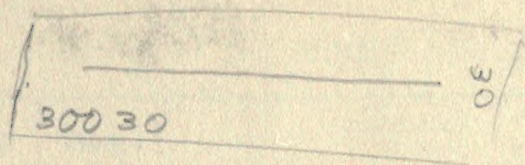


1
For G40. If c to vi, then decrease the reading } make setting
" " " red " increase the reading } with number
increasing

thing
under
in



3

Dome Temp

Focus

Dome Temp

How Angle

End

5

VISITORS

Go Re (Hg) W G + Albino

~~XX~~Date Sept 24 / Sept 1 / Sun

Observer

Hn
Re / Wd
ri

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
29868	HD 215143	22 ^h 38.0	-7° 29'	G40	IIaOb	17	+45°	22 17	22 27	B
29869	HD 216057	22 ^h 44.6	+53° 53'	"	"	"	"	22 40	22 46	C
29870	HD 217348	22 ^h 55.0	+59° 10'	"	"	"	"	22 50	23 04	A
29871	HD 224404	23 ^h 52.5	+59° 18'	"	"	"	"	23 09	23 15	B
29872	HD 10362	01 36.2	+40 55'	"	"	"	"	23 19	23 27	A
29873	HD 225289	23 ^h 55.8	+60° 46'	"	"	"	"	23 32	23 36	B
29874	HD 2054	00 19.6	+52 36	"	"	"	+43°	23 40	23 44	C
29875	HD 209790	22 00.9	64° 08'	"	"	13	"	23 59	00 02	A
29876	HD 10260	01 35.3	60° 32'	"	"	17	"	00 11	00 19	C
29877	HD 11291	01 45.8	+50° 18'	"	"	"	43°	00 29	00 32	A
29878	T Tau	04 16.2	19° 18'	"	"	"	"	00 54	05 24	B
29878T	Calibration Step Wedge for plates 29868-78									
* Photoelectric observations yield					B = 11.52 !					

Dome Temp. 47°

Focus 44.8

Dome Temp.

Transparency Conditions Fair. No wind. Humid.

Very clear in between

Very windy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Object	Quality
0017E	-7° 07'	1	6.28	B9	10/10/10	field checked	BB-B9	800/60 fine plate foggy
0005E	+54° 11'	1-2	6.03	B8	10/10/10		BB-B9	800/60 strong
0004W	+59° 38'		6.36	B9	10/10/10	clouds field checked	BB-B9	800/60 fine light streaks
0045E	+59° 51'		6.37	B8	10/10/10	field checked	BB-B9	800/60 fine
0216E			6.4	B8	10/10/10		BB-B9	800/60 very windy strong light streaks
0031E	+61° 08'	1-2	5.85	B9	10/10/10	done	BB-B9	800/65 strong
0044E	+53° 51'	2	5.7	B9	10/10/10		BB-B9	800/60 strong
0156W		2	4.65	A3	10/10/10	ASF old vel hand guided	ASF	800/50 guiding
0144E	+60° 53'	1	6.6	B8	10/10/10		BB-B9 SS	800/62 strong
0140E	+50° 38'	1	5.6	B9	10/10/10		BB-B9 SS	800/60 strong
0102W		1	9.5	G5e	10/10	Dust Re		800/60 hazy

at 5:00 ^{AM} EST noticed something peculiar
 haze not moving } 10° directly south of Sirius. White haze (circular), watched
 - remained same } for awhile - then there was a flash and a ball of light first red then
 place above } green as it grew. appeared 10° below the haze - haze from this outburst was
 administration }
 buildings }
 teardrop in shape and lasted till we closed up.

9

Date 26/27 Sept 1940 Observer Re - (Hr) met - Cr Julian 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.
465-1 -30	HD 177217	19 01.1	-16 23'	Q40	Ilab	17	47°		20 00 00 55	
29879	HD 14422	02 14.7	+56 56	Q40	Ilab	17	42°	01 22 ²³	02 08	A
29880	HD 21212	03 20.3	+62 09	Q40	Ilab	17		02 15 ¹⁵	02 45	C
29881	HD 25348	03 56.6	+53 03	Q40	Ilab	17	41°	02 50 ¹⁰	03 10	A
29882	BD +37 1292	05 35.9	+37 56	Q40	Ilab	17		03 17 ²⁰	03 57	B
29883	BD +23 1148	05 55.0	+23 20	Q40	Ilab	17		04 03 ¹⁵	04 33	C
29883T	Calibration Step Wedge for plates 29879-83									

NGS Variables (List 12) - Lecture by H.L.

11

Date Sept 27-28/61 Observer H.L. - DB / H.L. - EA Julian Day 192

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 An End
29880	HD 17817	19 01.1	-16 23	G40	II aob	13		20 25	20 35		
29885	+2° 3771	18 59.2	+2° 58	G40		17	50°	20 50	22 35		
29886	HD 16219	2 31.1	39 27	G40	II aob	17XL	47°F	01 53	01 59	B	E0
29887	HD 25292	3 56.1	53 00	G40	II aob	17XL	47	02 11	02 33	C	E1
29888	HD 21933	3 27.1	+9 02	G40	II aob	17XL	47	02 41	02 46	A	E0
29889	HD 23258	3 38.6	+20 37	G40	II aob	17XL	47	02 49	02 53	B	E0
29890	HD 33461	5 05.3	41 06	G40	II aob	17XL	47	02 59	03 23	C	E1
29891	HD 37318	5 31.6	28 24	G40	II aob	17	47	03 39	04 03	A	E1
29892	BD +23° 1148	5 53.0	+3° 10	G40	II aob	17	47	04 09	04 49	B	E1
29893	HD 61351	7 59.0	-6 03	G40	II aob	13	47	04 56	05 25	C	E2
29894	Substrate										
9051	from HD 15 21 21			I-25		13	9°C			2	

Dome Temp. 52°

Focus

Dome Temp. $47^{\circ}F$ Transparency Conditions *Very hazy - cloudy at first but cleared clearing again 20100 - fair - good*

12

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
01 43W	—	0	5.88	B8	10/10/10	for 446 B8-B9	fine	
04 23W	—	0-1+	9.2	B0 III	10/10/	45 Db-OB Biogamme #15 closed up after exposure cloudy — also Frank He came in to fix Exposure rate	fine fine fine	
E 0 27 39	46	0 [≡]	6.35	B8	30	B8-B9 (d.e)	500/70	good exposure good
E 1 20 53	12	0	8.1	F8	10-10-10	Cur-BE (#11)	500/60	fine
E 0 36 + 9	18	0-1	5.59	B8	30	B8-B9	500/70	fine
E 0 40 + 20	52	0-1	6.01	B9	30	B8-B9	500/70	fine
E 1 39 41	13	0-1	8.85	82.2: none	10-10-10	Cur-BE (#12)	500/60	fine
E 1 25 28	27	0-1	8.84	80.5: none	10-10-10	Cur-BE (#13)	500/60	fine
E 1 01 23	22	0-1/2	8.93	82.2: none	10-10-10	Cur-BE (#17) circled 24.30	500/50	fine
E 7 21 -6	12	0	7.78	K0	10-10-10	"	500/54	fine
RET 1	15.35							
" 6	15.15				10/7			
" 9	14.95							

closed up - ~~at~~ DAWN

PLEASE CHECK FINDER FIELD OF #29893

Dome Temp. 47°

Focus

Dome Temp.

Transparency Conditions

scattered clouds
completely cloudy in
south to -45°
THREAT OF RAIN

14

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 17 W	-59 27	0	7.0	Bone	^{0.45} 12-20 ⁶¹⁰ 5-5-5 (442)	^{14d} On Be programme slight mid air bands during exposure	800/15 fuzzed good exposure sl center in real sl center to metal in violet
Fast clouds moved in from SW!!							

15

~ 180 Vistors - looked at Saturn (rings very thin & bright)
 Stowed slides in dome.

Date October 23 Sat/Sun. Observer ai - cn ^{Hr.} Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	in ¹⁷ Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
29895	HD 213014	22 23.4	+16° 46'	G40	IIaOb	17	44°/44°	22:30	23 02	A
29896	HD 216629	22 49.4	+61° 36'	"	"	"		23:09	00 29	B
29897	HD 25348	03 56.6	+53 03	G40	IIaOb	17	42°	00 37	01 05	C
29898	HD 37318	05 32.6	+26 24	G40	IIaOb	17		01 41	01 45	A
29899	HD 42308	06 09.3	+08 44	G40	IIaOb	17		02 11	02 21	B

Dome Temp. 45°

Focus 44.0

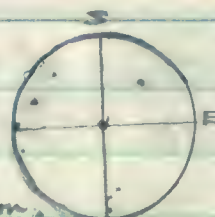
Dome Temp.

Transparency Conditions Excellent!

16

01:30 cloud moon just past full
 01:45 CLOUDS.

g Time S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	A	01 00 W	+17° 06'	0	8.5	G8	12-12-12	ITD: VEL. PROGRAM Note finder field as observed: star has faint visual companion.	800/80 fine
1	B	02 01 W	+62 00	1	10.03	B2pe	12-12-12	On Be ? full OK	800/50 fine
0		02 23 E	+53 13	1	8.53	B1Vpne	12-12-12	On Be	800/50 fine
0		03 27 E	+22 27	1	8.64	B0.6.2.2	12-12-12	On Be	800/50 fine
1	E	03 24 E	+08 45	0	8.22	B1.5.1.1	12-24	On Be l. cloud	800/50 fine
								Cloud up 02 30 where a faint mag?	



Dome Temp. 48

Focus 44.5

Dome Temp.

Transparency Conditions

Clouds in SW horizon

18

Clouded over completely then

cleared up ~1930 GST. Rechecked 23^h

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 34 W	-9 17	0-1 1-2	9.0	09I	10-13/13	CAPPED AT 1915 WITH 11 COUNTS (44.2) Db-OB programme #10 RE-OPENED 1928	800/60
4 09 W	+3 06	2	9.2	B0 III	12-12-12	Db-OB prog. #15	800/43
01.12W		2	6.4	B8	12-12-12	B8-B9 Sp Bin. Foc.!	400/31
03.06W		2	6.39	B9	12-12-12	B8-B9	800/60
00 10 W	+56 21	2	7.6	B1e	12-12-12	Had Be trouble in locating star. OK now. Field checks	800/50
						Clouds. Throw plate away	800/52
						C10 5/5/5	OK
						Closed up 0030	
						found finder cap	
						no filter	
						5/5	centre of plate was A 4600
						5/8	moved w side of grating 2 1/2 turns toward plateholder → centre 4300 A
						40 ^s	C10 filter

3rd order to

Focus → 81 (black number
increasing)

19

Date Oct 4/5 1966 Tue Wed Observer [Mc]Julian Day [Mc]
[Mc]
[Mc]
[Mc]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
29905	HD10497	01 37.3	+52°23'	G40	F ₂₀	13		00:00	00:09	D
29906	"	"	"	"	"	"		00:10	00:17	C
29907	HD12953	02 01.7	+57°57'	"	"	"		00:20	00:29	B
29908	"	"	"	"	"	"		00:35	00:37	C
29909	HD 2054	00 19.6	52°30'	G40	II _a O	17xL		00:45	00:49	A
29910	HD 10362	01 36.2	+60°55'	"	II _a ob	"		00:53	00:58	B
29911	HD9138	01 24.9	+05°38'	"	"	^{13mm} F		01 08	01 18	C
29912	HD 21933	3 27.1	+9°2'	"	"	17xL		01 33	01 38	A
29913	HD23258	3 38.6	+20°31'	"	"	"		01 43	01 52	B
29914	HD 23552	3 41.0	50°26'	"	"	"		02 00	02 06	C
29915	HD 23594	3 41.3	56°49'	"	"	"		02 13	02 21	A
29916	HD 23662	3 41.8	68°12'	"	"	"		02 28	02 35	B
29917	HD 24709	3 51.2	22°54'	"	"	"	49	02 41	02 47	C

*Smearing plates to remove some slime water sitting on the calibrator
 behind the N. Dim and they have been flipped down in turning
 the table! One broken 9mm. The old microscope has been checked!

Dome Temp. 52

Transparency Conditions *intermittent clouds after 10:00*

Focus

20

Dome Temp.

ig Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0050E	+52°44'	0	6.8	F5Ia	6/10 7	MK STANDARDS 1/2 Norm. 400/25	fine
0048E	"	"	"	"	7	" " " " 1/4 Normal 400/12	fine
0106E	+58°17'	"	6.0	A1Ia	7	" " " " 1/2 Norm 400/15	fine
0058E	"	"	"	"	7 6/40	" " " " 1/4 Norm 400/8	fine
0102W	+52°51'	1	5.7	B9	40	B8 B9 400/40	fine
0005E	61°15'	1	6.4	B8	40	B8-B9 400/35	fine
0021W	+6°00'	0	6.2	K4	12/12/12	Std Vel ← waiting for clouds to pass. 400/60	fine
E 01 15	+9°18'	0-1	5.59	B8	40	B8-B9 400/35	fine
E 01 14	+20 52	0-1	6.01	B9	40	B8-B9 400/35	fine
E 01 03	+50°40'	0	5.87	B8	40	B8-B9 800/70	fine
E 0 50	57 03	0	6.46	B9	40	B8-B9 800/70	fine
E 0 37	68 25	0-	6.28	B8	40	B8-B9 800/70	fine
E 0 31	23 07	0-	5.96	B9	40	B8-B9 800/70	fine

25 inches Vol 2
cutters? 1/4 Norm

to say 12/12/12

21

Date Wed Oct 5 (cont'd) Observer P. M. S. E. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
29918	HD 25752	3 54.7	36 44	G40	Feb 6	17XL	49	02 53	02 59	A
29919	HD 21026	4 11.2	41 57	G40	Feb 6	"		03 04	03 11	B
29920	HD 28475	4 24.2	40 18	"	"	"		03 16	03 31	C
29921	HD 28459	4 24.2	32 14	"	"	"		03 35	3 54	A
29921 F	fragment in imp/out			"	"	13	47			B
29921 T ₁	Calculation of plates				29905-07					
29921 T ₂	"				29910-21					

Dome Temp.

Transparency Conditions *partly cloudy*

22

Focus

Dome Temp. *47°F*ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 53 4 L00 23E	37° 57'	0	6.31	B9	40	B8-B9 800/70	fine
3 11 3 E0 29	42° 05'	0-1	6.07	B8	40	B8-B9 800/70	fine
3 31 3 E0 20	10° 27'	0-1	6.5	B9	40	B8-B9 800/70	fine
5 4 3 W0 02	32 25		6.17	B9	40	B8-B9 <u>clouds</u> 800/70	strong
					5/5	G ¹⁰ filter	streaks
<hr/>							
<i>Give 800/60 for B8-B9 stars</i>							

23

Date 5-6 1966

Wed - Thurs

Observer

(Ad, etc)
Db / H3
Ri

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
29922	HD 198183	20 435	36 07	G12	Daob	9		19 04	19 17	C
29922F	G12 FOCUS TEST			"	"	"	40 ⁰ F			A
29923	HD 20554	00^h 19^m 6	45^o 30'	G40	Daob	17				A
29924	HD 10362	01 36.2	+60 55							

Dome Temp. 44°F

Transparency Conditions 0030 - fair

24

Focus

0035 - overcast

Dome Temp.

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	00 53 E		1	4.5	B6C	40	Had Be clouds of stars 100 of stars had 14 counts of stars (about = 7 min) 5-5 (no filter)	100/14
	Closed up 20h EST due to <u>very</u> unsettled weather - could easily rain <u>again!!</u>							
			0.7	B9		B8-B9		800 /

25

Date 6-7 Oct 1966

Observer

MGR
Mse
Fa / Re
Re / (HA)

Julian Day

(Chus - Fri)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
29923	BD +1° 3694	18 ^h 25.4	+1° 10'	G40	IIaOb	17	50	18 45 ⁷⁰	21 05	A
466-1	HR 8775	23 02.1	+27 51					21 25		
-4	NGC 205							21 55		
29924	+61° 2292	22 19.7	62° 12'	G40	IIaOb	17		22 19 ⁷⁹	00 17	B
29925	+23° 982	05 ^h 33.1	+23° 16'	G40	IIaOb	17		00 30 ²⁷	01 24	C
29926	+5° 951	05 ^h 26.7	+5° 56'	G40	IIaOb	17		01 29 ¹⁹	02 07	A
29927	-0° 1034	05 ^h 33.0	-0° 14'	G40	IIaOb	17		02 10 ⁷	02 24	E
29928	-4° 1162	05 ^h 27.3	-4° 35'	G40	IIaOb	17		02 30 ¹⁵	03 06	A
29929	-1° 1001	05 ^h 35.2	-1° 30'	G40	IIaOb	17		03 08 ⁹	03 26	B
29930	+16° 852	05 ^h 37.9	+16° 19'	G40	IIaOb	17		03 30 ²⁷	04 12	A
29931	-8° 1199	05 ^h 37.6	-8° 11'	G40	IIaOb	17		04 14 ³⁷	05 28	B

Dome Temp. +48°F

Focus 44.5

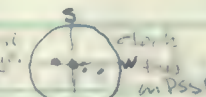
Dome Temp.

Transparency Conditions Nearly Photometric

Very Photometric 21:25 → 21:55!

2200 - cirrus

26

g Time ST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
05 A	03 22W	+1° 22'	2+	10.4	AO	12/12/12	Re "dust" NO 123 800/40	Frank good	
							Clouded out		
17 B	02 37W	62° 31'	1	10.8 (B)	12/12/12	Re "dust" NO 153	800/40	Frank	
24 C	03 30E	+23° 18'	1	9.4	gKO	12/12/12	Re "dust" NO 47 {taken through cirrus clouds}	800/60	weak
24	02 40E	+6° 03'	1	9.0 (B?)	12/12/12	Re "dust" NO 43	800/40	fine	
24	02 28E	-0° 12'	1	7.5	B9	12/12/12	Re "dust" NO 48 	800/40	fine
08	01 40E	-4° 32'	0+	8.2	B9	12/12/12	Re "dust" NO 44 {taken through cirrus clouds}	900/40	fine
26	01 23E	-1° 30'	1	7.7	B8	12/12/12	Re "dust" NO 50 cirrus	800/40	fine
16	00 50E	+16° 23'	1	9.4	AO	12/12/12	Re "dust" NO 56	800/40	fine
01	03 3 W	-8° 08'	0-1	9.2	B9	12-12-12	Re "dust" NO 55	800/31	Frank
							Frank please fix the auto center manually, would you?		

21

Date Oct 7/8 1966 Fri/Sat

Observer

Re
J
PaC
(R.)

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
29932	HD 181558 HR 7339	19 15.8	-19°25'	G40	IIaOb	13XL	52	18:55	19:12	A
29933	HD 192606 7738	20 10.9	-12°39'	"	"	"	52	19:19	19:28	C
29934	HD 216529	22 49.4	+61°36'	"	"	17	52	22:02 ^m	23:32	C
29935	HD 222368	23 34.8	+05°05'	G12 ⁺	IIaOb	9	53°	23:49	00:23	C
29935	HD 25348	03 56.6	+53°03'	G40	IIaOb	17		00:39	01:03	C
29937	"	"	"	"	"	"		01:04	01:28	A
29938	HD 43203	06 12.6	+23°03'	B40	IIaOb	17		01:35	02:23	B
29939	HD 44131	06 15.0	-02°54'	B40	IIaOb	17		02:27	02:37	C
29940	HD 105 1291	06 27.6	+05°52'	B40	IIaOb	17		02:44	03:54	H
29941	HD 559431	06 27.6	+12°24'	B40	IIaOb	17	52°	03:57	04:33	B
29942	HD 51091	06 42.5	-13°07'	B40	IIaOb	17		04:38	05:29	C

Dome Temp. 52°

Transparency Conditions Nearly Photometric

28

Focus 44.5

Dome Temp.

g Time S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12	A	0 ^h 39 ^m W	—	1	6.7	B8	12-12-12	B8-B9 800/60	fine
28	C	0 ^h 02 ^m W	+12°24'	2	6.39	B9	12-12-12	B7-B9 There are two plates marked "33" One is unexposed. 800/60	* fine
22	C	01 34 W	+62°01'	1	10.03	B9pe	12-12-12	Cu Be field check Cu 800/50	fine
23	C	01 32 W	+05 28	0	4.64	F7Z	12-12-12	Std Vel. considerable image motion 20/20?	fine
08	C	02 11 E	+53 15	0	8.55	B1Vpnc	12/12/12	Cu Be ¹ 800/50	⊗ fine
09	L	01 45 E	"	0-1	"	"	12/12/12	Cu Be 500/50	fine
23	B	03 05 E	+23 02	0-1	9.06	B1Vipe	12/12/12	Cu Be ^{new box of plates} 500/50	fine
27	L	12 5-8		1	6.5	M1	12/24	Std Vel 400/60	fine
02	A	01 49 E	+05 52	1-2	9.72	P0:pe	12/12/12	Cu Be 500/50	fine
03	B	01 10 E	+10 22	1-2	9.02	B2pe	12/12/12	Cu Be 500/50	fine
29	L	08 33 E	-13 09	0-1	8.52	B3pe	12/12/12	Cu Be 500/50	fine

⊗ Automatic guide used entirely

WTB FRANK

* Exposed 2 hrs on DBOB star, BD +2° 3771, but plate removed without dark slide in place. See Jn for details.

Dome Temp. +59°F

Transparency Conditions

30

Focus 450

Very Good - Clear till
~ 01^h40 GST

Dome Temp.

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
SS	P	00 14 E	+59° 32	0-1	8.2	B3e	12/12/12	Ugly looking clouds in N. Lightnings = cloud up 22.30 Hd Be (23) (Fuse blew) 800/47	guiding
SR	A	00 43 E	+31° 17	2	11.2	B3p	12/12/14	Re 'Dist', #17 (Camped 0.52) (clouds all over the place - 800/3)	weak
								Absolutely useless to observe Clouds came in from SE and cover whole sky. Closed up :: night rain: 02:30	
								Couldn't identify spider field for <u>HD 13651</u> at 0 hr	

CLOUDS IN WEST AT 07⁰⁰

Dome Temp. 63°F

Transparency Conditions

32

Focus

100% mag at 21:00.

Dome Temp.

AUTO GUIDING MOTOR NOT WORKING ANYMORE

Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
46		E 4 ^m	+36 24	1	4.5	B6e	15-15-15	Had see seems wrong. Star seems faint / dupl cap not properly open.	
05		W 13 ^m	46 00	2	4.9	B25ex	15-15-15	Had Be.	100/24
22		W 0 17 ^m	46 03	2	5.2	B3ne	15-15-15	"	100/24?
01		01 28 W	61 45	0-	6.6	B3ne	15/15/	20.47 capped (clouds) 21.03 uncapped (clear)	100/13
							21.53 closed up - overcast. B/8 (no filter)		

33

Date Oct 10/11 Mon. Tues. Observer DeFu Julian 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.
29949	HD 192666 HR 7738	20 12.7	-12 39	G-40	II a 0 b	176	51.0	19:50	2002	B
29949T	Calibration Slip Wedge for plates 29932-44, 49									
	12 Oct 66 (msec)									
29949E	focus test in in/out			G12	II a 0 b	9	43 ⁰ F			C
F2	"	"	"	G12	"	9	43			C
F3	"	"	"				44			C
F4	"	"	"				44			A
	13 Oct 66									
29949E5	focus test in in/out			G40	II a 0.	13	44 ⁰ F			C
F6	in/out	"	"	G12	II a 0 b	9	46 ⁰ F			C
F7	"	"	"	"	"	"	4			A
F8	"	"	"	"	"	"	"			B
9							48 ⁰ F			A
10							"			B
11							"			C

Dome Temp.

Transparency Conditions

Focus 45.0F

A crazy night! Was photometric when opened up at 19:00. Then a rain shower start pouring down from a stupid cloud out of nowhere! Was in scene W but saw rain in mirror. Close up and waited 1/2 h. Clouds cleared up and took B8/B9. See remarks on same

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0045 W	-12:24	0	6.39	B9	12 12-12	B8-B9 program threatening rain. Closeup 800/47	lunar
						no filter	
						5/5 focus was at 50.5, turned down to 20, then set up to 77. (using BLACK SCALE)	sl c to si
						3/5 set from 77 to 74 (as above)	us c to si
						3/5 set " 74 " 72	us c to si
						3/5 focus 72	OK
						5/5 no filter focus 45	OK
						3/5 same focus (72)	OK
						3/5 " "	OK
						3/5 " "	OK
						same focus (72)	OK
						" late look	OK
						"	OK

dome temp 78 °F
45"

C
C
C
A
C
C
4
3
-
0
C

Dome Temp.

Transparency Conditions

36

Focus

Dome Temp.

ing Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h	45 ^m				3/5	change focus to 70 (black scale)	c 20-2
					3/5		not in focus
					3/5		1A
						Gr 12 PH C in in good focus, PH B fair focus & avoid using PH A. (C D violet) ✓	

37

Date FRI.-SAT. OCT. 14-15/66 Observer vdB Mac Hr Julian Day

Plate No.	Object	R.A. 1900 1966	Declination 1900 1966	Inst.	Emulsion	FILTER 31t	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
29950	M31 field	00 42.5	41 15.4	NEWT	10360	5513 = B		00 06 ⁴⁰	00 11 ⁴⁰	1
29951	"	"	"	"	"	"		00 15 ¹⁴	00 20 ¹⁴	2
29952	"	"	"	"	"	"		00 22 ⁵³	00 27 ⁵³	4
29953	"	"	"	"	"	"		00 31 ⁰⁴	00 36 ⁰⁴	2
29954	"	"	"	"	"	"		00 43 ⁰⁸	00 48 ⁰⁸	1
55	"	"	"	"	"	"		00 50 ¹⁸	00 55 ¹⁸	2
56	"	"	"	"	"	"		00 57 ²⁰	01 02 ²⁰	1
57	"	"	"	"	"	"		01 04 ⁵⁶	01 09 ⁵⁶	2
58	"	"	"	"	"	"		01 14 ²⁵	01 19 ²⁵	1
59	"	"	"	"	"	"		01 27 ⁵⁰	01 32 ⁵⁰	2
29960	"	"	"	"	"	"		01 37 ⁵⁹	01 42 ⁵⁹	1
61	"	"	"	"	"	"		01 47 ⁴⁰	01 52 ⁴⁰	2
62	"	"	"	"	"	"		01 57 ⁰⁵	02 02 ⁰⁵	1
63	"	"	"	"	"	"		02 07 ⁴⁰	02 12 ⁴⁰	2
64	"	"	"	"	"	"		02 15 ⁴³	02 20 ⁴³	1
65	"	"	"	"	"	"		02 22 ⁵⁹	02 27 ⁵⁹	2

Dome Temp.

