTLY THERE IS AN EXPOSED WIRE ON THE LIGHT OVER THE EXP. MTR - I GOT QUITE A SHOCK 2) THE RADAR-LITE HAS BECOME INOPERATIVE IN THE PAST 3 DAYS (OVER)									

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

[illegible]

Focus

Dome Temp.

Dome Temp.

Transparency Conditions 100

Focus

Dome Temp.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								(3) WE HAD THE SAME TROUBLE AS GERRY DID A WEEK AGO IN RECAPPING THE EXP. MTR. - NECESSARY TO CLOSE THE SHUTTER BY HAND (IN THE DARK & H.V. OFF)	

287

Date

25-26 May/65
Luna Weid

Observer

Mf

Hb - Hg
(Myse)

Julian 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.
2840	JU2	12 36.6	-00 54	640	IIaDp	13	68°F	23 09	(23 13)	B
28400F	Focus Test			440	IIaOb	13	68°F	min/indent		A
Thurs May 27/65 Hd Yp.										
28400 F ₂	Focus Test. In-in/out-out			G10	IIaO	9	66 F			C
28400 T ₁	sky 8 sec.			G10	IIaO	9xL				C
T ₂	" 15 "									C
T ₃	" 30 "									C
T ₄	Calibration									
for plates 28400 F ₂ - T ₃										

Dome Temp.

Focus 6.72

Dome Temp.

Hour Angle
End

Zon

Dome Temp. 71° F

Dome Temp.

Transparency Conditions

[illegible]

Date 27-28 May/65

Date 27-28 May/65 Observer Vdb - Myse Julian Day

Thurs - Fri

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	M70025 Ending Time E.S.T.	P.H.
375-1	HR 4983	13	10.3 +28 02		t = 20 sec					
Cn, H _b	Fri May 28									
28400 F3	Transited In-In / Out-Out			A40	HaoB	13	52°F			B
F4	"	"	"	"	"	"	"			B
F5	"	"	"	"	"	"	"			B
F6	"	"	"	"	"	"	+52°F			B
F7	"	"	"	"	"	"	"			B
F8	"	"	"	"	"	"	"			B
F9	"	"	"	"	"	"	"			B
T5	Iron arc - full exposure				"	"	"			A

Dome Temp. 6.3°

Transparency Conditions

WINDY

Focus

Dome Temp.

1100 A
Ending Time
EST.

P.H.

Hour Angle

End

MIDDLE

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

4.3 290^U #

CLOUDS



covers a larger part of spectrum

Focus 167

40/40

c to vi

Focus 120

40/40

c to vi

Focus 020

40/40

c to r

Focus 060

40/40

c to r
in vi

Focus 065

40/40

c to r

TURNED S SCREW IN $\frac{1}{3}$ REV
N " OUT $\frac{1}{3}$ REV
changed focus to 65

Focus 72

used G-10
Polar filter

12/12

c to vi

Focus 69.5

"

10/10

OK

" "

5

OK

Sat. May 29, 1965 — Visitors — show Ranger VII film to first group, M3 to second group. Hb, Dm, V

Date 29/30 May 1965 Observer Hb Dm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
28401 F	Focus Test			CG 40	DaOb	13	46°F	in in/out out		A
28401 #24	14D 164906	17 58.3	-24 24	CG 40	DaOb	17	46°F	00:00	02:26	B
28401 T ₁	Calibration Step Wedge				for plate 28401					
May 31										
28401 T ₂	Full aperture			CG 40	DaOb					A
28401 T ₃	Test	Calibration	Wedge		Voltage	80	volts	Time	1 min	
T ₄	"	"	"		"	40	volts	"	5.6 min	
T ₅	"	"	"		"	30	volts	"	9.3 min	
376-3222	α CrB	15 ^h 33.1	+26° 50'	"		28"		22 ^h 10		E ³ W

Dome Temp.

Focus 67"

Dome Temp.

Hour Angle
End

0036W

M3 to

292

Dome Temp. 46° Focus $67\frac{1}{2}$

Dome Temp.

Transparency Conditions *good, not photometric**a lot of haze over the western
horizon & south.**clouds passing by (1:15)*Ending Time
EST.

