

for ca 40: If c to mi then decrease the reading
" c to red " increase the reading

≡ make all settings with increasing numbers

ms

7

Dome Temp.

Focus

Dome Temp.

Hour Angle
Ecl

Date Tues/Wed July 25/26, 1967 Observer Go, Ri, 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.	Hour Angle End
30559	HO 147889	16 19.4	-24° 14'	G40	II aob	17	66°	21:08	21:40	1:12.0
30560	NOVA DEL	20 40.8	+19:04	G12	IaO	9xL				
520-1424	NGC 6633	18 26	+18° 08'				59°	02:05 ^m	03:00 ^m	
30560	NOVA DEL	20 40.8	+19:04	G12	IaO	9xL	60°	03:12	04:15	2:30.0
								04:00 1:34		
								2CH: 4:55		
# 30560 T1	calibration step wedge			G40	II aO					
# 30560 T2	calibration step wedge			G40	II aOb					
# 30560 T3	calibration step wedge			G40	IaO					

Dome Temp. 68

Focus 42.5

Dome Temp. 60

Transparency Conditions Very good

43

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
1:40	A 1:12W	-24:21'	5"	7.9	B31	15/15/15	G40		VERY WEAK
3:00			7"					2nd channel packed up! Counter locking in hold.	
4:15	C 3:30W	+19° 05'	5-6	5-6	?	15/15/15	G12	Broken into 5 pieces still in plateholder this is half a plate with the H ₂ O unexposed box	FINE
	for plate no	30558						Acuf. 20°F / 26 Jul.	
	for plate no	30559						Acuf. 70°F / 26 Jul.	
	for plate no	30560						2-19, / 26 Jul.	

5

Date Wed - Thurs July 26-27/67 Observer Mse - Del to Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
30561	NOVA DEL	20:40.8	+18° 59'	640	Ilford	13XL	69°F	22:50	23:05	1.37
30562	"	"	"	"	"	"	"	23:10	23:17	A
52181-17	NGC 7142 NGC 6633							23:37	03:55	
30562T1	calibration step wedge			640	Ilford					

Dome Temp. 67°F

Transparency Conditions clearing after 22:30

Focus

DECLINATION VARIABLE SPEED
NOT WORKING.

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
3:05	E 1:37	49° 04'	~3"	?	?	15-15-15	G140	FOCUS 42.5	OK
3:17	A	"	25"			15-15-15	G140	EXP. BOX #1	(NO EXP. MTR) BALANCE AT 600V. FINE
3:55			4"						

for plates 30561, 30562

Conf. 7/24/25 July 1967

7

Date Fri - Oct 28/29 July 1967 Observer Bd, Msk, C1, KALER Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
30563		20 ^h 46 ^m	+45° 45'	G40	IaO	17xL		20:39	20:41	A	E 3:48
30564	BD +50° 2869	19 ^h 42 ^m	+50° 16.9'	G40	IaO	17xL		21:16	3:27	B	W 3:51
30565		20 ^h 46 ^m	+45° 45'	G40	IaO	17xL		3:43	3:45	A	W 3:04
30565 F1	Focua test			G40	IaO		64.64°C			B	

Dome Temp. 69°

Transparency Conditions Clear

Focus 42

Dome Temp.

g Time S.T.	PE	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
41	A	E 3:48	+46° 0'	4.89	?	12	G40	55 Cgg.		SL. FOGGED GUIDING
7	B	W 3:51	+50° 26'		9	5-5-5	G40	NGC 6826	Nebula on slit south of central star (~8")	WEAK COMPARISON
5	A	W 3:04	+46° 0'	4.89	?	12	G40	55 Cgg.		WEAK COMP GUIDING
	B					5-5	G10			NO OUTER COMPARISON

9

Victoria BC, 10, 30' 189 G₀Date Sat. Jan 29/30 July 1967 Observer De Bd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle
30566	167° 1283	21° 11	13° 11	G40	IaD	24XL	70	23 03	00 03	B	000E
30567	Herz Delphin	00° 40.8	+18° 01	G40	IIaDB	13XL		00 08	00 19	A	000E
30568	Nova	-	-	G12	IaD	9XL	68	00 21	01 30	C	0100
30569	299819	22° 01.5	-14° 21	G40	IIaDB	17XL		01:28	01:49	A	0100E
30570	216494	22° 48.2	12° 09	G40	IIaDB	17		01:51	02 06	B	0100E
30571	222 247	23° 39.0	-18° 50	G40	IIaDB	17		02 09	02 24	A	0100E
30572	192 659	20 10.9	+41 48	G40	IIaDB	17		02:29	02:30	B	0100E
30573	192 274	20 09.0	+47 26	G40	IIaDB	17		02:54	03 14	A	0100E
30574	199 292	20 54.9	+41 33	G40	IIaDB	17		03:24	03:44	B	0100E
30575	199 464	20 12.0	+61 36	G40	IIaDB	17		03:48	04 10	A	0100E
30575 F1	3.000 test			G40	IaD					B	
#30575 T1	calibration	step wedge		G40	IaD						
#30575 T2	"	"	"	"	"						
#30575 T3	"	"	"	"	IaDB						

Dome Temp.
 Focus 42
 Dome Temp.

Transparency Conditions Thin Cirrus (lw)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
0050E	+68° 01	1.2	7.8	BSe	5/15	G40	Guided on reflection nebula south (N16") (De Duik) two stars set star in E. & west edge of neb. for 10" get star from center for 2 stars	SL. FOGGY
0012E	—		5.6		5/15/15	G40	Plate from Box 102	STRONG
0100W	+19° 03	1	5.6		15/15/	G12	Photometric from 0115 →	FINE WITH STARS
0006E	-14° 00		4.3	B8	15/15/15	G40	(de) B8-B9 SpB	L STARS FINE
00:39E	-14° 46		5.87	B9	15/15/15	G40	B8-B9 SpB	FINE
01:06E	-18° 25		5.21	B8	15/15/15	G40	B8-B9 (de) SpB	FINE
02 49 W	+42° 03		6.37	B 8	15/15/15	G40	B8-B9 SpB no number on plate	FINE
03:14W	+47 41	0	6.6	B8	15/15/15	G40	B8-B9 SpB	FINE
02 39 W	+41 51	0	6.0	B9	15/15/15	G40	B8-B9 SpB	FINE
03:52W	+32 11	0	5.6	B9	13/13/15	G40	B8-B9 SpB	FINE
						G12		FINE
for plates 30563, 30566, 30568							D-19/ 73° / 3 July 107	
DUPLICATE								
for plates 30567, 30569 - 30575							Acuf. 123° / 3 July 107	

11

Date Sept 11, 1946 Observer S.A.G. Julian Day 203

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30576	39° 4208	2025.2	39 47.1	500	103aE	17	65	21:44	21:40	A
130576 91	calibration step wedge			G40	103aE					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

25 E

Dome Temp. 61°F

Focus 42

Dome Temp.

Transparency Conditions Hazy

Eastern clouds after 2300

12

g Time
S.T.

P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
A 0 25 E	40 25	3"	11.29	GOI	15/30	440	583072 e-v=3.26 23:47 Gave up! too cloudy capped 23:58 uncapped 23:59	STROBE
for plate no. 32576							D-19/ 93° 113 July 67	

73

Date *Monday July 3 - Aug 17* Observer *Ea 60 Ra 1746* Julian 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.
<i>522-142A</i>	<i>NGC 6633</i>							<i>21:40^m</i>	<i>04:00^m</i>	

2 ch phot - 6:20

Dome Temp.
Focus

Dome Temp.
Hour Angle

Dome Temp.

Focus

Dome Temp.

Transparency Conditions *Hazy and hazy at 26 sunset.*

ing Time
S.T.

P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
2 ^h .56W	12° 20'	2-3"	9.9	BIIB	15/15/15	G40	DB-OB Programme #24 - <i>Field Checks: 2h. 3h. 4h. 5h. 6h. 7h. 8h. 9h. 10h. 11h. 12h. 13h. 14h. 15h. 16h. 17h. 18h. 19h. 20h. 21h. 22h. 23h. 24h. 25h. 26h. 27h. 28h. 29h. 30h. 31h. 32h. 33h. 34h. 35h. 36h. 37h. 38h. 39h. 40h. 41h. 42h. 43h. 44h. 45h. 46h. 47h. 48h. 49h. 50h. 51h. 52h. 53h. 54h. 55h. 56h. 57h. 58h. 59h. 60h.</i> * Solid cloud for ~1hr. (22 ^h 30-23 ^h 30)	WEAK
for plate #30517							<div style="border: 1px solid black; padding: 10px;"> <p>* N.B. *</p> <p>BOTH BOXES OF EXPOSED PLATES WERE LEFT IN CASE ALSO BOTH BOXES OF UNEXPOSED PLATES WERE LEFT IN CASE AND FOUND BY EA RI WED. NOON. Ga-fa</p> </div>	

77

Date THURS-FRI AUG 3-4/57 Observer DJ-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.	Hour Angle End
30578	NOVA DELPHINI	20 ^h 40 ^m ·8 ^s	+12°57' 62"	G40	IIaOb	13YL	72°	23:20	23:36	A	01:35
30579	NOVA DELPHINI	"	"	G12	IaO	9YL	72°	23:45	00:52	C	01:36
30580	HD 193964	20 ^h 18 ^m	+61°56'	G40	IIaOb	13YL	70°	01:11	01:45	A	01:30
30580F	focus test	in use/out of position		G40	IIaOb	17	70°F			B	
30580T1	calibration wedge			G40	IIaOb						
30580T2	calibration wedge			G12	IaO						

Dome Temp.

Transparency Conditions *clear to hazy*

Focus *42.5*

Dome Temp. *67°F*

ing Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
0 ^h 33 ^E	+19° 04'	5-6			3/15/15	G40		FINE
0 ^h 43 ^W	+19° 04'	3-7			15/15/15	G12	<i>hazy broken in plate folder</i>	SL. W. 744 (272-9)
1 ^h 56 ^W	+62° 10'	5-6	5.6	B9	15/15/15	G40	<i>68-89 (5B) clouds - lightning in the west</i>	SL. W. 744
					5/5	G12	<i>no number on it</i>	V.P. 50. C. 78 1510

*for plate 30578, 30580
for plate no 30579*

*temp: 17.0° at 4 length 2
D. 19/72° at 11 length 2*

19

Date FRI-SAT, AUG 4-5/67 Observer Db-Bd Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
30581	-11° 4674	18 28 2	-11° 16	G40	IaO	17	(42.5) 70	20:39 ¹²⁹	00 ^h 57	H 03° 00W
30582	NEVA Delphin	20 ^h 408	+18 59	G40	IIaOb	13XL	-	01:03 ⁷	01:17	C 0° 1'
30583	NEVA DELPHINI	20 ^h 408	+18 59	G40	IIaOb	13XL	(42.0) 60	01:18 ⁶	01:30	T 01° 24W
30584	HD 204 934	21 ^h 268	+27 56	G40	IaO	17	60	01:34 ⁷³	04:00	C 23° 06W
								clouded in.		
								(G40 = 7.10)		

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions

Very Good

20

Focus

photometric.
Light clouds, all around at ~ 03^h30

Dome Temp.

ng Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
03 ^h 00W	-11° 11	3"-5"	11.3	09I	15/16/16	G40	Db-OB. Programme * #21 {star drifting much in Dec. after ~ 01 ^h 30W.	SL. WEAK
01 ^h 11W	+19° 04	4-5"	5-6	-	15/15/15	G40	1000 Delphinus. & (for program) repeated = field flattener) (was found not down)	FIELD FLATTENER
01 ^h 24W	+19 04	4-5"	11-	15/15/15	G40	11-		FINE
03 ^h 06W	+27 14	4-5"	3.64	K III	16/15	G40	SRV Programme* (see standard velocity) (Type 11)	FINE

* IAD exposed in box #2. (with paper note attached)

29

Visitors: Rm, Bn, Bd

77 1st
55 2nd(m 13 16² 40.5)
+ 36° 34'
1967Date SAT/SUN AUG 5-6/67 Observer Bd, Dh/Hb

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
30584 55	-12° 5083	18 29.4	-12° 25	G40	IaD	17	65° (42.0)	22:07	79 00 45	A	02 55W
30585 56	HR 192638	20 12.5	-12 39	G40	IIaD6	13xL	58°	01:03	12 13 01 10	C	01 49W
30586 57	19 9220	20 21.1	-03 50	G40	IaD6	13xL	58	01:41	14 15 02 07	C	01 55W
30587 58	22311	23 43.1	-06 56	G40	IIaD6	17	56	02:21	36 02 33	A	
30588	HR 1252	03 44.1	11 25	G40	IaD6	17	58	02:43			

(m 40 = 4:38)

Dome Temp.

Focus

Dome Temp.

Dome Temp.

Focus 422

Dome Temp. 57

Transparency Conditions

Good + clear.

clouds on horizon + all over
at sunset.