Transparency Conditions

Poor - cirrus cloud
most of the time - 38

Focus

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXP. Comp.	REMARKS	Quality
0 ^h	44 W	+41 16				5 ^m		
0 ^h	53 W					"		
01 ^h	01 W							
01 ^h	09 W							
1 ^h	21 W						← clouds	
1 ^h	28 W						thin clouds during exposure	
01 ^h	35 W							
01 ^h	43 W							
01 ^h	52 W						Mel Guiding for the first time in his life!	
02 ^h	06 W						" " " CLONDS.	
02 ^h	16 W						" " "	
02 ^h	26 W						" " "	
02 ^h	35 W						" " "	
02 ^h	46 W						VdB Guiding	
02 ^h	54 W							
3 ^h	01 W							

39

Date Sat Oct 15 (Cont'd) Observer VdB-McCl-Hr Julian Day

Plate No.	Object	R.A. 1900 1966	Declination 1900 1966	Inst.	Emulsion	FILTER 311	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
29966	M31-field A	00 42.5	+41 15.4	NEWT	10390	SS13 = B		02 30 ⁴²	02 35 ⁴²	1
67								02 37 ⁴⁴	02 42 ⁴⁴	2
68								02 45 ²⁰	02 50 ²⁰	1
67								02 51 ⁴³	02 56 ⁴²	2
70								03 02 ¹¹	03 07 ¹¹	1
71								03 09 ⁴⁸	03 14 ⁴⁸	2
72								03 17 ¹¹	03 22 ¹¹	1
73								03 26 ⁰⁰	03 31 ⁰⁰	2
74								03 32 ³¹	03 37 ³¹	1
29975								03 39 ⁰⁷	03 43 ⁵⁰	

41

Date Oct 17/18

Observer Db, Wd, Jr, Vr Julian Day

Mon - Tue

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
29976	HD 173783	18 420	-9°25'	G40	Il. 70	17	44°	18 35	19 18	C
29977	HD 197226	20 373	+36°43'	G40	"	17H	44°	20:54	21:02	B
29978	HD 194939	20 232	-03°41'	"	"	17H	"	21:10	21:19	A
29979	HD 187235	19 459	+32°09'	"	"	17H	"	21:30	21:35	B
29980	HD 196504	20 32.8	+26°07'	"	"	17H	"	21:43	21:47	C
29981	HD 200340	20 57.8	-01°19'	"	"	"	"	21:54	22:14	A
27781T	1 Collection	Exp 6.4	Exp 6.4	Exp 6.4	Exp 6.4	Exp 6.4	Exp 6.4	Exp 6.4	Exp 6.4	Exp 6.4
467-1	HR 8781								22 49	
-10	HR 8852								00 53	

Dome Temp. 43°

Focus

Dome Temp.

Transparency Conditions goodclouded over at 19:20 EST
rain, clearing 2045

42

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 59 W	+9° 17'	0-	9.0	09 I	12/24	D6 O-B Prog + clouds.	800/9 weak
01 50 W	+39° 00'	0-	6.42	B9	12/12/12	B8-B9	400/35 good
02 20 W	-03° 25'	0-	6.01	B9	12/12/12	B8-B9	400/35 fine
03 16 W	+38° 21'	0-	5.65	B9	12/12/12	B8-B9	400/35 fine
02 39 W	+26° 24'	0-	5.52	B9	12/12/12	B8-B9	400/35 fine
02 41 W	-01° 01'	0-	6.26	B8	12/12/12	B8-B9	400/35 fine
		0					
		0				Clouds	

Dome Temp.

Transparency Conditions

Same Hoy in South at First
at 23:30 Very Good.

Focus

Dome Temp.

ing Time
I.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0-1

0-1

Thick Clouds at 22 06

460 VISITORS (Fe-Hu, Pc) SHOWED SATURXI

45

(Hu)
 mel Fa Re

Date 20-21 Oct/66 Observer mel - ucl Julian 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.
29982	HD 152 391	16 48.0	+0° 12'	G40	IIaOb	13	43°F	18:00	18 23	C
29983	HD 1764922	17 58.4	+26° 22'	G40	IIaOb	13				
29984 ³	HD 169578	18, 20.2	+5° 02'	G40	IIaOb	13	} slit at 17	18:52	18.59	A
29985 ⁴	HD 174567	18, 46.0	+31° 31'	G40	*			19:07	19.10	E
469-1								20:20		
-23									0136	
29982 ⁵	BD +23° 921	05 ^h 23.1	+23° 37'	G40	IIaOb	17	35°	0200	0426	C
29983 ⁶	BD -2° 1350	05 ^h 38.0	-02° 21'	"	"	17		0428	0452	B
29984 ⁷	BD -5° 1515	06 ^h 03.5	-05° 19'	"	"	17		0455	0520	C
29988 ⁸	HD 66292	07 ^h 59.5	-06° 03'	"	"	13L		0527	0537	A
29986 ⁹	HD 99491	11^h 21.7	+03° 33'	"	"	13S		0550	0558	B
29986 ^T	7/7	focus	target	setting	43.9	172	-35°F			C
								SUGGEST		
								43.5 with for 35°F		

Dome Temp
 Focus 7/4
 Dome Temp

Hour Angle
 End

03 11

02 14

02 00

0032W

0034

0034

0034

0034

* NB

Dome Temp.

Transparency Conditions Photometric

Focus 7.4

Splendid!

Dome Temp.

ing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	03 11	+0° 51'	0	7.56	G5	12-12-12	GH PROG 49/800	fine
				8.10	K0		GH PROG. unable to find #/800	
27	02 14	+5 00	1	6.54	B9	12-12-12	VB9 (S6) 35/800	fine
19	02 02	+31.38	1	6.5	B7	12-12-12	" (main prog) * 35/800	fine
			1					
			1-2					
0037W	+23° 42'	2-3	10.8	F2	12/12/12	Re DUST NO 41	800/50	fine
0052W	-02° 17'	1-2	8.3	B8	12/12/12	Re DUST NO 57	800/40	fine
0055W	-05° 18'	1-2	9.4	B5	12/12/12	Re DUST NO 70	800/40	fine
0043E	-06° 14'	1-2	^{major} 6.32	G0	12/12/12	GHagen <u>This</u> IS the <u>right</u> star!!	800/65	fine
0355E	-03° 15'	?	6.34	AKG	12/24	GHagen Shy awfully BRIGHT!	800/32	fine
							HAVE TO STOP SUNRISE! n saw a <u>identifiable</u> star <u>than</u> our star.	
* NB SLIT WAS ^{at} 17 at beginning of spectroscopy run after 0136								

47

Date 21-22 Oct / 66

Observer Db, Ph /
(Hn)

Julian 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.
29990	HD 158633	17 ^h 25. ^m 3	67° 24'	G40	IIaOb	B ₃	48°	18 15	18 ^h 36	A
29991	12° 3771	18 59.2	+2° 58'	G40	"	17	48°	18 47	20 54	B'
29992	HD 195988	20 ^h 27. ^m 4	+41° 07'	G40	"	13	47-8	21 08	21 30	A
29993	HD 1256	00 11.7	-20 24	"	"	17L	47°	21 39	20 54 ^m	B
94	HD 10260	01 35.3	+60 32	G40	IIaOb	17L		21 06	22 10	C
95	11291	01 45.8	+50 18	"	IIa-Ob	"		22 22	22 24	
96	10260	01 35.3	+60 32	G40	IIa-Ob	"		22 32	22 34	
97	∅ Kn	01 37.4	+50 11	G10	IIa-Ob	9	47	23 08	23 12	C
98	HD 11291	01 45.8	+50 18	G40	IIa-Ob	17XL	47	23 37	23 41	
99	HD 23383	03 39.7	+55 37	G40	IIa-Ob	17XL	47	23 51	23 57	
30.000	HD 26670	4 08.4	61 36	G40	IIaOb	17XL		0 07	0 10	
30.000	"	"	"	"	"	"		0 13	0 16	

Dome Temp.

Focus

Dome Temp.

2017
1726
251Transparency Conditions *Hazy all around.*
Thick Cirrus clouds at 19h.

48

Hour Angle Eod	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 53 W	67° 22'	0-1	7.31	KO	12/12/12	64 Programme (Sp. about touch 5 pier)	60/400
3 34 W		0-1.2	9.2	B0 III	12/12/12	D6-OB Program 15 Huge 19h - 6 Camp 1925	800/50
2 41 W	+41° 19'	1-2	7.64	G0	12/12/12	Field OK Sd Star	400/45
0 41 E		1-2	6.4	B8	12/12/12	B8-B9 Program	400/20
0 47 E			6.58	B8	12/12/12	" " (Camp maybe OK)	800/35
01 45 E		1-2	5.62	B9	12/24	" " field in track	400/20
01 23 E		"	6.58	B8	12/12/12	" " "	400/20
01 15 E			4.19	B0p	10/10/10	4d-Ba Clouds in west!	100/28
0 25 E		1-2	5.6	B9	12/12/12	B8-B9	400/20
0 2 03 E			6.02	B9	12/24		
03 40	61 48		5.59	B8	12-12	B8-B9 (SB) ← Field flatness not in position!!	
03 34 E	"		5.59	B8	12-12	B8-B9 (SB)	

Note - In 29991, 2 plates, with 31,
one empty! Which?

49

Date 21/22/0ct 66 Observer Fa. Mee - Re Julian Day

(Sat)

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.	
30.001	HD 10362	01 36.2	+60 55	G40	IIa06	17xL	47	0.30 ^m	0.34	* A	
30.002	HD 2054	00 19.6	57 30	G40	IIa06	17xL	46	0.44 ^m	0.45	C	
30.003	HD 7137	01 24.9	+05 38	G40	IIa06	13	46	1 ^h 00	1 ^h 14 ^m	A	
30.004	BD+23° 482	5 33.1	+23° 16	G40	IIa06	17		1:23	2:45	C	
	exposure stopped temporarily due to clouds								3:04	03:30	
30.005	BD+5° 1035	5 47.3	+5° 08	G40	IIa06	17		03:37	04:27	B	
30.006	10° 1773	6 52.4	-10° 08	G40	IIa06	17		04:37	5 13	A	
30.007	HD 99491	11 21.7	+3° 33	G40	IIa06	13L		5 23	06 05	B	
30.007X	THE SUN	≈ 13 ^h	≈ -5°	"	"	17L		0600	0605	C	

Dome Temp.

Transparency Conditions

fair - good

50

Focus

EXCELLENT AFTER 03:15

Dome Temp.

g Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
* A W 0.37 ^m	61° 16'	1	6.4	B8	35	B8-B9 (main prog) 35/800	fine
						- found 04. 13 locked in disk, but lock still not quite closed	fine
C W 0.26 ^m	52° 52'	1	5.7	B9	35	B8-B9 (main prog) 35/800	guiding
4 A V 1 ^m 33 ^m	+6 01	1	6.2	K4	12-70	se. vel. * 74/800	weak
C	23 10	1	4.4	gk0	12-12	Re "lost" NOA7 80/800	weak
E 0.22		0-1			12		
B E 0.21	+5° 12	0	9.6	G5	12-12	Re dust # 61 55/800	weak
13 A W 0.02	-10 01	0-	8.6	B8	12-12	Re dust # 66 23/800 fr. old star not seen to check definitely wrong star	weak
E 3 ^m 40	+3° 15'	0-	6.04	dK0	12-12	GM * abn. mag. Took brighter comparison 54/800	weak
E 03 45		0-	-26A	G2V	12-24	GH? Finder Field checks! 80/800	weak

* 2000 or so A; 5000 or so M C - this

51

Date 23/24 Oct 1966 Sun-Mon Observer Cu ^{mcl} Ri (Rc) Julian Day 7
Rm _{Ea}

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
30008	HD 217543	22 56.3	+38 10	240	Ilford	13XL	48°	20 22	20 32	F	00 38E
30009	HD 223501	23 45.0	+61 39	"	"	"	"	20 47	21 15	C	01 43E
30010	HD 220118	23 16.1	+57 43	"	"	17.	"	21 23	22 07	B	02 25W
30011	BD +65 358	01 42.7	+60 33	240	Ilford	17	"	22 16	23 54	C	03 02E
30012	BD -50 300	01 42.2	+50 37	"	"	"	"	00 02	01 50	A	02 35E
470-1									02 18		
470-18									05 58		
30012 T ₁	Calibration Strip Wedge # 12				29990 - 30002						
T ₂	"				30003 - 12						

Dome Temp.

Focus 44.5

Dome Temp.

Transparency Conditions 1. cloud early in evening
- 1. cirrus occasionally

52

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
32	00 38E	+38 33	1	6.4	Bne	12-12-12	NA Be	400/35	fine
15	00 43E	+62 65	1	8.2	B3c	12-12-12	NA Be	400/70	fine
07	00 38W	+58 05	1	9.28	B3c	12-12-12	On Be	800/50	fine
04	00 02 E	+60 53	1	9.61	B3ne	12-12-12	On Be	800/50	fine
50	02 20W	+50 57	1	9.52	B3rc	12-12-12	On Be field check.	800/50	fine
			1						
			1						

53

Date 24/25 Oct 66

Observer

Wd

Re

Julian Day

Mon. Tue

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30013	HD 164922	17 ^h 58.4	+ 2 ^o 22'	G-40	Iloub	17	47 ^o	1809	1838	B
30014	+ 2 ^o 3771	18 ^h 59.7	+ 2 ^o 58'	G-40	Iloub	17	-	1844	2000	A
30015	HD 195988	20 ^h 29.4	+ 4 ^o 07'	G-40	Iloub	17	-	2032	2055	C
30015F	<i>Focus test in/out</i>			G40	Iloub	17	47 ^o F			A
30016	HD 206778 E.P.	21 ^h 39.3	+ 9 ^o 25'	G12	Iloub	9	-	2121	2133	C
30017	HD 220368 E.P.	23 ^h 34 ^m 8	+ 5 ^o 05'	G12	Iloub	9	-	2142	2210	B
30018	∅ Per	01 37.4	+ 50 11	G12	Iloub	9	-	2219	2223	C
30019	HD 1178/β Cen	00 38.6	- 18 ^o 32'	G12	Iloub	9	-	2231	2242	B
30020	HD 2789	00 26.3	+ 66 ^o 36'	G40	Iloub	17	-	2259	2328	A
30021	HD 225289	23 59.9	+ 60 ^o 56'	G40	Iloub	17	-	2340	2343	B
30022	HD 2054	00 17.6	+ 52 30	G40	Iloub	17	-	2350	2355	C
30023	HD 2054	"	"	G40	Iloub	17	-	2358	0002	A
30024	BD +23 ^o 982	05 ^h 33.1	+ 23 ^o 16'	G40	Iloub	17	-	0015	0123	B
30025	BD -5 ^o 1281	05 ^h 26.4	- 5 ^o 47'	G40	Iloub	17	-	0130	0315	C

Dome Temp. 50°

Focus 44.0

Dome Temp.

Transparency Conditions clouds in S.E. but good the rest of the sky.

sky hazy

54

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 32 ^m W	26°22'	2 ⁺	8.10	K0	12/12/12 G Hagen	400/60	fine
2 ^h 52 ^m W	+3°05'	2 ⁺	9.2	BTE	12/12/12 Do 0815	800/50	fine
2 ^h 17 ^m W	+41°25'	2	7.64	G0?	12/12/12 G. Hagen - Waterwood / Field drawn checks	800/80	fine
					6/10 file 5/5		
01 46W	+9°45'	2 ⁺	3.98	K256	12/12/12 Bright Std Vel.	100/100	comp
00 27W	+5°29'	2	4.64	F7E	12/12/12 "	100/60	comp
01 ^m 24E	+50°34'	2	4.19	B0P	12/12/12 Hd Special Star	100/29	comp
00 ^m 05E	-18°08'	2	3.06	K114	12/12/12 Bright Std Vel	100/102	comp
00 ^m 55W	+67°00'	2 ⁻	8.61	B2e	12/12/12 On Be Field checks.	800/50	fine
01 ^m 36W	+61°07'	2 ⁻	5.9	B9	12/18 B8-B9 Field. Drawn (May be maybe) (Capping maybe) (Loose) (suffd)	800/60	fine
01 ^m 26W	+52°51'	2 ⁺	5.7	B9	12/24 B6-B9	800/60	fine
01 ^m 34W	"	"	"	"	12/24 B8-B9	800/60	fine
02 20E	+23°19'	2	9.4	gKO	12/12/12 Re "DUST" NO 47 Field checks	800/90	fine
00 20E	-05°42'	1	10.2	A7	12/12/12 Re "DUST" NO 42 Field drawn	800/40	fine
					OVER 12 #30025-25 all in same plate		
					* best lens on wrong star - plates to be discarded		

55

Date Oct 25 1966 Observer Re Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
30026	+14° 1171	06 04.4	+14° 05'	G40	IIaOb	17	—	0318	0357	A
30027	-6° 1431	06 04.6	-06° 18'	G40	IIaOb	17	+39°F	0404	0512	B
30028	-12° 1771	07 00.6	-12° 11'	G40	IIaOb	17	—	0515	0535	C
30029	-10° 1773	06 52.4	-10° 08'	G40	IIaOb	17	—	0544	0600	A
30029 T ₁	Calibration	Slip W. dya	for plate		30013-15,			30020-29		
T ₂	"	"	"	"	30016-19					

Dome Temp. 44°F

Transparency Conditions Slight haze

56

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0016E	+14°08'	2	9.0	B3	12/12/12	Re "DUST" NO 71 Field checks 800/40	fine
0100W	-06°16'	1	9.4	B5	12/12/12	Re "DUST" NO 72 Field drawn 800/40	fine
0028W	-12°14'	1	8.5	B9	12/12/12	Re "DUST" NO 94 Field checks 800/40	fine
0101W	-10°12'	1	8.6	B8	12/12/12	Re "DUST" NO 86 Field checks 800/22	Evenish
						SKY BRIGHTENING FAST DURING LAST PLATE.	
						Close up	
						Gr-40 CAPPI/G LIGHT REQUIRED ONLY TEMPORARILY.	

John Bampton + MCL showed Solway to Workers Education Assoc class.

57

Date Oct 25/26

Observer

(Hm)
Bn / Mcc
Ri
Re

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
300 30 471-6	HD 152391	16 48.0	+0° 12'	640	IIoOb	13		18 09 ¹⁰	18 40 20 18 21 03	A
300 31	HD 212883	22 22.4	+36 57	640	IIoOb	17	42	22 07	22 17	B
300 32	HD 217811	22 58.2	43 31	640	IIoOb	17		22 35	22 45	C
33	HD 1012	01 30.8	+58 08	640	IIoOb	13	41	23 16	23 33	A
34	HD 10260	01 35.3	+60 37	640	IIoOb	17		23 49	23 50	E
35	HD 11291	01 45.8	+50 18		IIoOb	17		00 03	00 05	C
300 36	OCas	00 39.1	+47 44		IIoOb	13		00 14	00 15	A
300 37	HD 12953	02 01.7	+57° 57		IIoO	13		00 26	00 27	B
300 38	HD 15497	02 24.6	+57° 15		IIaO	13		00 33	00 43	C
300 39	HD 15497	02 24.6	+57° 15		IIaO	13		00 44	00 47	A
300 40	HD 17378	02 42.2	+56° 40		IIaO	13		00 50	00 55	B
300 41	HD 17378	02 42.2	+56° 40		IIaO	13		00 57	00 59	A
300 42	HD 21291	03 21.0	+59° 36'		IIaO	13		01 02	01 03	B
300 43	HD 21291	03 21.0	+59° 36'		IIaO	13		01 04	01 05	A

Dome Temp. 47

Transparency Conditions *clear*

58

Focus 44.0

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 42 W	+0° 05'	0-1	7.56	G5	12-12-12	GH Program (10 min to spare)	60/800
		0					
		0					
1° 50 W	37 18	0	6.2	B2V	12-12-12	B Std Vel ^{visit to slit} } very different	50/800
1 43 W	43 55	1	6.1	B3V	12-12-	B Std Vel } focus	50/800
0 04 E	58 29	1-2	7.4	B5V	12-12-12	B Std Vel	50/800
0 09 W	60° 54	1-2	6.6	B8	12-12-12	B8 B9 Sp Bi	50/800
00 15 W	+50° 38	1-2	5.6	B9	36 610	B3 B9 Sp Bi	800/40
0 13 1 E	+48° 05'	1-2	4.70	B2V	10	MK-Std (1/4 NORMAL)	400/6
00 21 E	+58° 16'	1-2	6.0	A1Ia	10	MK-Std (1/2 NORMAL)	400/12
00 12 W	+57° 34	1-2	7.0	B6Ia	10	MK-Std Field check (1/2 NORMAL)	400/20
00 17 W	+57° 34	1-2	7.0	B6Ia	10	MK-Std (1/4 NORMAL)	400/10
00 03 W	+56° 57'	1-2	7.0	A3Ia	10	MK-Std (1/2 NORMAL)	400/20
00 11 W	+56° 57'	1-2	7.0	A3Ia	10	MK-Std (1/4 NORMAL)	400/10
00 24 E	+59° 49	1-2	4.7	B7Ia	10	MK-Std (1/4 NORMAL)	400/6
00 21 E	+59° 49	1-2	4.7	B7Ia	10	MK-Std (1/2 normal)	400/12

59.

Date 029 26 Observer Mrs. R. Pe Julian 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.
300 44	HD 21483	03 22.7	+30°02'	G40	IIaD	13		01 09	01 017	B
300 45	HD 21483	03 22.7	+30°02'	G40	IIaD	13	38°	01 18	01 21	C
300 46	24 Ari	02 03.7	+25°28'	G40	IIaD	13		01 24	01 26	A
300 47	36 Per	03 25.5	+45°43'	"	IIaD	13		01 35	01 37	B
								6 35		
300 48	36 Per	03 25.5	+45°43'	G40	IIaD	13		01 38	01 40	C
300 49	ε Eri	03 28.2	-09°48'	G40	IIaD	13		01 44	01 47	A
300 50	ε Eri	03 28.2	-9°48'	G40	IIaD	13		01 48	01 50	B
300 51	46 Tau	04 08.2	+07°28'	G40	IIaD	13		01 52	01 55	C
300 52	46 Tau	04 08.2	+07°28'	G40	IIaD	13		01 56	01 58	A
300 53	17 Tau	03 38.9	+23°48'	G40	IIaD	13		02 01	02 02	B
300 54	17 Tau	03 38.9	+23°48'	G40	IIaD	13		02 05	02 06	A
300 55	η Tau	03 41.5	+23°48'	G40	IIaD	13		02 08	02 09	C
300 56	η Tau	03 41.5	+23°48'	G40	IIaD	13		02 10	02 11	B
300 57	27 Tau	03 43.3	+23°45'	G40	IIaD	13		02 15	02 16	A
300 58	27 Tau	03 43.3	+23°45'	G40	IIaD	13		02 17	02 18	B

Dome Temp. 42

Transparency Conditions fair - good

60

Focus 44.0

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0011E	30° 16'	1-2	6.9	B3III	10	MK-std (1/2 NORMAL) 400/20	fine
0005E	30° 16'	1-2	6.9	B3III	10	MK-std (1/4 NORMAL) 400/10	fine
0124W	25° 48'	1-2	5.01	F2II	10	MK-std (1/4 NORMAL) 400/12	fine
0006W	45° 59'	1-2	5.30	F4II	10	MK-std (1/2 NORMAL) 400/20 03:29.6 85?	fine
						check 1945 F4 85?	
0010W	+45° 59'	1-2	5.30	F4II	10	MK-std (1/4 NORMAL) 400/	fine
0015W	-09° 32'	1	4.62	K2V	10	MK-std (1/2 NORMAL) 400/30	fine
0018W	-09° 32'	1	4.62	K2V	10	MK-std (1/4 NORMAL) 400/15	fine
0016E	+07° 41'	1	5.32	F3V	10	MK-std (1/2 NORMAL) 400/20	fine
0013E	+07° 41'	1	5.32	F3V	10	MK-std (1/4 NORMAL) 400/10	fine
0020W	+24° 03'	1	3.69	B6II	10	MK-std (1/2 NORMAL) 400/15	fine
0024W	+24° 03'	1	3.69	B6II	10	MK-std (1/4 NORMAL) 400/7	fine
0024W	24° 03'	1	2.77	B7III	10	MK-std (1/5 NORMAL) 400/15	fine
0025W	24° 03'	1	2.77	B7III	10	MK-std (1/4 NORMAL) 400/7	fine
0029W	24° 00'	1-2	3.62	B8III	10	MK-std (1/2 NORMAL) 400/15	fine
0030W	24° 00'	1-2	3.62	B8III	10	MK-std (1/4 NORMAL) 400/7	fine

61

Date Oct 26 Observer Msc, Ri, Pe Julian 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.
300 59	E Per	03 51.1	+39° 43'	G40	DaOb	13		02 27	02 29	B
300 60	E Per	03 51.1	+39° 43'	G40	DaOb	13		02 29	02 30	A
300 61	BD+10° 1172	06 27.5	+10° 24'	G40	DaOb	17		02		C
300 61	BD-10° 1773	06 52.4	+10° 08'	G40	DaOb	17		02 55	03 43	C
300 62	BD+10 1158	06 25.3	+10° 09'	G40	DaOb	17		04 05	04 29	A
300 63	BD-9° 1498	06 26.0	-9° 36'	G40	DaOb	17		04 36	05 30	B
300 64	HD 99491	11 21.7	+3° 33'	G40	DaOb	13	36°	05 37	06 05	C
30064 T ₁	Calibration. Step wedge for plates					30030-35	53			
T ₂	"	"	"	"	"	30036-49				
T ₃	"	"	"	"	"	30050-52				
T ₄	"	"	"	"	"	30054-64				

Dome Temp. 40

Transparency Conditions *good*

62

Focus 44.0

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 32W	+39° 55'	2	2.96	B0.5II	10	Mk-Std (1/2 NORMAL) 400/16	fine
00 34W	+39° 55'		2.96	B0.5II	10	Mk-Std (1/2 NORMAL) 400/18	fine
			8.7	B6pc	G40	"Dust" Re #82 ^{CAN'T FIND *} 800/50	
01 13E	-10° 12'	1	8.6	B8	12/12/12	"Dust" Re #86 ^{TRIED AGAIN FOR #82} 800/50	fine
0000	+10° 11'		9.3	B8	14/12/12	"Dust" Re [ident?] #76 field dotted 800/40	fine
01 01W	-09° 35'		9.1	B8	12/12/12	"Dust" Re #80 ident. OK! ^{incl. very compact cluster} 800/44	fine
03 40E	+3° 15'	0	6.04	dko	12/14/12	GH 800/75	fine

63

Date 26/27 Oct Wed/Thurs Observer ^{Fa}mel - ^{Ea}mel Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
30065	HD 200775	21 00.4	67 47	640	IIaob	13-L	44.	19.17	19 37	A
30066	HD 209296, Muc 393	21.57.2	56 14	640	IIaob	13.L		20.11	20 37	B
30067	HD 218393, Muc 397	23 02.6	+49 40	640	IIaob	13.L		21:05	21 37	B
30068	HD 224559, Muc 407	23 53.8	45 52	640	IIaob	13.L		21:23	21:37	A
30069	BD+60 358	01 42.7	60 33	640	IIaob	R		22:05	23 33	B
30069T	Calibration	Step wedge for plates 30065-69								
472-1									0 12	
-34									05 53	

Dome Temp.

Focus 44.2

Dome Temp.

Transparency Conditions Very Hazy first half.
Slightly hazy second half.

64

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Mcl started but it got too Hazy.	
0 38W	68 03	1	7.2	B5e	12-12-12	Be program	good
0 40W	56.35	1	8.1	B5e	12-12-12	" " "	50/800 fine
0 04W	50.00	1	6.9	B4e	12-12-12	" " "	20/400 fine
0 20E	44 10		6.5	B3ne	12-12-12	" " "	20/400 fine
0 11E	60 55		9.61	B3ne	12-	Cn - Be program	fine
		2					
		2					

65 Oct 10. ~ 50 minutes saw Saturn
(R+N, sd)

Date 27/28 Feb /66

Observer McE - ^{Fu} ^{Rm} ^{Vr} ^{Ke} Julian Day

Thom Fri

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30070	HD 195407	20 26.0	36 39	G40	IIa06	13XL	48	19 ^h 44 ^m	20.05	C
30071	HD 195592	20 27.2	43 59	G40	IIa06	13XL	48	20 ^h 15 ^m	20 26	A
30072	HD 217312	22 59.8	62 32	G12	IIa06	9L	49			B
3007	HD 206718	21 39.8	49 25	G12	IIa06	9L	49	20.52	21.06	C
30072	HD 206718	21 39.3	49° 25'	G12	IIa06	9L		21 10	21 24	C
30073	HD 222768	23 ^h 34.8	5° 05"	G12	IIa06	9L	49	21 ^h 39 ^m	21 45	C
30074	HD 217312	22 59.8	62 32	G12	IIa06	9L	49/45	22 ^h 53 ^m	00 11	C
30075	HD 22879	3 ^h 30.3	-3° 32'	G40	IIa06	13L	45	00 22	00 50	A
30076	BD +10° 1158	6h. 25.3	+10° 09'	G40	IIa06	17	-	00 56	02 10	B
30074	17 Tau	3h 38.9	+23° 48'	G40	IIa06	13	-	02 14	02 17	C
30078	19 Aue	5h 13.4	+33° 51'	G40	IIa06	13	-	02 18	02 19	B
30079	19 Aue	"	"	G40	IIa06	13	-	02 21	02 22	C
	From Re: H B found in drawer with slide slightly open. Reloaded.									