P.E.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Subst A

226 R

0036W

-24 22:

0

7.6,

B1 IV

2-4-2

Cn Be

vess #7

*center to red in road.
center to violet in road.
1392 1387
1392 fine*

A

*Center
Outside 3 sec C10 filter
20 sec C40 filter*

This 1 min

5.0 min

9.3 min

30^uW*not photometric, sky totally
clouded over*

Dome Temp. ... 56°K

Focus 701

Dome Temp.

Transparency Conditions

294

[illegible]

295

74" Mirror washed

(Nelson spectrograph & 8 stars)

Date 2-3 June 1965

Observer H. L. - M. J.

Julian Day

Wed - Thurs

Db

Mcl

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
28405	E Vir	12 ^h 59.7	+11° 13.7	G10	IIa06	9XL	56°F	21 19 ²⁸	22 14	C	W1 42
28404F ₁₀	focus test in in / out out	6.40			IIa0	13	56°F				
376-1	HR 5511	11 51.7	53 55								
-2	HR 5854	14 44.5	+02 02			t=10 sec		4=38'			
3	HR 5511	15 42.6	+06 32								
-4	HR 5854										
-5	HR 5511						51°				
-6	HR 5854						50°				
7	HR 5511										
8	HR 5511						49°				
9	NGC 6574	18 10.2	+14° 58'			t=60 sec					
10	HR 5854					t=10 sec					
11	"					"					
12	"					"					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

W1 42

MIDDLE

W1 44

W1 08

END

W2 33

W1 52

W3 06

W2 15

W3 25

W3 34

W0 41

W3 27

W3 36

W3 44

Dome Temp. 58

Focus

Dome Temp.

Transparency Conditions

clouds + haze at first.

296

~~very good~~
darkest sky of 905

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								PLATE BROKE DURING EXP.	
02 14	C	W 1 42	+11° 10'	1	3.8	G9 III	5-5-5	centering filter equiv. width prog. 3/3 ← no filter " good changed from 70. atts 72	#4 (4.0) 1468 { 1508 sl. out of focus near broken and bulky center by violet broken
		MIDDLE						spectrophot testing filters (H _β)	
00 01		W 1 44			3.76	A00			
00 23		W 1 08			2.73	K2 mp			
00 54		W 2 38							
01 00		W 1 52							
01 19		W 3 06							
01 29		W 2 15							
01 41		W 3 25							
01 50		W 3 34							
02 27		W 0 41			12.8				
02 40		W 3 27			2.75				
02 50		W 3 36			"				
03 03		W 3 49			"				

297

Date 3 June 65 Observer R. L. Hall Julian Day 174

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
376-13	HR 6714	17 58.9	10 256		t=10 sec		48°F		3 18		11 48
-14	HR 6603	17 41.7	10 435	obj	"				3 24		11 54
-15	HR 6603	17 41.7	10 435		"				3 35		12 22
On June 3, 1965 											
28405 F1	Focus Test	Focus	69	L40	F60	13	46°F			A	2 1/2
F2	Focus Test	Focus	67	"	"	"	"			"	"
F3	"	Focus	63	"	"	"	49°			A	"
F4	"	Focus	62	"	"	"	"			A	"
F5	"	Focus	62	"	F60b	13	52°	ordinary	plateholder	B	"

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
318 W1 48			3.92	B5	6		
320 W1 54							
321 W2 22			2.94	K2	11		
2 slots over grating no filter			3/3		3/3		c to vi all the way across. sl. c to vi
"					3/3		c to vi at ends
"					3/3		OK
"					3/3		OK