Variable during night; clear to overcast

22

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Remarks	Quality
02 55W	-12° 19'	3-4"	9.9	B1Ib	16/17/17	640 Db-0B Programme #24 cloudy at 2145 - cleared off at 2200	SL. WEAK (6.0 D.W.)
01 49W	-12° 24'	"	6.4	B9	15/17/17	640 B8-9 fogging lenses caused - plate could be fogged.	SL. WEAK
01 53W	-03 38	"	6.45	B9	15/17/17	640 B8-9	SL. WEAK
02 22W	-06 33	3"	6.3	B/K4	15/17/17	640 Std. Vel. Thick Cirrus	FINE
20 21	4"	6.4	B8	15/17/17	640 B8-9 53	Clouds. / Clouded out	

L3

Date Aug 6-7/67 Observer Da-Hu Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
3055	11° 00'	18 52.9	+12 31	G40	Ia0	17	65°	20:29		
3055 89	11° 00'	18 25.8	-12 25	G40	Ia0	17		20:24 ^{68'}	0:40	
3055 90	HD 199892	20 54.8	+18 59	G40	IIa0b	13XL	64°	02:06	02:24	
3055 91	HD 199892	20 54.9	+41 33	G40	IIa0b	13XL		02:32 ²⁰	03:12	
								Clouded over completely		
3059/71	calibration strip wedge			G40	Ia0					
3059/72	calibration strip wedge			G40	IIa0b					
									(G40 - 320)	

Dome Temp. 67

Focus 42.2

Dome Temp.

Transparency Conditions

Poor - Variable

29

2300 - 2400 3.0V

ing Time
EST.

P.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
		4"	10.6	B0I-II			Db-OB Program #23	
01:43							Clouds 2045 - capped	
02:54	-	3-4"	9.9	B1Ib	14/15	640	uncapped at 2:22	
							(clouds 2:40 141-13W)	
02:25W	-	3-4"	5-6		15/30	640	uncapped at 00:08	WEAK
							again	(GUT D. min.)
02:59W	+41 51	3-4"	6.0	B9	15/15	640	4 Fuse went	SL. WEAK
							Field checks.	(GUT D. min.)
							Quite thick cloud	SL. WEAK
							throughout	

for plates: 30581, 30584, 30585, 30589

D 19/73°C / 15 Aug

for plates: 30582, 3, 30586-30588, 30590, 30591

Temp / 22°C / 15 Aug

25

Date 11/12 Aug 1957 fri/Sat Observer DL / G-46 Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
45572	BD +11°46'24"	10 ^h 23 ^m 12 ^s	-11° 16'	GVO	JaD	17	62°	20 26	20 29	
529-1513								0042	0430	
								640 - 400		
								2CH - 350		

Dome Temp.

Focus ...

Dome Temp.

Hour Angle
End

Dome Temp. ... 58.0

Focus ... 42.1

Dome Temp.

Transparency Conditions ... Cool. Some cloud at 2030

26

ing Time
E.S.T.

P.M.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

POWER

REMARKS

Quality

03:00W

- 11° 11'

2-3"

11.3

09.5T

16/17/16

640

DB-OB Program #21

windy at 20°-30°, seeing 4-5"
(+ low altitude)

Exposure meter was
aligned by Ri-Ea.

4510 W/C.

slit left uncovered (Re)

27

Vistors. Go, St, W ~ 180

Date Sat Sun Aug 12/13 Observer Go / R. 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.E.
30593	Uruu Delp.	20 ^h 20.8	+5 ^o 59'	3A0	CC 00	13		22 30	22 35	A
525-1-20								2315	0440	
								2000 = 4:55		
								0440 = 0:00		

Dome Temp.

Transparency Conditions *Photometric*

28

Focus

Dome Temp. *56*iding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>0050E</i>	<i>+19°04'</i>	<i>0</i>	<i>5.6</i>		<i>15/15/</i>	<i>510</i>	<i>L. STAR</i>
						<i>Photometric all the way.</i>	
						<i>Spectrograph left uncovered (Db)</i> <i>(Dust cap not on)</i>	

37

Date *Mon - Tues Aug 14/15, 1967* Observer *Db-Gs/SJ* Julian 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.
30595	-12° 5083	18 25.8	-12° 25	640	IaD	17	67°	20:23	23:43	C
527-1617	NEC 400, 752							23:45	04:16	
								6:10 = 3:10		
								204 = 4:31		
30595 T1	calibration strip wedge			640	IaD					

Dome Temp. 56°

Transparency Conditions *Clouds + haze, sky at sunset*

Focus

Dome Temp. 60

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03:18W	-19:19	2-3"	9.9	BIB	17/11/17	640 Db-OB Programme #24 <i>Partly cloudy + haze</i>	FINE
for plate no. 30595							
2-197							
* In expansion line 11							

33

Date 15-16 August 1967 Observer Mise - Del Julian Day 2454100
J. T. van - Weid 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.
30596	NOVA DEL.	20:37.7	+18° 48'	G40	Iaob	13XL	71°F	20:28	20:46	A
30596 F1	focus test in in / out			G40	Iaob	13				
30597	HD 171344	18 29.3	-13° 57'	G40	IaO	20	68°F	21 ^h 07 ^m	23:57	
30598	NOVA DEL	20:37.7	+18° 48'	G12	IaO	9L		0:12	1:42	C
30599	HD 223094	23:41.5	+28° 09'	G40	IaO	17	66°F	1:54	2:55	A
30600	HD 219749	23: 13.2	44° 57'	G40	Iaob	13XL		3:08	3:38	B
30601	HD 1256	0:11.7	-20° 46'	G40	Iaob	13XL	65°F	3:50	4:20	A
30601 T1	calibration step wedge			G12	IaO					
30601 T2	calibration step wedge			G40	Iaob					

Dome Temp. 70° F

Focus 41.5"

Dome Temp. 63° F

Transparency Conditions POOR

39

Quite Hazy but clear after 21h.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. FILTER	REMARKS	Quality
0:46	A E 2:37	+19° 04'	2-5"	?	?	15/15/15 G40		(Low 1000) WEAK 50% RAD
						5/5 G12		
3:57	W 2:42	-13° 51'	2-3"	9.81	B0.5 III	13/13/10* G40	Db-OB Programme # 22 [Moon at 18h possibly on spectrogram, but at low decl]	L. WEAK
11:42	C N 2: 20	+19° 04'	~2"	?	?	10/10-10 G12	PLATE INTACT!	GUIDING L. WEAK
2:58	W 0:27	+28° 33'	~4"	8.97	K5 III	15-15-15 G40 SSU	FIELD DRAWN	L. WEAK
3:38	W 1:40	+45° 20'	4-2"	6.30	B9 P	15-15-15 G40 B8-B9 (SB)		FINE
20	A N 1:23	-20° 21'	3"-4"	6.4	B8	15-15-15 G40 B8-B9 (SB)		VERY WEAK
for plates 30597, 30598, 30599							D-19 169° E / 17 Aug 67	
for plates 30596, 30600, 30601							Comp. 169° E / 17 Aug	
							Too at right of exp. line at	
							Too at left	
							[*Comparison should be given ~15-15-15 at slit setting 20.]	

Dome Temp. 73°

Transparency Conditions

Very Hazy !!

36

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

FILTER

REMARKS

Quality

~~10-6 30 I-III~~

~~D6-03 Programme #23~~

[No. can't see any
stars in the finder
field]

37

DB

Date Aug 20/21 1967 Observer Go/Ri-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
528-1 to 5								20 ^h 15 ^m	22 ^h 75 ^m	
30602	BD-0°3584	18 48.4	-0° 41	G40	Fa01	<u>21</u>		22 21	00:55	A
30603	HD 212833	22 22.4 29.9	+36 57 05	"	IIaOb	13	58	01:43	01:50	A
30604 A	HD 213947	22 33	+26 22	"	Ia0	17		02:08	03:10	A
30604 B	"	"	"	"	"	"		03 12	03:36	B
30604 T.	calibration step wedge			G40	Ia0					
30604 TL	"	"	"	"	IIaOb					
	2 ch. plate = 1.05									
	G40 = 4.08									

Dome Temp.

Focus 42

Dome Temp.

Hour Angle
End

for plate

for plate

Dome Temp. 62°F0249 GUIDER FIXEDTransparency Conditions Clear

38

Focus 42

Covers at ~ 2140 Clear again at ~ 23h

Dome Temp.

0130 EXIMTR Aligned

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
		7"					Photometer lights repaired Clouds	
03h 40W	-0° 35'	3-4	9.96	08	15/15/15	G40	DB-09 #12 [10-15 minutes left] through haze	* OK WEAK 1200/1100 OK/FAVORABLE
0103W	37 17	5"	6.12	B2	45		B-STD VEL. EX. MTR CHECK 100/5	* FINE
0215W	+26 27	3"	8.93	K4 III	15/15/15	G40	SEC. STD. VEL. EX. MTR. CHECK 400/93	* FINE
0241W	"	2-3	"	"	15/15/15	"	" " " " " " " 400/46	SC. W/FAK

for plates 30602, 30604A, B.
for plate no 30603

D-19 / 70°F / 20 Aug.

"

* TOO MANY FINGERPRINTS ON
PLATE!

Ia0 Box 1

IIa0b Box 2

39

Date Aug 22/23 1967 Observer Mse/Dd Go Julian 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.
529-#36	NGC 6633, 747, 752							2016	0425	

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

41

L

Date Aug. 23/24, 1967 Observer G.S., G.O. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30605	NOVA DEL	¹⁹⁶⁷ 20 40.8	¹⁹⁶⁷ 18 59	G12	I.A.O.	9L		20:15 ²⁰	20:55	C
530-15 32								21:05 ^m	09 ^m 20 ^s	
30605-1	calibration stars wedge			G12	I.A.O.					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

187E

Dome Temp. 57°F

Transparency Conditions Very good

42

Focus

Dome Temp. 50°F

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality	
1 57 E	19 06	2	?	?	10/10/15	G12		FINE	
		4"							
for plate no 30605					D-19; G9 ⁶ 24 Aug 1957				

Dome Temp. 62°

Focus

Dome Temp.

Transparency Conditions

Haze but clear. Clouds on West, then East horizon / INTERMITTENT CLOUDS AFTER MOUNT

* AUTO-GUIDER DRIVES IN T DIRECTION ONLY

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
2:52	$-13^{\circ} 22'$	3-4	10.58	BOE-III	16/16/16	410 Db = 08	Programme # 23 [Quite hazy at times. Image very faint.]	OK
							Clouds.	
3:34	$+19^{\circ} 05'$	3"	?	?	10-10-10	*	Thick clouds after 2:15 * PLATE IN 2 PIECES 100/88	(GOOD) FINE
							I 60 G40: Box # 1	

45

Date Lincoln Aug 25, 26 Observer 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.
30608	NOVA DEB	20 40.8	18° 59	G40	Foob	17	67	19:52 ⁶	20 ^h 03	A
30609	-13° 5166	18 52.9	-13° 31	G40	IaO	23 ^(slightly short)		20:10 ¹⁰⁹	23 ^h 48	B
30610	NOVA DEB	20 40.8 ¹⁹⁶⁷	18° 59 ¹⁸⁶⁷	G12	IaO	9xL		23:57 ³²	01:00	C
30611	HD223094	23 41.5	+28° 09	G40	IaO	17	63	01:15 ³³	02:20	A
30612	HD 4388	00 41.1	+30° 25	G40	IaO	17		02:30 ³⁸	03:45	B
306 12	T1 calibration strip wedge			G40	IaOb					
306 12	T2 calibration strip wedge			G12	IaO					

Dome Temp. 64

Focus 42

Dome Temp.

Transparency Conditions

Thin haze - very low, 46
Clear above the haze
Clouds from sunset 02:00

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 03	02 ^h 34E	+12° 07	3	>5 ^m	?	5/15/15 G40	hosa Del	VERY WEAK
3 ^h 48	02 ^h 49W	-13° 20		10.5	B0II-III	15/15/15 D6-OB	Programme #23	[Very faint image during the last hour due to haze + low altitude.] WEAK
01 00	02 ^h 16W	+19° 05	3	?	?	9/10 G10	Mosa Del	Capped finally. FINE
2 20	00 ^h 34W	+28° 32	3	8.97	K5 III	15/15/15 G40	SEC. STD. VEL.	FINE
3 15	01 ^h 00W	+30° 47	4-5	3.80	K3 III	15/15/15 G40	SEC. STD. VEL. haze + clouds	FINE
for plate no 30608							D-14 / 71° E - 12 Aug	
for plates 30606, 30607, 30609-12							D-14 / " 125 Aug	
	24	15.5						
	23	44.1						
	24	411						
					1 256			
							IIa06 - Box 2	
							Ia0	=3

47

 1st: 82
 Visitors (Rm, Bn) 2nd: 67

Date SAT/SUN Aug. 26/27 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.

Dome Temp

Focus

Dome Temp

Hour Angle
End

49

Date Nov - Dec Aug 28-29/67 Observer P. D. B. Bd ⁶ Julian 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.
30613	BD -13° 5166	18 ^h 52.9	-13° 31	G40	Ia0	24 ^(sl.)	64	20:10	23 ¹⁰⁴ :38	A
532-1618	NA 72, 770							23:50	01:40 ^m	
30613	T. calibration	step wedge		G40	Ia0					

Dome Temp. 58°F

Transparency Conditions clearing up.