Dome Temp.

FROM PREVIOUS NIGHT (W-CH-12-12-66)

Transparency Conditions

fair

66

Focus H420

WHAT HAS HAPPENED TO THE OUTER

Dome Temp.

PART OF THE PENCIL SHARPENER?

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
11.43	76.54'	1+	7.7	B3E	12-12-12	G40	Hd BE (FIELD DRAWN) 800/50	partly fogged
2 02	44° 15'	1-2	7.2	B1SE	12-12-12	B40	Hd BE (FIELD DRAWN) 800/50 * IT LOOKS THE WRONG COLOUR	Smoking
			7.2	B4II			Hd special *1 *2 *3 800/	
0 ^m 26 ^m	5° 29'	2	4.64	F2II	12-12-12	G10	BRIGHT STD. JEL. G RATING COVERED -	
11 47	9 45	2	3.98	K2E	12-12-12	G10	BRIGHT STD. JEL. 100/90	fine
							THIS PLATE NUMBERED 24	
10.13	5° 30'	2+	4.64	F7II	12-12-12	G10	BRIGHT STD. JEL. 100/60	fine
0320W	62 56	0-1	7.7	B4E	12-12-12	G10	Hd special ^{current W4N} 800/240	fine
0042E	-03° 18'	1	7.24	F4II	12-12-12	G10	GH star 800/30	fine
0212E	+10° 07'	1	9.3	B8	12-12-12	G40	Re "DUST" NO76 ^{thru clouds} Field checks 800/45	fine
0040W	+24° 04'	1	3.62	B6III	12	G12	Mk-std 1/4 normal 400/7	fine
0051E	+34° 00'	1	5.03	A5II	12	G12	Mk std 1/2 (hold full?) 800/12	fine
0048E	"	1	5.03	A5II	12	G12	Mk std 1/2 400/12	fine
*1	UNABLE TO FIND IT. THERE ARE 2 POSSIBILITIES AT THE							
*2	EDGE OF THE FIELD // B, RATING COVERED WERE OK							
*3	USING THE PLATES FROM THE LEFT OF THE CASE AND THE LAST PERSON TO USE THE G12/PLC ABOUT THE OTHER VERY SURE							

67

Date 22/28 Oct/66 Observer R. R. V. Julian DayThurs/Friday

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
300 80	ρ Aur	5h 13.4	+33° 51'	G40	IIa05	13	-	02 24	02 25	
300 81	β Tau	5h 20.0	+08° 31'	G40	IIa06	13	-	02 27	02 29	E
300 82	"	"	"	G40	IIa06	13	-	02 31	02 31	C
300 83	π Aur	5h 26.2	+32° 07'	G40	IIa06	13	-	02 34	02 35	E
300 84	"	"	"	G40	IIa06	13	-	02 36	02 36	A
300 85	BD -9° 1498	6h 26.0	-9° 36'	G40	IIa06	17	-	02 45	02 50	B
300 86	BC -10° 1172	06" 27.5	+10° 24'	G40	IIa06	17	-	04 03	04 50	C
300 87	BD -12° 1771	7h.00.6	-12° 11'	G40	IIa06	17	-	04 53	05 19	B
300 88	BD -11° 1755	6h.58.0	-11° 19'	G40	IIa06	17	-	05 22	05 56	C
300 87 ₁	Calibration Slip W. dy for plates 30070-71, 30075-86									
300 87 ₂	"	"	"	"	"	"	"	30087-88		
300 87 ₃	"	"	"	"	"	"	"	30072-74		

Dome Temp.

Transparency Conditions *Fair, hazy*

68

Focus

clouds Jan 0200-0230

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0048E	33°57'	1	5.03	AST	12	G12	Mk Std 1/4 400/7	fine
0050E	29°56'	1	1.52	B7III	12	G12	Mk Std 1/2 400/12	guiding
0048E	28°36'	1	"	"	12	G12	" " 1/4 400/7	numbered 83
0048E	32°12'	1	4.8	B5Iab	12	G12	" " 1/2 400/12	84
0046E	"	1	"	"	12	G12	" " 1/4 400/7	85
0017E	-9°35'	1	9.1	E8	12/12/12	G40	Re "dust" no 80 800/60	86
0026W	-12°09'	2	8.7	B6pe	12/12/12	G40	Re "DUST" NO 82 [4 th Cn Be] NO 25!!	87
0023W	-12°14'	2	8.5	B9	12/12/12	G40	Re "DUST" NO 34 800/45	88
0023W	-11°16'	1-2	(8.7)	B5n	12/14/12	G40	Re "DUST" NO 30 800/45	89

Comparisons on all MK STDs are strong

130 visitors Undergraduate Physics Conference 74" - Saturn, with Earth in plane of rings.

ed Hd
 ust
 Ke
 06
 69

Date 28/29 Oct 1966 Observer D6 / Wd / Ph / Fa Julian 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.
30089	HD 199892	20 54.9	+41 33	G40	IIaOb	17E	53°	18 ^h 45 ^s	18 ^h 55	
			Visitors							
30090	HD 6343	00^h 59.4	+65 26	G40	IIaOb	17	52°	22 ^h 26	22 ^h 45	C
30090	HD 12302	01 55.6	+59 12	G40	IIaOb	17		22 ^h 58	23 19	A
30091	HD 6343	00 59.4	+65 26	"	"	17		23 27	23 41	B
30092	HD 223501	23 ^h 45.0	+61° 39	"	"	17	52°	23 49	00 09	A
30093	φ Per	01 37.4	+50° 11	G-12	IIaOb	9	51	00 34	00.39	C
30094	^{Car} HD 3712	00 ^h 34.8	+55° 59	G-12	IIaOb	9	-	00.46	00.54	B
30095	^{PM} HD 20902	03 17.2	+49° 30	G-12	IIaOb	9	-	02.27	02.31	C
30095T	Calibration	Step wedge for plate								

Dome Temp. 53°

Transparency Conditions

Very Hazy

70

Focus

Cirrus at 19^h00, cloudy 1:00
clear 2:20
cloud 2:30

Dome Temp.

* Variable speed dec control dial came off
ITS IN THE DRAWER IN DOME

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 08W	$41^{\circ} 51'$	1	6.0	B9	12/24	640	38-B9 800/50	fine
00 10E	$65^{\circ} 49'$	1+	7.1	B5e β	12/24	640	Hd-Be 800/50*	
03 32E	$+59^{\circ} 32'$	1+	8.2	B3e	12/12/12	640	Hd-Be Filed difficult but checks 800/50	fine
00 46W	$+65^{\circ} 49'$	2	7.1	B5e β	12/12/12	640	Hd-Be 800/50 ⁵³	fine
02 51W	$+62^{\circ} 02'$	1-2	8.2	B3e	12/12/12	640	Hd-Be 800/50	good
1.08W	$+50.32$	2	4.19	30p	12/12/12	610	Hd Special 100/28	good
2.26W	$+56 23^{\circ}$	2	3.34	110 II	12/12/12	610	Std Velocity - G.12 100/100	fine
1.20W	$+49.48$	0-	2.27	F5 Ib	12/12	610	Std Velocity - G.12 100/60	fine
Clouded over 2:30							Dec Setting Motor Jammed.	
High winds + fast moving clouds, uncertain of weather, closed up at 02:40							I - Fixed it. + Clouded over 1:00 cleared 2:22	
Doom Coats quite wet after stopping.							* Material didn't put in plate to plateholder!	
							Guess I miswound motor of the hazard Db.	

Oct. 29 ~ 180 + visitors "Univiers" + lectures " Ai
 HB
 W

↑

Date Oct 29/30 Sat/Sun Observer ^{Ai} HB / ^W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30096	HD10362	01 ^h 36 ^m 2	+60° 5' 5"	Ke 10	IIaDb	17	40°	21 59	22 13	B
30097	"	"	"	"	"	"	"	22 16	22 26	C
30098	HD 23662	03 41.8	+68° 12'	"	"	"	"	22 43	22 53	A
30099	HD 23594	03 41.3	+56° 49'	"	"	"	"	23 01	23 16	B
30100	HD 23552	03 41.0	+50° 26'	"	"	"	"	23 33	23 37	C
30100T	Call for Sup ridge for plates 30089-92, 3096-30100									

Dome Temp. 38°F

Focus 4.45'

Dome Temp. _____

Transparency Conditions

Poor - Thin overcast.

Little rechargeable flash light
needs replacementExposure Meter Dial Reading does not drop to 0 - only 0.3
T₂ may be frogeding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
01 13E	+61° 16'	0 [≡]	6.4	B8	10/12/12	G40	B8-B9 seeing extremely bad. fres 44	800/60
01 00E	"	0 [≡]	"	"	12/12/12	"	B8-B9	800/60
02 42E	+68° 25'	0 [≡]	6.28	B8	12/12/12	G40	(see note for Hander)	800/60
02 16E	+57° 01'	"	6.46	B9	12/12/12	G40	[Identity uncertain]	800/40
01 54E	+50° 38'	0 [≡]	5.87	B8	12/25'	G40	CLOUDS	200/60

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Date Oct 31 / Nov 1Observer In
Wd
Va

Julian 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.
30100 F	Focus Test	—	—	G-12	IIaOb	13	43°			B
30101	HD 217312	22 ^h 54.8	+6232	G-12	IIaOb	13	—	18 10 ⁶⁴	20.18	C
	E Peg	21^h 39.3^m	+9° 25'	G-12	IIaOb	9	—	20.38		B
30101 T	Calculation for plate 30101									

Dome Temp. 45°

Focus

Dome Temp.

Transparency Conditions

quite hazy esp on horizon,
cloudy at 20:18.
used 30121 at this time

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
					5/5	None	Focus 30 red; Plate broken	
0016 E	+62 55	○	7.7	B4II	9/9/7	G10	Hd Special.	Clouds
			3.98	K2Ib		G10	Clouded up.	800/332
							closed up 20:45	
							light rain at 20:50.	plate found broken when unloaded. - broke while in spectrograph?

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Date Apr 4-5 Fri/Sat Observer L-Bn/HB ^{wd} Julian 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.
30102	H.D. 217050	22 52.7	48 09	G40	IIA0B	13	31	19 40	19 44	A
30103	" 219749	23 13.2	44 57	"	"	"	"	20 07	20 15	A
	" 3827	00 35.8	39 03	"	"	"	"	20 27		
30104	HD 13661	02 08.1	59 04	"	"	"	"	23 41	30 32	C
30105	HD 23950	03 44.0	+21 57	"	"	17	"	00 40	00 49	A
30106	HD 24769	03 51.2	+22 54	"	"	17	"	00 51	00 58 1/2	B
→ 30108	HD 25152	03 54.7	+36 44	"	"	17	"	01 14	01 21	A
→ 30107	HD 26571	04 07.0	+22 09	"	"	17	"	01 02	01 10	C
30109	HD 27526	04 11.2	+41 54	"	"	17	"	01 27	01 33	B
30110	HD 29721	04 35.7	+49 47	"	"	"	"	01 38	01 41	C
30111	HD 28459	04 24.2	+32 14	"	"	"	"	01 51	02 00	A
30112	HD 30122	04 35.7	+23 27	"	"	"	"	02 04	02 11	B
30113	HD 28475	04 24.2	+10 18	"	"	"	"	02 16	02 26	C
30114	HD 31373	04 50.2	+14 54	"	"	"	"	02 29	02 33	A
30115	HD 31764	04 53.4	+14 24	"	"	"	"	02 36	02 41	A
30116	HD 31747	04 53.3	+14 24	"	"	"	"	02 42	03 01	C

Dome Temp.

Focus 43.5

Dome Temp.

Transparency Conditions

0140 - light cloud in east.

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Hour	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00	35E	48 32	0	5.2	B3ae	36	C40	Hd de Prog.	20/400 fine
00	23E	45 18	0	6.3	B3p	36		B8 B9 Prog.	20/400 fine
				7.72	B3	12		GH Prog. clouds	20/400
00	18W	39 24	0+	8.6	B3ae	12-12/2		Hd de Prog.	50/800 strong
00	21E	+22° 11'	0	5.90	B9	12/12/12		B8-B9 (dec)	50/800 fine
00	18E	+23 07	0	5.96	B9	12/12/12		"	50/800 fine
00	03W	+36 57	0-1	6.31	B9	12/12/12		"	50/800 fine
00	21E	+22 22	0	6.11	B8	12/12/12		" (dec)	50/800 strong
00	04E	+42 05	0-1	6.07	B8	12/12/12		" (fogged?)	50/800 fine
00	18E	+49 56	0	5.3	B8	12/12/12		"	fine
00	13W	+32 24	0	6.17	B9	12/12/12		"	fine
00	06W	+23 35	0	6.12	B8	12/12/12		"	fine
00	37W	10 29	0	6.5	B9	12/12/12		"	fine
00	18W	+15 02	0	5.69	B8	12/12/12		"	fine
00	23W	+14 32	0	5.93	B8	12/12/12		" (dec)	fine
00	43W	+14 33	0	2.0	B9	12/12/12		B8-B9 (special) (dec)	fine

Dome Temp. 73.0

Transparency Conditions

Focus

5330 - Excellent

Dome Temp. 28.5

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 ^h 39 ^m W	-18° 30'	0	6.12	B8	12/12/12	40	B8-B9	50/800
00 ^h 55 W	-18 29'	0 ⁺	6.31	B8	12/12/12	"	"	50/800
01 ^h 51 W	-03 12	0 ⁺	5.89	B9	12/12/12	"	"	
01 ^h 34 W	+01 38	0	6.16	B8	12/12/12	"	" close circle (B-band)	
01 ^h 36 W	-08 38	0 ⁺	5.62	B8	12/12/12	"	" close circle	
01 ^h 38 W	-13 44	0	6.42	B8	12/12/12	"	"	
01 ^h 55 W	+02 59	0 ⁺	6.51	B9	12/12/12	"	"	
02 ^h 13 W	+00 32	0-1	6.56	B9	12/12/12	"	"	
02 ^h 15 W	-05 22	0-1	6.27	B9	12/12/12	"	"	
02 ^h 22 W	-00 32	0	6.23	B9	12/12/12	"	"	
02 ^h 32 W	-05 31	0 ⁺	6.11	B9	12/12/12	"	"	
02 ^h 42 W	+06 54	0	6.57	B9	12/12/12	"	"	
			6.3	B2			made pin in way	
02 ^h 00 W	-13 51	0	4.57	B9	13/12	"	"	
02 ^h 15 W	+01 10	0	6.57	B8	11/12/12	"	B8-B9	50/800
					5/5	617		

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Date Nov. 6. Sun (AM) Observer Hb. V. Rm. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30131	HD 23950	03 44.0	+21 57	640	Iladob	17	300F	00 29	00 35	A
30132	HD 24769	03 51.2	+22 54	"	"	"	"	00 37	00 42	B
30133	HD 26571	04 07.0	+22 09	"	"	"	"	00 45	00 49	C
30134	HD 25152	03 54.7	+36 44	"	"	"	"	00 52	00 57	A
30135	HD 27026	04 11.2	+11 54	"	"	"	"	01 01	01 05	B
30136	HD 29721	04 35.7	+49 47	"	"	"	"	01 09	01 12	C
30137	HD 28435	04 24.2	+32 14	"	"	"	"	01 20	01 25	A
30138	HD 30122	04 35.7	+22 27	"	"	"	"	01 29	01 34	B
30139	HD 28475	04 24.2	+10 18	"	"	"	"	01 42	01 51	C
30140	HD 31373	04 50.2	+14 54	"	"	"	"	01 53	01 57	A
30141	HD 3764	04 53.4	+14 24	"	"	"	"	02 00	02 04	B
30142	HD 31547	04 53.3	+14 24	"	"	"	"	02 06	02 22	C
30143	HD 34798	05 14.9	-18 37	"	"	"	"	02 26	02 35	A
30144	HD 34597	05 14.9	-18 36	"	"	"	"	02 29	02 50	B
30145	HD 35104	05 17.2	-18 51	"	"	"	"	03 03	03 18	C
30146	HD 33224	05 03.6	-08 47	"	"	"	"	03 20	03 31	A

Dome Temp. 32°F

Focus 23.5

Dome Temp.

Transparency Conditions

Cloud - S and E - Jan 80

0040 - improving, good seeing

0200 - excellent

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 31 E	+22 12	1	5.9	B9	12/12/12	640	B8-B9 Prog (d-e) 800/50	fine
00 31 E	+23 07	1	5.96	B9	12/12/12		" " "	fine
00 31 E	+22 22	1-2	6.11	B8	12/12/12		" (d-e) "	fine
00 20 E	+36 57	1-2	6.31	B9	12/12/12		" " "	fine
00 29 E	+42 05	1-2	6.07	B8	12/12/12		" " "	fine
00 46 E	+49 56	1-2	5.8	B8	12/21/12		" " "	fine
00 21 E	+32 25	1-2	6.17	B9	12/13/12		" " 50/800	fine
00 34 E	+23 35	1-2	6.12	B8	12/12/12		" " "	fine
00 05 W	+10 29	1-2	6.5	B9	12/12/12		" (held phosphor cell) ^{transmitted 230°}	fine
00 13 E	+15 02	1-2	5.69	B8	12/12/12		" " "	good
00 18 E	+14 22	1-2	5.83	B8	12/12/12		" (d-e) "	fine
00 07 W	+19 24	1-2	7.0	B9	12/12/12		" [equal] (d-e) "	fine
00 29 W	-12 30	0	6.12	B8	12/12/12		" " "	fine
00 12 W	-12 20	0	6.31	B8	12/12/12		" " "	fine
00 41 W	-12 44	0	6.42	B8	12/12/12		" [equal] "	fine
00 07 W	-8 40	3	5.62	B8	12/12/12		" " "	fine

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Date Nov. 6 Sunday Observer H. B. Jr., Rm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30147	HD 32273	4h 56 ^m .8	+01° 28'	Q32	Ilford	17	-	03.34	03.40	B
30148	HD 34317	5h 11 ^m .5	+01° 50'	"	"	"	-	03.43	03.49	C
30149	HD 33647	5h 06.6	+00° 24'	"	"	"	-	03.51	03.59	A
30150	HD 35542	5h 20.4	-00° 38'	"	"	"	-	04.01	04.07	B
30151	HD 30220	5h 15.5	-05° 22'	"	"	"	-	04.12	04.20	C
30152	HD 35640	5h 21.1	-05° 39'	"	"	"	-	04.23	04.30	A
30153	HB 35656	5 ^h 21.2	+2° 11'	"	"	"	-	04.30	04.39	B
30154	HD 58246	7 ^h 20.1	-22° 43'	"	"	"	-	04.52	04.55	C
30155	HD 58642	7 ^h 20.2	-25° 01'	"	"	"	-	04.59	05.09	B
30156	HD 5926	7 ^h 23.5	-22° 51'	"	"	"	-	05.10	05.42	B
30157	HD 61129	7 ^h 29.1	-25° 08'	"	"	"	-	05.21	05.24	C
30158	HD 71533	8 ^h 29.4	-20° 37'	"	"	"	-	05.30	05 ^h 41	B
30159	HD 67725	8 ^h 09.2	-11° 08'	"	"	"	-	05.44	05 ^h 50	B
30160	HD 62112	7 ^h 42.1	-12° 36'	"	"	"	-	05.54	06 ^h 02	C
30161	HD 62112	7 ^h 42.1	-12° 36'	"	"	"	-	05.54	06 ^h 02	C
30162	HD 62112	7 ^h 42.1	-12° 36'	"	"	"	-	05.54	06 ^h 02	C

Dome Temp.

Transparency Conditions

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Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
01:33W	+01 36	0+	6.16	B8	12/12/12	CGO	B2-B9	50/800
01:17W	+01 57	1	6.35	B9	12/12/12		"	fine
01:02W	+00 31	1	6.56	B9	12/12/12		"	fine
01:38W	-00 33	1	6.23	B9	12/12/12		"	fine
01:44W	-05 23	0-1	6.27	B9	12/12/12		"	fine
01:49W	-02 31	0	6.11	B9	12/12/12		"	fine
01:55W	+06 54	0	6.37	B9	12/12/12		"	fine
02:01W	-22 03	0	5.2	B9	12/12/12		"	fine
02:07W	-25 05	0	5.5	B9	12/12/12		"	fine
02:13W	-22 49	0	5.5	B8	12/12/12		"	fine
02:19W	-25 14	0	5.49	B8	11/12/12		"	fine
02:25W	-20 49	1	5.4	B8	12/12/12		"	fine
02:31W	-11 32	0-1	6.23	B9	12/12/12		"	fine
02:37W	-12 36	0-1	6.27	B8	12/12/12	CGO	"	fine
					5/5		focus test	

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Date

12-13^h / 66
Sat - Sun

Observer

mcl / Cr
Rm
- 1/2

Julian 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.	
30160	F ₂ faintest in in/outband			G40	E200b	13	38			A	
	F ₃			"	"	"	"			B	
	F ₄			"	"	"	"			C	
	F ₅						"			A	
	F ₆						"			B	
	F ₇						"			C	
473-1									22 15		
473-4									23 00		
30161	HD 224014 P Cross	23	49.4 +56	506	G40	E200b	13	34°F	00 04	00 10	A
30162	HD 3827	0	358 +39	03	G40	E200b	17	-	0 16	00 53	B
30163	HD 25348	3	56.6 +33	03	G40	E200b	17	-	1 00	01 00	C
30164	HD 251148	5	55.0 +23	20	G40	E200b	17	32°F	2 09	03 19	A
30165	HD 42725	06	09.3 +18	44	G40	"	17	91	03 24	04 07	B
30166	HD 94938	06	16.8 -11	74	G40	"	17	-	04 14	04 18	C
30167	HD 115 1291	06	21.6 +06	50	G40	"	17	-	04 15	04 19	A
30168	HD 115 1291	06	21.6 +06	50	G40	"	17	21.5			B

Dome Temp. 38°F

Focus

Dome Temp.

Transparency Conditions

Clouds only in evening 84
occasional clouds from N.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
					5/5	G12	focus 43.5	(badly) 2-10 um ...
					5/5	"	focus 43.0	63°F
					5/5	"	focus 42.5	(B) ...
					"	"	focus 42.0	
					"	"	focus 41.5	
					"	"	focus 41.0	(best focus)
							BEST FOCUS FOR 40°F APPEARS TO BE 41.0	
							(7.5 um ...)	
1 27W	?		4.59	F8Iap	86	G40	WT Special focus 41.0	200/15
1 23W	39 25	0	7.72	B3	12-12-12	G40	G11 * SLIDE MISSING. ANOM?	800/50
1 09W	53 16	0	8.25	B1 1/2	12-12-12	G40	G11 * SLIDE MISSING. ANOM?	100/50
1 00W	53 24	0	8.92	B1 1/2	12-12-12	G40	G11 Be focus 40.0	900/50
1 05W	49 45	0	10.2	B1 1/2	12-12-12	G40	G11 Be	900/50
1 09W	41 43	0	4.62	F8Iap	30	G40	G11 Be	100/25
1 01W	405 63	0	9.72	B1 1/2	12-12-12	G40	G11 Be	800/12
					4/5	G10	focus 40.0	

Clouds from the north

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Date 13-14 Nov 1966 ^{Fa} Sun. from Observer Wise Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30167 F ₂	focus test in in/out out			G40	Ilab	17	32°F			A
30168	H2174567	18 ^h 46.0	31° 31'	G40	Ilab	17	32°F	17 ^h 49	17 ^h 56	B
30169	H2187640	19 ^h 45.9	28° 12'	G40	Ilab	17	31°F	18 ^h 05	18 ^h 24	C
30170	H2199280	20^h 51.1	-03° 51'	G40	Ilab	17				A

15 Nov 1966 Tuesday Hb, JOR

30169 F ₁	focus test in in/out out			G40	Ilab	17	30°F			C
F ₂				G40	"	"	"			"
F ₃				G40	"	"	"			"
F ₄				G40	Ilab	17	30°F			C

Dome Temp. 36.0°F

Focus 40.0

Dome Temp.

Transparency Conditions clouds in W at sunset.

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
					5/5	G10		
2 ^H 21	31° 37'	0	6.5	B9	12-12-12	G40	B8-139 800/50	fine
4 ^H 49	28° 23'	0	6.24	B8	12-12-12	G40	B8-139 CLOUDS 600	fine
			6.45	B9				
					5/5	G10	focus set 38 nit clamped	water
					"	"	" " 38 clamped	water
					"	"	" " 39	water
					"	"	" " 40	water

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Date 1966 Nov 19/20 Sat-Sun Observer SK - W-H PH Julian 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.
30169	F ₅ <u> </u>			240	103a0	17	30			
30170	HD 204722	21 28.5	+23 29	240	IIaB	17	30	17 47 ²⁰	18 27	A
30171	HD 199831	20 48.2	+24 03	240	IIaB	17		18 39 ⁴⁰	19 09	B
30172	HD 197 246	21 07.4	+23 42	240	IIaB	17	29	18 05 ³²	21 19	C
30173		23 48.4	+26 17	240	IIaB	17	28	21 25 ²	21 29	D
30174	HD 196 19	02 19.2	+33 20	240	IIaB	17		21 37 ¹⁸	22 13	E
30175	HD 38010	04 57.5	+22 34	240	IIaB	17		22 28 ⁷	22 42	F
30176	HD 42942	04 01.1	+20 44	240	IIaB	17		22 52 ²⁰	23 32	G
30177	HD 415 129	06 27.6	+05 50	240	IIaB	17		23 51 ⁴⁶	01 23	H
30178	BD 210 1301	06 11.3	+23 19'	240	IIaB	17		01 33 ⁵	1 42	I
30179	SD 40 1175	05 41.6	+0 02'	240	IIaB	17		1:50 ⁷⁵	4:20	A
30180	HD 55439	07 07.8	-09 40	240	IIaB	17		5:20 ²⁷	5 23	B
30181	HD 71823	08 24.4	-23 17	240	IIaB	17		5:41 ²	5 44	C
30182	HD 74893	08 38.7	+9 42	240	IIaB	17	24°	5:50 ³	5:55	A
30183	HD 65241	07 52.7	+7 24	240	IIaB	17		5:52 ³	6:15	B
30184	HD 68247	08 08.4	+10 27	240	IIaB	17		6:11 ³	6:15	C

Dome Temp.