299

Date 3-4 June/65 Observer VdB. M. M. Julian Day 181.5
at Lurs - Fri

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	CENTRE Ending Time E.S.T.	P.H.	Flare Angle E.S.T.
	<u>80 Maj.</u>	<u>11 51.7</u>	<u>53 55</u>								
<u>377-1</u>	<u>HR 5270</u>	<u>14 00.8</u>	<u>+09 52</u>				<u>t=10 min 58°F</u>		<u>21 56</u>		<u>W0 28</u>
									<u>22 04</u>		<u>W0 36</u>
<u>-2</u>	<u>HR 5511</u>	<u>14 44.5</u>	<u>+02 02</u>			<u>"</u>	<u>56°F</u>		<u>22 22</u>		<u>W0 09</u>
<u>-3</u>	<u>HR 5511</u>	<u>14 44.5</u>	<u>+02 02</u>						<u>22 31</u>		<u>W0 19</u>
<u>-4</u>	<u>HR 5270</u>	<u>14 00.8</u>	<u>+09 52</u>			<u>"</u>	<u>55°F</u>		<u>22 44</u>		<u>W1 16</u>
<u>-5</u>	<u>HR 5270</u>	<u>"</u>	<u>"</u>			<u>"</u>			<u>22 54</u>		<u>W1 25</u>
<u>-6</u>	<u>HR 5511</u>	<u>14 44.5</u>	<u>+02 02</u>			<u>"</u>			<u>23 06</u>		<u>W0 54</u>
<u>-7</u>	<u>"</u>	<u>"</u>	<u>"</u>						<u>23 14</u>		<u>W1 01</u>
<u>-8</u>	<u>HR 5270</u>	<u>14 00.8</u>	<u>+09 52</u>			<u>"</u>	<u>53°F</u>		<u>23 26</u>		<u>W1 58</u>
<u>-9</u>	<u>"</u>	<u>"</u>	<u>"</u>			<u>"</u>			<u>23 35</u>		<u>W2 06</u>
<u>-10</u>	<u>HR 5511</u>	<u>14 44.5</u>	<u>+02 02</u>			<u>"</u>			<u>23 46</u>		<u>W1 34</u>
<u>-11</u>	<u>"</u>	<u>"</u>	<u>"</u>			<u>"</u>			<u>23 55</u>		<u>W1 43</u>
<u>-12</u>	<u>HR 5270</u>	<u>14 00.8</u>	<u>+09 52</u>			<u>"</u>	<u>53°F</u>		<u>0 07</u>		<u>W2 38</u>
<u>-13</u>	<u>"</u>	<u>"</u>	<u>"</u>			<u>"</u>			<u>0 15</u>		<u>W2 47</u>

Dome Temp.

Transparency Conditions very good

Focus

Dome Temp.

DATE
Time
EST.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
CENTRE							
21 56	W 0 28		6.12 G 0.1			tuning filters in spectrophot.	
						C 6, C 2, C 4, C 5, C 5, C 6	
						REPEAT ES	
2 04	W 0 36					C 6, C 2, C 4, C 5, C 5, C 6	
2 22	W 0 09		3.76 A 0.1			B 6, B 2, B 3, B 3, B 3, B 3	
2 31	W 0 19		" "			B 6, B 2, B 3, B 3, B 3, B 3	
2 44	W 1 16		6.12 G 0.1			C 6, C 2, C 4, C 5, C 5, C 6	
2 54	W 1 25		" "			C 6 C 2 C 4 C 5 C 5 C 6 ← bottom 5	
3 06	W 0 54		3.76 A 0.1			B 6 B 2 B 3 B 3 B 3 B 3	
3 14	W 1 01		" "			"	
3 26	W 1 58		6.12 G 0.1			C 6 C 2 C 4 C 5 C 5 C 5	
3 35	W 2 06		" "			"	
3 46	W 1 34		3.76 A 0.1			B 6 B 2 B 3 B 3 B 3 B 3	
3 55	W 1 43		"			"	
0 07	W 2 38		6.12 G 0.1			C 6 C 2 C 4 C 5 C 5 C 5	
0 15	W 2 47		"			"	