50

Focus 42

Dome Temp. 58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 ^h 50	-13° 20	3-4"	10.5	B05	15/15	G40 Db-OB Programme #23 Box #1 Track with 2nd channel (A) [-] Dark current	
for plate no 30613						2-19/29 Aug	

S1

Date *Thurs Fri Aug 30 Sep 1/67* Observer *Go Ri 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.	Hour Angle End
30614	NOVEL DEK	20 40.8	118 59	G40	#006	17	58	19:50 ⁸	20:06	A	2:5E
533-1644								20:40 ^m	04:35		
30614 T1	calibration step wedge			G40	Talb						

Dome Temp. 54°K Transparency Conditions *clear*

52

Focus 42

Dome Temp. 50°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^h 15 E	+19° 05'	5-6	7"		15-15-15 640		STRONG
		6"				Single channel only $1\frac{1}{2}$ volt. = 800v	
						for plate no 30614	
						Acuf 66° / 1/4" 8/67	

SS

Go Far Jn Visitors 156 & 1/2

Date SAT/SUN Sept 2/3 1967

Observer Hb - 65

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle Est
30616	NOVA DEL.	20 ^h 40.8	-18° 59'	G13	Ind	9L		21:51	22:40	C	0:00
30617	"	"	"	G40	Dal	13	57°	22:57	23:11	A	0:00
30618	"	"	"	"	"	13L		00:35	00:41	B	0:00
30619	"	"	"	"	"	"		00:43	00:46	C	0:00
30620	HD 222847	23 39.0	-18 10	"	"	13		1:08	1:35	4	0:00
30621	HD 11291	01 45.8	+50 38	"	"	"		1:46	1:55	B	0:00
30622	HD 12260	01 35.3	+60 32	"	"	"		2:18	02:25	C	0:00
30623	HD 11905	01 51.9	+41 12	"	"	"		2:46	03:15	H	0:00
30624	HD 9138	01 24.9	+05 38	"	"	"		3:44	03:38	3	0:00
30625	HD 12029	01 53.0	+18 51	G40	Ind			03:48	03:57	C	

Dome Temp.

Focus

Dome Temp.

Dome Temp. 54.0 F

Focus

Dome Temp.

Transparency Conditions

Good at start
1100 EST - almost overcast - thick Ci
Poor after 0.20

56

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
0:30 W	+19° 05'	2	2	2	10/10	G12	Broken - 3 pieces.	
0:59 W	+19 05	"	"	"	15/15/15	G40	focus 42	CLOUDS LWEAK
2:30 W	+19:05	"	"	"	15/15/15	G40		FINE
2:35 W	+19 05	"	"	"	15/15/15	G40		SL. WEAK (partially)
0:22 W	-18:22	2-3	5.2	B8	15/15/15	G40	B8-9 (SB) - Clouds	800 X (58) OK
1:25 E	+50 41	"	5.6	B9	15/15/15	"	B8-9 (SB) "	800 X (60) FINE
00:36 E	+60 55	2-3	6.6	B8	15/15/15	"	B8-9 (SB) "	800 X (60) FINE
00:12 E	+41 33	2	5.5	B9	15/15/15	"	B8-9 (SB) "	800 X (70) FINE
00:39 W	+06 08	"	6.2	K4	15/15/15	"	Std. Vel.	800 X (100) FINE
			5.96	K2	15/15	"	Secondary Standard Star Stopped by clouds.	

N.B.

Declination motor refused to work on several occasions.

Dome Temp. 60

Focus 42

Dome Temp.

Transparency Conditions

58

Start delayed by clouds.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
?	19 05	1	?	?	15-15-15	G40		800/76 OK
1 51 W	+28 11	"	9.06	58 III	15-15-15	"	Sta. Velocity some haze	800/80 L. WEAK
0 04 W	-11 44	0	5.87	B9	15-15-15	"	B9-B9 sp bin	800/50 L. WEAK
0 06 W	+45 21	0-1	6.30	B9A	15-15-15	"	" "	800/50 OK
0 02 W	-18 22	0	5.21	B8	15-15-15	"	" "	800/50
0 59 W	-06 28	0	6.3	9K4	15-15-15	"	Sta. Velocity	800/50 L. WEAK
0 33 W	-00 31	0	7.5	K0	15-15-15	"	" "	800/100 L. WEAK
0 45 W	+29 47	1	6.76	K2 III	12-12-12	"	See Sta. Velocity	800/100 L. WEAK

59

Date 4-5 Sept. 1967 Mon-Tues Observer R.G. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
306 33	Nova Del.	20 ^h 40 ^m .8	+15° 59'	G40	IIa06	17	66	19 46	19 53	A
306 34	"	"	"	"	"	"		19 57	20 03	A
535-11038								20 25	4:45	
306 34 T1	calibration step wedge			G40	IIa0					
306 34 T2	"	"	"	G40	IIa06					
306 34 T3	"	"	"	G40	IIa0					
306 34 T4	"	"	"	G40	IIa06					
30034 T5	"	"	"	G12	IIa0					

Dome Temp. 64°F

Transparency Conditions

Good - Poor

60

Focus 42

Dome Temp. 50°F

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Title	REMARKS	Quality
0211E	+19° 06'	3	25.5		15/15/15	AKO	400/50	STRONG
0201E	"	3	"		15/15/15	"	400/35	OK
for plates	30625 - 30627						Temp 168°F	11 35/8
for plates	30617 - 30624						Temp 168°F	"
for plates	30628 - 30632						Temp 166°F	4
for plates	30633, 34						Temp 166°F	"
for plates	30615, 30616						D-19/	15 Sept 1907

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Date Tuesday April 5, 1967 Observer Incl - 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.
30635	NOVA DEL	20:37.7	18° 41'	G40	IIaD	13XL	67°F	19:51 ³	19:57	A
30636	"	"	"	"	"	"		19:59 ⁶	20:10	B
30637	"	"	"	G-12	IIaD	9XL		21:31 ⁸ (GRATING COVER)	22:31	C
30638	HD 204867	21:26.3	-6° 01'	G-12	IIaD	9L	64°F	22:38 ¹⁹	23:16	C
30639	HD 199592	20:54.9	41° 33'	G-40	IIaD	13	64	23:36 ⁶	23:44	A
30640	HD 209819	22:01.0	-14° 21'	G40	IIaD	13		23:50 ³	23:55	B
30641	HD 216494	22:48.2	-12° 09'	G40	IIaD	13		23:58 ¹⁶	0:14	C
30642	HD 223311	23:43.4	-6° 56'	G40	IIaD	13		0:18 ⁷	0:50	A
30643	HD 12029	1:53.0	28° 54'	G40	IIaD	17		1:19 ⁹	2:39	B
30644	HD 219749	23:13.2	44° 57'	G40	IIaD	13	63°F	2:50 ¹²	3:07	C
30645	HD 11905	1:51.9	41° 12'	G40	IIaD	13		3:11 ¹²	3:54	A
30646	HD 9138	1:24.9	+5° 38'	G40	IIaD	13	63°	3:42 ¹²	4:06	B

Dome Temp. 66°F

Transparency Conditions *clear*

62

Focus 41.5

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality	
2:04	+19° 06'	4"	?	?	50	G40	41.5 (1*)	800/80 L. WEAK	
2:51	"	"	"	"	15-15-15	G40	LEFT SIDE OF EXP. BOX #2	800/160 FINE	
3:03	"	"	"	"	10-10-10	G12	RIGHT SIDE OF EXP. BOX #2	400/413 FINE	
3:16	-5° 40'	5"	3.73	G0-16	15-15	G12	Right Std. Vel. (2 PIECES)	200/400 SL. WEAK	
3:44	41° 52'	6"	6.0	B9	15-15-15	G40	B8-B9 (SB) same from	400/35 LIGHT STREAK	
3:55	-13° 59'	6"	4.3	B8	50	G40	B8-B9 (SB)	400/35 SL. WEAK	
4:03	-11° 45'	6"	5.87	B9	15-15-15	G40	B8-B9 (SB) (2*)	400/35 WEAK (GAINING) SL. WEAK	
4:16	-6° 31'	5"	6.3	GK4	15-15-15	G40	Std. Vel.	400/75 SL. WEAK	
4:36	+29° 15'	?	8.96	K2 III	15-15-15	G40	Secondary Std. Vel. (BLEW SPURSE)	800/175 SL. WEAK	
4:51	45° 24'	5"	6.30	B4p	15-15-15	G40	B8-B9 (SB) from 41.0	400/40 SL. WEAK	
5:01	41° 34'	5"	6.86	B9	15-15	G40	B8-B9 (SB)	400/40 SL. WEAK	
5:18	+6° 02'	1"	6.2	K4	15-15	G40	Std. Vel. MAY BE FOGGED	400/70 SL. WEAK	
BANDS PHOTOS IN EXP. #1							<div style="border: 1px solid black; padding: 5px;"> <p><u>CARRY:</u> (G40 CAPPER) THE TELESCOPE IS OUT OF (*) BALANCE IN DEC.; - IT FALLS UNUSUALLY CLATTERED!!</p> </div>		
BANDS PHOTOS IN EXP. #2									
*2: AUTO WIPER MOTOR STOPPED.									

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Date Sept 6 (cont'd) 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.	P.H.
30647	HD 22484	03 ^h 31. ^m 8	+00° 05'	G40	IIaO	13		04:28	4:34	A
30648	HD 26571	04.070	22 09	G40	"	"		04:40	4:53	C
30648 F1	focus test in in / out out			G40	IIaO	13				B
30648 T1	calibration step wedge			G12	IIaO					
30648 T2	calibration step wedge			G12	IIaO					
30648 T3	calibration step wedge			G40	IIaO					

Dome Temp.

Transparency Conditions *EXCELLENT*

69

Focus

(cirrus at dawn)

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
134	H=0:20	00° 23' 5"		52	F9	15-15-15	Std Vol. 400/70	FINE
133	C=0:35	27° 23' 4"		611	B8	15-15-15	400/40	SL. WEAK V. SL. C TO RED (WEAK)
						5/5 a-12		
for plate no 30638							0-10/22° E. 6 Sept	
for plates 30615, 30616, 30637							"	
for plates 30635, 6, 30639-41							0-10/167° E. 7 Sept 67	

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Date Sept 6-7 Wed - Thurs. 1967 Observer Hb Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30649	Nova Del	20 ^h 40 ^m 8	+18° 59'	612	IaO	9L	68°F	19 52 ³²	20 55'	C
30650	HD 186711	19 41.5	+10 22	"	IIaO	9L		21 10 ²⁰	21 49	C
30651	HD 206778	21 39.3	+9 25	"	IIaO	9L		21 59 ²⁵	22 29	C
30652	Nova Del	20 40.8	+18 59	640	IIaO	13L	66°F	22 44 ⁷	22 57	A
30653	"	"	"	"	"	"	"	23 00 ⁴	23 08	B
30654	"	"	"	"	"	"	"	23 10 ³	23 16	C
30655	HD 204924	21 26.8	+27 56	"	IaO	17	"	23 39 ³⁷	24 07	A
30656	HD 5328	03 41.1	+30 25	"	"	"	"	"	"	"
30656	HD 14969	02 23.6	+29 47	640	IIaO	17		02 26 ²⁷	03 20	B
30657	HD 22484	03 31.8	+00 05	640	IIaO	17		03 28 ⁵	03 39	C
30658	HD 26162	01 03.3	+19 21	"	"	13		03 46 ¹⁴	04 14	A
30659	HD 28471	01 24.2	+10 18	"	"	13L		04 20 ³	04 46	B
30659T1	calibration step wedge			612	IaO					
30659T2	calibration step wedge			612	IIaO					
30659T3	calibration step wedge			640	IIaO					

Dome Temp. 6.6°f

Focus

Dome Temp.

Transparency Conditions

Fair - quite hazy then clearing
Photometric conditions most of night.
0315 Much fog over site. Master building up cloud.