Transparency Conditions Excellent

Focus

2nd only. - also excellent

Dome Temp. 27°

ing Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
			Focus 37.0		5!	B10		sl etc vi
30 30 W	-9° 15'	0	7.64	B22e	12-24	C40	Can Be Focus 37.0 800/NOT	strong work
2 45 N	+4° 21'	0	7.31	B12e	2-12-12	C40	Can Be hi voltage mon of sun screen	l work
1 16 W	+48° 03'	0-1	12.23	B22e	12-12-12	C40	Can Be 400/50	fine
1 13 W	+57° 21'	1	4.6	F12e	16-16	C40	Wt Special 200/15	fine
0 22 E	+55° 40'	1	7.75	B22e	12-12-12	C40	Can Be 60/57	fine
3 22 E	+25° 24'	1	6.87	B12e	12-12-12	C40	Can Be 40/13	fine
1 13 E	+09° 45'	1	8.22	B12e	12-12-12	C40	Can Be not m 42259 best not sure of field	fine
1 30 E	+05° 33'	0	7.72	B12e	12-12-12	C40	Can Be Guider acting up - JK 500/50	sl work
1 57 E	+23° 19'	0	7.0	B9e	12-12-12	C40	Can Be 800/50	fine
2 15 W	+0° 05'	0	11.0	B8	12-12-12	C40	Can Be (field drawn) 50/50	l work
1 41 W	-9° 44'	0	8.58	B3e	12-12-12	C40	Can Be 50/50	l work
0 53 W	-20° 47'	0	6.4	B8	12-12-12	C40	B8-B9 - field not really done, work 20/50	work
0 53 W	+4° 30'	0	6.21	B8	12-12-12	C40	B8-B9 - check, see to work along axis	fine
1 46 W	+7° 21'	0	6.2	B9	12-12-12	C40	B8-B9	l work
1 43 W	9° 58'	0	6.05	B9	12-12-12	C40	B8-B9 / (Focus test - 6-12) 800/50 (30184 F. and)	fine

89

Ind.
sd
Hv
f
M

Date 20/21 Sun/Mon Observer km/ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.D.
³⁰¹⁸⁴ F2	Focus Test			640	Tr00b	17	30			A
30185	¹⁸⁷⁶⁴⁰	19 ^h 45 ^m 9	+28° 12'	640	"	13	30	18 25	19 40	B
30186	¹⁹²⁶⁶⁵	20 10.9	-12.39	640	Tr00b	13		18 42	19 40	C
30187	¹⁹⁹²⁸⁰	20 51.1	-03.57	640	Tr00b	13		<u>18 42</u>	19 58	A
471-1									20 16	
474-50									06 24	
30183 T	calibration step wedge for plates			30170 - 30183			67°F			
30187 T	calibration step wedge for plates			30184 - 30187			67°F			

Dome Temp. 22°

Focus 27.0/36.5

Dome Temp.

Transparency Conditions *Excellent*

9.0

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		Focus 37.0			5/5	G10		OK
23 W	+28° 24'	0	6.74	B8	12-12	G40	B8-B9 800/59	fine
56 W	-12° 22'	0	6.74	B7	12-12	G40	B8-B9 NOT IDENTIFIED Field wrong star drawn 800/50	OK
2 44 W	-3° 37'	0	6.75	B9	12-12	G40	B8-B9 Focus 36.5 800/50	OK
		0-1					Clouds in South ~ 21:30	
		1-2						

9)

Date Mon/Tues Nov 21/22/66 Observer Vr | Wd | Me | Re | Fa Julian 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.
30187 B F,	Focus Test MWC 346			G40	II20B	17	32			A
30188	HD 195907 MWC 371	20h 26.0 ^m	+36° 39'	G40	II20B	17	-	17 ^h 57 ^m	18 ^h 56 ^m	A
30189	HD 203060	21 ^h 21.3	+42° 16'	G40	II20B	17	32	19 ^h 06 ^m	19 ^h 26 ^m	E
30190	HD 4625	00 ^h 43.8	+40° 32'	G40	II20B	17	-	19 ^h 45 ^m	20 ^h 33 ^m	C
30191	HD 3529 475-1 475-14	00 ^h 35.8	+39° 03'	G40	II20B	17	-	23 ^h 02 ^m	23 ^h 57 ^m 20:41 23:11	A
30192	BD +70° 470	5 ^h 17.9	30° 45'	G40	II20B	17	32	00 ^h 21 ^m	2:58	C
30193	+23° 1301	06 13.3	+23° 19'	G40	II20B	17		03 02	3:14	E
30194	-08° 166A	06 55.7	-08° 43'	-	-	-		03 13	3:50	C
30195	+01° 1503	06 41.7	+01° 26'	-	-	-		03 56	05 54	B
30195 T	calibration	step wedge for plates 30188 - 30195 68'								
30195 F,	Focus	Tues Nov 22		G40	[36°F, Temp]	13		Had. Re,		B

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

Transparency Conditions

98

Focus

21:00 - 1st half refocus!
02:15 - hopeless clouds

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
					5/5	G10	focus 37.0	isolated
					5/5	G10	36.0	isolated
					5/5	G10	35.0	isolated
	$164^{\circ} 10'$		6.01	B9		G40	B8-B9	clouds

Plate Holder B in N.P.

99

Date 3-4 Dec / 66

Observer ^{D6} EL / ^{Wd} pin
_{Mc}

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
478-1									1752
478-51	HR 8414	22 040	00 31						02 28
3019 ^S F ₅	Focus Test			G40			6°		
20196	BD-6° 1418	06 ^h 032	-6° 21						
478-52									351
478-67									637

Dome Temp

Focus

Dome Temp

Hour Angle

Ecl

Dome Temp. 08°

Transparency Conditions Low Haze in the West

100

Focus

Dome Temp.

Ending Time
EST.

1752

0220

351

637

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FH	REMARKS	Quality
		0.1 1-2					Developed - center slightly to right.	
						G10	3 in / 5 out .. Setting 34.0°	
							Be Dust. Could not find star in guiding eyepiece - checked Bet (α Ori) - could not find in guiding eyepiece either - saw it on fringe - suspect alignment of optics is off??	
							- "DECKER" FOR ADJUSTING SCOT LENGTH WAS IN EXTREME UPPER POSITION - LIKELY AFTER FOCUS TEST WAS TAKEN - MISC OK NOW	

101

Date 11-12 Dec/66 - Sun/Mon Observer M. C. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
3019 ⁶ 7	HD 1905	01	51.9 +41° 12'	G40	IIaD	17	26°F	20:54	21:05	B
30197	HD 224014 9 Cass	23	49.4 56° 56.6'	G40	IIaD	13		21:13	21:19	C
30198	HD 23950	03	44.0 +21° 57'	G40	IIaD	17	26°F	21:29	21:34	A
30198F,	from list in in/out out			G40	IIaD	17	26°F			B
30198T,	calibration step wedge for							30190 -	30198	

Dome Temp. 29° F

Focus 370

Dome Temp. 26° F

Transparency Conditions

clearing at 20:00 102
* 5 buttons opened only with great difficulty
* Dome stuck at first (shutter closed OK)

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0 ^H 13	41 35	0 ⁻	6.56	B9	12-12-11	G40	B8-B9 (SB)	400/25 guiding at wk
0 ^H 29	57 20	0 ⁻	4.59	F85...	40	G40	WT *	400/30 at wk
1:13-8?	22 07	0 ⁻	5.90	B9	12-12	G40	B8-B9 (main prog)	800/50 wk
					5/5	G10	↑ exposure stopped due to clouds. Board up completely 23:30	at wk
							PH C loaded in 4 files	

Dome Temp. 30°

Transparency Conditions

Excl.

104

Focus

Dome Temp.

ing Time
E.S.T.

P2

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Filter

REMARKS

Quality

5/5

G10

Focus. ~~37.5~~ 37.0

OK

Clouded Over.

105

Date *files Dec 13-14/66* Observer *Hd Re Su* Julian Day *2439.473*
for me

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30198F ₃	<i>Jum</i>			G40	IlaoB	13	26F		<i>Jum 37</i>	A
30199	HD 192666	20 10.9	-12 39	"	"	"		17 39	19:59	B
30200	HD 192250	20 51.1	-3 57	"	"	"		18 17	19 01	C
30201	17 Tau	03589	+23 48	"	IlaoB	13		2308	2308	A
30202 01	"	"	"	"	"	"		23 10	23 11	C
30203 02	HR 1242	0356.1	+58 53	"	"	"		23 19	23 29	B
30204 03	"	"	"	"	Ilao	"		23 30	23 34	A
05 04	"	"	"	"	"	"		23 36	23 37	B
05 05	HR 1327	04 11.3	+64 54	"	Ilao	"		23 42	23 47	C
07 06	ICam A	04 24.1	+53 42	"	"	"		23 51	23 56	A
08 07	"	"	"	"	"	"		23:57	0:00	B
09 08	17 Aur	04 59.5	+41 06	"	"	"		00 05	00 05.5	A
10 09	B Tau	05 20.0	+28 31	"	"	"		00 09	0:11	C
11	9 Aur	05 26.2	+32 07	"	"	"		-	-	-
30209 F ₁	fragment in in part out			G40	Ilao	13	28F			A

Dome Temp.

Transparency Conditions

Partly Cloudy

Focus

Dome Temp.

cloudy after midnight

still cloudy at 03:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
								STIR 0.000	
2 ^h 55 ^m W	12° 23'	1	6.39	B9	12.24	G40	B9-B9 clouds down here	OK	
3 13 W	-3 36(!)	1	6.45	B9	12-12-12"		38-139 field down + both right / clouds getting thicker	weak weak slab spec	
							← OK		
0038 W	+24° 04'		3.69	B6III		G40"	MK Std 1/4 N	400/7	NO comp.
0040 W	"		3.69	B6III	30	G40'	MK Std 1/4 N	400/7	OK
? (W0.42)	+59° 05'		5.03	F0II	7	G10	MIL Std 1/2 N	400/20	OK
? (W0.45)	"		"	"	7	G10	MK 1/2 N	400/20	OK
0048 W	?		"	"	7	G10	MK 1/4 N	400/10	OK
? (W0.42) (calculated)	?		6.08	G5III	7	G10	MIL 1/2 N	400/20	OK
0038	53 50		5.40	B0II	7	G10	MK 1/2 N BINARY	400/15	OK
? (W0.42)	"		"	"	7	G10	MK 1/4 N	400/8	OK
? (W0.42) (cal)	?	3		B3V	7	G10	MK 1/4 N	400/8	OK
0001	?	3		B7III	7	G10	MK 1/4 N	400/8	OK
				B5III			MK 1/4 N	400/8	OK
					5/5	G10	focus 37	closed up	OK

Dome Temp.

Focus 37.5

Dome Temp.

Transparency Conditions Very thick haze

110

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
WO: 34.0	?	1	280	A3 III	7	G10	M14 1/2 N 400/15	OK
		1	"	"	"	"	M14 1/2 N 400/8	
							cloud - up at 0220	

III
 Date Sun/Mon, Dec 18th/66 Observer Db/Msa, Ri Julian Day 244.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Ang End
20311	MWC 391	23 02.6	+49 40		Ilford	13L	27°	17 54	17 54		
30211				640	Ilford						
30311	φ Cas	23 49.4	+56 56.1		Ilford	13XL	27°	18 09	18 25	A	
30212											
30212	HD 4180	00 39.2	+47 44	640	Ilford	13XL	26°	18 43	18 58	C	
30213											
30313	HD 6343	00 58.4	+65 26	640	Ilford	13XL	24°	19 15	19 40	B	
30213							20°				
30313 F											
					Closed up 20h				Clouds + snow nearby in dome		
30214	HD 21650	3 24.6									
30314	HD 21650	3 24.6									
30215		4:05.7	41 25	640	Ilford	13XL	20°	21 37	22 36		
30315	HD 20420	4:05.7	41 52	640	Ilford	17	20°	22 36	23 56		
30316	HD 29266	04 37.3	40 36	640	Ilford						
30216											
30316	HD 29287	04 34.5	+41° 57'	640	Ilford	13	17°F	0:06	01:24	A	
	RT AUR										
30217	HD 45412	06 22.1	+30° 30'	640	Ilford	13XL		01:36	02:01	B	
18	HD 42035	06 03.4	+8° 41'	640	Ilford	17		02:06	02 29	C	
19	HD 42657	06 06.8	-04° 38'	640	Ilford	17	15°F	02:34	02:57	A	W2:49
20	HD 43362	06 10.7	-9 00	640	Ilford	17		03:01	03:31	B	W2:49
22	HD 74393	08 38.7	+4° 42'	640	Ilford	17		04:17	04:35	A	W1:25
21	HD 43461	06 11.2	+01 07	640	Ilford	17		03:36	04:13	C	W3:31

VERY POOR SEEING 1.1'

112

Dome Temp.

Transparency Conditions

Focus

Dazy Sky!
Clear sky at 21^h.

Dome Temp. 22° (23^h)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		0 ⁼			10/	G40	HL Be Prop - (snow?) 800/50	
00 03W	57° 21'	0 ⁼	4.59	F81a	36/6	G40	West - special star [not 437 402 402 402?] [50 430 60 27 10 10] [50 430 60 27 10 10] [50 430 60 27 10 10]	400/38 very with comp.
00 14E	48 07	0 ⁼	4.7	B4-B	12/21	G40	HL Be	400/32 "
00 14W	65 18	0 ⁼	7.1	B5aB	12/24	G40	HL Be (incl. lower at 10.0) (some - sunset) 800/20	
					5/5	G10	Focus Test FOCUS 1.60	OK
00 23W	41 39	0	7.2	B5aB	12/2/12	G40	HL Be Prop. WRONG STAR WRITTEN IN BOOK! 800/50	
01 17W	42° 03'	0	7.6	B3aC	12/1/12	G40	HL Be Prop. (Field drawn) 800/50 focus set 35.0	
2" 17 W	42° 06'	0 ⁻	7.7	G2	12/12/12	G40	Std. Vel. some clouds 800/73	
" 06W	30° 34'	0 ⁻	~6	G0Ib	12/12/12	G40	Fe # FIELD 800/100	
1" 55W	+8° 43'	0 ⁻	6.43	B9	12/12/12	G40	38-739 800/50	
2:19	-4° 36'	0 ⁻	6.02	B9	12/12/12	G40	38-739 800/50	
2:49	-8° 58'	0 ⁻	6.01	B9	12/12/12	G40	38-739 800/50	
1:25	+4° 31'	0 ⁻	6.24	B8	12/12/12	G40	38-39 = (SB) clouds 800/50	
3:31	+1° 09'	0 ⁻	6.57	B8	12/12/12	G40	38-739 some clouds CHECK FIELD 800/50	

113

Date MON DEC/19-1966 Observer Mce. Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Ang End
30223	HD 68099	08 05.9	+10° 07	G40	IIa06	17	14°	04:40	04:54	B	2:17
30225	HD 89449	10 14.3	+19 59	G40	IIa06	13		05:21	05:24	A	2:38
30224	HD 96314	11 01.1	-26 45	G40	IIa06	17		05:00	05:15	C	2:16
30226	HD 107348	12 15.4	-21 39	G40	IIa06	17		05:31	05:41	B	2:05
30227	HD 111226	12 42.6	-24 18	G40	IIa06	17		05:46	06:20	C	2:03
30228	HD 93427	10 42.1	65° 40'	G40	IIa06	17		06:27	06:40	A	2:12
30229	HD 115612	13 13.2	+68 56	G40	IIa06	17		06:47	06:59	B	2:44
30229 F ₁	focus test	in is/aut aut		G40	IIa06	17	11° F			C	
30229 T ₁	calibration step wedge				IIa0						
T ₂	calibration step wedge				IIa06						
T ₃	calibration step wedge				IIa06						

Dome Temp.

Focus 14° 34.0

Dome Temp. 90°F

Transparency Conditions

very good (some scattered clouds)

114

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2:17	+9° 39'	0-	6.05	B9	12/12/12	G40	B8-B9 FOCUS SET 34.0 800/60	fine
10:38	+20° 03'	0-	5.3	F5	40	G40	Std. Vel 400/45	fine
10:16	-27° 02'	!	5.6	B8	12/2/12	G40	B8-B9 (SB) 800/60	not ok
11:05	-21° 59'	"	5.25	B8	12/12/12	G40	B8-B9 (main prog) 800/60	fine
10:53	-24° 37'	"	7.1	B9	12/12/12	G40	B8-B9 (SB) 800/60	fine
11:27	65° 21'	0-	6.22	B9	12/12/12	G40	B8-B9 (main prog) 800/60 ⁶⁵	fine
10:44	68° 35'	0-	6.09	B9	12/12/12	G40	B8-B9 " * 800/60	fine
					5/5	G10	DAWN	OK
							shutter sticky in closing	
							* sky visible on slit	
							for plate # 30211	
							30311	
							for plates 30212 - 30222	
							for plates 30223 - 30229	

115

June 9/78 (J. Hube): JD's as marked on plate covers for this night are in error. Correct by $-1^d.000$

Date Dec 21/22 Observer Sl / 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.
30230	HD 23950	3 ^h 44.0	+21 57'	640	IIa0b	17	23°	22 13	22 22	A
30231	HD 24769	3 51.2	+22 54	640	IIa0b	17		22 27	22 33	B
30232	HD 26571	4 07.0	22 09	640	IIa0b	"		22 36	22 43	C
30233	HD 25152	3 54.7	+36 44	6"	"	"		22 48	22 56	A
30234	HD 27026	4 11.2	41 54	"	"	"		22 59	23 06	D
30235	HD 29721	4 35.7	49 47	"	"	"		23 12	23 16	C
30236	HD 28459	4 29.2	32 14	"	"	"		23 23	23 31	A
30237	HD 30122	4 39.7	23 27	"	"	"		23 35	23 43	B
30238	HD 28475	4 24.2	10 18	"	"	"		23 49	00 00	C
30239	BD-0 1417	6 03.2	-06°12	"	"	17		00 15	02 15	A
30340	BD-6 1418	6 03.2	-06°21	"	"	"		02 17		B
30239T	calibration stars				IIa0b					

Dome Temp. 23°

Focus 36

Dome Temp.

longest night of year

Transparency Conditions

completely cloudy till 21 hr
clear except for SW 116

Shy Fine after 0000

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2 22	17W	+22 12	0	5.90	B9	12/12/12	640	46 B8 B9 (d+e) all 850/50	fine
2 33	22W	+23 07		5.96	B9	12/12/12	640	" " hand-	fine
2 43	16W	22 23		6.11	B8	12/12/12	640	" " guided	not ok
2 56	41W	36 57		6.31	B9	12/12/12	"	" " "	fine
3 06	34W	42 06		6.07	B8	12/12/12	"	" " "	fine
3 16	19W	49 57	1	5.8	B8	12/12/12	"	" " "	fine
3 31	45W	32 25		6.17	B9	12/12/12	"	" " "	not ok
3 43	44W	23 37		6.12	B8	12/12/12	"	" " "	not ok
0 00	16W	+10 30	1	5.5	B9	12/12/12	"	" " "	weak
2 15	53W	-06° 11'	1	10.1	B9	12/12/12	"	Re "DUST" NO 68 find dust! 800/45	weak
			1	9.7	(B)	12/		Re "DUST" NO 69 find dust! ** 800/45	

Clouding in at 0230 Thru telescope

Close up

for plates 30330 - 30339

** Red warning light does not turn on when plate mounted.

117

Date Dec 22/23 Observer Jn/Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30240	HD 44637	06 17.7	+15°09'	G40	IIa0b	13xL	17°	00 34 ⁵⁶	02 26	A
30241	^{R₁ Nov} HD 45412	06 22.1	+30°33'	G40	IIa0b	13xL	14°	02 38 ⁷	02 52	B
30242	HD 71833	08 24.4	-20°37'	G46	IIa0b	17		03 13 ²⁰	03 53	C
30243 42	HD 71393	08 38.7	+4°42'	G40	IIa0b	17		04 02 ⁹	04 20	A
30243 ^{43 F}	Focus test ^{min} / ^{ad} ^{id}			G40	IIa0b	17	10°			B
30244 ⁴²	HD 71906	08 24.8	+37°36'	G46	Ia0b	17		04 37 ⁶	4 49	C
30245 ⁴⁴	^{HD} 81797	09 22.7	-08°14'	G40	"	13		04 59 ⁵	05 09 ³	A
30246 ⁴⁵	HD 93427	10 42.9	+65°40'	G40	IIa0b	17		05 36 ⁵	05 45	B
30247 ⁴⁶	HD 115612	13 13.2	+68°56'	G40	IIa0b	17	10°	05 55 ⁶	06 07	C
30248 ⁴⁷	HD 136849	15 17.8	+33°17'	G40	IIa0b	17		06 29 ²	06 33	A
30249	HD 117276	17 42.6	-24°18'	G40	IIa0b	17				B
30247 T ₁	calibration slip wedge				IIa0b					
	Dec 23-24/66		Had Bn		opened lens clouds again					
30248 F	Focus test					17	+15°			A

Dome Temp. 17°
 Focus 35 / 34
 Dome Temp. 7°

Transparency Conditions *Excellent*
clouds 118

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
1 ^h 53	+15° 11'	0	7.7	B3e	2/12/12	G40	Hd - Be #139 COULDN'T FIND REF 139	800/60	
2 ^h 15	+30° 33'		6	G02b	12/12/12	G40	Fe *	400/150	
1 ^h 15	-20° 47'	0	6.4	B8	12/12/12	G40	B8 - B9 clouds FIELD DRAWN	400/30 BLACK	
1 ^h 25 ^m	+4° 30'		6.28	B8	12/12/12	G40	B8 - B9 clouds	800/54	
					5/5	G40	focus 340		
12 ^h 07 ^m	+37° 35'		6.04	B9	12/12/12	G40	B8 - B9	800/60	
1 ^h 30	-08° 33'		2.2	K5	3/6	G40	G40 Std Vel. clouds	900/10	
10 ^h 47	+65° 20'		6.22	B9	12/12/12	G40	B8 - B9 "	800/60	
1 ^h 21	+68° 35'		6.09	B9	12/12/12	G40	B8 - B9 SB	800/60	
2 ^h 59	+33° 05'		5.34	B9	12/12/12	G40	B8 - B9 SB	800/55	
			7.1	B9		G40	B8 - B9 clouds	800	
Plate Holder 302 - 30247							A severe lack of stars to above with $\alpha > 9^h$		
Plate Holder B - C loaded in N. P.							* fopped while still in plate holder		
Focus 34							nothing on plate, but handle damaged in P.O. to work.		

Dome Temp. 26.0°F

Focus

Dome Temp.

Transparency Conditions *some clouds at sunset* 1.25

scattered clouds ~ 22:00

" " " ~ 23:00

ending Time
E.S.T.

9:55

10:27

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
46	+0° 37'	0.1	10.4	150	12-12-	G40	Re Dust #40 ^{FIELD} CHECKS FOCUS 36.0 <u>clouds</u>	
							for plate # 30248	

121

Date 7-8 JAN/67 Set - Ser. Observer Jn Vn / Julian 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.
30249	HD45412	6 ^h 22. ^m 1	+30° 33'	640	Ilab	13	29°F	21 ^h 03 ^m 12	21 ^h 27 ^m	C
					IRON ARC REFUSES TO Clouds 2200					
					about 1/2 of the frost has sublimed from the mirror at 2215					
30249 T ₁	calibration slip wedge				Ilab					

123

Date 11-12 Jan 1967

Observer Jn /

Julian 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.
30250	^{H12} 224014	23 ^m 49 ^{sec} .4	+56°57'	G40	Haob	13x	22°	1755 ⁴	1802	A
30251	HD 9105	01 24.6	+62 51	"	"	13x	"	1829 ²⁰	1909	C
30252	HD 15472	02 24.4	+70°30'	"	"	13x	"	1919 ³⁴	2027	B
									Clouds	
									- Shutter stuck	
									NO SECOND	
30252 T ₁	calibration step wedge				"					

Dome Temp. 22°

Focus 36

Dome Temp.

Transparency Conditions

Excellent (Cloudless in West
Sunset)

129

Exposure meter not working

ding Time
E.S.T.

02

09

27

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
$1^{\text{h}}15^{\text{m}} \text{ W}$	$+57^{\circ}22'$	1	4.59	F8	12/24	640	WT *	good comp. wk sl. wk.
0 46 W	63 14	0.1	7.5	BSc	12-12-10	"	Be prog Hd	wk.
$1^{\text{h}}01 \text{ W}$	70 51	1	8.0	BNe	12-12-10	"	"	sl. wk. wk.
had to be closed by hand.								
- HALF OBSERVING.								
for plates 30250 - 30252								

Dome Temp. 17°

Focus 36

Dome Temp. 13°

Transparency Conditions Clearing after Midnight

12/6

0440 CLOUDS.

ding Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
001W	+36°15'	00	9.0	M2V	12-12-12	G40	MK standards clouds 800/50	weak comp weak
0030E	-24°36'		7.1	B7	12/12/12		B8-B9 clouded out 400/19	weak comp weak
					5/5	G10		OK
for plates 30253 - 30254								

127

Date *Tues Jan 17-18, 1967*Observer *Ri*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30254 F ₂	<i>Focus</i>			<i>G40</i>	<i>Ilford</i>	<i>13</i>	<i>22</i>			<i>A</i>
30255	<i>HD 27407</i>	<i>1 27.4</i>	<i>68 26</i>	<i>"</i>	<i>"</i>	<i>17</i>		<i>19 08</i>	<i>19 38</i> ¹⁵	<i>A</i>
30256	<i>HD 23982</i>	<i>03 54.3</i>	<i>63 11</i>	<i>"</i>	<i>"</i>	<i>"</i>		<i>20:01</i>	<i>20 55</i> ²⁷	<i>B</i>
30256 F	<i>Focus</i>			<i>G40</i>	<i>"</i>	<i>17</i>	<i>15</i>	<i>24</i>		<i>C</i>
30257	<i>HD 26420</i>	<i>04 05.9</i>	<i>+41.52</i>	<i>"</i>	<i>"</i>	<i>17</i>		<i>21.24</i>	<i>22.31</i> ³⁴	<i>A</i>
30257 T	<i>calibration step wedge</i>				<i>"</i>					

Dome Temp. 18

Focus 36 38

Dome Temp.

Transparency Conditions

Too hazy at first. 128

But later we discovered that a previous observer had left focus unclamped

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
					5-5	G10	C to red, so reset focus to 38 _n	OK
38-1	35w 68	54	0	7.44	G5V	4/12/12 G40	GM prism	800/80 OK
2	34w 63	26	0	8.1	B3e	12/12/12 G40	Be Hd #76	800/50 fine
		26	0	8.1	B3e	12/12/12 G40	Be Hd #76	800/50 fine
		36				G10	+ clamped 3/5	OK
3-1	51w 42	05		7.6	B3e	12/12/12 G40	Be Hd #82	800/95 fine
							Sudden storm cloud	
							for plates 30255 - 30257	

129

Date Wed Jan 18/19, 1967 Observer L-Db / R. Hr Julian Day (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.
30258	-6°1418	06°03.2	-6°21	G40	IIa06	17	+10	19 44 ⁹¹	22 46	C
30259	BD+9° 1269	06 25.8	+09 51	"	"	"		2300 ⁴⁸	00 36	A
30259F	Focus			G40	"	17	+4			B
30259T	calibration step wedge				"					

Dome Temp. $11^{\circ} \rightarrow 8^{\circ} \rightarrow 6^{\circ}$

Transparency Conditions \checkmark good

130

Focus

Haze and clouds at 00:30

Dome Temp. 6°

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
46	G 13W	-06 20	1	9.7	B8	10/10/10	G40	Haze and light clouds at end. Re Dust Program #69 - detects (MCI started but) Field (EM. failure)	OK
36	T 40W	+09 51	1	8.9	B3	10/10/10	G40	" " " #78 Haze and clouds at 34	OK
						5/5	G10	closed up at 01:00	
	for plates			30258, 30259					

131

Date *Jun 19*Observer *Curtis / M 30* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30260	1 Per	01^h 41^m 5^s	55[°] 1'	G40	Ilford	17	12°	18:45	18:49	C
30260	<i>p Cas</i>	23 49.4	+56 57	G40	Ilford	13XL	12°	19:05 ¹⁰	19 25	A
<i>from test</i>	<i>Red / 6117</i>			"	"	13				B
30261	HD 67725	8:09.2	-1° 03'	G40	Ilford	17XL		00:51 ⁹	01:08	A
30262	HD 74393	8:38.7	+4° 42'	G40	Ilford	17XL	14°	01:12 ⁹	01:30	B
30263	HD 71906	8:24.8	+37° 36'	G40	Ilford	17XL				C
30267	calibration tip wedge for plates				Ilford	30260	30262			

Dome Temp.