Date

FR 1/4

Observer

Max VB

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Exposure Time E.S.T.	P.H.	Hour Angle
377-14	HR 5511	14 44.5	40 2 02			t=105 sec	52°F	0	26		W 2 14
-15	"	"	"			"		0	33		W 2 22
-16	HR 5270	14 00.8	40 9 52			"	52°F	0	44		W 3 16
-17	"	"	"			"		0	54		W 3 26
-18	HR 5511	14 44.5	40 2 02			"		1	05		W 2 53
-19	"	"	"			"		1	12		W 3 00
-20	HR 5270	14 00.8	40 9 52			"		1	22		W 3 54
-21	"	"	"			"		1	29		W 4 02
-22	HR 5511	14 44.5	40 2 02			"		1	39		W 3 28
-23	"	"	"			"		1	47		W 3 35
-24	^{M13} NGC 6205	16 39.9	36 33			t=20 sec	51°F	2	20		W 2 12
-25	shy							2	29		W 2 25
-26	^{M56} NGC 6779	19 14.6	43 05			"	"	2	43		0
-27	shy					"	"	2	53		W 11
-28	HR 7178	18 57.6	32 38			10 sec	50°F	3	05		W 0 40
-29	HR 7069	18 45.5	41 8 08			"	"	3	18		W 1 05

Dome Temp.

Transparency Conditions EXCELLENT

Focus

Dome Temp.

Time EST.	P.H.	Hour Angle East <i>center</i>	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26		W 2 14			3.76	A0V		B6 B2 B3 B3 B3 B3	
33		W 2 22			"			"	
44		W 3 16			6.12	G0III		C6 C2 C4 C5 C5 C5	
54		W 3 26			"			"	
05		W 2 53			3.76	A0V		B6 B2 B3 B3 B3 B3	
12		W 3 00			"			"	
22		W 3 54			6.12	G0III		C6 C2 C4 C5 C5 C5	
29		W 4 02			"			"	
39		W 3 28			3.76	A0V		B6 B2 B3 B3 B3 B3	
47		W 3 35			"			"	
20		W 2 12			6.8			D6 D3 D4 D5 D5 D6	
29		W 2 23			"			"	
43		0			9.6			D6 D6 D6 D6 D6 D6	
53		W 11			"			"	
05		W 0 40			3.30	B9V		A B5 B2 B3 B3 B3 B3	
18		W 1 05			4.37	A3V		C3 B4 B4 B5 B5 B5	

← ICE ADDED TO COLD BOXES

303

Date June 4/5, 1965 Fri/Sat Observer S. K. Hb Julian Day 20

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
378-3223	α Cr B	15 ^h 33.1	+26° 50'	5/4/2		20"		9 ^h 13 ^m			1 ^h 27 ^m
-3224	ξ Leo	10 ^h 11.1	+23 55	5/4/2				9 ^h 55			4 ^h 28 ^m
-3225	ϵ Vir	12 57.2	+11 30	5/5/2				10 ^h 16 ^m			2 ^h 6 ^m W
-3226	α Ser	15 39.3	-6 44	5/5/2				10 ^h 52			0 ^h 5 ^m W
-3227	β Dra	17 28.2	+52 23	5/5/2				11 ^h 22 ^m			1 ^h 21 ^m E
-3228	161796	17 42.5	+50 05	6/6/2				11 ^h 53 ^m			1 ^h 3 ^m E
-3229	ξ Dra	17 51.8	+56 52	5/6/2				0 ^h 28 ^m			0 ^h 35 ^m E
-3230	ν Her	17 54.7	+30 12	5/6/2				0 ^h 57 ^m			0 ^h 13 ^m E
-3231	89 Her	17 57.4	+26 4	6/5/2+3				01 ^h 22 ^m			0 ^h 2 ^m W
-3232	162714	17 47.3	-6 7	6/6/3				1 ^h 49 ^m			0 ^h 49 ^m W
-3233	170764	18 26.0	-19 12	7/5/3				02 29			0 ^h 46 ^m W
-3234	176155	18 53.8	+17 14	6/5/3				03 10			0 ^h 58 ^m W
-3235	γ Aql	19 41.4	+10 22	5/5/2				03 ^h 40			0 ^h 46 ^m W

Dome Temp. 62°F

Focus

Dome Temp.