NY MISSING

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	F _{lit}	REMARKS	Quality
0100W	+19°06'	2.4"	-	-	10/10/10	612	Left side (top) of exp. plate box 1 large piece + 1 small piece	FINE
0049W	+10°36'	3"	4.15	K3III	10/15/15	612	Bright Std Vel. auto guide in now working at time	SL WEAK
0028E	+09°48'	3"	3.98	K2IIb	15/17/15	612	"	SL WEAK
0102W	+19°06'	~6"	-	-	17/17/17	610	Focus 42.2	FINE
0113W	"	"	"	"	17/17/17	"	"	FINE
0121W	"	"	"	"	17/17/17	"	"	SL WEAK
0322W	+28°16'	4"	9.64	K1II	15/15/15	"	(field drawn) Sec. Std Vel.	FINE
			9.80	K3III		"	Double star??	
0102W	+09°46'	3"	8.96	K3III	8/8/8	610	Sec. Std Vel. (field drawn)	FINE
0108E	+10°23'	3"	5.2	F9	17/17/17	"	Std Vel.	FINE
0107E	+19°35'	3"	6.1	K1	17/17/17	"	Std Vel.	SL WEAK
0107E	+10°31'	3"	6.5	B9	17/17/17	"	B38-9	SL WEAK
10x plates 30649, 30655, 30656							2-4/12 E 2.5x4	
10x plates 30650, 30651							"	
10x plates 30647 - 30648, 30652 - 30654, 30657 - 30659							Complex? 2/7/2x4	

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Date *Thurs. Sept 7-8 1967* Observer *L-Fa. Go.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
30660	Nova Del	¹⁹⁶⁸ 20 40.8	¹⁹⁶⁷ +18 59	G 12	I A ₀	9 L	70	19:56	20:52
53b-1 to 28	^{W6C-352} Nova Del; W6C-352							21 ^h 10 ^m	04:00
30660 T1	calibration step wedge			G 12	I A ₀				

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Dome Temp. 68

Transparency Conditions Haze

Focus

Dome Temp. 59

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Film	REMARKS	Quality
20 52	1 01E	19 05	2	?	?	10-10-10	G12	200/208	FINE
04 03			8"					Clouds! Channel A amplifier - mercury aided by gain switch! Red light bulb for order light burnt out.	
								for plate no 30660	
								3-19/67°F / 8 Sept 67	

Dome Temp. 51

Transparency Conditions Clear

70

Focus

Dome Temp. 44

nding Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Ny missing

Dome Temp. ... 53°F

Transparency Conditions ... Good (some ci)

72

Focus

Dome Temp. ... 44

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 19E	+19° 06'	2"-5" 5"	/	/	10-10-10	filler G12 Seeing very bad after 2000 Good night	400/400 FINE
for plate no 30661						2 9/25° 11 Sept 1965	
						12 Sept. 1965	four test (T25)
07B/17A					20/16	15.43	set 1 } spectrum very weak
"					"	15.41	4
"					"	15.39	9
"					"	15.47	2
"					"	15.41	5 } no Fe filler
"					"	15.35	9 } OK
"					"	15.61	2 } best from.
"					"	15.41	2
"					"	15.21	2

73

Date 12-13 Sept / 67 (trans) Observer Hb, Mse, R. Go. Julian Day

(Ri, H, H₂)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30662F ₁	Focus			I25'	103aD	.008				2
30662F ₅	(marked x)					.008		Trans 15.6:		
30663	Nova Del	20 40.8	+18°59'	I25	103aD	.008	16.3°C	19.56	20 16	3
30664	89 Her	17 51.4	+26 04	"	"	"	"	20 23	21 43	4
30665	⊙ Lyr	19 12.9	+37 57	"	"	"	"	21 50	22 44	1
539-153								2305	0500	
30665T ₁	Sky spectra			I25	103aD	.008				1
30665T ₂				"	"	"				4

Dome Temp. 54°F

Focus 15.61

Dome Temp. 49

Transparency Conditions

fair (cirrus in s-w) 79

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	DTB/ITA				30/20	15.81 tilt 23.20 2 set	
						15.61	
						15.41	
	with diffusing screen x 1 filter				24	very weak, something wrong	
	DTB/ITA				20/15	" " " " "	
0116E	+19°01'	~5.5			24	set 2 removed the filter 0-19/65°E	comparison two stars weak very faint
0258 W	+26°03'	~2"	5.8	F2Ja	8-8-8	set 2 MK Std. 2x normal	V-WEAK
W2:36	+38°03'	~2.3	5.5	KoII	8-14-	set 2 * " normal	weak
						* PLATE FELL OUT OF PH. IN 2 PIECES!	
						2, 4, 6, 8, 10, 12 seconds.	weak
						Optics, slit removed & cleaned.	OK (staring?)

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	07B/17A			20/16	15.31	set 2	diffuse + Fe filter <u>in</u>
					15.41		
					15.21		← 5 9 in here
	07B/17A			20/16	15.31	set 2	
					15.26		5
					15.21		9 → 15.23 16.3°C

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Date 13-14 Sep

Observer ^{Ed Go Ch} Nb, Mcb, (Hw), Julian 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.
30666	15 Sgr	18 ^h 09. ^m 3	-20° 45'	I25	103aD	.008	18.5°	19 30	19 35	2
"	"	"	"	"	"	"	"	19 37	19 44	
"	"	"	"	"	"	"	"	19 45	19 48	
30667	Nova Del	20 ^h 40. ^m 8 ¹⁹⁶⁸	+18° 59' ¹⁹⁶⁸	"	"	.008		19 54	20 14	20
"	"	"	"	"	"	"		20 15	20 20	5
540-1 to 45								2040	0500	

Dome Temp. 57°F

Focus 15126

Dome Temp. 52

Transparency Conditions

78

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	-20° 44'	~2"	5.5	OTA	8-8-8	Set 2	
—	"	24"	"	"	8—	Set 5 no comparison. (weak comp)	
48 ^m W	"	"	"	"	—	Set 8 no comparison.	
—	+19° 03'	~2"	5.0	?	8-8-8	Set 3	
17 08 E					5-5-5	Set 7 no comparison	
		4"					

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Date Fri/Sat 15/16 Sept '67 Observer Mr. & Mrs. McL. (H.M.) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30669	16 Sgr	18 09.3	-20 25	I 25	103a0	.008	20.5	19:12 ⁴⁰	19:52	1
30670	χ Aql	19 31.5	-07 15	"	"	"	"	20:00 ⁸	20 08	3
30671	μ Her	17 42.6	+27 47	"	"	"	"	20:18 ²⁸	20 ^h 46	4
"	"	"	"	"	"	"	"	20:47 ¹⁴	21:01	"
"	"	"	"	"	"	"	"	21:02 ⁷	21:09	"
30672	Nova Del	20 40.8 ¹⁹⁵⁷	+18° 59'	"	"	"	20.5	21:12 ¹⁵	21:27	2
"	"	"	"	"	"	"	"	21:28 ³	21:31	"
30672	ν Aql	19 21.4	+00 08							
30673	α Sge	19 35.6	+17 47	"	"	"	"	21:40 ²⁸	22:08	1
"	"	"	"	"	"	"	"	22:10 ¹⁴	22:24	"
"	"	"	"	"	"	"	"	22:25 ⁷	22 32	"
30674	δ Cyg.	19 41.9	+44 53	"	"	"	"	22:36 ²	22:38	2
"	"	"	"	"	"	"	"	22:39	22:40	"
"	"	"	"	"	"	"	"	22:40 ²	22:40	"
30675	HD 190693	20 50.4	+31 56	"	"	"	"	22:		

Dome Temp.

Focus 15.30

Dome Temp.

Transparency Conditions *Hazy* (~ 1 mag at 30")
 1) could not find β equal $\alpha = 1550.4$
 2) HD 183143 look too red
 3) HD 190603
 } *birds feet please*

would someone should break co-ord

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:52	0 ^h 58 ^m W	-20° 23'	0	6.0	09 I	4-4-4	Set 2 1x normal	weak
3:08	0 ^h 08 ^m E	-07° 03'	0-1	5.0	B95 III	4-6	Set 2 1/2x "	good
3:46	2 22 ^m W			4.1	65 IV	4-4-4	set 2 2x "	strong
		+27 45	1	"	"	4-4-4	5 1x "	strong
							set 8 2x	strong
		+19 03		~5.0	?	4-4-4	set 3 1x	strong
	0 ^h 02 ^m W			"	"	6-6	set 7 1/2x	weak
		+18 57		4.30 (6.3)	60 II	4-4-4	set 2 2x	superimposed
			1-2	"	"	4-4-4	set 5 1x	
	4 12 ^m W			"	"		set 8 1/2x	weak
		+45 03		2.9	B95 III	12	set 2 2x	strong
							set 5 1x	strong
	2 15 ^m W						set 8 1/2x	strong

peer in way

weak

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Date 15/16 Sept (Cont'd)

Observer Mr & Mrs M. C. H. / H. C. 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.	
30675	H D 192422	20 09.7	+38 28	I 25	103a0	.008	20.5	22:48 ⁴⁰	23:28	3
30676	61 Cyg A	21 02.4	+38 15	"	"	"	20°C	23:35 ⁴⁰	00:15	4
"	"	"	"	"	"	"	"	00:17 ²⁰	00:37	"
"	"	"	"	"	"	"	"	00:38 ¹⁰	00:48	"
"	"	"	"	"	"	"	"	00:49 ⁵	00:54	"
30677	HR 8752	22 55.9	+56° 25'	I 25	103a0	.008	"	01:00 ⁴⁰	02:00	"
"	"	"	"	"	"	"	"	02:02 ²⁰	02:32 ⁵	"
"	"	"	"	"	"	"	"	02:33 ¹⁵	02:48	"
"	"	"	"	"	"	"	"	02:50 ⁸	03:58	"
30678	HD 13267	02 04.6	+57 11	I 25	103a0	.008	20.3	03:13 ⁵⁰	04:04	2
"	"	"	"	"	"	"	"	04:05 ³⁰	04:37	"
"	"	"	"	"	"	"	"	04:38 ¹⁵	04:53 ^{1/2}	"
"	Focus test						20.5			

Dome Temp.

Transparency Conditions *Jan (hazy)*

Focus

Dome Temp. *57°F*

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0235W	+38°39'		5.9	B05Ib	4-	set 2 draw under field.	$\frac{1}{2} \times$ fine
	0230W	+38°35'	~2"	6.4	K5D	4-4-4	set 2	2x fine
	0252W	"	"	"	"		set 4	1x fine
	0303W	"	"	"	"		set 6	$\frac{1}{2} \times$ fine
	0308W	"	"	"	"		set 8	at work
	0224W	+56°47'	~2-3"	6.3	G0Ia	4-8	set 2	2x fine
		"	"	"	"		" 4	1x fine
	0311W	"	"	"	"		" 6	$\frac{1}{2} \times$ fine
	0320W	"	"	"	"		" 8	at work
	0115W	57°30'	2-3"	6.2	B5Ia	4-4-4	set 2 Telescope jumping in 'dec'	2x fine
	0148W	"	"	"	"		" 4	1x fine
	0205W	"	"	"	"		" 6	$\frac{1}{2} \times$ fine
	0715	/17A			20/16		9 from 15:30 (15:49-.19)	at work

85.

Go, H^{ms} Jn

160 minutes of Her

Date 16/17 Sept 1967 Sat/Sun Observer Hb Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
30679	Nova Del.	20 40.8 ¹⁵⁶⁸	+18° 59'	I25	103aD	.008	21°C	21 17	21 32	3
"	"	"	"	"	"	"	"	21 32+	21 37	"
30680	HD 190603	20 00.7	+31 56	I25	103aD	.008	21.5°C	21 46	22 16	4
"	"	"	"	"	"	"	"	22 16	22 32	"
"	"	"	"	"	"	"	"	22 32+	22 38	"
30681	13 Cap	21 51.5	+56 08	I25	103aD	.008	22°C	22 49	23 50	"
"	"	"	"	"	"	"	"	23 51	00 16	"
"	"	"	"	"	"	"	"	00 27	00 42	"
30682	ε And	22 13.2	+02 42	I25	103aD	.008	22°C	00 56	01 04	5
"	"	"	"	"	"	"	"	01 05½	01 11½	6
"	"	"	"	"	"	"	"	01 13	01 17	4
"	"	"	"	"	"	"	"	01 17+	01 19	1½
30683	η Peg	23 20.1	+22 51	I25	103aD	.008	22°C	01 32½	01 40	4
"	"	"	"	"	"	"	"	01 47	01 54	4
"	"	"	"	"	"	"	"	01 57	02 01	4

Dome Temp. 64°F

Transparency Conditions Fair (Photometric after 1000) 86

Focus 15.50 - 0.19 = 15.31

Dome Temp.

Field for HD 207673 required

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 15W	+19° 02'	~2"-3"	~5	-	4-4-4	Set 2	MK Std	strong
						12	" 5	fine
01 36W	+32° 08'	~2"	6.2	B15Ia	4-4-4	Set 2	Only star in field as bright as 6 ^{mag} but appears too yellow(?). Wrong Star	fine
	"	"	"	"	"	" 4		fine
	"	"	"	"	"	" 6		fine
01 20W	+56° 28'	~1"-3"	6.5	B8Ib	4-4	Set 2		fine
						4		fine
						6		fine
00 50W	+43° 05'	~2"	4.2	B2V	4-4-4	Set 2		strong
						4	"	strong
						6		fine
						8		fine
01 46W	+23 12	~2'	~5	F8IV	4-4-4	Set 2		strong
						5		fine
						8		fine
							2x	fine
							1x	fine
							2x	strong
							1x	fine
							1/2x	fine

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Date 17 Sept ^{cont.} 1957 Sun Observer Hb. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30684	V And	05 44.3	+40° 32'	I 25	103a0	.008	21.8c	02 10	02 32	4
"	"	"	"	"	"	"	"	02 31	02 40	"
"	"	"	"	"	"	"	"	02 41	02 44	"
30685	HR 483	01 35.7	+12 07	I 25	103a0	.008	21.0	02 55	03 05	"
"	"	"	"	"	"	"	"	03 06	03 12	"
30686	HD 12953	02 01.7	+57 57	I 25	103a0	.008	21.0c	03 52	04 32	"
"	"	"	"	"	"	"	"	04 32	04 52	"
"	from test						21.0c			

Dome Temp.