Transparency Conditions v poor - thick haze

132

Focus 34/

Dome Temp. 16

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0 ^h 45 ^m W	50° 31'	1				540	(field flattened not in pr =)	
03 09 W	57° 20'	1-2	4.6	FSI _{sp}	24-12	640	WT	sl. GUIDING OK WEAK OK-CENTRE
	Focus 34	Temp 16			5/5	610		
							after focus test, slit length was left in out position: took ~20 min to	
							Thick cloud from ... at 19:20	
							<u>Hazy</u>	
00:38	-11° 11'	1+	6.23	B9	12-12-12	640	same focus 500/60	OK SL-WTK
00:25	+4° 29'	1-0	6.28	B8	12-12-12	640	RA FAST MOTION STOPPED WORKING 500/55	OK SL-WTK
							HEAVY CLOUDS COMING FROM SW	
							6:04 B9 6:40 B8-B9 500/	
							<u>SNOW</u>	
							FRANK: RA FAST MOTION DOES NOT WORK same behavior -H2	

PH C loaded
133: in 1st film

Date Jan 21 (2nd half) Observer Re Wd MCE Julian Day
Fu-Sat

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 An End
30263	Kor				Ka06	17	25°	0:37	0:39	C	2:35
30264	Kor							0:41	0:43	B	2:37
30265	B Eri	05 09.7	28					0:48	0:51	A	3:22
30266	B Eri							0:52	0:53	B	3:19
30267	L Ori	05 30.5	-05 59					0:55	0:57	C	3:17
30268	L Ori	"	"					0:58	0:59	A	3:17
30269	S Ori	05 26.9	-00 22					1:02	1:03	B	3:15
30270	S Ori	"	"					1:04	1:05	C	3:14
30271	E Ori	05 31.1	-01 16					1:07	1:07	A	3:13
30272	E Ori	"	"					1:08	1:09	B	3:13
30273	η Ori A	05 35.7	-02 00					1:10	1:01	C	3:12
30274	η Ori A	"	"					1:12	1:13	A	3:11
30275	α Ori	05 49.8	+07 23					1:15	1:17	B	3:11
30276	α Ori							1:18	1:19	A	3:07
30277	χ ² Ori	05 58.0	+20 08					1:26	1:31	C	3:11
30278	χ ³ Ori	"	"		✓			1:31	1:34	A	3:11

Dome Temp.

Transparency Conditions *Hazy*

134

Focus

Dome Temp.

frost on mirror

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
27	2 35 W	-09 38	0	1.90	B05 Ia	7	G10	Focus 36 1/2 x 1/4	19/400 OK
43	2 38 W	"				7		1/4 x 1/2	8/400 OK
51	3 ^h 23 W	-05 04		2.80	A3 III	7		1/2 x	13/400 OK
53	3 ^h 29 W	"				7		1/4 x	7/400 OK
57	3 06 W	-05 53		2.77	09 III	7		1/2 x	12/400 fine
59	3 07 W	"				7		1/4 x	5/400 fine
1 03	3 15 W	-00 17		2.5	09.5 II	7		1/2 x	12/400 fine
1 05	3 16 W	"				7		1/4 x	6/400 fine
1 07	3 15 W	-01 13		1.75	B0 Ia	7		1/2 x	13/400 fine
1 09	3 16 W	"				7		1/4 x	7/400 fine
1 01	3 14 W	-01 55			09.5 Ib	7		1/2 x	12/400 fine
1 02	3 15 W	"				7		1/4 x	6/400 fine
1 07	3 05 W	+07 33				7		1/2 x	30/400 fine
1 09	3 07 W	"				7		1/4	15/400 fine
1 31	3 11 W	+29 11				7		1/2 x	13/400 fine
1 34	3 15 W	"				7		1/4 x	7/400 fine

comparison
are
all
strong

PLATE 56
FOUNDED

135

Date 20/21 Jan cont. Observer Re Wd Jn
and Julian 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.
30279	δ CMa	06 59.2	-15 29		Ilad6			1 38	1 44	B
30280	δ CMa	"	"		Ilad0			1 45	1 48	C
30281	δ Gem	06 31.9	+16 29					1 50	1 51	A
30282	δ Gem	"	"					1 52	1 53	B
30283	X Aur	05 26.2	+32 07					1 56	1 59	C
30284	RT Aur	06 23.1	+30 33	G4	Ilad0	13XL		2 09	3.35	A
	HR 167348	12 15.4	-21 39							
30285	HD 107328	12 15.3	+03 53	G4	Ilad2	13		4.07	4.44	B
	HD 114762	13 07.5	+18 02							
30286	HD 103095	11 47.2	+38 26					5.04	6.14	C
								Cloud at 6.30		

Dome Temp.

Transparency Conditions

Hazy

136

Focus

Dome Temp.

still frost on mirror

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2:17 W								
2 23	-15 33	0	4.10	B8 II	7		1/2 X 13/400	fine
2 23	"			"	7		1/4 X 7/400	fine
2 58 W	+24 30		1.93	A0 IV	7		1/2 X 13/400	fine
2 58 W	00 W			"	7		1/4 X 7/400	fine
4 11 W	+32 13		4.8	B5 Ia b	7		1/4 X 7/400	fine
4 51 W	+30 33		5.5-6.5	G0 Ib	15-6-15	G40	Fe Cepheid 80/800	sc. wt.
							Could not identify star.	
0 09 W	+37 35	0	6.1	K2	12-12-12	G40	Std Vel 100/800	fine
1:06 W							Could not find star.	
1:06 W	+37 59	0-1	7.3	G5	12-12-12	G40	fixed drawn. Std Vel 80/800	sc. wt.
							cloud forming at 6:10	
							still a lot of frost on the mirror.	
							Plateholder A loaded in N.P.	

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Date 21-22 Jan

Observer $\frac{Vr}{Jn}$

Julian 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.
30287	AD 224014	23 ^h 49 ^m .4	56°57'	G40	Π 00ub	13XL	32°	19 ^h 15 ^m 28	20 10	B
30288	HD 23950	3 ^h 44 ^m 0	+21°57'	"	"	13	-	20 19 ^m 34	21 27	C
30289	HD 32670	5 ^h 42 ^m 4	+20°50'	"	Π 00b	13	-	21 41 ^m 10	22 00	A
30289F	Focus Test in in / out out				Π 00b	13	33	Focus	38	C
30289 T ₁	calibration step wedge				Π 00b					
30289 T ₂	calibration step wedge				Π 00b					
30289 T ₃	calibration step wedge				Π 00					
30289 F ₂	24 Jan 67 - nice focus test in in / out out			G40	Π 00		36°F			

Dome Temp. 36°

Focus 38 ←

Dome Temp.

W 45 SET
 AT 28.0, NOT
 38.0 - nice

Transparency Conditions

Good / cloudy at sunset
 FROST ON MIRROR ON
 OPENING UP

138

NOTE UNBAKED PLATES

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
4 ⁿ 02 ^m W	57° 21 ^m	1	4.59	12ap	15/15/15	G40	WT *	800/120 * FOCUS?
1 ⁿ 24 ^m W	22° 11 ^m	1	5.90	B9	15/15/15	"	B8-B9 (done)	* POOR FOCUS
0 ⁿ 00 ^m	20° 54 ^m	1	5.92	B9	15/30	"	B8-B9 (done) Cloudy	* BELOW POOR FOCUS
					8/8	G10	Exposed plates in box #3	POOR FOCUS
							FROST STILL ON MIRROR. (a pencil sharpener for the dome please)	1320LY C STORED
for plates #	30263 - 30276						developed together	
for plates #	30277 - 30279							
for plates #	30280 - 30289							* slightly fogged while in spectrograph
					8/8	G10	FOCUS 38.0	SEE IN BOX

USE 15-15-15 G40 COMP.

139

Date Jan 20/39

Observer

md
R,
H.F.

Julian 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.
480-1	HR 8781							18 34		
480-52	HR 5270								03 49	
30290	HD 114762	13 07.5	+18°02	G40	#006	13	10	04 48 ³⁰	05 48	A
30290 F	Focus TEST						10°			B
30290 T1	calibration steps under				#006					

141

Date

20 30 20 31

Observer

SK/
W

Julian Day

Plate No.	Object	R.A. 1900 1970	Declination 1900 1970	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
481-1	α Per	3 ^h 22.2	+41° 2'		C4/2	28"		19 ^h 05		
- 2	γ Gem S.H. 1	6 ^h 36.0	+15° 26'		D9/2	22"		20 ^h 55		
- 3	ϕ Per	01 41.5	+50 31		C5/2	28"		20 ^h 45 ^m		
- 4	ν Per	3 ^h 42.9	+42 28		C5/2	28"		21 ^h 05		
- 5	μ Per	4 ^h 12.5	+42° 19'	4.3	C6/2	28"		21 ^h 39		
- 7	S Per	4 ^h 12.6	+40° 24'	4.3	D4/2	22"		22 ^h 26 ^m		
- 8	F Aur	4 ^h 57.2	+43° 42'	3.5	C5/2	28"		22 ^h 54 ^m		
- 6	β Cam	5 ^h 00.8	+60° 24'		C6/2	28"		21 ^h 55 ^m		
- 9	E Aur	5 00.2	+41° 2'		C5/2	28"		23 ^h 03		
- 13	L Aur	4 55.0	+33 7	2.6	C5/2	28"		19 ^h 00		
- 10	α Ori	5 55.5	+7° 24'	0.5	D6/2			23 ^h 24 ^m		
	S Ori	7 7.2	+16 21	1.8						
- 11	E Pup	7 48.0	+14 48	3.3				23 ^h 54		
	S Pup	8 5.3	+24 13	2.0						
- 12	T Mon	6 22.4	+7° 6'		C6/2			0 ^h 32 ^m		

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Date Jan 30/31 cont'd 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.
421-14	μ Gem	6 ^h 21 ^m 1	+22° 32'		C6/2	28"		1 ^h 37 ^m		
-15	25 Gem	6 39.3	+22 13		D6/2	28"		2 ^h 14		
-16	ϵ Gem	6 42.1	-25 10		D4/2	28"		2 ^h 45		
-17	ξ Gem	7 22	+20 37	37	D5/2	28"		3 ^h 23		
-18	ϵ Leo	9 44.1	+23° 57'	30	D3/2	28"		3 ^h 57		
-19	R CVB	15 ^h 47 ^m 2	+28° 35'	52	E5/2	28"		4 ^h 40		
-20	γ UMa	11 00.0	-58 33	00	C4/1	28"		5 ^h 32		
-21	δ UMa	11 58.2	-53 52	00	C4/1	28"		6 ^h 48		
-22	δ UMa	12 13.9	-57 12	00	C5/2	28"		6 ^h 57		
								11:02		

Dome Temp.

Transparency Conditions

144

Focus

Dome Temp.

ding Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
3 ^h 18 ^m W							Moon	
4 ^h 5 ^m W							- Sky	
4 ^h 28 ^m W							Cirrus with Sky	
4 ^h 36 ^m W							Sky	
2 ^h 56 ^m W							Sky much more than 2 ^h ago	
2 ^h 35 ^m E								
3 ^h 05 ^m E								
3 ^h 52 ^m E								
2 ^h 48 ^m W							6 ^h 20 ^m Faintly Obs	

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SK (not hall)

Date Feb 2/3, Thursday, 1967 Observer C. R. P. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
70290E2	Drumst	2	168.28	C40	220	13	24			A
452-1	ϕ Cas	01 13.1	+22 32	1	D5/2	28"		19 ^h 11 ^m		
-2	δ Cas	2 48.0	+68 45		D6/2	28"		19 41		
-3	η Per	2 48.0	+55 45		D4/2	28"		20 16		
-4	17 971	2 53.2	+60 15		E5/3	28"		20 44		
-5	18 391	2 57.2	+57 32		E5/3	28"		21 12		
-6	β Cam	5 0.3	+62 24		C6/2	28"		21 52		
-7	α Lep	5 31.2	-17 57		C5/2	28"		22 11		
-8	T Mon	6 23.3	+7 7		D6/2	28"		22 28		
-9	θ CMa	6 58.7	24 9					22		
-9	δ CMa	7 7.0	-26 10		C5/2	28"		23 13		
10/11	112326	7 16.1	-15 54		E5/3	28"		23 28		
12	μ Per	4 12.4	+48 19		C6/2	28"		23 56		

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(1st and half)
S-K

Date 3 Feb / 67

Observer Muse, Fa

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
482-13	58 Per	4 ^h 54.3	-41° 12'						
-14	ε Aur	5 0.1	+41 2		C6/2	28"		0 ^h 15	
-15	25 Gem	6 39.1	+22 14		D6/2	28"		1 ^h 15	
-16	ε Mon	8 6.9	-2 52		C6/2	28"		1 ^h 57	
-14	ε Aur	4 59.5	-43 47		C5/2	22"		0 ^h 42 ^h	
-17	ε Gem	6 41.8	+25 11		C6/2	28"		2 ^h 24 ^h	
-18	ε Gem	7 2.1	+26 28		C6/2	28"		2 ^h 46 ^h	
-19	ω Gem	7 0.1	+24 16		D5/2	28"		3 ^h 10 ^h	
-20 ^A	ι Gem	8 44.6	+28 54	{B A	D5/2	28"		3 ^h 35 ^h	
-21	77912	9 4.3	+38 36		C6/2	28"		3 ^h 54 ^h	
-22	56 UMa	11 21.0	+43 41		D5/2	28"		4 ^h 17	
-24	RCB	15 47.2	+28. 16		E5/3	28"		4 ^h 43	
-23	α CrB	15 33.1	-26 50		C6/2	28"		5 ^h 48	
								5 ^h 9 ^h	
								4:56	4:05

Dome Temp. $12^{\circ} F$ Transparency Conditions EXCL.

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Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
4 ^h 0 ^m W								
2 ^h 27 ^m W								
4 ^h 24 ^m W								
4 ^h 19 ^m W								
4 ^h 27 ^m W								
2 ^h 53 ^m W								
2 ^h 18 ^m W								
2 ^h 5 ^m W								
3 ^h 53 ^m W								
2 ^h 2 ^m W								
1 ^h 14 ^m W								
1 ^h 23 ^m E							Clouds over, Moon at low quitsoon at low FIN. 6 ³⁰	

(40)

Dome Temp. $17^{\circ}F$

Transparency Conditions *very, very good*

150

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
5 ^h 50 ^m W							cloudy condensations, ^{but} not in Cas	
0 ^h 48 ^m W							" partially <u>spreading</u> over	
2 ^h 39 ^m W						sky	general haze, no dots	
2 ^h 56 ^m W						sky	hazy + bright sky	
3 ^h 18 ^m W						"	hazy + clouds ^{at} horizontal horizon up to 45° elevation	
7 ^h 09 ^m W						8A	clouding in slightly	
							20 ²⁵ FN 8A	

153

Date

6/7
Feb 5/6
Mon Tues

Observer

S-K
He Pa

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
485-1	γ Gem	6 ^h 35 ^m 7	+16° 26'		B5/2	22"		18 ^h 41		
-2	5 Leo	22 28.1	+47 31		D5/2	28"		19 15		
-3	ψ And	23 44.0	+46 14		D5/2	28"		19 41		
-4	617 ⁺	1 4.9	+63 36		E5/2	22"		20 00		
-5	17 378	2 47.1	-56 57		D6/2	28"		20 31		
-6	52 Per	4 12.9	+48 24		C6/2	28"		20 51		
-7	58 Per	4 34.3	+41 12		C6/2	28"		21 05		
-8	ϵ Aur	5 0.1	+41 2		D6/2	28"		21 24	22 30	
-9	38297	5 42.1	+18 42					22 20		
30291	4E Aur	05 09.7	+34° 12'	G40	Duob	17"	-4°F	23 30	23 42	A
30292	HD 37493	05 16.3	+04° 23'	G40	Duob	17"	-4°F	23:50	0005	
30293	HD 37450	05 33.9	+04° 04'	-	-	-	-	00 10	0025	A
	15 Mon 46303	06 27.5	+07° 24'							
30293 F1	515 G10 F.I.F.C.F.									
30293 T1	calibration strip middle				Duob					

G40: 2:14

F.I.C.F.: 3:19

Dome Temp. $0^{\circ}F \downarrow$

Focus 31/20-50F

Dome Temp.

DA clamp down
will work
on very poorly.

Transparency Conditions *Very good*

154

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
4 47 E							seeing fair	
4 50 W								
4 00 W								
3 18 W							clouds appearing in SW	
1 33 W								
1 17 W							} not photometric	
3 17 m W	+39° 21'	1	5.8V	09.5V	15/15/15	G40	Re dust NO 34 pan shg 800/50	OK
3 33 W	+08° 26'	0	5.8V	B1E	15/15/15	G40	Re dust NO 39 " 100/50	OK
3 38 W	+04° 08'	0-	4.5	B3IIIe	15/15/	-	Re dust NO 49 thick cover 500/34	OK
			4.5	A0Ib			CLOUDY	fine
					1/5 G10		Close up	
for plates					30290 F2		- 30293 F1	

155

Date Feb 7 8
Tues Wed

Observer SK Bu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
486-1	ϵ^2 Cet	2 ^h 26.3	+2° 12'		C4/2	28"		6 39		
-2	5 Lac	22 28.1	+97 21		C5/2	28"		19 18		
-3	ψ And	21 44.3	+46 14		C5/2	22"		19 31		
-4	10 Arg	1 41.8	+61 41		D5/3	28"		19 49		
-5	SU Cas	2 48.8	+68 45		C6/2	28"		20 25		
-6	17 Arg	2 53.2	+60 15		D5/3	22"		20 48		
-7	18 Arg	2 57.1	+57 2		D5/3	22"		21 12		
-8	α Lep	5 31.2	-17 51		B5/2	28"		21 40		
-9	θ^1 CMa	6 52.7	-24 9		C5/2	22"		22 06		
-10	δ CMa	7 57.0	-26 20		B5/2	22"		22 32		
-11	39267	7 26.3	-11 00		C6/2	28"		22 49		
-12	UR 3026	7 46.1	-15 54		D5/3	28"		23 33		
-13	31 Mon	8 42.0	-7 6		C5/3	28"		00 00		
-14	52 Per	4 34.3	+41 12		C5/3	28"		0 22		
-15	E Aur	4 59.5	+43 47		B5/2	22"		0 58		
-16	E Aur	5 0.1	+41 2		C5/2	22"		1 11		

157

Date Feb 8 - Wed

Observer

SK / mcl
Mise, Ea

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
486 -	L Aur	4 ^h 54 ^m 2 ^s	+33° 07'							
-16	T Mon	6 23 3	+7 7							
-17	G Gem	7 0.1	+24 16		C512	28		1 ^h 43 ^m		
-18	25 Gem	6 39.1	-28 14		C612	28		2 06		
-19	g Gem	7 2.1	+20 38		B612	28		2 24	02:35	
486 - 20								3 00		
486 - 31									4 35	
#30294	H2131861	14 50.9	+45° 43'	G40	Iaob	13	0° E	05:45 ²⁷	6:35 A	
#30244	calibration step wedge				Iaob			0:54		
								2 CH: 1:25		
								photoph: 7:56		

Dome Temp. 4°F

Transparency Conditions EXCL.

158

Focus 31

Dome Temp. 0°F

Starting Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
3:40 ^u								
4:25								
4:20							#WJSH	
							DESK LIGHT IS BROKEN ARE DOMELIGHT + DEC CIRCLE LIGHT SWITCH → FAULTY	
							DOMELIGHT SWITCHES ARE FAULTY AT 2000	
							up from at 31	
38 45° 27'		0-1	7.64	F3	1845-15940	HD-5B	500/85	OK
							<u>DAWN</u> hazy towards dawn	
							for plate # 30294	

Electronics troubles!

Dome Temp. 28

Focus 3.6

Dome Temp. 25°F

MIRROR BADLY

FROSTED AGAIN! GERRY PLEASE FIX HEATER.

Transparency Conditions

Cloud in early evening

Unacceptable haze

160

Starting Time
EST.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
28	30	40W	107 24	1	6.25	B8	15-15-15 G40	B8-B9	500/80	OK
27	10	43W	144 21	1	5.58	B2/B1E	15-15-15 G40	B2-B3e Brightest of class	500/60	SL. WK
27	01	41	107 22	1	6.3	B9	15-15-15 G40	B8-B9 (cirrus)	500 ¹⁵⁰ / ₂₀₀	FINE
27	03	12	27 40	1	6.14	B9	15-15-15 G40	B8-B9 ^{3rd ORDER COMPONENT} ON SLIT. BINARY	500/ 50 ⁵⁰	FINE
18	04	10	09 58	1	6.05	B9	15-15-15 G40	B8-B9 (clouds)	500/55	WK
23	04	35	37 25	0-1	6.04	B9	15-15 G40	B8-B9	500/22	WK

clouds

still a tremendous amount
of frost on mirror on
closing up! (note exposure
times)

161

Date Sol/Lun 11/12 Feb '67 Observer Mel ^{PA} / ^{Jn} Db / Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
487-1									18 45	
487-37									00 10	
30301	HD 91948	10 31.9	60° 38'	G40	IIa0b	17	4	00 48 ³¹	01 50	B
30300	HD 131861	14 50.9	45° 43'	G40	IIa0b	17	2	04:00 ⁷³	06:25	C
								4:40		
								3:28		

Dome Temp. 4°Focus 3.2Dome Temp. -12Transparency Conditions Very Goodcloud at 02:00

162

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
8 45		0							
9 10		0							
9 50	23.0	60° 19	0	7.37	F8	5/5/15	G40	HD - Sp Bin 800/80 clouds closed up (showing it also) reopened at 11:45	SL. WK
10 25	40.0	45° 27	0	7.64	F3	5/15/	G40	long exposure, funder + old Coordinates + clock checked !! HD - Sp. Bin 800/80	SL. WK

1) DOME NOT OBTAINED
 2) SHUTTERS 2 1/2" OPEN

163

Date 12-13 Feb/67

Observer *me/Ri*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
488-1									18 42	
488-9									20 04	
									(1:22)	
30302 F1	focus test in/in/out and			G40	IIaD	17	20°F			A
30303	HD 28459	4 24.2	+32 14	G40	IIaD	17XL		20:43	20:58	A
30304	HD 24769	3 51.2	+22° 54	G40	IIaD	17XL		21:02	21:15	B
30305	HD 25152	3 54.7	+32° 44	G40	IIaD	17XL		21:19	21:39	C
30306	HD 26511	4 07.0	+22° 09	G40	IIaD	17XL		21:43	21:55	A
30307	HD 27026	4 11.2	+41° 54	G40	IIaD	17XL		21:59	22:12	B
30308	HD 28475	4 24.2	+10° 18	G40	IIaD	17XL		22:16	22:40	C
30309	HD 29721	4 35.7	+49° 47	G40	IIaD	17XL		22:47	22:58	A
30310	HD 30122	4 39.7	+23° 27	G40	IIaD	17XL	-2°F	23:02	23:26	B
									(2:16)	
30310 T1	calibration slip wedge				IIaD					

Dome Temp. $4^{\circ}F$

Transparency Conditions *EXCEL.*

Focus

hazy around 20.00

164

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
			1						
			1						
								<i>0-10, 4 min $6^{\circ}F$</i>	
								<i>focus 31.5</i>	
								<i>5/5 G40</i>	
01:41	32° 25'	0-	6.17	B39	15-15-15	G40	B8-B9	<i>800/70</i>	FINE
02:32	23° 05'	0-	5.96	B39	15-15-15	G40	B8-B9	<i>800/70</i>	FINE
02:53	36° 56'	0-	6.31	B39	15-15-15	G40	B8-B9	<i>800/70</i>	FINE
02:57	22° 24'	1	6.11	B8	15-15-15	G40	B8-B9	<i>800/70</i>	FINE
03:08	42° 06'	1	6.07	B8	15-15-15	G40	B8-B9	<i>800/70</i>	FINE
03:24	10° 30'	0-	6.5	B39	15-15-15	G40	B8-B9	<i>800/70(?)</i>	WK
03:29	49° 57'	0	5.8	B8	15-15-15	G40	B8-B9	<i>800/70(?)</i>	SL WK.
03:55	23° 36'	0	6.12	B8	15-30	G40	B8-B9	<i>800/42</i>	WK
								<i>TELESCOPE IN BALANCE</i>	
								<i>recalibrated</i>	
								<i>thicker</i>	
								<i>clouds</i>	
								<i>for plates 30295-30310</i>	
								<i>ALL 3 PHS LOADED</i>	

167

Date 16th Feb 1966 Observer Mel R. 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.J.
30310	HD 31764	4^h 53^m 47^s	+14 24	G40	IIaob	17	14°	19 ^h 06 ^m ¹⁴	19 34	A
489-1									19 55	
489-10									21 26	
								(G40: 0.28)		
								(2CH: 1.3)		
30311 T1	calibration step wedge				IIaob					
30311 F1	21 Feb 1967 / mse form test: in input out			G40	IIaO	13	18° F			A

169

Date

Feb 21/22, 1966

Observer

Hd /
Db

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30312	HR 2167	6 ^h 03.4	+8° 41'	300	IIc06	17	18°	20 ^h 42	22 52	A
30313	HR 2237	6 ^h 07	-9° 00'	---	---	17	18°	21 04	21 52	B
30314	HR 2270	6 14.4	-8° 32'	---	---	17XL	18°	21 ^h 21	21 37	C
30315	HR 2295	6 18.4	-4° 39'	---	---	17XL	18°	21 ^h 45	22 14	D
30316	HR 2676	7 15	+5° 04'	---	---	17XL	16°	22 ^h 21	22 35	E
30316 T1	calibration slip end of				IIc06					
30316 T2	"	"	"		"					

Dome Temp. 22°

Transparency Conditions Variably cloudy at sunset 170

Focus

Dome Temp.