Transparency Conditions good - excellent

364

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1 ^h 27 ^m E		good to very good	2.23	A0 I		} first test of equip. by means of spectrophoto- (Bob McClure) — * too far west, telescope slips rests of altocumulus in recordings visible (not at the sky)	
		4 ^h 28 ^m end			3.65	F0 II ^{III}			
		2 ^h 6 ^m W			3.0	G9 II			
		0 ^h 5 ^m W			2.8	K2 III			
		1 ^h 21 ^m E		very good	2.8	G2 Ib		sky improved	
		1 ^h 3 ^m E			7.0	F2 Ia		+ sky	
		0 ^h 36 ^m E			3.9	K2 III			
		0 ^h 13 ^m E			4.4	F2 II			
		0 ^h 18 ^m W			5.4	F2 Ia			
		0 ^h 49 ^m W			6.5	G3 Ib ✓		+ sky record	
		0 ^h 46 ^m W			7.0	G0 Ib ✓		+ sky " seeing ok good, diffraction pattern visible	
		0 ^h 58 ^m W			5.5	CFS			
		0 ^h 40 ^m W			2.7	IC3 II			
								motor pretty hot, smells a bit ink is going to be exhausted	

190 Visitors showed Unicef, M3 Cn, V, ce

Dome Temp. *47.0*

Focus 67

Dome Temp.

Hour Angle
End

701	18	E
700	40	E

0^h cloud covering $\frac{1}{3}$ sky. Tran

Transparency Conditions *Hazy & Occasional cloud*
from NW

Dome Temp.

0 05 clouds

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05	B	01 18 E 00 40 E	-24° 22'	0	7.61	BI IV	8-16	Cn Be. 0 ^h l. cloud 30/30 Town 67	Sitting 9 { 15 20 { 15 27.7 weak center to red
	L							Cloud up 01 ^h	

307

Date 8-9 June 1955

Observer H. d. - ^{mf} ~~W. S.~~ Julian Day

Lines - Wed

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
28407	E Vir	12 59.7	+11 13.7	610	IIaOb	9xL	72°F	20 41	21 37	B	W 129
28407 F	focus test			G10	"	9				C	
F _r	"			G40		13	69°F	22		A	
28408	HD 131 861	14 50.9	+45 43	"	IIaOb	13	69°F	22 09	23 50	B	150 ^m
28408 T	Calibration Step Wedge for plate #28408										45

Dome Temp. 71

Focus

Dome Temp.

Dome Temp.

Transparency Conditions *Fair*

2230 - clouds coming; lightning in W.

308

Ending Time EST.	P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
21.37	B	W 129	+11 11	1	3.0	G9 ¹¹	8-8-8	clouds, EQUID. WIDTH PROG	(30) 15-75- #4 1605	weak focus val ctm!
	C						no filter 5/5	Focus 7.05		
	A						3/3	focus 68 1/2	Developed.	focus ok.
23.5	B	W 50 ^m	45 27	7.64	F3	8.		KAFS <u>CLOUDS</u>	(40) 1609 #8 1612	weak
									CALLS FOR 15 COUNTS	

309

Date June 9/10 1965 Observer Msc Dm Julian Day 244Wed - 7 hrs

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
28408 F,	focus test			G40	Ilford	13	68°F			A	
28409	S Boo (A)	14 46.8	+19 31	"	"	"		22 39	22 54	B	W 59
28410	"	"	"	"	"	"	"	22 56	23 00	C	W 06
28411	45 Boo	15 02.9	+25 16	"	"	"	"	23 05	23 15	A	W 05
28412	"	"	"	"	"	"	"	23 17	23 24	B	W 13
28413	J Her	16 17.5	+19 23	"	"	"	67°F	23 ^h 32	23 35	C	W 10
28414	"	"	"	"	"	"	"	23 ^h 36	23 37	10A	W 13
28415	Soph	16 31.7	-10 22	"	"	"	"	23 45	23 46	B	W 07
28416	"	"	"	"	"	"	"	23 48	23 49	C	W 05
28417	HR 6620 HD 161701	17 41.9	-14 42	"	"	"	"	23 59	00 29	A	W 02
28418	HD 171391	18 29.5	-11 03	"	"	"	"	00 35	00 54	B	W 43
28419	HR 6773 HD 165814 (A)	18 02.7	-25 29	"	"	"	64°F	01 06	01 49	A	W 39
28418 F,	focus test in in/out out			"	"	"	64°F			C	
28420	HD 184467	19 29.5	58 24	"	"	"	63°F	01 58	02 50	B	W 15
28421	U Dra	19 32.6	69 29	"	"	"	62°F	02 56	03 03	A	W 26
28422	"			"	"	"	"	3 05	3 09	C	W 32
28422 F,	Calibration	28408 F,	-19 11	"	"	"	"				

Dome Temp.