Transparency Conditions 0200: some cloud in S and SW 88

Focus 1.5' 50-0.19 = 15.31

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 4-4-4	REMARKS	Quality
01 09 W	+40° 55'	~1-2"	4.4	B5V	4-8	Set 2 2x	strong
			"	"		" 5 1x	strong
			"	"		" 8 1/2x	strong
01 10 W	+42° 26'	~2"	5.6	G2V	4-4-4	Set 2 Thick Cirrus west. 1x	strong
			"	"		" 5 Near-completed cloud cover (C ² C _c)	strong
01 51 W	+58 15'	3"	5.9	A1Ia	4-4-4	Set 2 2x	weak
	"	"	"	"		" 5 1/2x	fine
	073/TA				20/16	" 8	center to mid

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Date *Mon Sept 18-19 1967* Observer *L-Hol-^{Go} Jr* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30687	<i>16 Seg.</i>	18 09.3	-20 25	I 25	103a0	.006	+21.0	19 14	19 40	3
30688	<i>β Dra</i>	17 28.2	+52 23	"	"	"		19 49	19 50	4
	"	"	"	"	"	"		19 51	19 53	"
	"	"	"	"	"	"		19 53	19 57	"
30689	<i>Nova Del</i>	20 40.8	19 59	"	"	"		20 11	20 11	1
	"	"	"	"	"	"		20 18	20 32	"
542-14592			1900					20 51	0455	

Dome Temp. 66

Focus 15.32

Dome Temp. 60

Transparency Conditions

90

WATER IN Batt.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 58 ^m W	-20 21	0	6.0	097	4-4-4	set 5	wrong star weak
	+52 18	0.1	2.87(M)	G2 II	12	set 2	l weak
			"	"		set 5	fine
1 ^h 59 ^m W			"	"		set 8	strong
	+19 03		5.0	?	12	set 2 1/2	fine
0 23E		2	"	"		set 7 1/2	strong
		4"				Need typing tape for printer, red bulb for light by printer, and loop initially in crop head A	

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Date Tues Sep 19.00 / 67 Observer ^{Hd}
_{Ny}
_(Ed) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
30690	S Cyg	19 41.7	44 53	3-25	103a0	008	21.5	21 06	21 07	2
								21 10	21 12	
								21 13	21 17	
30691	HD 3143									
30691	α Aps	19 35.6	17 47	"	"	"		21 55	21 59	
								22 00	22 02	
								22 03	22 04	
								22 12	22 29	
30692	Torus Del	20 00.7	18 48	"	"	"	21.2	22 37	22 40	
								22 41	22 48	
								22 48	23 10	
30693	S Cep	22 07.4	45 42	"	"	"		23 23	23 26	1
30694	4 Lac	22 20.5	48					23 27	23 43	
30694	4 Lac	22 20.5	48 52	"	"	"	21.4	23 51	23 55	
								23 56	00 04	
								00 06	00 22	

Dome Temp. 63 F.

Transparency Conditions

Focus 15.32

Dome Temp.

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Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+45 04	1	2.9	B9.507	12	MK 17	weak
						-		fine
	11 07					-	reared.	strong
		+17 55	² (=2")	^{mv} 4.30	G07	12	MK 17. set 1	nothing
							" 4 1/2	weak
							" 6 1/2	weak
							" 9	weak
		+19 03				12	set 1	nothing
						12	" 5	nothing
						4.4/4	" 9	weak
			4"	5.0	K126	4-8	set 1	weak
	W 1 29	+58 42				-	" 5	weak
								weak
								weak
	W 1 35	+49 19					set 1	weak
							" 5	weak
							" 9	fine

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Date Wed Sep 20 1967 Observer Ri 8d Julian 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.
30695	110219134	23 08.5	+56 37	I-25	103a0	1008	21.6	00:30	01:10	3
								01:11	02:25	
30695F ₁	110219134						21.5			
30695F ₂	Focus test				103a0	1008	10.6c			2
"	"				"	"	"			"
"	"				"	"	"			"
30695F ₃	Focus test						11.0c			1
"	"						"			"
"	"						"			"

Dome Temp.

Transparency Conditions *hazy and cloudy*

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Focus

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			6.72	K3II	4-4-4	set 1 $\frac{1}{2}x$	
102:49	+56°59'				—	" 5 Focused in at 22:25. 1x	
						15:35	
			OTB/ITA		20/16	set 1 - set 5	
						Two loaded and spotted in w/ plate holder	
			OTB/ITA		20/16	set 2 focus 15.36 - .19 = 15.17 best	
					" 5	15.32 - .19 = 15.13 -	
					" 9	15.28 - .19 = 15.09	↑ worse
					set 2	15.09	ctami
					5	15.40	OK
					9	15.30	OK

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Date Fri/Sat 22/23 Sept 1967 Observer H6 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.F.
30696	Nov Del.	20 40.8	¹⁹⁶⁸ +18 59	I 25'	103aD	.p08	11.0c	20 36	20 38	1
								20 40	20 44	"
								20 45	20 55	"
30697	α Sge	19 35.6	+17 47	I 25'	103aD	0.008	11.0c	21 06	21 16	2
"	"	"	"	"	"	"	"	21 17	21 42	"
30698	α Del	20 35.0	+15 34	I 25'	103aD	0.008	"	21 48	21 50	3
	"	"	"	"	"	"	"	21 53	21 57	"
	"	"	"	"	"	"	"	21 55	22 07	"

Dome Temp. 45°F

Focus 15.40

Dome Temp.

Transparency Conditions

96

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0015E	+19°04'	4"	4.6	—	12	Set 2	
						5	
						9	
0125W	17 56	3"	4.8	60II	4-4-U	Set 2	1x Normal. 100/(30) FINE
	"	"	"	"	"	5	2x Normal. 100/68 (STRONG)
0100W	+15 48		3.7	B9V	4-8	Set 2	1x Normal 100/18 FINE
	"	"	"	"	"	5	2x Normal 100/47 (STRONG)
	"	"	"	"	"	9	100/56

GERRY - After changeover to photometer the telescope became very much unbalanced in deco. Placed a half-weight at upper end of tube but still appears slightly unbalanced.

D. Hulse

NB Spotter lamp and distance between lamp + box changed
 on Sept 25, 1967

Date Sept 25-26 1967 Observer M. S. - H. (G10) Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
30699	NOVA DEL	20.37.7	18° 45'	I 25	103a D	.008	11.1°C	19:23	19:28 ⁵	2
"	"	"	"	"	"	"	"	19:29	19:41 ¹²	2
"	"	"	"	"	"	"	"	19:42 ^(4 min)	20:02 ³⁰	2
S45-150 16	Novae H60053							20:42	01:55	
30700	HR 483	0135.7	+4207	"	"	"	11.7	01:30	01:40 ¹⁰	2
"	"							01:42	01:48 ⁶	
"	"							01:47	02:15 ²⁶	
30701	HD 12753	0201.7	+5757	"	"	"		02:24	02:40 ¹⁴	3
"	"						11.7	02:43	03:32 ⁵²	
"	Focus Test			OTB						

Dome Temp. ... 52°F

Focus 15.40 (NOT CHANGED) [15.41]

Dome Temp. 76

Transparency Conditions

0130 Some Clouds

0200 Seeing Var. Telescope Unusable

0230 THRU THIN CLOUDS

0330 VERY POOR

102

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:12	E 1114	19° 02'	2"	?	?	12	set 2	100/134
01:41		"	"			12	set 5	100/230
01:12		"	"			4-4-4	set 8	
			8"				cloud puff. Dome lights which have burnt out have still not been replaced.	
03:00	+42 26	2"	5.6	G2V	12	Set 2	(1x) 10 ^m	20/36
						—	" 5	10/9
03:55W						4-8	" 9	10/37
03:41W	+58 15	5"	5.70	A1 Ia	4-8	" 2	(1/2x)	10/10
03:12W						4-4-4	" 5	10/20
						20/16	" 9	

All exposures are about 3x what was desired.

Try 10/6 for normal exposure, 10/4 early type

103

Date ^{Tues} ~~Wed~~ Sep 26-27/67 Observer Nd ~~Rd~~ - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30702	15 Sep	18^h 09.3^m	18 093-202	103aD	008	17.5	18 40	19 10	4	
30702	V Aql	19 21.4	+0 08	"	"	"	+18.0	19 16	19 30	1
30702-1	From Test							0713		

Dome Temp.

Transparency Conditions

Poor

109

Focus 65.4.6.

Dome Temp.

Ending Time
EST.

9.10

9.30

2

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 100	20 29	1	6.0	O9V	4-4-4	Mk std. net 5 some light clouds	10/5
W 008	+0 18	1	5.2	F ₂ IB	4-4-4	Mk std. net 5	10/14
					20/16	Trouble with dec clamp + ball race L came up + found trouble with clamp. Clouds anyway, so left repairs until tomorrow.	fine D.U. 51/2 6.20 4.12.8.
						Note for Hor. N button on dec handset not working. FIXED W for dust turn off spot heat??	

705

Date 12 Oct. Sun. Mon 1967 Observer Hb, Hk / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30703	β Aql	19 ^h 50.4 ^m	+06° 09'	I 25	103a0	.008	12°C	19:08	19:15	2
"	"	"	"	"	"	"	"	19:15 ²	19:20 ²	"
"	"	"	"	"	"	"	"	19:21	19:24	"
"	"	"	"	"	"	"	"	19:25	19:26	"
30704	HD 183143	19 23.0	+18° 05'	I 25	103a0	.008	12.3°C	19:43	20:14	3
"	"	"	"	"	"	"	"	20:14 ²	20:23	"
30705	Nova. Qad	20° 40.3 ¹⁹⁶⁸	18° 59'	I 25	103a0	.008	12.2°C	20:33	20:34	1
"	"	"	"	"	"	"	"	20:35 ³	20:38	"
"	"	"	"	"	"	"	"	20:39 ⁵	20:40	"
30706	θ Lyr	19 12.9	+37° 57'	I 25	103a0	.008	12.1°C	20 55 ³⁰	21 25	2
"	"	"	"	"	"	"	"	21 27 ¹⁰	21 37	"
30707	α Cyg	20 38.0	+44° 55'	I 25	103a0	.008	"	— 21 49 ^{1/2} —	—	3
"	"	"	"	"	"	"	"	— 21 52 —	—	"
"	"	"	"	"	"	"	"	— 21 53 —	—	"
30708	δ Cyg	20 45.2	+48° 48'	I 25	103a0	.008	12.9°C	22 03	22 15	4
"	"	"	"	"	"	"	"	22 15 ³	22 24	"

Dome Temp. ... 50°F

Focus ... 15.42

Dome Temp. ...

Transparency Conditions

Look after 1900
Photometric by 2200

106

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 4-4-4	REMARKS	Quality
0016E	+06°22'	~1-2"	4.6	G8IV	12	MK Std. Set 2	2x normal	STRONG
	"	"	"	"	"	" 4	1x normal	FINE
	"	"	"	"	"	" 6	1/2x normal	SR. STR.
	"	"	"	"	"	" 8	1/4x normal	WEAK
0111W	+18°15'	~2"	6.7	B7Ia	4-4-4	MK Std. Set 2	2x normal 10/10 =	OK
	"	"	"	"	"	" 5	1/2x normal 10/3	OK
0015W	+19°03'					Set 2	1/2 normal	OK
						" 5		OK
						" 8		OK
0233W	+38°05'	~2"	5.4	no II	4-4-4	MK Std. Set 2	2x normal 10/17.5	OK
	"	"	"	"	"	" 5	1x normal 10/34	OK
0132W	+45°10'			1.4	A6Ia	12	MK Std. Set 2	Blank
	"			"	"	" 5	1/4 normal	weak
	"			"	"	" 8	1/2 normal	weak
0150W	+46°00'	~2"	5.2	B3Ia	6-6	MK Std. Set 2	2x normal 10/45	OK
	"	2-6		"	"	" 5	1x normal 10/17	OK

107

Date 1-2 Oct - Sun - Mon 1967 Observer H₂ H₂ / R. Bol Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30708	55 Cyg	20 45.5 ^h	+45° 45'	I 25	103a0	.008	12° 3	21 22 ^{1/2}	22 25 ^{1/2}	4
30709	69 Cyg	21 21.7	+36 14	I 25	103a0	.008	12° 3	22 33 ²⁰	22 58	1
"	"	"	"	"	"	"	"	22 54 ^{1/2}	23 02 ^{1/2}	
"	"	"	"	"	"	"	"	23 03 ³	23 06	
30710	HD 207673	21 45.6	+40 40	I 25	103a0	.008		23 12	23 52	2
"	"	"	"	"	"	"	"	23 53 ¹⁵	00 08	
30711	5 Cep	22 07.4	+57° 42'	I 25	103a0	.008		00 15 ⁵	00 25	3
"	"	"	"	"	"	"	"	00 26 ⁵	00 31	
30712	J Cep	23 35.2	+73° 04'	I 25	103a0	.008		00 40 ³	00 47	4
"	"	"	"	"	"	"	"	00 49 ³	00 52	
30713	HD 15497	02 24.0	+57 15	I 25	103a0	.008	12° 0	01 06 ³⁵	01 41	1
"	"	"	"	"	"	"	"	01 43	02 10	
"	"	"	"	"	"	"	"	02 11	03 31	
30714	K Cet	03 14.1	+02° 00'	I 25	103a0	.008	12° 0	03:39	03:44	2
"	"	"	"	"	"	"	"	03:45	04:10	

Dome Temp.