Primary mirror badly frosted, cleaned it in
 about 1/2 hr with long pan from RG 7.5 @ 170

Hazy later → Clear

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
W 33 ^m	08 ^h 42	1	6.43	B9	15/15/15	G40	B8-B9 Programme	800/50 * SL. OK
W 49 ^m	-9° 02	0 ⁺ -1	6.01	B9	15/15/15	-	[check field for HR 2246] 2 stars near nebula	800/50 SL. WK
W 1 07	-8° 30	1	6.05	B9	15/15/15	"	-	800/70 FINE
W 1 40	-4° 38	1	6.40	B9	12/12/12	G40	B8-B9	800/70 FINE
W 1 18	+5° 00	1	5.90	B9	12/24	"	Clouds.	800/70 FINE
for plate nos.			30312	-	30316		(steps 7-12 only, on 1 side) (BADLY)	
"	"	"	"	"	"	"	* FOGGED WHILE IN SPECTROGRAPH	

171

Date *Thurs Feb 23-4 197* Observer *Re / Vv / msa* Julian Day 6:32

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30317	HO 25243	03 37.6	-03 25	G40	IIaob	17	21	18:40	19:52	C
30318	31722	04 50.3	+11 54	"	"	"	"	18:56	19:07	A
30319	31764	04 53.4	+11 24	"	"	"	"	19 13	19 31	B
30320	31773	04 56.8	+11 28	"	"	"	"	19 36	19 53	C
30321	1 Ori	03 59.7	-03 19	"	"	17	21	19 58	19 59	B
30322	"	"	"	"	"	"	"	20 03	20 04	"
30323	23408	03 39.9	+29°03'	G40	"	"	"	20 17	20 14	B
30324	HO 30041	305.2	56 45	G40	"	"	"	20 20	20 28	C
30325	37 776	05 35.9	-01°32'	"	"	"	"	20 34	20 54	B
30326	32905	5 16.7	-02 18	"	"	"	"	20 59	21 40	A
30326F1	Forn Trail		5/5		G10 filter					
30327	HD 107348	12 15.4	-21 39	G40	IIaob	17XL	13°F	1:13	1:26	A
30328	HD 115012	13 13.2	68° 56'	G40	IIaob	17XL	"	1:36	1:51	B
30329	HD 103095	11 47.2	38° 26'	G40	IIaob	13 ^{XL}	13°F	1:59	2:57	C
30330	HD 131861	14 50.9	45° 43'	G40	IIaob	13	11°F	5:06	5:06	A

Dome Temp. 20

Transparency Conditions 1 cloud in S

172

Focus 36/

Dome Temp. 16°F

Full ☾

ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
00 13W	-03 14	0	5.19	B7	15/15/15	G40	B7/B9	500/50	FINE
00 08W	+10 02	0	5.19	B8	15/15/15	G40	B8/B9	500/50	FINE
00 32W	+14 34	0	5.23	B8	15/15/15	G40	B8/B9	500/50	FINE
00 50W	-01 35	0	5.15	B8	15/15/15	G40	B7/B9	500/50	FINE
00 43W		0	0.34	B7a	45	G40	MR Shd (+Re Dust) 1/2 N N	400/125	OK
00 44					45	G40	"	400/12	OK
00 36W	+12 18	0	3.0	B7II	45	G40	Re dust # 21	400/15	OK
00 10	+13 02	0	6.0	A0Ia	45	"	Re Dust no 10	500/25	OK
01 11W	-01 49	0	7.0	B2II	15/15/15	G40	Re Dust no 51	500/50	OK
01 56W	-02 14		7.8	B15II	15/15/15	G40	Re Dust no 52	500/35	WEAK FINE
			2.40				Clouds all over! // focus 35.0		
01 57	-21 57	0	5.25	B8	15/15/15	G40	B8-B9	500/70	OK
01 29	08 34	0	6.09	B9	15/15/15	G40	B8-B9	500/70	OK
01 02	38 00	0-1	7.3	G5	15/15/15	G40	Std Vel. focus 34.0	500/100	OK
01 09	45 20	0	7.64	F3	15/15/15	G40	Hol- 5B	500/75	OK

175

Date 25 Feb Sat Observer L/R
Vr/Fw Julian Day 3:30

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30333	HD 56446	7 ^h 11.9 ^m	+6° 51'	G40	IIAob	17	+8 ^F	21 ^m 22 ^s	21 49	A
30334	" 65241	7 ^h 52.7 ^m	+7° 29'	G40	IIAob	17	-	22 ^m 03 ^s	23 23	B
30335	" 74393	8 ^h 38.7 ^m	+4° 42'	G40	IIAob	17	-	22 45	23 07	C
30336	" 83650	09 34.9	+10 07	G4	IIAob	17	-	23 14	23 42	A
30337	π Leo	09 54.9	+08 31	G40	IIAob	17	-	23 51	00 04	B
30338	HD 91948	10 31.9	+6038	"	"	"	-	00 20	00 45	C
30339	103095	11. 47.2	+38 26	"	"	"	-	01:01	01:29	A
30340	115612	13 13.2	+48 56	"	IIAob	"	-	01:47	02:07	B
30341	121302	14 34.6	+39 36	"	"	"	-	02:16	02:47	C
30341F	Focus Test				IIAob	17	8 ^F	17:00	17:00	A

Dome Temp. 120 F

Focus 34

Dome Temp. 10 F

Transparency Conditions

176

clouds at 02:30
windyending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0 37W	6° 46'	0-	6.42	B9	15/15/15	G40	B8B9 400/50	OK
0 37E	7° 20'	0-	6.3	B9	15/15/15	G40	B8B9 400/50	OK
0 28W	7° 29'	0	6.29	B9	15/15/15	G40	B8B9 Rainy 400/50	OK
0 07W	-10 23	0	6.2	B9	15/15/15		B8B9 " 200/50	FINE
0 10W	+08 13		6.31	M2III	15/5/5	G40	MR STANDARD (1/4 norm?) 400/60	FINE
0 13W	+60 18'		7.37	F8	15/15	G40	1st specul 400/40	FINE
0 42E	+37 37	-	7.3	G5	15/15/15	G40	st. velocity 400/40	FINE
0 11E	+68 35		6.04	M4	15/15/5	G40	1st spec. 2.e 400/25	(OK)
0 15E	+39 47	-	6.8	M2	15/15/15	G40	1st spec. wind cloudy 400/50	FINE
0 0010	34				5/5	G10		FINE
							clouded over at 3.00	
							PH B loaded	

177

Date Sun/Mon Feb 26/27

Observer

Rm Hr
Sd Ri

Julian Day

3:16

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30342	HD 42035	6 ^h 05 ^m 4	+37° 41'	G40	IIaO	17	17	23 06 ²⁴	23 59	B
30343	51688	6 53.3	26.03	G40	IIaO	17		00 06 ¹⁵	00 36	A
30344	" 53744	7 01.1	108 21	"	"	"		00 46 ¹⁵	01 16	B
30345	HD 92588	10 36.3	-01° 13'	"	"	"	15	01 37 ⁴⁴	03 05	C
30345 F1	Focal	33T	OUT-FOCUS							
# 30345 T1	calibration	step wedge			IIaO		DEF. 66			
# 30345 T2	"	"	"		"		"			
# 30345 T3	"	"	"		IIaO		"			
# 30345 T4	"	"	"		IIaO		"			

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Date March 1/2 1967 Wed Thur. Observer Re ^(cwr) Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
30346	^{13 Mon} HD 46200	06 27.5	+07° 24'	G40	IIaOb	17	+14°F	1925	1927	A
30347	+23° 1301	06 13.3	+23° 19'	"	"	"	"	1933	1946	C
30348	+23° 1301	"	"	"	"	"	"	1946	2003	A
30349	-25° 4771	07 32.3	-25° 06'	"	"	"	"	2009	2041	C
30350	HD 53974	07 02.0	-11° 02'	"	"	"	"	2055	2115	A
30351	^{RT Aur} HD 45412	06 52.1	+30° 23'	"	"	13X1	+12°F	2124		
30350F	5/8 G10 filter									
# 30350T ₁	calibration step wedge				IIaOb					

(126)

Dome Temp. 45°FFocus 35

Dome Temp.

Transparency Conditions Fairhaze forming

182

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
1927	0043E	+07°27'	3!	4.5	A074	22/22	G40	Re dust no 81 400/20	sl wk
1946	00011W	+23°22'	3	7.0	B9II	15/15/15	"	Re dust no 75 fold ok 800/45	"
2003	0005W	"	2	"	"	15/15/15	"	Re dust no 75 800/45	OK
2091	0037E	-25°14'	0	7.6	B5	15/15/15	"	Re dust no 88 thin haze 800/45	"
2115	0028W	-11°12'	2	5.4	B0.5	15/15/15	"	Re dust no 95 very thin haze 800/35	(Gaining) OK
			1	6.0	G0	15/		Fe capped not too bright	
								Completely cloudy at 2135 Throw fast plate away Clear up	OK
								Darbrot for plate is <u>VERY</u> stiff Pls slit the bar last Hrb. Exam. (MP) Done	
								Low plate 30346 - 30350	

183

Date March 3/4 1967 Observer Bn ^{sd} Ri ^{Rm} Julian Day

Plate No.	Object	R.A. 1900 "	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30351	HD 36881	5 29.7	+10 10	640	IIa06	<u>17</u>	30	20 05 ¹⁸	20 40	A
2	43819	06 13.2	17 21	640	IIa06	17	28	20 58 ¹⁰	21 18	C
3	51688	06 53.2	26 03	640	IIa06	17	27	21 55 ¹⁰	22 14	A
4	89449	10 14.3	19 59	640	IIa06	17	25	00 05 ⁴	00 13	C
30354F	Focus	best view / out out			IIa06	17	24			C
# 30354T	calibration step wedge				IIa06					

1.24

Dome Temp. ~~31°~~

Focus ~~38~~

Dome Temp.

Transparency Conditions

Good

184

SHOULD
BE W 01:22

Auto Guide not working

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
21:50	+10 16		5.54	B8	15-30	640	B8/B9 seeing poor EXP. meter	FINE
21:38	+17 23		6.36	B8	15-15-15	640	B8/B9 " fine meter working	OK
21:43	+26 03		6.27	B9	15-15	640	B8/B9 clouds !! New relay in exp. meter	OK
00:23	19 41		5.3	F5	15/15	640	Std. Vel. 800/80	OK
					5/5	610	Focus test focus = 38	OK

for plates 30351 - 30354

68° = 1/6 min

195

* in the dome

Date March 2/67 Observer Hd Fa / Ri ^{m 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
30355	HD 33224	5:03.6	-09° 47'	640	II aob	17	20°	18:52	19:28	A
30356	HD 34317	5:11.5	+01° 50'	"	"	17	16°*	19:36	20:30	B
30357	HD 40724	5 55.6	+22 24	"	"	17		20:37	21:13	B
30358	HD 42734	6 07.6	+18 43	"	"	17	10	21:20	22:58	B
30359	HD 42829	6 13.2	+17 20	"	"	"	15	22:17	22:59	A
30360	HD 58661	7 21.5	+48 17	"	"	"		23:11	23:23	B
30361	HD 66684	7 59.6	+27 49	"	"	"		23:30	23:51	A
30362	HD 91948	10:31.9	+60° 38'	"	II aob	17	12/10	22:59	0:46	B
30363	HD 109011	12:26.5	+55° 40'	640	II aob	17	10	0:54	2:17	C
30364	HD 109358	12:29.0	+41° 54'	640	II aob	13		02:21	2:34	B
30365	"	"	"	"	II aob	13	8°F	2:34	2:43	C
30366	"	"	"	"	II aob	13		2:44	2:49	B
30367	HD 131861	14:50.9	45° 43'	640	II aob	17		2:54	04:03	A
# 30367 T ₁	calibration step wedge				"					
# 30367 T ₂	"				II aob					
30367 F	present in in/out and			640		13	8°F			B

(9:40)

Dome Temp. 20° a dropping

Transparency Conditions ~~fair~~ poor

186

Focus 37.34.5/34.0

Dome Temp. 8°F

Estimated July 20

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
9:28	W 104	-8 40	0.0	5.62	B8	15-15-15	RS/59	70/800	(Guinness) SL. WEAK
	W 758	+1 58	"	6.35	B9	15/15/15	"	84/800	FINE
10:31	W 155	+22 28	"	6.25	B8	15-15-15	"	70/800	FINE
10:47	W 221	+18 44	"	6.16	B8	15-15-15	"	70/800	FINE
10:51	W 3 25	+17 24	0	6.12	B8	15-15-15	"	Some doubt stars full - star shows faint. 70/800	SL. WK (Guinness)
10:53	W 2 40	+18 19	0	5.05	B9	15-15-12	"	Red front to 34.5 70/800	FINE (Guinness)
10:55	W 2:30	?		6.14	B9	15/15/12	"	70/800	SL. WK
10:56	W 08 53	60° 19'	0	7.37	F8	15/15/15	G40 HD-5B	80/800	? NO PLATE
10:57	W 0130	55° 18'	0	9.1	K2V	15/30	G40 MK STD	Focus 34.0 40/800	WEAK
10:58	W 0:45	41° 34'	0	4.88	G0V	15/15/15	G40 MK	cloudy (norm) 100/800	OK
10:59	W 0:54	"	0	"	"	15/15/15	"	(1/2 norm) 50/800	"
11:00	W 1:00	"	0	"	"	45	"	(1/4 norm) 25/800	"
11:03	W 0:05	45° 22'	0	7.64	F3	15/30	G40 HD-5B	20/800	WEAK
	for plate	30355-30363							cloudy
	"	30364-30366							(norm)
						15	G10		FINE

187

Date MAR 8/9 1967 Observer Jn / Hr / Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30368	HD 20391	-03^h11^m7	+49^o24'	640	Il205	17	17^o	1942		
30367	HD 34748	5 ^h 14 ^m .6	-01 ^o 31'	640	Il205	17	17 ^o	2012	2026	B
30368	HD 53755	7 ^h 1 ^m 1	-10 ^o 30'	640	Il205	13		2034	2055	C
30370	HD 61429	7 ^h 34 ^m 1	-25 ^o 08'	640	"	"	17 ^o	2105	2119	E
30370	HD 57608	7 ^h 16 ^m 9	+0 ^o 22'	640	"	"	17 ^o	2127	2141	A
30371	HD 53205	6 ^h 59 ^m 2	+1 ^o 38'	"	"	"	"	2150	2216	C
30372	HD 53755	7 ^h 1 ^m 1	-10 ^o 30'	"	"	"	"	2223	2307	I
30373	HD 52860	6 ^h 57 ^m 7	+47 ^o 58'	"	"	"	"	2319	2331	A
30374	HD 89449	10 ^h 14 ^m 3	+18 ^o 57'	"	"	"	"	2344	2347	C
30375	HD 74624	8 ^h 31 ^m 8	+67 ^o 05'	"	"	"	"	2344	0005	A
30376	HD 92588	10 36.3	-01 ^o 13'	"	"	"	"	0023	0145	B
30377	HD 91943	10 31.9	+60 ^o 38'	"	Il205	17	16	0201	0226	C
30378	HD 109011	12 26.5	+55 ^o 40'	"	"	17	"	0234	0514	A
30379	HD 145001	16 03.6	+17 19	"	"	"	"	0527	0543	B
30380							15			C
30381	calibration step wedge				Il205					

(7.40)

Dome Temp. 21°

Focus 355/

Dome Temp.

Transparency Conditions Excellent 188

HCL is equip didn't work.

telescope needs

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
			77	ALV	15	G40	Re eq with end star west 200/50	
W1 ^h 54 ^m	-0° 24'	0-1	60	B15V	15-15-15	G40	Re eq with FIELD DRAWN 800/50	(GUIDING) SL WEAK
W1 ^h 57 ^m	-1° 35'	1	60	B3	15-15-15	Pc *	800/50	(GUIDING) SL WEAK
W1 ^h 58 ^m	-2° 12'	0-1	459	B8	15-15-15	B8-B9 (doc)	800/60	SL WEAK
W1 ^h 59 ^m	-0° 17'	1	595	B8	15-15-15	B8-B9	800/60	(GUIDING) SL WEAK
W2 ^h 0 ^m	-1° 36'	1	64	B9	15-15-15	B8-B9 TOOK FIELD BRIGHTER DRAWING	800/60	SL WEAK
W2 ^h 01 ^m	-1° 34'	1	60	B3	15-15-15	Pc *	800/50	WEAK (GUIDING)
W2 ^h 02 ^m	+47° 53'	1-2	64	B4	15-15-15	B8-B9	800/60	FINE
W2 ^h 03 ^m	+19° 47'	1-2	53	F5	45	G40 Std Vel.	400/40	FINE
W2 ^h 04 ^m	+66° 54'		6.10	B8	15-15-15	B8-B9	800/50	(GUIDING) FINE
W2 ^h 05 ^m	-01° 32'		7.4	K1	15/15/15	STO VEL.	800/100	WEAK
W2 ^h 06 ^m	+60° 19'		7.37	F8	15/15/15	Hd SB	800/80	(GUIDING) FINE
W2 ^h 07 ^m	+55° 18'		9.11	K2V	15/15/15	MKSTDS	800/100	WEAK
W2 ^h 08 ^m	+17° 10'		6.1	G4	15/15/15	STD VEL	400/40	FINE
					5/5	G10		
for plates	30368 - 30380						(70° E near 9)	OK (GUIDING)

189

Date *Much* 9/10 1966Observer *McC (no luck!)*

Rm

Ri. Re

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30380	HD 68099	08 05.9	+10 07	G40	Ilco	17	+26°F	23 48 ¹⁶	00 20	A
30381	65 241	07 52.7	+09° 29	"	"	"		00 25 ¹⁸	01 00	B
30382	HD 107348	12 15.4	-21 39	"	"	"		01 08 ²⁶	02 00	C
30383	HD 109379	12 29.1	-22 51	"	"	"		02 04 ⁵	02 14	A
30384	HD 145502	16 06.2	-19 12	"	"	"		02 18 ¹⁷	02 52	B
30385	π Sco/HD 103100	15 52.2	-25° 00	"	"	"		03 04 ⁶	03 15	C
30386	"	"	"	"	"	"		03 16 ⁴	03 24	A
30387	HD	16 14.5	30° 00	"	"	"	"	03 52	04 10	B
30387	HD 136299	15 17.8	+33 17	"	"	"		03 52 ⁹	04 10	B
30388	HD 101501	11 35.8	+34° 46	"	"	"		04 18 ³	04 24	C
30389	"	"	"	"	"	"		04 25 ³	04 30	A
30390	HD 148605	16 29.1	-29 31	"	"	"		04 35 ⁶	05 47	C
30391	HD 19793/01	16 19.6	-23° 13	"	"	"		04 50 ³	05 05	C
30392	HD 170740	18 25.9	-10° 52	"	"	"		05 10 ¹⁰	05 30	A
30393	HD 165789	17 06.6	-21° 52	"	"	"		05 33 ¹⁰	05 55	B
30393F		Fusion	Trail		Ilco	17	28°F	(4:30)		

Dome Temp. 32

Focus 37

Dome Temp.

Transparency Conditions *intermittent clouds*

190

*bluish haze no 2 as seen before*Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
0 20	W03 ^m 01	+10°05'	1	6.1	B9	15/15/15	G40 B8/B9	800/60	SL. WEAK
1 00	W03 55	+07 20	0	6.3	B9	15/15/15	G40 B8/B9 clouds in Wash	800/40	WEAK
1 00	W03 33	-21 57	0	5.25	B8	15/15/15	G40 B7/B9	800/60	WEAK
1 40	W03 33	-23 10	0	2.8	G4	15/15/15	G40 Standard velocity	800/100	SL WEAK
2 20	W03 26	-19 18	0	4.0	B2 IV	15/15/15	G40 Re dust; binary (No 100)	800/50	WEAK
3 15	W03 50	-25 57	0	2.9	B12	15/15/15	G40 Re dust (No 99)	800/50	WEAK
3 20	W03 40	"	"	"	"	15/15/15	G40 " "	800/40	WEAK
	W03 30	"	"	"	"	"	Clouds (No 100)	800	
4 20	W03 09	+33° 09	2	5.34	B9	15/15/15	G40 B8-B9 Sp Bin (No 105)	800/60	SL WEAK
4 30	W03 38 W	+31 26	2	6.28	B12	15/15/15	G40 MK std 1/2 N	800/50	OK
4 30	W03 43 W	"	1	"	"	15/15/15	G40 MK std 1/4 N	800/25	OK
5 00	W03 45 E	-25 01	0	4.8	B2 V	15/15/15	G40 Re dust (No 108)	800/50	SL WEAK
5 05	W03 31 E	-23 18	0	4.6	B2 V	15/15/15	G40 " (No 106)	800/51	SL WEAK
5 10	W03 01 E	-19 45	1	5.6	B2 V	15/15/15	G40 Re. Dust (#124) Close Binary	800/50	WEAK
5 55	W03 17 E	-21 24	1	6.7	B2 V	15/30	G40 Re. Dust (No 105) field stars	800/15	WEAK
	OK Focus at 37					5/5	G10 #30393T1: calibration sky wedge for (11 and 0) (foc. 4.0)	30380-30393	

UNEXP. PLATE MARK
→ EXP. 20 LIGHT →

193

MCP

Date 11/12 March 1967 Sat Sun Observer Re Sd / ^{Hr} _{Re} _{Vr} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30396	HD 20041	03 08.2	+56° 45'	G40	IIaOb	17	+37°F	18 50 ⁵	19 00	A
30397	"	"	"	"	"	"	"	19 00 ⁵	19 10	B
30398	HD 21389	03 21.9	+58° 32'	"	"	"	"	19 12 ²	19 16	C
30399	"	"	"	"	"	"	"	19 17 ⁷	19 20	B
30400	HD 20891	03 11.7	+49° 24'	"	"	"	"	19 26 ²⁸	20 21	A
30401	HD 22614	03 33.2	+24° 23'	"	"	"	35°F	20 25 ²⁰	21 09	C
30402	HD 36285	05 22.5	-07° 31'	"	"	"	"	21 14 ¹¹	21 36	B
30403	HD 53367	06 57.7	-10 18	"	"	"	"	21 43 ²⁶	22 35	A
30404	HD 53205	6 59.2	+1 38	"	"	"	"	22 44 ¹²	23 07	C
30405	HD 56446	7 11.9	+6 51	"	"	"	32	23 19 ¹⁴	23 06	A
30406	HD 57608	7 16.9	+0 22	"	"	"	"	23 55 ⁹	00 13	C
491-1										
491-83										

(HD 4:28)

7 (H 5:05)

00^h 40^m

05^h 45^m

Dome Temp. 1 at 22, 22

Focus 39/38

Dome Temp.

Transparency Conditions Excellent ✓

194

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 A	02° 45" W	+57° 04'	1	6.0	A0Ia	15/15/15	640 Re "DUST" NO 10	800/50 FINE
10 B	02° 54" W	"	1	"	"	15/15/15	"	800/40 OK
16 C	—	+58° 48'	—	4.6	A0Ia	15/15/20	Re "DUST" NO 15	800/50 "
20 B	—	"	—	"	"	15/15/15	"	800/40 "
021 A	04 03 W	+49° 43'	0-1	7.7	A1V	15/15/15	Re E.W. Temp dropping quickly in dome. Field checked	800/50 FINE
30 B	4 26 W	+24° 39'	1-0	7.1	A2	15/15/15	Re E.W. Field checked	800/50 FINE
130 C	3 07 W	-7° 25'	0	6.2	B1.5V	15/15/15	Re E.W. seeing worse	800/50 FINE
235 D	2 30 W	-10° 22'	0	7.0	B1.5V	15/15/15	Re Dust # 93 Field checked	800/50 OK
307 E	3 04 W	+1° 35'	0	6.4	B9	15/15/15	B8/B9 Field Drawn	800/50 SC. WTRK OK FINE
310 F	3 30 W	+6° 49'	0-	6.42	B9	15/15/15	B8/B9 Focus & Field Drawn	800/50 SC. WTRK
415 G	—	+0° 17'	0	5.95	B8	15/15/15	B8/B9	800/42 SC. WTRK

195

Date March 12/13 1967 Sun 11m Observer ^{Vn} 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
30407	HD 30614	04 ^h 44.1	+66°10'	G40	IIaOb	17	24°F	1906 ¹⁰	1925	A
30408	"	"	"	G40	IIaOb	17	"	1926 ²	1930	B
30409	HD 281 159	02^h38.3	+31°51'	G40	IIaOb	17		1939		C
30409	HD 39286	05 ^h 46.5	+17°50'	G40	IIaOb	17	+24°F	21 ^h 19 ^m	22 ^h 40	A
								(0.46)		B
30409F,	Focus Test	5/5	G10	F. filter	calab	37				B
30409T,	calibration step wedge				IIaOb					

Dome Temp. 23°

Transparency Conditions Partly Cloudy

196

Focus 37/

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
025	A 01 37W	+66° 18'	L	4.3	09.5 Ia	15/15/15	640	Re "DUST" NO 30 troubles with X-ray 800/50)	(GUT 12/11/60) OK
030	B					"	"	" 800/35	(FALL 5/10/60) (SCRATCHED) OK
				0.5	1st			Re "Dust" NO 19 Capped at 1950 Brightenaj 4+ Looking at Field clocks 800/	
								Cloudy. Close up. 2010	
040	A 0334W	+13° 54'	0	5.98	B9	15/15/	640	B8-B9 Clouds (Cirrus) 800/45	WEAK
								Hopeless night - Close up ah 2300	
	3A							lots of noise, no field flattener.	FINE
								for plates 30344 - 30409	
								13/13/67, 69°F	

201

Date March 18/19 Sol Sun Observer Re / Db Bn / Ph Mc / (D6) Julian 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.
30410	+9°12'66	06 25.5	+09°52	G40	IIaOb	17	+07°F	19 20 ⁵⁷	21 14	A
30411	-11°17'61	06 59.2	-11°26	"	"	"		21 20 ⁵⁷	22 33	B
30412	HD 9194B	10 31.9	+60°33	"	"	"	07°F	22 40 ¹⁴	23 08	"
30413	HD 51316 (plew)	10 27.5	+09°49	"	"	"		23 25 ³	23 31	A
30414	HD 74393	08 ^h 38.7	+09°41	-	-	-		23 40 ³	23 45	B
30415	HD 83650	09 ^h 34.9	-10°07'	-	-	-		23 52 ^{3?}	<u>ESTIMATE</u> 23:58	A
30415 F1	Focus	5/5								B
474-1								0 ^h 31"		
-13									02 37	
				2CH						
30416	HD 173003	18 38.1	-01°44	G40		17	6°	03 ^h 33 ⁴⁷	05 06	
30417	HR 7098	18 46.0	+31 31	G40		17	6°	05 15 ⁵	05 ^h 25	
30417T1	calibration step wedge				IIalb					

(G10: 4:56)

Dome Temp.

Transparency Conditions *Photometric* 202

Focus *33/*

Dome Temp.

3 1/2 quarter
auto-guider on the blink - still on again?!! (75)
- goes only on red not green!

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0210W	+09°53'	3	9.9	B8	15/15/15	G40	Re DUST NO 77 - field flattened; looks ok	800/35 OK
0235W	-11°30'	2.4	9.2	(A)	15/15/15	G40	Re DUST NO 926 find checks!	800/24 L, WEAK
0004E	+60°19'	2	7.4	F8	15/15/15	G40	KA 8°x8° SpB	900/20 FINE
0026W	+09°29'	2	3.6	B3	15/15/15	G40	1st Vel	800/30 OK
(?)	+04°20'	2	6.3	B8	20/20	-	B8B9 SpBin	800/50 L, WEAK
(?)	+10°24'	1+	6.2	B9	15/15/15	-	B8B9 SpBin Field upside down in program??!	800/60 L, WEAK FIELD FLATTEN?
						G12		
							<i>clouds</i>	
0208E	-1°38'	1+ → 1	7.7	B4	14/16/15	G40	(Feeder field frame) DUST NO 10 Program #20 Clouds - but 800/60	FINE
0155E	+31°36'	1+	6.5	B9	15/15/15	-	B8 - B9 600/50 - Clouds + at sunrise.	FINE
							closed up 5:45 EST.	
							for plates 30410 - 30417	
							25°/20 min	

Dome Temp. 33

Focus 38

Dome Temp.

Transparency Conditions *V. hazy*

206

ading Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
W 1 40	+11 07	1	6.26	B8	12-12-12	G40	B8-B9 800/60	OK
	+7 23	1	6.3	B9	12-12-12		" getting steadily worse 500/20	SL. WEAK
	20-12	1			5/5	G10	Sr 38	OK

207-

Date March 24/25 Fri Sol Observer Re Ju / ^{1/22} _{15:20} Julian 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.
30420	+61° 570	03 16.0	+61° 11'	G40	IIaOb	17 slit	+35°F	19 25 ¹⁷	19 58	A
495-1								20 20		
495-59								03 49		
30421	AO 125 224	15 02.0	-21° 75'	G40	IIaOb	17	30 F	04 30 ³¹	05 31	B
								2 CHS 7:29		
								G40: 1:36		

Dome Temp.

Transparency Conditions good

208

Focus 39/

Dome Temp.

... .. not slowing quite slow.Ending Time
E.S.T.

P.M.