Focus 68 1/2

Dome Temp.

Dome Temp. 70°
 Focus $68\frac{1}{2}$
 Dome Temp. $58^{\circ}F$

Transparency Conditions *clouds & haze: poor*
non photo metric clouds drifting by, all time
moon > 14,

EXCELLENT
good for spectrum. after 0100

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					3/3	<i>no filter</i> <i>focus at 68 1/2</i>	
W 0 59	+19 15	0	5.30	085	24	MK std 5	<i>pl. continue to read.</i>
W 1 06	-	"	"	"	"	"	<i>fine</i>
W 1 05	+25 00	"	4.92	F50	"	"	<i>fine</i>
W 1 13	"	"	"	"	"	"	<i>comp weak</i>
W 10 ^m	19° 14'	"	4.1	A9	24	"	<i>guiding</i>
W 13 ^m	"	"	"	"	24	"	<i>guiding</i>
W 0 07 ^m	-10° 28'	"	2.60	09.5V	24	"	<i>fine</i>
W 05	"	"	"	"	24	"	<i>fine</i>
W 0 21	-14 43	0	6.05	B9	8-8-8	B8-B9	<i>fine</i>
W 0 43	-10 58	0	5.2	G7	8-8-8	std Vel	<i>fine</i>
W 0 39	-25 25	0	6.7	B8	8-8-8	B8-B9	<i>fine</i>
W 0 15	58 31	0	7.5	K5	8-8-8	std Vel	<i>fine</i>
W 0 26	64 36	0	5.47	K0	24	MK std	<i>fine</i>
W 0 32	"	"	"	"	24	"	<i>fine</i>

TELESCOPE IN
STICKING

OK
PLATE MAY BE
FOGGED
REPAIRS CAPING DEFECT

COMPARISONS ARE WEAK

#6 { 1617.7
{ 1620
{ 1621
{ 1622.5
{ 1623
{ 1626
{ 1627
{ 1628.5
{ 1629
{ 1630
{ 1631
{ 1631.5
{ 1631
{ 1632
{ 16
{ 1633
{ 1635
{ 1636
{ 1639
{ 1640
{ 1650
#9 { 1652
{ 1700
#7 { 1702
{ 1706
{ 1706
{ 1708

311

Date 10-11 June 1965Observer Mer - Noel

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	MIDDLE Ending Time E.S.T.	P.F.	Hour Angle Est.
	γ UMa								22 37		
379-1	HR 5511	14 44.5	+02 02		f-2000				22 31		40 46
-2	"	"	"		"				41		0 56
-3	HR 5854	15 42.6	+06 32		"				23 06		00 23
-4	"	"	"		"				23 15		00 32
-5	HR 5933	15 54.8	+15 47		"				23 31		00 36
-6	HR 5511								23 44		01 59
-7	"								23 53		02 08
-8	HR 5947	15 56.1	+26 59		"				0 07		01 10
28423	HD 176318	18 54.6	38 07	G140	Ha 26	13	54°F	0 55	1 05	A	EO 52
28424	HD 171780	18 31.6	34 22	"	"	"	"	1 13	1 23	B	EO 11
28425	HD 174237	18 44.5	52 53	"	"	"	"	1 28	1 41	C	EO 6
28426	HD 184467	19 29.5	58 24	"	"	"	53°F	1 46	2 44	A	WO 11
28427	η Cep	20 43.3	61 27	"	"	"	50°F	?	2 55	B	EO 50
28428	"	"	"	"	"	"	"	2 57	03 00	C	EO 45

Dome Temp. 62°F

Focus

Dome Temp. 48°F $\sim 3/4$ full moonTransparency Conditions VERY GOOD (PHOTOM)

2300 - some clouds - S & SW

0030 - not photometric

312

MIDDLE

Ending Time
EST.

P.H.