Transparency Conditions *Excellent*

708

Focus *15.42*

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+46°00'	~3-4"	5.2	33Ia		MK Std Set 8 ^{2x} normal 10/7	weak
	0152W	+36°33'		5.9	30Ib	4-4-4	MK Std. Set 2 2x normal 10/24	strong
	"	"	"	"	"	"	" 5 1x " 10/10	fine
	"	"	"	"	"	"	" 8 1/2x " 10/10	weak
	0228W	+41°02'	1-2"	6.49	A2Ib	4-4-2	MK Std. Set 2 2x normal 10/19	fine
	0244W	+41°02'					" 5 1x normal 10/12	fine
	0239W	+58°03'		5.0	K1Ib	4-4-4	Mk. Std. set 1 2x 1/2x normal 10/91	stationary
	0245W	"					set 5 1x 1/2x normal 10/55	fine (faded)
		+77°26'		4.3	K1Ia	4-8	Mk. Std. set 1 1x normal 10/105	fine
	0137W	"				12	set 5 1/2x normal 10/49	fine
		+57°34'	2-3	7.03	B6Ia	4-4-4	Mk. Std. set 1 1x normal 10/17	weak
							set 5 2x normal 10/37	fine
	0130W		3-4				set 9 1/2x normal 10/10	so on
		+03°15'		5.5	G5Ia	12	set 1 1/2x normal 10/11	weak
	0113W						set 5 2x normal 10/49	strong

1001

Date Mon Oct 2 1967 Observer R. B. J. Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30715	46 Tau	04 ^h 8.2	+07° 28'	I25	103a O	.008	12.0	04:10	04:14	3
								04:15	04:30	
30716	11 Per	04 7.6	+48 09	I25	103a O	.008		04:37	04:40	4
								04:41	04:51	
30717	HD 35600	05 20.8	+30° 07'	I25	103a O	.008	12°C	04:59	05:03	1
								05:04	05:10	
30718	119 Tau	05 26.4	+18 31	I25	103a O	.008	12°C	05:16	05:22	2
								05:23	05:35	
	Focus test	DTB					12°C			

Dome Temp.

Transparency Conditions

110

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
		-07°40'	3-4'	5.32 (mv)	F3Y	12	MK std set 1	1/2 normal 10/10	l weak
4:30	00:43 W						set 5	2x normal 10/35	strong
4:40				5.1	G0Ib	12	MK std set 1	1/2 normal 10/13	normal
5:01	01:04 W	+48°21'					set 5	1 normal 10/40	2x normal
5:03				5.7	B9Ib	12	MK std set 1	1/2 normal 10/5	weak
5:00	00:10 W	+30°40'					set 5	1 normal 10/12	fine
5:22		+18 35	3-4'	4.79 (mv)	M2Ib	12	MK std set 1	1 normal 10/30	sl weak
5:35	00:30 W	"					set 5	1 normal 10/46	weak
						20/16	20ms 15 42	set 9	sl weak

711

(90)

Date Nov - Dec 2-3/67 Observer Rice: Bl/Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30719 *	16 Sgs	18:09.3	20° 25'	^{I-75} P33	10300	.008	14.1°C	18:37	19:37	#1
30720	HD 183143	19:23.0	47° 05'	P33	10300	.008	14.3°C			#2
* tel. reversed										
546 1 to 32	Pleiades. ^{Norm.}							2030	0510	

Dome Temp. $55^{\circ} F$ Transparency Conditions EXCELLENT

1.12

Focus 15.44

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	GAIN 95% COUNTS	Quality
11:37	11:50	$-20^{\circ} 24'$	$2.4''$	6.0	09 II	$4-4-4$	MR STD. set 3	10/12	(642000) WEAK
			$4'' +$	6.69	87 Ia		MR STD set 2	10/	
							Seeing + transparency far too poor for 40 + 300 3 (23 min for count at gain 10)		
							Telescope out of balance in air. No. put another weight on support stick. (2 removed afterwards) 110 volt shock off the telescope mounted on table. This should be covered immediately. It is extremely noisy!!! (Go) Lots of trouble with balance of telescope in air. <u>Weld time trying to balance telescope!!</u>		

Dome Temp. 63°

Transparency Conditions

114

Focus 15.51

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 230	28° 08	5"	5.0	F2	4-4-4	MK. 3rd. Passing clouds	10/42 FINE
			1.4	Ara		" 2nd/1000	WEAK
						" 2nd	SL. WEAK
					12	" 4000	STRONG
			4.2	G8II	12	"	10/10 WEAK
						"	10/5 U. WEAK
E 09	30 07					"	10/20 FINE
			4.0	K20		"	10/5 U. WEAK
						"	10/10 WEAK
					12	"	10/20 SL. WEAK
	+47 20		6.2?	1303		"	10/4 U. WEAK
W/10'					12	" clouds	10/2 WEAK
			6.94	81 II	12	" Full moon + moon having moon check.	10/5
						Trid ~ get 9 sep. but a full of moon. - Jan	

175

Date

Oct 3/4 cont'd

Observer

Hd
Ea
BL

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30725	19 Cep	22 52.1	61 48	I-25	70320	308	25.0	22 11	22 13	2
"	"	"	"	"	"	"	"	22 15	22 27	2
30726	10 Lac	22 34.8	438 32	"	"	"	"	22 45	22 51	3
"	"	"	"	"	"	"	"	22 52	23 02	3
30727	HD 219134	22 08.5	56 37	"	"	"	20.0	23 12	23 33	4
20728	22 And	00 05.1	45 31	"	"	"	20.0	23 42	23 49	"
30728	K Leo	00 27.3	62 26					23 57		

Dome Temp. 56°F

Transparency Conditions VERY POOR

776

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 43 ^m	62 09	2"	5.2	Q22	12	MK STD	10/10	WEAK
0 44 ^m			"	"		"	10/20	L. STRONG
0 45 ^m	38 55	2"	4.7	Q22	12	MK STD	10/12	FINE
0 52 ^m						"	9/24	L. STRONG
0 48 ^m	57 02	2"	6.72	R3I	12	MK STD	SETTING 2	10/20 WEAK
0 49 ^m	45 55		5.5	F2 II		"		15/10 SL. WEAK
			4.8	B12			"	CLOUDED OVER AT 2.35

117

Date Oct 4-5/67 Observer H. F. Rose 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.I.
30727	γ Aql	19 31.4	00 03	5" 10340	008	17.0	18 49 ⁵³	19 49	1	
30730	μ Her.	17 42.6	+27 47	"	"	18.3	19 59	20 01	2	
30731	Nova Delph	¹⁹⁶⁵ 20 40.2	¹⁹⁰⁵ 18 59	"	"	"	20 18	20 19	3	
	"	"	"	"	"	"	20 20	20 23	"	
	"	"	"	"	"	18.7	20 23	20 25	"	
30732	HD 190590	20 00.7	22 55	"	"	"	21 04	22 06	4	
30733	HD 192518	20 10.1	28 23	"	"	"	22 10	22 26	1	
30734	HD 199216	20 50.7	49 09	"	"	19.0	22 32	23 00 ³⁷	2	
30735	HD 195986	20 29.4	42 51	"	"	19.0	23 11	00 27	3	
30736	K Cass	0:27.3	62 22	7-25 10340	008	"	0:53	0:55	4	
30737	ν And	00 44.3	40 32	"	"	"	1:03		1	
	"							1:12	11	
30738						19.0°				

Dome Temp. 56° (21°)
 Focus 15.50 (15.50) 15.51
 Dome Temp.

Transparency Conditions 100% 110
 01:00 EST: DEC. SLOWING WORKS 1/4 OF
 THE TIME

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0059 W	+0020	0 ($5''$)	5.2	F2II	4-4-4	Set 5 MK std 10/40	FINE
0251	+2747	4''	4.1	G5II	12	" " MK " 10/10	sl. weak
				Nova	—	" 2 *Focus Ch. 1m	sl. weak
					12	" 5 3m	ver. wk
0028 W	+19 05	5''			—	" 9 10m clouds	ext. wk
0237 W	+23 09	5''	6.4	A3	4-8	" 5 F*	20/20 clouds sl. weak
0248 W	+28 37	5''	5.1	A3	6-6	" 5 F*	10/12 better sl. weak
0242 W	+49 25	5''	6.94	B1II	4-4-4	" 5 MK std 20/12	very weak
0440 W	+43 06	5''	6.41	B3	4-4-4	" 5 F*	20/24 some clouds sl. weak
1100	$62^{\circ} 46'$	3''	4.3	B1II	12	" 5 MK std 10/6	EXT. WIND COMP weak
	40 55	2''	4.4	B5II	12	" 2 MIT " 10/8	sl. weak
0058 W	" "	"	"	"	12	" 5 MK " 10/6	sl. weak
					2	" " cloud.	EXT. WIND COMP

I 12 1/2. tilt = 20.35', focus 12.66

Dome Temp.

Transparency Conditions

720

Focus

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
OTB/17A			8/5			focus 12.86 Set 2	c. to n.
			"			12.66 ← best focus	v. d. c. to v
			"			12.46 9	v. c. to v
OTB/17A			7/7			focus 12.75 set 2	
						12.70 5' ← best focus	(still uncertain)
						12.65 9	(plate may not have been rested in ph, especially)

727

Date Nov Oct 56/67 Observer L-ch G^o B^g Julian Day R_L

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30738	K ₂ gal	19 31.5	-07 15	I-12 $\frac{1}{2}$	103A0	.008	18.0	17 18	19 22	3
								19 24	19 29	
								19 29	19 39	
30739	HD 190603	20 00.7	31 56	"	"	"	18.0	19 52	19 55	4
								19 56	20 12	
597-16A								20 25	22 20	
30740	Novy Del p	20 40.8	+19° 02'	I-12 $\frac{1}{2}$	103A0	.008	17.0	22 50	23 03	
							↑	23 04	03 02	4
							focus?			
30741	HD 13267	02 04.6	15 711	I-12	103A0	.008	16°C	01:29	01.46	1.
								01.41	02.01	
30742	a Per	03 17.2	+49° 30'					02:19	02:20	
+3								2:36	2:28 (55)	
30742	36 Per.							2:40	2:46	

Dome Temp. 50°F

Transparency Conditions

Start delayed clouds ¹²²
at sunset

Focus

Dome Temp.

E.X.M.T.P. NOT WORKING

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-07° 04'	0	5.0	B05II		MK Lt. 112	10/2 weak
						" 5	10/4 fine
0 42 W					6	" 9	10/8 VERY STRONG
	32° 10'		6.2	B15Ja		MK Lt. set 2.5	10/8 weak
0 47 W						" 7.5	10/8 <u>strong</u>
						Too much cirrus	
	19° 05'	39	-	-		set 2 - clouded over	10/2 ^{ON} POTTED w. sl. wk
04° 01 W					-6-	set 5 - clouded	10/3.7 sl. wk
						cold. no focus value	also note MK-W
			6.2	B5/6	7-2-	Mk - Syd set 1 *	10/2 WEAK
0° 23? W	57° 31'	5-6				set 5 clouded over	10/2 WEAK
04 18 E	49° 43'		2.3	F5Tb		Mk - Syd set 9	very hazy WEAK
			5.7	F4II	6	set 1 *	WEAK
04 04 E	45° 56'	5-6				set 5	WEAK

723

Date Feb 27 6/67 Observer R. B. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30742	HD 15997	2:29	+57:15	I-12 ^{1/2}	10300	.008	16°C	3:01 (50 ^s)	4:02	
30743 45	χ Aur	5:26.2	+32:07	T-12 ^{1/2}	10300		16°C	4:15 (50)	4:17 (40)	3
								4:19 (45)	4:23	
								4:24	4:35	
30744 46	3 Gem	6:03.7	+23:08	E12	10300	.008	16°C	4:41 (50)	4:47	4
								4:47 (40)	5:00 (30)	
								5:01 (20)	5:22 (10)	

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

very large with ~~the~~ 124
a few clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:13 W	57:35	3-4	7.03	B6I ₂		MR. 510. set 9 10/3	WEAK
			4.89	B5I ₂	6	set 1 * 10/2	WEAK
						set 5 10/4	FINE
1:15 ^m E	32° 12'					set 9 10/8	STRONG
		3-4	6.0	B2.5I ₂	6	set 1 * 10/2	WEAK
						set 5 10/4	NORMAL
5 ^m E	23° 10'					set 9 10/8	STRONG
<p><u>NO</u> more plates EX. MTP. working low</p> <p>* should be ^{set} 1-5-8 or ^{set} 2-5-9</p>							

Dome Temp.