058

A

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
0420W	+61°27'	3	84	BS	15/15/15	GAO	No DUST NO 11 Field checks <u>perfectly</u>	900/35	OK
		2							
		2							
0442E	-21°20'		65	BS	15/15/15		No DUST NO 11	900/50	OK

Dome Temp.

Transparency Conditions *Poor.*Focus *39/**210*

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
<i>02 30 W</i>	<i>-5° 20^m</i>	<i>1</i>	<i>6.27</i>	<i>B9</i>	<i>15/15/15</i>	<i>G40</i>	<i>B8-B9 (HR 1750) 800/60</i>	<i>OK</i>
<i>?</i>	<i>-20° 30^m</i>	<i>1</i>	<i>6.04</i>	<i>B8</i>	<i>15/15/15</i>	<i>G40</i>	<i>B8-B9 (HR 1860) 800/60 Field Filling! clouds</i>	<i>SL. WEAK</i>
							<i><cloudy</i>	
							<i>2 loaded pr. in N.D. etc</i>	

for plate 30414 - 30423

211

Date March 29, Tue, 1917 Observer C. P. - Mac. R. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
30424	HD 74393	08 35.7	+04 42	G40	TL06	17L	34°	23 06 ²⁷	00 00	C
30425	HD 103095	11 47.2	+38 26	G40	TL06	17N	'	00 12 ⁴⁵	01 41	H
30426	HD 131861	14 50.9	45° 43'	"	"	17		01 55 ²⁶	02 46	B
30427	HD 136849	15 17.8	+33 47'	"	"	17xL		02 57 ²⁰	03 36	C
							G40	3:56		
30427E1	focus test	in in / out out		G40	TL06	13	32°			A

Dome Temp. $26^{\circ} F$ Focus 38 Dome Temp. $25^{\circ} C$

Transparency Conditions *Extremely hazy & l. cloud
early in evening, clearing ~ 22:00 2/12
(some clouds after midnight)*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
W 3:25	$10^{\circ} 30'$	0	6.28	B8	15/15	G40	BB-B9 Bin $800/70$	V. SL. WEAK
W 0:57	$+38^{\circ} 00'$		7.3	G5	15/15	G40	STD. VEL. $800/80$	V. SL. WEAK
0100	$45^{\circ} 27'$	0-1	7.64	F3	15/15	G40	Hd-SB <i>circus from N-NW</i> $800/70$	OK
W 0:23	$+33^{\circ} 05'$	0-1	5.34	B9	15/17	G40	BB-B9 Bin de $800/72$	FINE
							<i>completely overcast</i>	
					5/5	G10	Fans 38	OK
							<i>{ P.H. #4 B of leaded in N pier dark room</i>	

Dome Temp. 40

Focus 40

Dome Temp.

Transparency Conditions

Thin cloud + Haze
after 02:00

214

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0 23W	-01 32	0-1	7.4	K ₁	15.15/15	G40	Std Vel	800/100 FINE
3 46W	+55° 57'	1	9.4	K3V	19/5/15	G40	MK STDS NORMAL	800/100 FINE
1 34W	+33° 27'		4.54	G8II	45	G40	" 1/2 NORMAL	40/3 FINE
1 40W	+33° 27'				45	"	" 1/4 NORMAL	40/1 1/2 (GUIDING) FINE
					5/5	G10	focus 40	FINE

for plates 30424 - 30431

215

Date March 30/31 1967 Observer W. F. V. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30432	HD 52860	6 57.7	+47.54	640	Kodak	XL 17	38°	20:31 ³⁰	21:30	B
30433	HD 86314	11 24.7	-17 04	640	"	"	"	21:51 ⁵⁶	23:43	A
30434	HD 107328	12 27.7	+05 53	"	"	17L	"	23 55 ³³	01:01	C
30435	HD 131861	14 30.7	+45 42	"	"	17	"	01:30 ⁴⁷	03:27	A
30436	HD 150849	15 12.7	+32 17	"	"	17L	"	03:30 ⁷	05:11	B
30437	HD 172893	18 27.5	+22 06	"	"	17L	"	04:15 ³⁰	05:14	C
30438 FI	Calibration star					13	34°			
30437 TI	calibration star wedge				Walt					

Dome Temp.

887 569.6

Transparency Conditions

very hazy

216

Focus

L 884-2130

Dome Temp. 40

1000000

1000000

15.00

2000

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2 42 W	+47° 54'	0-1	6.34	157	12-12	640	B8-B9 9 hrs exposure with focus ^{made sharp high} 800/60	FINE
00:54 W	-27° 03'	0	5.6	B8	12-12	"	B8-B9 SF. 800/60	SL. WEAK
00 59 W	+03° 33'	0-1	6.1	K1	15/15/15	"	std Vel. 800/1000	FINE
00 50 W	+45° 29'	0	7.64	F 3	15/15/15	"	Hd-SB 800/70	V. SL. WEAK
00 45 W	+33° 44'	0	5.34	B7	15/15/15	"	B8-B9 BC 700/70	(GUIDING) FINE
0 1:10 E	+52° 12'	0	5.85	B0	15/15/15	"	B8-B9 BC 800/70	FINE
					5/1	G10	std 38.0	FINE
for plates 30432 - 30437							std 38.0	

217

Date Apr. 2/67 Observer Db Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30438	HR 6066	16 ^h 11.1	-21° 03'	540	IIa06	13	47°	4.07	5:07 ³⁰	A
30438 f						13	47°	Closed up before get sky light on slit		C
30438 T1	calibration step wedge				IIa06					

Dome Temp. 50°

Focus

Dome Temp.

Transparency Conditions Cloudy - V. strong winds 218
Cleared up completely after 3:30-4:00
Barometer in dome falling rapidly!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
01 ^h 18	-21° 10	0	6.3	B9	15/15/15	640	B8 - B9 Programme	800/ ⁴⁵ 50 L WEAK
					5/5	610		FINE
for plate # 32438								
<u>Note.</u> Exposure meter wouldn't balance. It had to be checked at every count for the B8-B9 star								

221

Date ^{FAL-S} APR. 7-8/67Observer ^{sd} M-1/KA 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.F.
497-1								19 35		
497-42								02 00	02 10	
30439	HD 173987	18 43.2	-6° 34' 6 40		Ilasb	17	330	02:36	05:10	C
								2 CH: 2:24		
								Call: 2:24		

Dome Temp. 35°

Transparency Conditions Good

222

Focus 38

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
1.00 E	-6.31	0+	9.1	B0.5	15/B/	640	nb O-B 22/800	L.WEAK
							PH. A+B Loaded in N-Pier	

166 visitors DG, sd, wt. - Jupiter
223

Date Apr 19 1967 Sd. Cam Observer Re Vr Julian 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.
30440	HD 91948	10 ^h 31.9	+60° 39'	G40	IIaOb	17	+92°F	22 19	22 45	A
30441	111226	12 ^h 42.6	-24° 18'	"	"	"		22 50	23 25	B
30442	ε Leo	09 ^h 40.2	+24° 14'	"	"	"		23 30	23 32	A
30443	"	"	"	"	"	"			23 40	C
30444	56 UMa	11 ^h 17.3	+44° 02'	"	"	"		23 43		A
30445	"	"	"	"	"	"		23 48		C
30446	HD 131861	14 ^h 50.9	+05° 43'	"	"	"		23 59	00 35	B
498-1									00 50	
498-10									02 18	
									22:28	
									G40: 1:50	
30446T1	calibration step wedge				IIaOb					

Dome Temp.

Transparency Conditions *Good*

229

Focus *41/*

Dome Temp.

then photomicrographs of the 2400

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0058 W	+60°18'	1	7.37	F8	15/15/15	G40	Sp. Bc ~ N; Field checks	80/90 FINE
0032 E	-24°37'	0	7.1	B9	15/15/15	~	B9-B9 SpB Field checks	800/60 WEAK
0237 W		2		G0II	7	G0	MKStd 1/2N	400/20 FINE
0246 W		2		"	7	G10	MKStd 1/4N	400/10 FINE
0117 W		2	S8	G8II	7	"	MKStd 1/2N	400/30 FINE
0121 W		2	"	"	"	"	MKStd 1/4N	400/15 FINE
1000 E	+45°28'	0	7.69	F3	15/15/15	G40	Speed. Binary KATS. 1 photomicrograph for 2.0	800/40 (600/300) L.WEAK

*for plates 30439 - 30446**10/9/67 // 2100*

Dome Temp. 40°

Transparency Conditions *Excellent*

226

Focus

Dome Temp. 23°

Ending Time
EST.

P.M.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Filter

REMARKS

Quality

9:38

51

235

Date Apr 24

Observer

Rm
LG10
Mae

Julian 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.
30447	HD37490	05 32.4	+04° 04'	G40	II aob	17N	37	19 ^h 48 ^m	19 ^h 54 ^m	+
503-1								20 ^h 16 ^m		
503-68									4:40	
30447 T1	calibration step wedge				II aob					

Dome Temp. 35°F

Transparency Conditions EXCL

236

Focus

Dome Temp. 30°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
10° 01' W	+09 09	0 1	4.5	B30	46	G40	re * focus 48.0	FINE
for plate no			30446		(25 apr / 68°K)			

Dome Temp. 39°

Transparency Conditions

240

Focus

Pool - Then cleared up at ~2 EST.
Moon past full ~14 hr.

Dome Temp.

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 14E	-09° 18	0	9.2	09I	15/15/	G40	Db-OB Programme #10. Field OK. 800/? Gak sample ~300.	SPECTRUM OK. 800/? GAK SAMPLE SPECTRUM
for plate no 30448							70° =	
<p>Note: Could the exposure meter and rate meter perhaps be checked? The former wouldn't stay balanced so I had to finally give up on it.</p> <p>? No pulling out of the shutter closing + opening switch? - it's not marked anywhere</p>								

Dome Temp. 46

Transparency Conditions Excellent

242

Focus 41

Dome Temp. 35°

iding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
5 ^m 15 ^m W	2° 24'	0	7.5	DS	15/10/15	040	DUST # 52 Add 800/100 WEAK	FOCAL COM 5000
		1						
		1						
for plate no 30749							26 Apr 1956 // forecast (400/320) sec	
<p>With all the expensive equipment we have in the dome, you would think we could afford a parallel stopper</p>								

245

Date May 5/16 1967 F. Sal Observer ?* / Re Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30449	HD 147010	16 14.2	-19° 48'	G40	IaO	17S	+41°	0010	0050	B
30450	HD 147009	"	"	"	"	"		0055	0130	A
30451	HD 147010	"	"	"	"	"		0131	0152	B
30452	HD 146834	14 13.2	-19° 58'	"	"	"		0155	0233	A
30453	-17° 51 45	18 15.0	-17° 11'	"	"	"		0240	0332	B
30454	⊙ Arg (191692)	20 06.1	-01° 07'	"	IIaOb	17XL		0345	0346	A
30455	"	"	"	"	"	17XL		0347	0349	C
30456	145 556 w. C ₄₉	20 27.0	+48° 37'	"	"	17XL		0400	0407	A
									3:10	
30456F ₁	F0009 Tal	5/5			IIaO		+37°			B
30456T ₁	calibration step wedge				IaO					

+ whoever was my first brief missed a good opportunity of getting some work done!
In view of the poor start earlier first half man was doing other things

Dome Temp. +41°F

Transparency Conditions Good - Excellent

246

Focus 40

Dome Temp.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
050	B 0050 E	-19°56'	0-1	8.1	B9.5V	8/8/8	G40	Re "DOST" NO 102a (by other) ?	OK
130	- 0010 E	"	0	8.5	A0V	8/8/8	"	" " " 102b (Jantar) 800/20	L-WEAK
152	B 0010 W	"	1	8.1	B9.5V	8/10	"	102a ^{return circle} during exp. 800/20	OK
212	- 0055 W	-20°04'	1	7.4	K5III	8/8/8	"	101 800/50	OK
232	D 0005 E		1-0	8.4	(13)	8/8/8	"	121 b ^{thin circle} 800/20	OK
314	A 0143 E		2	8.2	B9.5III	22/22	"	129 400/20	FINE
344	C 0140 E		2	"	"	22/20	"	129 " 400/20	OK (500/20)
402	A 0146 E	+49°51'	1-2	5.0	B32V	45	"	134 400/20	FINE
							G10		FINE
								PH C loaded IaOb on N Dier (D-19, 7 min, 65°F)	
								for plates 30449-30453 * Frank Exp. 1/16" diameter No scratches seen on 6" finder.	
								* Anson - see note before processing the IaO plates. (Revs) to better advantage	

247

150 Variables - Jupiter Id - ~~Wt~~^{G₀} - Wt

Aurora in north!

Date ^{-Sun} Sat May 6, 7 9 Observer Db Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30457	4D 136849	15 17.8	+33 17	G40	IIa06	17XL	45°	22:46 ¹³	23:11	A
30457 F1	Focus Test				IIa06		45°			
32457 T ₁	calibration step wedge				IIa06					

Dome Temp. 44°

Transparency Conditions ... Poor - Clouds ...

298

Focus

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
21:11 21:29	33° 04	0	5.34	B9	15/15	G40	B8-B9 (Fuse out) 70/800	FINE ALMOST INVISIBLE (FOCUS OK)
						5/5 G40 !		
							Horribly cloudy. Closed up at 01 EST	
							for plate 8 nos 30454-30457 (see., 70°F, 6-3 min)	

G15

mcl

mcl

249

Date 12/13 May/67 Fri/Sat. Observer L - Re Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
507-1								20:21		
507-29									02:18	
30458	-17° 5136	18 ^h 14.0	-17° 06'	G40	IaO	17	36°F	03:25	03:55	A
	-17° 1136		-17°							

Dome Temp. 39°F at 02:30

Transparency Conditions Hazy

250

Focus 38

Dome Temp.

ading Time
EST.

218

355

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		1+						
		1+						
	Lost n1 hr in wrong field (Re)							
00 46W	-17° 03'	1	9.1 (B)			G40	Re DUST NO 121F slgy hazy	800/12 WEAK
	0400	Close up						

Dome Temp. 46°F at 02:30 IST

Transparency Conditions Good (Patches of Cirrus)

Focus 40

Dome Temp.

252

ading Time
E.S.T.

02.6

00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		1+						
		1+					clouds	
			9.1	B0.57 ₂		G40	clouds in south mainly low. ^{descended too} 800/52 OK	
0°18 W	13°57	1	6.1	B9	^{3/4}	G40	B8-B9 850/	FINE

253

Mse / Db

Date Mon May 15-16/67 Observer Ch - Ri Julian Day 244.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30459 F ₁	focus test in in / out out			G12	IaO	9				A
30459 F ₂	"		"		"	"				C
30460	HD 102870	11:45.5	+2° 20'	G12	IaO	9	49	20:57 ²²	21:41	C
30461	HD 123782	14:04.6	+49° 56'	G40	IIaOb	17	46°F	22:02 ¹⁸	22:37	B
30462	HD 136649	15:17.8	+33° 17'	G40	IIaOb	17XL		22:53 ⁵	23:02	A
30463	HD 139160	15:31.5	-25° 57'	G40	IIaOb	17XL	42°F	23:09 ²⁷	00:03	B
30464	HD 168894	18 17.0	-14° 42'	G40	IaO	17		00:13 ⁶⁹	02:30	A
30465	HD 173987	18 43.2	-6° 34'	G40	IaO	17		02 33 ⁴²	03 56	C
30465F	focus test in in / out out			G40	IIaO	17	focus 41 38°			A
30465T1	calibration step wedge			G12	IaO					
30465T2	calibration step wedge			G40	IIaOb					

Dome Temp. ... 50° F

Transparency Conditions ... good

25.4

Focus

Dome Temp.

Ending Time EST.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
	A						5/5	NO FILTER		FINE
	C						5/5	FILTER		SLIGHTLY FADE
01	C	W 11:08	+2° 00'	1	4.16	F8K	10-10-10	G10	BRIGHT STD. UEL. [FOCUS 410]	200/100 FINE
02	C	E 0:15	+49° 38'	0	6.8	M2	15-15-15	G40	STD. UEL.	800/100 FINE
02	A	E 1:03	33° 04'	0	5.34	B9	15-15-15	G40	Bf-B9 BIN.	800/70(+) * OK
03	A	E 00:17	-26° 07'	0	6.0	B9	15-15-15	G40	"	800/70 * OK
230	A	E 00:34	-14° 37'	0	10.0	B11	15/15/15	G40	DB-OB #18. Field Checks.	800/15?? SLIGHTLY WEAK
350	A	W 00:26	-6° 30'	0	9.1	B0.51a	15/15/15	G40	DB-OB #14	800/21 WEAK
	A						5/5	G10		* BLANK

for plates 30458, 30460, 30464-5 (019, 69°)

for plates 30459, 30461-30463 fogged one end (all 70°)

* plates fogged one end - top not properly on UNEXP. box?

255

Date May 16-17 Tue-Wed, 1967 Observer ^{Cn} G-S ^{D6} ^{R1} ^{Hv} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30466	HD 109879	12 29.1	-22 51	G12	IaD	9	49°	20:35 ¹⁸	21:11	C
30467	HD 107904	12 19.9	+03 05	G12	IaD	9		21:43 ³⁰	22 43	C
30468	HD 124897	14 11.1	+19°42'	G12	IaD	9L		22:56 ²	23:00	A
30469	HD 139592	15 35.6	+36 58	G12	IaD	9		23 17 ¹²	23:41	A
30470	HD 165794	18 17.0	-14 42	G40	IaD	17		23:54 ³⁸	02 30	A
30471	HD 173283	18 42.0	-09°25'	G40	IaD	17	focus 41 44°	02 34 ⁴²	03 57	C
30471 F1	focus test			G40	IaD	17	44°			
30471 T1	calibration step wedge			G12	IaD					
30471 T2	calibration step wedge			G12	IaD					

WHERE IS 212 FILTER?

Dome Temp. 52°F

Focus 41

Dome Temp. 46°F

Transparency Conditions occasional cloud at dusk

21^h - clouds from NW

256

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 030	-23 10	0	3.65	C6III	2-1-2	NONE	Std. Vel. occasional cloud. 200/150	FINE
01 40 W	+42 43	1	6.2	F2	2-1-2	NONE	Cn* <u>broken</u> start on E side of slit 200/60	FINE (Guider)
00 05 W	+19° 33'	1	1.3	K2IIIp	5-5	NONE	Std. Vel. <u>at wrong end of box</u> 20/50	FINE (Guider)
00 38 E	+36 47	1	5.1	B.P.N	2-1-2	NONE	SB J C B A BROKEN 200/70	FINE
00 30 E	-14 37	1+	100	F1II	15-15/15	B10	Db OB #18 500/27	WEAK
00 30 W	-09 17	1-1+	9.2	09I	15-15/15	"	Db OB #10 800/27	SL. WEAK
					5/5	B10	focus at 41	FINE

for plates 30466 - 30467, 30469 - 30471 (2-19, 49°F)

for plate no 30468 (ACC, 7°F)

Arson: C all pieces of broken plates are in same slot

⊙ 2 broken wrapped IAD in bag of wrapper - 340

⊙ 1 IIAD plate in wrong end of wrapper

257

Date Wed-Thurs, May 17-18, 1967 Observer Ch Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30472	Jupiter	¹⁹⁶⁷ 05 05.8	¹⁹⁶⁷ +20 54	G12	IIaD	9L	56	20 25 ¹²	20 49 ⁴	C
30473	Mars	12 55.0	-05 27	R12	IIaD	9L		21 00 ²⁴	21 08	A
30474	HD102873	11 ^h 45.5	+2° 20'	G12	IIaD	9		21 17 ²⁴	22 05	A
30274T	calibration step wedge			G12	IIaD					

Dome Temp. 56

 $\frac{1.1}{2.8}$

Transparency Conditions ... cirrus at dusk - especially in N.

Focus

22^h cumulus

Dome Temp.

258

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
04 07W	20° 56'	0 ⁺	—	C20	15-15-15	C12	Jupiter 20/60	FINE
00 27E	-5° 23'	0 ⁺	—	C22	15-15-15	C12	W100 20/60	FINE
01 37W	+2° 00'	0 ⁺	4.16	F8D	15-30	C12	Std. Vol. ^{circus in evening} 22 ^h solid cumulus 200/111	WEAK
closed up 22:30								
for plates 30472-30474								
							Acquifer 70°F / May	
Answer: There are now 4 broken I & D plates in wrong end of wrap. box.								

Dome Temp. +58°F

22.55

Transparency Conditions Variable Clouds

Focus

20.33

2.52

Dome Temp.

1.26

260

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2325	01 17W	+65 00	0	5.70	B9u	15/15//	G10	Intersellar Line 21:30 - 22:40 23:25 → ∞ 800X/118	VERY WEAK
								Clouds real thick now	
								Closed up at 0100 ; still cloudy	

263

Date 22-23 May 1967 Observer Ch - Ri Julian Day
Mon - Tues

use Db

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30478	HD 119476	13:38.4	65° 20'	G12	Ia0	9	45°F	20:34	22:34	C
30478	HD 119476	13:38.4	65° 20'	G12	Ia0	9	45°F	22:25 ³⁸	23:41	C
30479	HD 124897	14:11.1	19° 42'	G12	IIa0	9		23:52	23:56	A
30480	HD 145792	16 07.7	24° 10'	G40	IIa0b	17xL	42°F	0:10 ²²	00:54	A
30481	HD 168854	18 17.0	-14° 42'	G40	Ia0	17		00:58 ⁶⁸	03:53	B
30481F	Focus test	unimportant		G40	IIa0b	17	40°F			C
30481T1	calibration step wedge			G12	Ia0					
30481T2	calibration step wedge			G12	IIa0					
30481T3	calibration step wedge			G40	IIa0b					

Dome Temp. 49°F

Focus 38

Dome Temp. 40

Transparency Conditions good / bright moon

264

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
W 00:36	65° 00'	1 → 0	5.70	B9m	10-10	G12	Intentional line GRATING COVERED!! 200/	
W 11:43	65° 00'	0 → 1	5.70	B9m	10-10	G12	" 200/62	FINE
W 1:25	19° 22'	1	1.29	K20/p	15-15	G12	std. vel 20/35	FINE
W 00:26	-24° 18'		7.0	B8	15-15-15	G40	B8-B9 focus 38.0 800/70	SL WEAK
W 01:17	-14° 38'	0-1	10.0	B11	15/15/15	G40	DB-OB #18 800/29	SL WEAK
					5/5/	G10	focus 38.0	FINE
for plates 30477, 30478, 30481							D-19/58° = / May 23	
for plates 30475, 30479							acc fine / 72°F May	
for plates 30476, 30480							" "	

265

Date 25/26 May '67 Thurs/Fri Observer ^{GS}
^{Cu} mel - ^{Ri} Db Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
509-1								20 45		
-30									23 40	
30482	HD 173820	18 42.2	-06° 25'	G40	Ia0	17	53°F	23:57	03 50	A
30482F	Focus test in air/out air			G40	Ia0b	17	50°F			B
30482 T1	calibration step wedge				Ia0					

Dome Temp.

Focus 42

Dome Temp. 50° → 49°

Transparency Conditions Good 266

Extremely bright aurora all over the sky and all night!!
silhoues moon.

ending time
E.S.T.

340

350

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		1						
		1						
W140	-6017'	1"	10.2	08	15/15	G40	06-08 #21 focus at 42 (field) 800	OK + AURORA
	focus at 42				5/5	G10	* slight illumination of slit by aurora - capped several minutes at one point.	FINE
for plate # 30482							16 May 1971	

26

Date Jan. Aug. 26-27/67 Observer Fa - L. mcl
mcl
m 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.H.
30483	HD 107 113	12 13.9	+86 59	G 12	IAO	9	59	20 51 ³⁰	21 57	C
30484	HD 136849	15 17.8	+33 17	"	"	9		22 04 ²²	22 48	C
510-1								23 21		
510-20									01 10	
30485	HD 173003	18:38.1	-1° 44'	G40	IAO	17	55°F	01:29 ¹⁵	01:59	A
30486	HD 187640	19:45.9	28° 12'	G40	IAO	17XL		02:04 ⁵	02:14	B
30487	HD 184467	19:29.5	58° 24'	G40	IAO	17		02:21 ¹⁴	02:49	C
30488	HD 199714	20:53.9	47° 54'	G40	IAO	17	55°F	02:56 ²²	03:40	A
30488 F ₁	focus test	in in / out out		G40	IAO	17	55°F			B
30488 71	calibration	step wedge		G12	IAO					

Dome Temp. 59Transparency Conditions good / bright moon

Focus

268

Dome Temp. 54°FEnding Time
EST.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
57 C	1:19 W	86 39	1	6.33	Fo	10-10-10	G12	Antenna line 200/17?	WEAK
48 C	0:34 E	33 05	1	5.34	B9	10-10	G12	B8 B9 spec. Bin. 200/60	FINE
59 A	0:43	-1° 38'	5"	7.7	B4	12-12-12	G40	D6-08 focus 43.0 200/25	(200/25) FINE
14 B	1:35	28° 23'	5"	6.24	B8	12-12-12	G40	B8-B9 (main prog) 200/35	FINE
49 C	0:42	59° 31'	3-6"	7.5	K5	12-12-12	G40	std. Vel. 200/50	FINE
3.40 A	1:15	48° 10'	5"	8.3	B8/B6	12-12-12	G40	Re. Dist # 138 NO FIELD? 200/~25	FINE
								5/5 ^{G12} # Icd/G40 in exp. box #1 *	FINE
								for plates 30483-30488	
								2-14/30 mag / 39"	

10 June

wt, 5d, Rm cloudy

1st showing 57
2nd " 63

271

Date 11-12 June/67

Observer Ri-m 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.
30489	HD 139160	15:31.5	-25° 57'	640	IIaob	17XL	72°	22:17 ³⁰	23:17	A
30489 F1	from test	in in/out out		640	IIaob	17				B
30489 T1	calibration step wedge			640	IIaob					

Dome Temp. 72

Focus 45.1

Dome Temp.

Transparency Conditions *hazy*

22:45: cloud from SW.

272

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0:45	-24:07	5"	6.0	B9	5/5	G40	B5-B9 SB) FOCUS 45.0	WEAR
					5/5	G12		BADLY C TO U.
for plate no 30489							<u>cloudy</u>	
							dry focus 43.0/72°F	

CHANGE TO
BALANCE FOR ATR.

273.

Date 12-13 June 67 Observer Ob-Ch Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30490	HD 173723	18^h 42^m	+9° 25'	G 40	IIaOb	17	67°	21:45	—	B
50490	HR 7098	18 46.0	+31 31	640	IIaOb	17		01:23		
								Clouded over very		
								Very Hazy + clouds!		

Dome Temp.

Transparency Conditions

274

Focus

Dome Temp.

ending Time
E.S.T.

3

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
						640	Plate replaced still usable	
							closed up at ~23h.	
			6.5	139			Plate Discarded.	
							closed up at ~2h	
<p>① Note: Bolt on post near the chain holding the dome was pulled off - couldn't find bolt downstairs!</p> <p>② Exp. meter wouldn't count on a 6th mag. star even after it was balanced (not even at 2000)</p>								

Dome Temp. 78° F

Focus 4310

Dome Temp.

Transparency Conditions

POOR

276

Ending Time
E.S.T.

1:40

A

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00:52	49° 36'	2"	6.8	M2	15/30	G140	std. Vel.	EMULSION IN SL. WEAK
					5/5	Cy10		C TO R.
							clouds	
							for plate no 30490	
							NO EXP. MTR	

277

Fast moon

Tel. moving Big Dipper southward at 00:52 EST.