23 31

23 31

41

23 06

23 15

23 31

23 44

23 53

00 07

1 05 4

23 8

1 41 C

2 44 A

2 55 B

23 00 C

Hour Angle End MIDDLE	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
WO 46							
WO 46			3.76	ADU		B6, B2, B3, B3, B3, B3	
O 56			"	"		"	
WO 23			2.75	K2 IIIp		B4, A5, B2, B4 B4, B6	
WO 32			"	"		"	
WO 36			3.86	F6 I		B6, B2, B3, B3, B4, B6	
W1 59						B6 B2 B3 B3 B3 B3	
W2 08						"	
W1 10			4.22	K3 III		B6 B3 B5 B6 C2 C4 Clouds	
EO 52	31 12	0	5.7	B3e	8-8-8	138-139 focus 63 #7 { 1713 1716	fine
EO 11	34 25	0	5.98	B3e	8-8-8	Cn - Be some clouds #7 { 1717 1720	fine
EO 6	52 57	0	5.81	B3e	8-8-8	Cn - Be #7 { 1722 1725	fine
WO 11	58 31	0	7.5	K5	8-8-8	std Vel #9 { 1727 1780	fine
EO 50	61 42	0	4.35	K0 II	24	mk std focus 62 #6 { 1781 1783	fine
EO 45	"	"	"	"	24	" #6 { 1784 1787	fine

Date Fri 11 June 1955 Observer Hyre Julian Day 175

Dome Temp.	
Focus	
Dome Temp.	
Hour Angle	
End	

Dome Temp.

314

[illegible]

Date 11-12 JUNE, 1965 FRI-SAT Observer Hb, Sd Julian Day 176.5

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
28430	δ Sco	15 54.4	-22 20	G40	IIaO	13	64°F	21 45	21 47	A	01 08E
28431	δ Sco	"	"	"	"	"	"	21 50	21 52	B	01 08E
28432	δ Sco	"	"	"	"	"	"	21 56	21 58	C	0 57E
28433	ω Sco	16 01.0	-20 24	G40	IIaO ^{unbaked}	13	64°F	22 06	22 10	A	0 51E
28434	ω Sco	"	"	"	"	"	"	22 12	22 16	B	00 46E
28435	σ Sco	16 15.1	-25 21	G40	IIaO	13	64°F	22 32	22 35	A	00 39E
28436	δ Sco	"	"	"	IIcO	13	64°F	22 37	22 39	B	00 36E
28437	HR 6620 HD 161701	17 41.9	-14 42	G40	IIaO	13	64°F	22 52	23 26	C	01 16E
28438	HR 6773 HD 165814	18 02.7	-25 29	G40	IIaO	13	62°F	23 35	00 48	A	00 14E
28439	HD 170235	18 23.2	-25 19	G40	IIaO	13	61°F	00 55	01 59	B	00 36W
28440	HD 171780	18 31.6	+34 22	G40	IIaO	13	58°F	02 10	02 37	C	01 27W
28441	HR 7174 HD 176318	18 54.6	+38 07	G40	IIaO	13	57°F	02 43	02 59	A	01 06W
28442	δ Cyg	19 41.8	+44 53	G40	IIaO	13	56°F	03 05	03 07	B	00 27W
28443	δ Cyg	19 41.8	+44 53	G40	IIaO	13	56°F	03 09	03 10	C	00 30W
28443 T	Calibration Step Wedge										

for plates #28430-43

Dome Temp. *66°F from 28440*
 Focus *67/64*
 Dome Temp. *56°F*

Transparency Conditions *good - scattered CI, As* 316
gibbons moon
 2315 - *CI from south*