Transparency Conditions

726

Focus

Dome Temp.

ending Time
E.S.T.

P.D.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

01B/17A

8/8

focus 12.70 Set 2

12.65 ✓

12.60 9

12.55 Set 2

12.50 ✓

12.45 9

12.90 set 2 OK at H3

12.83 ✓ OK at 4.50

12.70 ✓ OK at 4.30

OK at 4.30

OK at 4.30

OK at 4.30

OK at 4.30

OK at 4.30

OK at 4.30

Dome Temp. 40

Focus 12.75"

Dome Temp.

Transparency Conditions Good

128

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 2/2/2	REMARKS	Quality
01 21 W	-20° 05'	5"	5.5	B0Ia	2-4	Set 2 1x Normal 10/4	FINE
—	"	"	"	"	—	" 6 1/2x Normal 10/2	WEAK
						Clouds from NE Balance of telescope OK	
00 16 W	+52 44	5"	6.90	F5Ia	2-4	Set 2 MK. STD. 1/2X 10/4	FINE
00 57 W	"	6"	"	"	2-2-2	" 5 " 1X 20/16	SL. STRONG
00 50 W	+57 30	6"	6.2	B5Ia	6	" 2 " " 1X 20/8	FINE
01 15 W	"	"	"	"	2-2-2	" 5 " " 2X 20/16	STRONG
03 40 W	+57 35	"	7.03	B6Ia	2-2-2	" 5 " " 2X 20/15	(CHATTERING) SL. STRONG SL. C. TO REL IN CENTRE
						8/6 " 9	
						2nd Load in Fin.	
						Who walked off with chain for Dome? Took over 11 min.	
						No 2nd H.H. student.	

729

Vairis Co, 24, Db -162, x1100, 0.80

Date Oct 18 1967Observer L-H

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
3074952	22 Ori	00 05.1	45 31	I¹²²	103A0	Set 008	13.2	23 20	23 22	2
3075053	V Ori	00 44.3	40 32	"	"	"	"	23 23	23 31	3
3075454	HD. 8779	01 21.4	-00 55	"	"	"	13.2	23 48	23 50	3
								23 52	23 55	
								00 27	01 01	4

Dome Temp.

Transparency Conditions

Clouds Hazy

130

Focus

Dome Temp.

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		3	5.5	FeII		MK Stand. slit 2	10/4
0 39W					6	" 7	10/14
			4.4	B5V		MK Stand. 2	10/7
0 21W					6		10/14
0 50W	-00 32		7.5	Ko	2-2-2	Std Velocity 2 plate Varden Standard in frigg	10/7

131

Date Wed Oct 11/67 Observer Ki Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
307 ⁵¹	n Per	02 43.4	+55° 39'	F12 $\frac{1}{2}$	103a0	.008	+10°C	01.58	01.59	1
								02:00	02.01	
								02.03	02.05	
307 ⁵²	H10 173 78	02 43.2	+56° 40'	F12 $\frac{1}{2}$	103a0	008		02:17	02.19	2
								02:20	02.30	
307⁵¹	36 Per	03 25.5	+48° 43'		TRI-X			02.42	02:45	3
								02.46	02.47	
								02.58	02.59	
307 ^{52K}	H10 2178 8	03 25.7	+30° 02'							
	100-0		07 B	- 1 TA	TRI-X					

Dome Temp. 40°F

Focus 12.75

Dome Temp.

Transparency Conditions

occasional cloud 132
cloud over at 3:00 EST.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Set	Time	REMARKS	Quality	
01:59				5.4	K356	6	Mk Std	set 2	2 $\frac{1}{2}$ non	10/4	WEAK
02:02							MK	set 5	1 $\frac{1}{2}$ non	10/7	VERY WK.
02:05	0418W	55° 45'						set 9	2 \times non	10/14	SL. WEAK
02:08				6.95	M5Ta	6		set 3	1 $\frac{1}{2}$ non	10/2	BLANK
02:30	0743W	56° 56'						set 5	2 \times non	10/18	* WEAK
02:53				5.7	F4 III	6		set 2	1 $\frac{1}{2}$ non	10/3	BLANK
03:01	0718W	45° 43'						set 5	1 non	10/7	"
03:04	0731W	30° 17'		6.89	B3 III			set 9	1 $\frac{1}{2}$ non	10/2	"
						8/6					* OK
* - WHERE DID THE TRI-X COME FROM?											
- WERE 2 P.H'S RETURNED TO THE REFRIG. CONTAINING A TRI-X??											

Dome Temp. $+39^{\circ}\text{F}$ / $23^{\text{h}}15$

Focus 12.75

Dome Temp. 35°F

Transparency Conditions FAIR (-POOR) 139

Who left spect. heat bridge ON + out of balance??

RE: Juppier Jan

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2151	$52^{\circ} 19'$	$\sim 3''$	7.5	0916	4-3	Set 2 MK STD $(\frac{1}{2} \text{ NORM})$ fold plate 40/8	sl. weak
3:29	"	"	"	"	-	Set 6 MK STD $(2 \times \text{ NORM})$ 16.1 40/32	v. sl. strong
						clouds at 0:34 (15.9 counts by that time)	
						still cloudy at 2:25 EST \therefore cloud up completely	

Hn G-H Bn 160 visitors film for first group Moon 2nd
135

Date 14-15 Oct/67 sat Observer L-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.F.
30752 ⁵⁴	22 Andrs.	0:05.1	45° 31'	I-12 1/2	10300	5 slit .808	13.2	23:20	23:22	2
30753 ⁵⁵	"	"	"	"	"	"	"	23:23	23:31	
30753	V Andrs.	0:44.3	42° 32'	"	"	"	"	23:48	23:50	
30756	HD 8779	1:21.4	-0° 55'	"	"	"	"	23:52	23:55	
								0:27	1:01	
30756 F1							12.2 ⁰			
	18 October 1967					Muse/Ri				

note: cap was open on spectrograph

Dome Temp.

Transparency Conditions

clouds, haze 736

Focus

Dome Temp.

Ending Time
E.S.T.

3:22

3:31

3:50

3:55

4:01

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		3	5.5	F24		mk sd set 2	12/4 FINE
0:37W					6	set 7	12/4 STRONG
			4.4	B5J		mk sd set 5	10/7 STRONG
0:21W					6		10/4 STRONG
0:50W			7.5	K0	2-2-2	sd Vel.	10/7 SL. WEAK
2 PH. loaded in frig.							
	OTB / ITA				4/3	set 5	focus 12.75
	OTB ITA / OTB ITA				4/3	set 2	focus 12.70
	ITA OTB / ITA	OTB			4/3	set 9	focus 12.80

Oct 17, 1967 - 85 minute talk by MR + then demonstrate Telescope 4 n

737

Date Oct 19/20 1967 Observer Go. R. / B. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
549-1 to 16	Hyades							0045	0445	
30757 57 3075 F	6 Gem	0606.3	+22°56 07°17/17	112	103a0	.008	30C	05.10 ⁴⁵	0555	2

4_n

Dome Temp. 32°F

Transparency Conditions Good

739

Focus 12.75

Dome Temp. 27°F

Ending Time
E.S.T.

P.L.

445

555

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

5"

Spectroscopic from 2230 EST. Photometric at
2330 EST. Ri observed at 0030 EST. Bh
at 0040 EST. Cinn at 0440 EST.1^h20^mW

+22 57

6.11 M12a

1-2-1

MK 510.

292

10/10

L-WEAK

413

295

12.75

OK
(center of
weak)
⇒ 414?plateholder 2 is exposed and
in vial

7301

Date Fri/Sat Oct 20/21 1967 Observer Hs Hk / Hr. Dh Julian 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.
30758	19 Cep	^h 20 ^m 2.1	+61° 48'	I12 $\frac{1}{2}$	103a0	.008	7°C	20 54	20 56 $\frac{1}{2}$	2
"	"	"	"	"	"	"	"	21 00		
30759	13 Cep	21 51.5	+56 08	I12 $\frac{1}{2}$	103a0	.008	7°C	21 12	22 22	3
"	"	"	"	"	"	"	"	22 23	23 02	"
30760	ρ Cas	23 49.4	+56 57	I12 $\frac{1}{2}$	103a0	.008	8°C	23 10	23 18	1
"	"	"	"	"	"	"	"	23 20 $\frac{1}{2}$	23 24 $\frac{1}{2}$	
30761	K Cas	00 27.3	+62 23	I12 $\frac{1}{2}$	103a0	.008	"	23 34 $\frac{1}{2}$	23 37	2
"	"	"	"	"	"	"	"	23 38	23 40	
"	"	"	"	"	"	"	"	23 40 $\frac{1}{2}$	23 41 $\frac{1}{2}$	
30762	ϕ Cas	01 13.8	+57 42	I12 $\frac{1}{2}$	103a0	.008	"	23 47 $\frac{1}{2}$	23 52 $\frac{1}{2}$	3
"	"	"	"	"	"	"	"	23 53	23 58	
30763	14 Ari.	02 03.7	+25 28	"	"	"	"	01 09	01 11	4
"	"	"	"	"	"	"	"	01 11	01 12	
"	"	"	"	"	"	"	+8°	01 12	01 13.5	
30764	HD 21389	03 21.9	+53 32	"	"	"	+8	01 42	02 00	1

Dome Temp. 41.0°C

Focus 12.75

Dome Temp.

Transparency Conditions

Overcast all evening early evening 740
Open 2030 but not too promising.
2230 cloud NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0030 W	+62°09'	~1-2"	5.2	09.5 Ia	2-2	MK Std. Set 2 2x normal 10/8	FINE
		"	"	"	"	" 5 1x normal 10/4	WEAK (GIDDING)
		"	"	"	"	" 9 1/2x normal 10/2	SL. WEAK
0206 W	+56°28'	~1-2"	6.5	B8 Ia	2-2	MK Std. Set 2 2x normal 10/8	V. STRONG
	"	"	"	"	"	" 1x normal 10/4 Clouds	STRONG
0103 W	+57°20'	~2"	~5+	F8 Ia	2-2	Special Std. - fine. Set 2 10/X(2)	STRONG
0110 W	"	"	"	"	2-2	" 5	FINE
0045 W	+62°46'	~2"	4.3	B1 Ia	4	MK Std. Set 2	STRONG
						" 5	STRONG
						" 9	FINE STR.
0013 W	+58°04'		4.6	F0 Ia	4	MK Std. Set 2	FINE
						" 5 Clouds	WEAK
		3	5.0	F2 III	—	2 10/7	V. SL. WEAK
						5 10/3.5?	WEAK
0045 W	+25°51'				4	9 10/3.5	WEAK
0011 W	+58°46'	3+	4.7	A0 Ia	1	CLOUDS 5 10/8.5	FINE-STRONG

Dome Temp. 40°F

Focus

Dome Temp. 33

Transparency Conditions *Fail*EXCELLENT 1ST HALF
(GIBBONS M-OK)

144

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29 4				?	?		set 2	10/4
35	20°E					4	set 5	10/23
551							Too hazy. High humidity made dome wet. Some water drops fell off shutters onto primary mirror. Who broke the chain? Photometer post dec motor box fell again. Switch broken.	<u>BLANK</u>

745

Date 23/24 October Mon/Tues Observer Dy, Hb / H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30766	Nova del	20 ^h 40. ¹⁹⁶⁸ 7	18°59'	I-12 $\frac{1}{2}$	103a0	.008	9°C	1832	1837	1
"	"	"	"	"	"	"	"	1841	1855	"
30767	HD 194839	20 22.8	+41 03	I12 $\frac{1}{2}$	103a0	.008	9°C	1916	1947	2
"	"	"	"	"	"	"	"	1952	2010	"
30768	44 Cyg	20 27.2	+36 36	I12 $\frac{1}{2}$	103a0	.008	9°C	2018	2045	3
30769	HD 199216	20 40.7	+19 09	I12 $\frac{1}{2}$	103a0	.008	"	2054	2116	"
30770	69 Cyg	21 26.7	+16 14	I12 $\frac{1}{2}$	103a0	.008	9°C	21 27	2150	1
30771	$\frac{1}{2}$ Peg	22 02.4	+24 51	I12 $\frac{1}{2}$	103a0	.008	9.5°C	22 03	2208	2
"	"	"	"	"	"	"	"	2209	2214	"
"	"	"	"	"	"	"	"	2215	2218	"
30772	21197	22 14.8	+27 16	I12 $\frac{1}{2}$	103a0	.008	"	22 34	2250	3
30773	211432	22 41.9	+27 18	"	"	"	"	22 58	2325	4
30774	γ Cas	23 49.4	+56°57'	I12 $\frac{1}{2}$	103a0	.008	"	23 42	2349	1
30775	η Cas	23 42.5	+57 37	I12 $\frac{1}{2}$	103a0	.008	"	23 51	2358	2
"	"	"	"	"	"	"	"	0002	2358?	"
30776	HD 21389	03 21.7	5832	"	"	"	"	0021	0023.5	3

Dome Temp. 45°F

Focus 12.75

Dome Temp.