02 41 28

03 01 57

Date 15-16 June 1967

Observer Db-Ri

Julian Day

Trunk - Fri

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30491	HD 131861	14 50.9	45° 43'	G40	Ilab	17	76	21:18 ²²	02:02 ¹⁰³	B
30492	HD 168894	18 17.0	-14° 42'	G40	FaO	17		22:15 ⁵⁷	01:40	A
30493	HD 173783	18 42.0	-9° 25'	G40	Ilab	17	73	01:45	03:38	R
30493F,	focus test	in in/out		G40	Ilab	13	71			C
3049371	calibration strip wedge			G40	Ilab					
3049372	calibration strip wedge			G40	Ilab					
Saturday June 17, 1967. 160 Visitors - morning. Go, Fa - slides + 74" telescope										

Dome Temp. 76

Focus 43

Dome Temp. 72

Transparency Conditions Very Hazy!

278

strong lightning in the north

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
3 20:26	45° 27'	0 ⁺	7.64	F3	15/15/10	G40	spect. Binary (KAFS) No Exp. MTR	WEAK VERY
40 A 20:39	-14° 37'	D	10.0	B1-II	15/15/15	G40	DB DB Program, #18 (Field checks - see #30470)	WEAK VERY
3:33 21:11	-9° 20'	1 ⁺	9.2	09I	15/15/15	G40	Db #10 (Haze in south at ~00:20, so increased exposure time. cleared at ~1:10)	WEAK CENTRE TO UT
					5/5	G10	focus at 43	
for plate # 30491							2-cu in 2-19/17° F	just 16
for plate 30492, 30493							"	

279

Echo moving Southward, just west of Polaris at 23:58
moving Eastward through Carbar at 00:17Date 18-19 June 1967 Observer W. J. ... ^{W. J.} Julian Day 506
Sun - Moon

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30494	HD 146651	16:09.1	-03° 21'	G-12	IaO	9	66°F	21:13	21:30	C
30495	HD 156014	17:10.1	+14° 30'	G-12	IaO	9		21:38	22:08	A
30496	HD 173820	18:42.2	-6° 25'	G-4	IaO	17	CAN'T FIND *			
30496	HD 144579	16:01.5	39° 24'	G-40	IaO	17	64°F	22:23	22:50	A
30497	HD 169578	18:20.2	15° 02'	G-40	IaO	17XXL		22:58	23:08	B
30498	HD 173820	18:42.2	-6° 25'	G-40	IaO	17-		23:16	03:22	A
30498 F1	focused in in/out			G-40	IaO	17 ¹³	58°F			C

Dome Temp. 65°F

Focus 13.0

Dome Temp.

Transparency Conditions hazy - clear later

280

NO. 06-03

PROGRAM BOOK

OK NOW.

(AT FIRST)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
1:14 E	-30° 34'	8"	4.30	M III	10-70	G12	std. Vel. 100/140	FINE
E 1:37	14° 28'	5"	4.41	M 5 II	10-10-10	G12	std. Vel. FAIN-BLUE * COMPARISON * FOCUS 43.0	FINE
			10.2	08		G40	05-03 #21	
W 0:15	39° 16'	~5"	7.2	G 8	25-15	G40	std. Vel. 800/60	34047 FOUNDED STROBE COMP. SL. FOUN STROBE 10 MIN. COMP. / 20
E 1:47	+5° 05'	~5"	6.54	B 9	15-15-15	G40	B8-B9 (S.B.)	800/60 10 MIN. COMP. / 20
W 2:05	-6° 18'	?	10.2	08	15-10-	G40	06-03 #21	"
					5/5	G12		VERY VERY SELECTOR

*² replaced R.A. part motor here
 *¹ back loose on P.H. ∴ plate
 likely to be fogged

281

Date 19.20 June 1967

Observer D. B. - G.

Julian Day

Mo. - 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.
499 30500	HD 176077	18 ^h 53.4	-7° 24' 0	G40	Ia0	17	59°F	21:17 ¹²	01:18	B
30500	HD 174853	18 47.5	+13 51	S40	IIa0b	17XL	57°	01:23 ¹⁰	01:43	A
30501	HD 178065	19 ^h 02.1	+00 30	G40	IIa0b	"	"	01:46 ¹⁵	02:15	B
30502	HD 180553	19 11.9	+27° 11	"	"	"	"	02:18 ¹⁸	02:53	C
30503	HD 186547	19 40.0	+13 03	"	"	"	56°	03 03 ¹³	03:28	A
30503 f	focus test			G40	IIa0b		56°			B
# 30503 T1	calibration step wedge			G12	Ia0					
# 30503 T2	calibration step wedge			G12	IIa0b					
20 June / 67		Mise - Bm								
		2,100 visitors (Professional Photographers of Canada)								
		viewed stars								

Dome Temp. 69° F


Focus

Dome Temp.

Transparency Conditions Clouds in West

282

Large + clouds moved in at ~ 22^h EST - had
to prolong exposure to get Fine.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0:07 E	-7° 23	4"-2-5"	9.9	B1 Ia	15/15/15	640	Db-OB Program #13 Field Drawn - OK Hazy for ~ 2 hours	FINE (G.U. 2.100)
0:26 W	+13 56	5"	6.1	B9	15/15/15	640	B8-B9 Sp. Beanie. *	800/70 FINE
0:43 W	+00 36	5-7"	6.42	B9	15/15/15	640	B8-B9 Sp Bin.	FINE
(?)	+27 25	5"	6.2	B9	15/15/15	640	B8-B9 Sp Bin	FINE
01:20 W	+13° 15	4"	6.07	B8	15/15/15	640	B8-B9 Sp Bin - 2 stars in field - brightest one	 FINE
					5/5	612		N.S.C. TO RED
for plates 30494 - 30500							2-19/20/00 1/70° F	
for plates 30501 - 30504							Acc. 70° F. 1/70° F	
							* Automatic guider won't move to the right! ↑ star	

283

Date 22-23 June 1967 Observer Re - Gs Julian Day

THOR - FRID

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30504	HD 7889	16^h 19.4	-24° 14'	GH0	II a0	17		21:09		A
30504 (*)	HD 24397 (U)	14^h 11.1	+19° 42'	GH0	II a0	9		21:52	22:12	C
30504	α Oph (HD 146051)	16 ^h 09.1	-03° 36'	"	"	"		22:22	22:50	A
30505	α Her A (156014)	17 ^h 10.1	+14° 30'	"	"	"		22:58	23:30	C
3050E	α Boo	14 11.1	+19° 42'	"	"	"		23:38	23:50	A
3050F	β Oph	17 ^h 38.8	+4° 37'	"	"	"		23:59	00:27	C
30508	HD 136791 ^{* An'}	19 ^h 41.5	+10° 22'	"	"	"	+65°F	00:31	00:47	A
30508-1	calibration star wedge			GH-12	II a0					

* III Plate 30504 broke when pressure removed at unloading

Dome Temp. 68°F Transparency Conditions 50% solid cims

284

Focus

Dome Temp.

X meter?

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		$-24^{\circ}21'$		7.9	B2V	12/	G40	Clouds down there; give up at 21:45	
0143	W	$+19^{\circ}23'$	1.2	1.29	K2 III p	15/50	G10	(Std Vel) to G12 Std Vel	LOST PLATE IN DEVELOPMENT
0023	W			4.3	M1 III	22/22	"	G12 Std Vel	(G12 Std Vel) SL WETT
0000	W	$+14^{\circ}29'$	2	3.2	M5 II	15/15/15	"	do	FINE
3 22	W	$+19^{\circ}24'$		1.29	K2 III p	15/15/15	"	do	(G12 Std Vel) FINE
0027	W	$+4^{\circ}37'$	2"	3.93	K2 III	15/15/15	"	do	FINE
1 13	E	$+10^{\circ}35'$	2"	4.15	K3 II	15/15/	"	do	L-WEAK
						0100		CLOUDY 99%; close up	
for plates 30504 - 30508								Acc/23/6/0 71.7 $^{\circ}\text{F}$	

285

Date Fri June 23/4 - 1967 Observer L. Bd - MSK Julian Day Db

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30509	HD. 139892	15 35.6	36 58	G 10	1A0	9		21 16 ²⁰	21 56	C
30510	BD -14° 5032	18 18.7	-14° 13	G 40	1A0	17 ^{slightly} long? 70	42	22 03 ⁹⁰	01 ^h 02	A
30511	HD 173820	18 45.7	-6° 21	G 40	1A0	17m.		01 06 ⁷¹	03 ^h 28	B
30511f	focus test	42.2	25							
Clouded in solidly just as we closed up										

Dome Temp. 70°

Focus

Dome Temp. 66°

Transparency Conditions

Good seeing - bright moon later at $\sim 19^{\text{h}}$. RA

286

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Fitter	REMARKS	Quality
00 01W	36 47	3"	5.1	B3n	15-15-15	G10	GC+BA	FINE
01 02W	-14 07	3-2"	10.5	B5Ia	15/15/15	G40	DB-OB Program #19	Field OK. SL. WEAK
02 31W	-6 19	2"	10.2	09I	15/15/15	G40	DB-OB #11.	Max light on spectrum possibly. FINE
					5/5	G10	WHAT FOCUS. ? ? ↓ 42	SL. C TO R.
							Note: Ion arc electrodes too far apart. Difficult to strike arc.	

287

Date 25-26 JUNE, 1967 Observer Bd - DL Julian Day

SUN, MON.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30512	BD-11° 4674	18 28.2	-11° 16	G40	IAO	17	60°	21:17 ²⁵	01 27	A
30513	HD 171344	18 29.3	-13° 57	G40	—	—		01 38 ⁵⁴	03 26	B
30514	HD 224014	23 49.4	+56° 56.6	G40	—	13	56°	03 36 ⁸	03 51	C
30514 T1	calibration step wedge			G12	IAO					

Dome Temp. 58°F

Focus

Dome Temp.

Transparency Conditions Clear - good
Windy later; screen not as good as
we'd like it to be.

288

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 50W	-11° 13'	3"	11.29	09.5I	*? 5/21/18	G40	DB-OB #21 (lens) capped sp for 10-15 minutes - are not working	SL. WEAK
02 48W		4-5"	9.81	B0.5III	15/5/15	G40	DB-OB #22 (field drawn)	FINE
01 50E	-13° 52'	5"	4.59	F8I	20/40	G40	PCas ← WAS THIS EXPOSED ON II ad? 800/100 (bought) outside	L. WEAK
for plates 30509 - 30514							D-19/20/40 71/70°F	
							* lens was loose - fixed.	

289

Date 26-27 June, 1967 Observer D6-Cl Julian 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.
30515	HD 171344	18 29.3	-13° 57	G40	I20	17	66°	21:42	23:59	C
30516	BD -13° 5166	18 52.9	-13 31	G40	I20	17	66°	00:07	03:35	A
30516 T1	calibration step wedge			G40	I20	17				

Dome Temp. 66°F Transparency Conditions *Scattered cirrus.*

290

Focus

Clear + good after ~10:30 EST

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
00 ^h 31 ^m E	$-13^{\circ} 51'$	2"-3"	9.8	B05 III	15-15-15	G40	Db-OB Program # 22 * Haze for ~30 minutes at start of exposure) 800/2	FINE	
02 ^h 40 ^m W	$-13^{\circ} 32'$	2"-3"	10.58	B0 II-III	15-15-15	G40	Db-OB # 23 Field drawn - will be checked in - SL. WEAK -13 ^h 51 ^m 69		
for plates		30515, 30516							
* Exposure meter's wild for anything faint. Couldn't be balanced here.									
Lesson: also, will need more IAO plates. ✓									
								Db.	

291

Date 27-28 June, 1967 Observer ^{Go} Dd-Li-~~Dg~~ Julian Day
Dd-Msk

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30517	HD 171344	18 29.3	-13° 57	G40	IaO	17	68° foc 422	22 ^h 23 ^m	00 ^h 46 ^m	R
511 - 1								01 ^h 15 ^m		
511 - 5								02^h 00^m	03 ^h 00 ^m	
30517 T1	calibration step wedge			G40	IaO					

Dome Temp. 67° Transparency Conditions *Clean + transparent* 292

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 ^h 18 ^m W	$-13^{\circ} 53'$	3 ⁿ 2 ^m	9.81	Ba5 III	17-15-	G40	Db-013 Programme #23 Go Dd Mdk Lc very hazy	OK
		3"						
	for plate no.	30577					2-19 21 June 1974	

July 1 Hr GH Jn 120 vit. cloudy Universe & Slides

293

Date July 3/4, 1967 Observer Go, McE, G.S. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
512-1 to -6	NGC 6633							21:20	23:10	
30518	¹⁶⁹⁵⁻¹⁸ HD 145001	18:20.2	+5° 02'	G40	IIa06	17xL	60°F	23:41 ¹⁷	0:15-	A
30519	HD 169820	18:21.4	+14° 55'	G40	IIa06	17xL	9	0:18 ¹⁷	0:45	B
512-7 to 11	NGC 6633							00:50	02:50	
30519 F	focus test in in/out out			G40	IIa06	17	60°F			A
30519 T1	calibration step wedge			G40	IIa06					

Dome Temp. 64⁰ F

Focus 42.0

Dome Temp. 56⁰ F

Transparency Conditions Intermittent Clouds.

NO EXP. MTR.

NO AUTO GUIDER

294

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
		5"					clouds.	
00:20	+5:07'	5"	6.54	B9	15-15/15	G40	B8-B9 (SB) FOCUS 42.0	(GUIDING) FINE
00:49	14 ⁰ 58'	5"	6.43	B9	15-30	G40	B8-B9 (SB)	(GUIDING) FINE
		6"					clouds	
					5/5	G12		
for plates 30518, 30519							July 5th 1980	50 C 40 RSD

295

Date *Wed/Thurs July 56 1967* Observer *Pi Ga* Julian 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.
30520	HD 152909	1651.2	-19 22	G40	IIa06	17xL	60	21:45 ¹⁶	22:17	A
513-1614	NGC 6623							23:15	03:30	
30521	HD 224014	2349.4	-56 56.6	G40	IIa06	17xL	54°	04:03 ³	04:09	A
30521F	focus 52	in in / out in 4			IIa06	17xL				A
30571 71	calibration step wedge			G40	IIa06					

Dome Temp. 60°F

Transparency Conditions

296

Focus 42

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0 ^m 02 E	-19° 26'	5' 6"	7.0	B8	5/5/15	G40	B8-B9 Photometer grad loop. <u>Horiz</u>	FIELD FLATTENED 800/70
1 ^m 07 E	+57° 19'	5"	4.5	F&I	20/20/20 5/5	G40 310	2 Cas - W+*	OK VERY SL. E. TO REF IN VIEW RES
for stars 30520, 30521							Accy. 680 th	

297

John Percy + 30 visitors - showed M13
from secondary school.Date Thursday July 6/7 1967 Observer Ri, Ea, Db, Gc Julian 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.
30522	HD-14°503018 ^L 18.7		-14°13	G40	Ia0	17	62° _{f42}	21:28 ¹¹	01:08	C
	514-1 to B							01:20	02:25	
30523	HD 22 461423 ^H 49 ^q		+56°56'	G40	IIaCb	17	58°	3:29 ⁴	3:36	A
30523 F	Focus Test	in	in	G40	IIaCb	17	"			B
30523 T ₁	calibration step wedge			G40	Ia0					
30523 T ₂	calibration step wedge			G40	IIaCb					

Dome Temp. 62

Focus 42

Dome Temp. 54°

Transparency Conditions Good

298

Exp. Meter Not used - diff. to keep balanced.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
1:20 W	-14° 08	2-3" 4"	10.5	B5 Ia	15/15/15	G40	Db-OB #19	600 FINE
							wide field mirror control broken. - FIXED BY 3 ²⁵	
1:37 E	+57° 15	4"	4.5	F8 Ia	20/20/20	G40	eCos - W+*	400/45 FINE
					5/5	G10		FIELD FLATTENER?
		for plate no	30522				D-19/08° F	
		for plate no	30523				D-19/08° F	

Sat July 8 142 Spring Cloudy - slides ✓
 299
 60 - (Hd. Re)

Date 12-13 July 1967 Observer H. J. Misk - M. S. E. Julian Day
Wed - 9 hours

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30524	NGC 7142	20: 40.8	+18° 59'	G140	Ilford	13x	74°	23:02 ³	23:08	A
30525	"	"	"	G12	Ilford	9L		23:20 ³⁰	0:20	C
515 - 1/27	NGC 7142							00 ^h 35 ^m	3 ^h 00 ^m	
30525 T	calibration step wedge			G12	Ilford					

Dome Temp. 62°F

Transparency Conditions *clearing about 22:30 EST*
300

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2:29		5"	5?		40	G40	FOCUS 43.0	OK
1:17	+19°04'				10-10/10	G12	FIELD DRAWN	OK
		6"					Clouded out	
for plate no		30525					2-19/71°F / 13/13/57	

NO EXP. MTR. BALANCE

301

Date 13-14 July 1967

Observer Re - Ge

Julian 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.
30526	NOVA XXXX	20:40.8	+18 59 ⁺	G40	Ilab	13XL	60°	2:17 ⁸	0232	A
30527	"	"	"	G12	IaO	9XL	"	0245 ²⁸	340	C
30527 T1	calibration step wedge			G40	IaO					
30527 T2	calibration step wedge			G12	IaO					

Dome Temp.

Transparency Conditions ... a very few clean patches

Focus ... A2

302

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
32 H 0059W	+19° 25'	0	N6	nc!	3/2/2	G12	a clean patch field check 800/60	FINE
40 - 2 08W	"	"	"	"	10/13/13	G12	Only ~ 10 ^m of other sky standing up 800/60	WEAK
for plate no. 30526							Acufin 72°F / July 14	
for plate no. 30527							D-19	Developed 14x normal
							When is GAO filter? : ON EXP. MTR	
							<u>MONITOR</u>	

303

Date July 14-15, 1967 Observer Msk, Dd, G Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
516 - 1								20 ^h 50 ^m	21 ^h 10 ^m	
516 - 2 to A								02 ^h 10 ^m	03 ^h 30 ^m	
								0:20		
								<u>1:20</u>		
								1:00		

Dome Temp. 52

Transparency Conditions *very cloudy till 0100*

306

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
E 11 39 ?								
+ 01 E	19 03	0	?	?	4-4	G10	Cloud and haze	C 5-5 FINE
E 11 29 ?	"	0	?	?	4-4	G10	better	FINE
0 15 W	"	0	?	?	12/12-12	G10		FINE
20 1 E	+57° 18	-2?	4.5	F8 Ia _p	20/20/20	G40	e Cas	Rm, W+

309

Date July 26/12 1967 Observer Go, CH Ri Julian Day 5-
15-67

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
518-1 30534	NOVA DEL	20 40.8 ¹⁹⁶¹	+18 58.7 ¹⁹⁶⁷	G40	IIaOb	13xL	61°	21 ^h 00 ^m 21 42 ^s	21 ^h 15 ^m 22 05	A
518-2 30535	NOVA DEL	20 40.8	+18 58.7	G12	IaO	9 ^{XL}	61°	2 ^h 23 ^m 2 ^h 23 ^m 44 ^s	01 ^h 5 ^m 03 50	C
30536	HD 224014	23 49 23	+56° 56'	G40	IIaOb	17	58°	4 05	6 24 16	A
30536	from test	used/old test		G40	IIaOb	17	58°			B
30536 T1	calibration step wedge			G140	IIaOb					
30536 T2	calibration step wedge			G12	IaO			2 hrs 3:03		

Dome Temp. 62°F

Transparency Conditions

310

Focus 52

Dome Temp. 58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
							Patchy interstellar clouds.	-
E 3h 17m	+19° 05'	5"	5-5	?	15-15-15	G40	NO EXP. MTR.	FINE
		6"					Clouds.	-
2h 30m W	+19° 04'	6"	5-6	?	15-10-10	G12	clouds, cleared later BROKEN	SL. W.K.
0 15' E	+19° 19'	5"	4.5	F81	20/20/20	G40	W+* p Co.	FINE
					5/5	G12		FIELD FLATTENER?
for plates 30528, 30529, 30531, 30532, 30534, 30536							F20 is broken and still in plateholder 'C' and in refug	
Acuf. 60"/100 ft.								
for plates 30530, 30533, 30535							3-19-68 8:4 July 17	

319

Date July 18/19 1967 Observer Ri/Gs Julian Day(Tues. / wed

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.M.
30537	NOVA	20 408	+18 59	440	IIaob	13XL	66'	22:43	23:11	A
30538	"	"	"	612	IIa0	9XL	"	00:45	01:17	C
30538 T1	calibration step wedge			612	IIa0					
30538 T2	calibration step wedge			440	IIaob					

Dome Temp.

Transparency Conditions

Focus 4.2

hazy & clouds

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality	
11 59 E	+19° 05'	5"	5-6	?	15/15/15	G40	clouded over	NO EXP. MTR.	OK
0 08 W	-19° 05'	"	"	"	17/2/12	G10	" "	"	L. WEAK
for plate no 30538,							D-19 / 70° / 1-9 July		
for plate no 30537									

313

Date July 19/20, 1967 Observer Thoe - BQ - (Db) Julian DayWed - ThursMsk

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30539	Nova Dec	20 40.8	+18 59	G40	IIaOb	13XL	70° (42.5)	20:53	21:03	A
30540	"	"	"	G12	IIaO	9XL		21:39 ⁵⁸ 22:39 ^{RECORDED}	21:58 23:35	C
30540 F1	focus test			G12	IIaO	9				
30541	HD192 666	20:10.9	-12° 39'	G40	IIaOb	17XL		0:03	0:17	A
30542	HD199 260	20:51.1	-3° 57'	G40	IIaOb	17XL		0:28	0:38	B
30543	NOVA DEC	20:40.8	18° 59'	G40	IIaOb	13XL		0:45	0:50	C
30547 T1	calibration step wedge			G12	IIaO					
30547 T2	calibration step wedge			G40	IIaOb					
30544	HD199892	20:54.9	41° 33'	G40	IIaOb	17XL	66°F	2:36	2:56	B
30545	HD 209819	22:01.0	-14° 21'	G40	IIaOb	17XL		3:03	3:08	C
30546	HD 216494	22:48.2	-12° 09'	G40	IIaOb	17XL		3:13	3:30	A
30547	HD 219749	23:13.2	44° 57'	G40	IIaOb	17XL		3:37	4:00	B
30547 F1	focus test			G40	IIaOb	13				

Dome Temp.

Transparency Conditions

POOR.

314

Focus

2 full moon

Dome Temp.

NO EXP. MTR. (BALANCE)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
4:06 E	+19 05	3"	5-6	?	15-15-15	G40	(EXPOSED PLATE BOX #1)	OK SLIGHT
	"						(TRIED TO FIND OF STAR - useless - left. - PROBABLY WILL BE WEAK	SL. WEAK
1:35 E	"	3-10"			15-30	G12	PLATE BROKE DURING EXP.	
					5/5	NO FILTER		V. SL. C. TO R
50:27	-12° 24' 23"		6.39	B9	15-15-15	G40	B8-B9 (main prog.) clouds	WEAK
50:45	-3° 40'		6.45	B9	15-15-15	G40	B8-B9 clouds	WEAK
50:19	+19° 05'		5-6	?	15-30	G40	SPECIAL + - TRIED TO FIND STAR BUT SKY TOO BRIGHT - 1/2	OK
							(2 ...)	
56:30	41° 50'	5"	6.0	B9	15-15-15	G40	B8-B9 (SB) FIELD OK VERY MISTY	OK
50:35	-14° 59'		4.3	B8	45	G40	B8-B9 (SB) clouds	SL. WEAK
50:10	-11° 45'		5.87	B8	15-15-15	G40	B8-B9 (SB)	SL. WEAK
50:15	45° 20'		6.30	B9p	15-15-15	G40	B8-B9 (SB)	OK
					5/5	G12		V. SL. C. TO R.

for plate no 30539
30539
for plates 30540-30547
40 2.12/69°F (20 July)
a. 69/20 July

Dome Temp.

Transparency Conditions Fair to Poor

1318

Focus 42.5 (was there from last night)

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
00 24 ^c X W	+15°30	1	89	F0	15/15/15	GAO	Re Dust NO 125 : Field checks; full G; dunks	SL, WEAK
00 32 E	+19°04	1-2	45	—	15/15/15	"	Sky clear now	FINE
00 36 W	—	2	11	"	15/15/15	K012	* Plate broken in 5-6 pieces in spectrograph. PUT IN WINDOW END OF BOX Mazy / Cinnul	OK
02 05 E	+57°19	1	5	F8	15/15/15	GAO	↑ 9 ^{pm} Heavy clouds	FINE
							0215 - close up. Cloudy	
							Expand plate Box NO 2 use	
							NOTE	
							There may be an <u>unusual</u> plate in the expand plate box (?) <u>THERE</u> WAS.	

319

23-24 July 1967
 Date 23 Mon July Observer Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30553	NGVEL	2040.8	18059	G40	Hc06	17xL	74	23 10	23 25	B
30554	"	"	"	G12	Hc0	9x1		23:45 ²³	00 31	C
30554F	focus test in in/out only			G40	Hc06	13	72			
30554 T1	calibration step wedge			G12	Hc0					
30554 T2	calibration step wedge			G12	Hc0					
30554 T3	calibration step wedge			G40	Hc06					

Dome Temp.7.4.....

Focus42.5.....

Dome Temp.

Transparency Conditions

320

cloud in south
hazy

Timing Time EST.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
8 25	B	14 29 E	19° 04'		15	147	15/15/15	G40		FIELD FLATTENING
0 31	C	07 15 E	"				15/15/15	G12	cloud over could not find any FAO plates	V. VERY SC C 90 X P.D.
							5/5	G12	top of G12 plates if AO were on axis angle with a turn the light on: PLATES OK.	
									for plate no 30551 0-19 71° E / 24 Feb.	
									for plate no 30554	
									for plates 30548 - 30550, 30552 - 30553 Cen. 90° 24 Feb.	

321

Date Mon-Tues July 24-25/67 Observer Db - Ch Co Julian 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.
30555	hosa Del	20 40.8	+19° 04'	G40	IIaOb	17xL	73°	20 ^h 45 ^m	21 01	E
30556	hosa Del	20 40.8	+19° 04'	G40	IIcOb	17xL	73°	22 12	22 18	B
519	—							10 50	11 02	
30557	HD171305	18 ^h 29.0	-41° 58.2	G40	IIcOb	17xL	70°	01 07	02 15	C
30558	hosa Del	20 40.8	+19° 04'	G12	IIa0	9xL	70°	02 41	03:15	
30558 71	calibration step wedge			G40	IIaOb					

Dome Temp. 73°

Focus

Dome Temp.

Transparency Conditions Good - clouds + lightning
on horizon
clouds - clear, ...

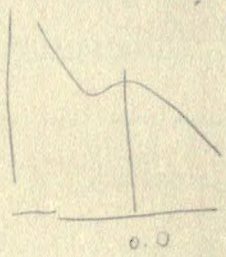
322

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
03 48E	$+19^{\circ} 04'$	3.5	7		15/15/15	G40		FINE
02 52E	$+19^{\circ} 00'$	4"	7	-	15/15/15	G40	Clouded up at 21 25	FINE
03 35W	$-04^{\circ} 48'$	7"	P.6	B1V	15/15/15	G40	- clouding in !! Patch of cloud	GUIDING WEAK
02 30W	$-19^{\circ} 04'$	4-5"	7		15/15/15	G12	Checked to see if I/O plates were OK. May be broken near edge. cloudy over 3 3:50 - looked like rain also! Yes, tipped in 2 places.	* VERY WEAK
for plates 30555 - 30557 - Cen. $71^{\circ} E / 25 / July$								
what a really crazy night throughout !!								
* Note: There's a broken I/O plate for the unexposed I/O plate box (The small broken part was discarded)								

324

Ending Time
E.S.T.

325



+3 30
2 45

326

HANDBOUND
AT THE



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