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 52	A	01 08E	-22 29	0-1	2.3	B0V	12-12-12	MK Std. $\sim \frac{1}{2} X$ <i>field flattener not done</i>	fine
01 52	B	01 08E	-22 29	"	"	"	18-18	" $\frac{1}{2} X$	fine
01 52	C	0 57E	-22 29	0-1	"	"	18-18	" $\frac{1}{4} X$	fine
02 15	A	0 51E	-20 34	0-1	3.91	B1V	12-12-12	" $\frac{1}{2} X$	fine
02 16	B	00 46E	"	0	"	"	12-12-12	" $\frac{1}{4} V$ CAPPING DEVICE GIVING TROUBLE	fine
02 35	A	00 39E	-25 26	0	2.9	B1V	12-12-12	" $\frac{1}{2} X$	fine
02 39	B	00 36E	"	0	2.9	B1V	18-18	" $\frac{1}{4} X$	fine
02 39	C	01 16E	-14° 41'	0-1	6.1	B9	12-12-12	B8-B9 Binary <i>end of slow motion</i>	fine
02 48	A	00 14E	-25 27	0	6.7	B8	12-12-12	B8-B9 Binary <i>VISUAL TROUBLE</i>	fine
02 59	B	00 36W	-25° 15'	0-0	6.7	B1Se	12-12-12	Cn-Be Prog <i>FINDER FIELD DRAWN</i>	fine
02 37	C	01 07W	+34 26	0	5.98	B3e	12-12-12	Cn-Be Prog	fine
02 59	A	01 06W	+38° 13'	0	5.7	B8	12-12	B8-B9 Binary <i>FINDER FIELD DRAWN</i>	fine
03 07	B	00 27W	+45° 04'	0	2.82	B9.5III	18-18	MK STD $\sim \frac{1}{2} X$	fine
03 10	C	00 30W	+45° 04'	0	2.82	B9.5III	18-18	MK STD $\sim \frac{1}{4} X$	fine

Dome Temp. 52°F

Focus

Dome Temp.

Transparency Conditions transparency good,

rests of clouds on photometer
tracings recognizable.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 8 ^m W		v. poor	2.23	A0 II		Visitors finish 11 ^h 10 ^m . Moon	
1 ^h 36 ^m W			2.8	K 2 III		night photometrically doubtful	
0 ^h 1 ^m E		poor	7.0	G0 Ib	+ Sky	<u>improving</u>	
0 ^h 1 ^m W			7.0	G0 Ib	+ Sky		
0 ^h 35 ^m W			7.5	B3	+ Sky		
0 ^h 20 ^m W			6.3	K0			
0 ^h 54 ^m W			3.0	F2 IV			
0 ^h 37 ^m W			4.3	G0 Ib	+ Sky		
0 ^h 38 ^m W			2.24	F8 Ib	+ Sky		

319 Jdb, McI testing filters → 21:30

Date 13, 14 June 1965 Observer SK Zee Julian Day 2453880.5

[illegible]

Dome Temp.

Hour Angle
End

Ch 21

Dome Temp. 52°F

Transparency Conditions ~~very good~~

heavy clouds from NE at 8
2.200

Dome Temp.

Rising Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0 ^h 21 ^m W		average	2-2.3	A0E		heavy clouds come up from NE	
								- COULD WE PLEASE HAVE ONE OR TWO / (LONG) PENCILS FOR THE DOMES?	

Date 15-16 June
Tues - Wed

Observer *H. d. P. J. P.* Julian Day

Tues^d - Wed.

1d My D
Vdo

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
28444	ϵ Vir	12 59.7	+11 13.7	G10	unbaked unsaturated E.A. OR	9(x)L		20 48 ⁴⁶	22 20	C
28444 F ₁	focus test in in/out out			G10	E.A. Dev.	9			MIDDLE	
382-1	HR 5270	14 00.8	+09 52		t = 20 sec				22 45	
-2	HR 5447	14 33.1	+29 54		"				23 02	
-3	HR 5511	14 44.5	+02 02		"				23 22	
-4	HR 5641	15 14.1	+33 26		"				23 38	
-5	HR 5854	15 42.6	+06 32		"				23 49	
-6	HR 5933	15 54.8	+15 47		"				00 01	
-7	HR 5947	15 56.1	+26 59		"				00 16	
-8	HR 6092	16 18.6	46 24		"				00 34	
-9	HR 6588	17 38.4	46 02		"				00 45	
28444 T	Calibration Step Wedge				for plate 28444					

CLOUDY

Julian Day

[illegible]

WZ

34/38

Ending Time
E.S.T.

20/30

Focus 62

30/30

Focus 68

cton
good.

325

326

HANDBOUND
AT THE



UNIVERSITY OF
TORONTO PRESS