Transparency Conditions

clouds - generally poor 146

Why was exper meter voltage set to 300 volts?

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0015 E	19 02	0	?	?	4	set 2 <u>cloudy</u>	10/2
0003 W	"	0			2-2	set 5	10/6
0111 W	+41 18	~2"	7.2	B512	2-2	set 2 MK Std.	1x normal 10/4
0135 W	"	~2"	"	"	2-2	set 5	1/2 normal 10/2
0205 W	+36 50	~2"	7.2?	F512	2-2	set 2 MK Std.	cloudy 1x normal 10/7
0214 W	+49 25'	~2"	6.9	B12	2-2	set 2 MK Std.	cloudy 1x normal 10/4
0221 W	+36 32	~2"	6.9	B12	2-2	set 2 MK Std.	cloudy 1x normal 10/4
0252 W	+25 11	~1.2"	4.2	F55	2-2	set 2 MK Std.	1/2 Normal 10/3.5
0304 W	"	~1.2"	"	"	2-2	set 5 MK Std.	1x normal 10/7
0309 W	"	~1.2"	"	"	2-2	Set 9 MK Std.	2x normal 10/1.4
0320 W	+37 27'	~1.5"	6.5	DF2	2-2	Set 2 Fitzgibbon light	10/7
0359 W	+27 08'	~1.1"	7.3	K0	2-2	Set 2 Fitzgibbon light	10/7
0406 W	+37 20'	~2"	6.4	F512	2-2	Set 2 Special Sta - fine	10/7
0423 W	+57 20'	4+	4.3	G0V	2-2	Set 2 MK Std.	1/2 normal 10/2.5
0436 W	"	"	"	"	2-2	"	1x normal 10/7
0449 E	59 46	2"	1.76	G.3	4	" 2	2x 10/0

Dome Temp.

Transparency Conditions

Poor

148

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-09 31	4"	4.6	K ₂ V	4	MK STD SET 2	10/4
0038 E	71	"	"	"	2-2	" 5	10/14
0000	+59 05	"	5.5	F0II	4	" " 5	10/17
0050 W	55 45	5"	6.02	B ₉	4	B ₈ -B ₉ " 5	10/4
0048 W	+10 10	6"	6.2	B ₈	4	" " 5	10/4
			6.2	K ₂ II	—	Set 2 MK S-O. 1/2X	10/4
			"	"	4	" 5 1X	10/7
0013 E	+01 53	4"	"	"	2-2	" 9 2X	10/14
0043 W	+22 56	"	6.11	MIIa	2-2	" 5 2X	10/20
0100 W	+23 31	"	6.79	B ₀ II	4	" 5 1/2X	10/2
0135 W	+23 19	4-5	7.01	B ₉ II	2-2	" 5 2X	20/14

749

BH DIDN'T APPEAR

Date Tues. Oct 24-25/67 Observer HD 197 Ri Julian Day 243.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30785	15 Cep	19 39.3	-20 25	I-12	E1012D	008		15 15		1
30785	8 Cep Faintest	20 18.6	+39 56	I-12	E1030D	009	+11.5	19 23	19 45	1
							O.T.B.			
30786	2 And	01 30.9	+40 54	I-12	10320	008	12°C	0044	0047	1
30787	B Per	02 37.4	+48 48	"	"	"	"	0053	0055	2
30788	HD 10260	01 35.3	+60 32	"	"	"	"	01 07	01 24	3
30789	HD 11291	01 45.8	+50 18	"	"	"	"	01 30	01 37	4
30790	HD 23383	03 39.7	+53 37	"	"	"	"	01 44	01 55	1
30791	HD 26670	04 08.1	+61 36	"	"	"	"	02 03	02 10	2
30792	HD 26670	04 08.1	+61 36	"	"	"	12°C	02 17	02 35	3
30793	HD 23383	03 47.8	+31 35	"	"	"	"	02 39	02 42	4
30793E	Faintest							OTB/ITA		

Dome Temp. 44°F

Focus 12.75

Dome Temp.

Transparency Conditions

Poor

150

dome not cleaned
clocks lights on

occasional clouds

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			5.5	BoTa		MK Std set 2 Clouds	
W 1 ^h 17 ^m			2.24	F8Ib	4	set 5 22 min for 2.2 Some sky! 10/4	V.S.L. WEAK S.L. WEAK OK
					4/3	One loaded P.H. in the pier dark-room in dome.	
047	1405W	41° 16'	4.6	F8I	4	MK STD set 2 10/3	WEAK
055	0407W	49° 07'	4.6	F7I	4	MK STD set 2 10/3	WEAK
043	1439W	60° 52'	4°	88	4	BB-B9 SB set 2 10/4	FINE
037	1441W	50° 37'	5.6	B9	4	" " " " 10/4	FINE-WEAK
046	0404W	55° 50'	6.02	B9	4	" " " " 10/4	"
050	0410E	61° 47'	5.59	B8	4	" " " " 10/4	"
057	0417W	+10° 07'	6.02	B8	4	" " " " clouds 10/4	"
042	0445W	+31° 34'	2.7	eBe	4	S.D. VEL. set 2 10/4	FINE
					4/4	T 1200 set 5 12.75	WEAK
						Plateholders 1 and 2 loaded under N Pier clouds from southwest cloud up at 3:00 EST	

Dome Temp. +40°FTransparency Conditions CLOUDS - POOR - CLOUDS 752Focus 12.55 → Should have been 12.75

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
05 12			6	?	?	4	Set 2 } focus 12.55	10/2	(L. WEAK)
055	2120 W	+1903				4	" 5 } focus 12.55	10/7	(FINE OUT OF FOCUS)
							WOULD PEOPLE PLEASE PUT FOCUS BACK WHERE IT BELONGS ???		
							1 P.H. Loaded in N. PIER.		

753

Date Sun Mar 22 1930 Observer R. E. A. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30795	Nova del	20 40.8	+18 59	12E	103a0	.008	5.5°	20:17	20:22	2
								20:23	20:34	
30796	A Cep	21 40.5	+58 19	"	"	"		20:56	21:07	3
30797	E Cep	22 11.4	+56 33					21:26	21:31	4
30797F	focus test						5.3°	OTB/ITM		

Dome Temp. 300FFocus 12.75

Dome Temp.

Transparency Conditions

clear at about 19.30 154
occasional cloud from the SW

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02.2						4	set 2	10/2 WEAK
03.4	2406W	+19004'	3-4			4	clouds set 5	10/7 SL. WEAK
07.3	1437W	+58°37	3-4	6.4	M2E	4	Mk. STD.	10/5 WEAK
01.2	1430W	+56°55		4.5	FOTD	4	" set 2	10/3 21.35 SL. WEAK
07.1						4/4	cloud from Northwest at 21.35 focus 12.75 set 5 closed up at 22.30 plateholder loaded in W Rain	OK IN VIEW (after 21.35 in view)

155

Date Mon-Tues. Oct 30-31, 1967 Observer Mse-Hk/ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30798	HD 192422	20:09.7	38° 28'	I 125	10320	.008	11.3°C	18:09	18:20	1
"	"	"	"	"	"	"	"	18:20 1/2	19:26 1/2	"
30799	NOVA DEL	20:37.7	18° 48'	"	"	"	"	19:34	19:35 1/2	2
"	"	"	"	"	"	"	"	19:36 1/2	19:43 1/2	"
30800	35 Cyg	20:14.8	34° 40'	"	"	"	"	19:56	19:59	4
30801	HD 199478	20:52.5	47° 02'	"	"	"	11.8°C	20:08	20:11 3/4	1
"	"	"	"	"	"	"	"	20:12	20:29	"
30802	HD 207673	21:45.6	40° 45'	"	"	"	"	20:35	21:06	3
30802	HD 8749	11:21.4	0° 55'	"	"	"	"	21:14	22:05	4
30803	ω ² Aqr	23:37.4	-15° 06'	"	"	"	"	22:18		1
"	"	"	"	"	"	"	"		22:21	1
30804	ρ Cass	23:49.4	56° 57'	"	"	"	"	22:38	22:45	2
30805	HD 11260	01:35.3	60° 32'	"	"	"	"	23:01	23:20	3
30806	HD 11291	1:45.8	50° 18'	"	"	"	11.8°C	23:23	23:29	3
30807	HD 11905	1:51.9	41° 12'	"	"	"	"	23:34	23:53	3

Dome Temp. 36°F

Focus 12.75

Dome Temp. 34°F

Transparency Conditions *much cirrus in west at sunset.*

756

POOR!

Ending Time EST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+38° 41'	~3"	6.91	B0.5E6	4	mk (1/2 norm) set 2 20/4	WEAK
W 11:30	"	~5"	"	"	-	mk (VERY HAZY) (2x norm) set 6 20/20	STRONG
	+17° 04'		?	?	4	set 2 20/5'	SL. WEAK
W 1:20	"		?	?	4	set 6 20/16	OK
W 1:59	34° 56'		5.9	F5E6	4	mk, (1/2 normal) set 5 20/7	SL. WEAK
	47° 21'		6.2	B8E6	-	mk set 2 (1/2 norm) 20/4	(GUIDING) WEAK
W 1:51	"		"	"	4	mk set 5 (2x norm) 20/18	STRONG
W 1:35	41° 01'	4-5"	6.49	A2E6	4	mk * set 5 (2x norm) 20/18	BLANK
E 1:02	-0° 34'	~5"	7.5	K0	4	std. vel. set 5 40/30	SL. WEAK
			4.4	B9.5E	-	mk	set 2 (normal) 20/8 ? WEAK
W 2:55	-11° 42'	~10"	"	"	4	mk	set 5 (2x norm) 20/16 ? STRONG
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> EXP. MTR. STOPPED WORKING ON GAINS 10 8 20. </div>							
W 0:08	57° 20'		4.4	F8Eap	4	INTERMITTENT CLOUDS set 4 40/30	(COMP. WEAK) FINE
E 0:13	60° 54'		6.6	B8	4	B8-39 (5.3) set 2 40/24	OK
E 0:04	50° 08'	~5"	5.6	B9	4	B8-39 (5.3) set 5 40/24	"
W 0:15	41° 32'		6.56	B8	4	* (CHECK FIELD) set 9 40/24	"

Dome Temp. 34° FTransparency Conditions CLOUDS

750

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0108W			> 4"	6.2	K4	4	std. Ucl. 40/30	- FINE SL. W. CL.
							2 P.H. IN N. PIER EX. MTR. REPAIRED. 33 ^h 00	
							<div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> Plate holder #2 - plate may be in backwards.¹⁴ </div> → It was nice	
						4/3	set 4	OK

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Date ⁴⁻⁵ Sat. Eve / Sun 1969 Observer L-Ch-GO / Hb ^{NY} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30809	HD 190603	20 009	31 56	I-12$\frac{1}{2}$	103A0	5⁰ 008				1
552-Hd								1854	1905	
30809	η Per	02 43.11	+55 29	Ink	103a0	.008	3°C	00 43	00 49	1
"								00 50	00 54	
"								00 55	00 56	
30810	HD 21291	03 21.0	+37 36	"	103a0	.008	3°C	01 05	01 06	2
30811	36 Per	03 29.5	+45 43	"	103a0	.008	3°C	02 24	02 28	3
"								02 43	03 02	
30812	δ Cen	04 44.1	+66 10	"	103a0	.008		03 06	03 09	4
"								03 10	03 16	

Dome Temp. ~~32°~~ 27°F (midnight)

Focus 12.75

Dome Temp.

Transparency Conditions

Good at midnight

Poor after 0100

160

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			6.2	B15Ja		MK filter. 10/	
						<div style="border: 1px solid black; padding: 5px;"> <p>Suddenly clouded in. lights for visitors eyes were also left on.</p> </div>	
						<div style="border: 1px solid black; padding: 5px;"> <p>Midnight: door to outside catwalk was unlocked and open. Shutters were open nearly one-inch! Hb</p> </div>	
00 38W	+55° 48'	~1.2"	5.4	K3Jb	2-2	Set 2 MKStd. 2x normal 10/14	fine
					4	5 " 1 " 10/7	weak
						9 " 1/2 " 10/3 1/2	weak
00 47W	+59° 59'	~1.2"	4.4	B4Ja	4	Set 2 " 1x normal 10/4	FINE
01 55W	+45° 59'	~3.0"	5.7	F4II	4	Set 2 <u>CLOUDS</u> 1x normal 10/7	STRONG
					5'	1/2 " 10/3 1/2	SL. STRONG
00 57W	+66° 16'	poor ~4"	4.3	09.5Ia	4	Set 2 1x normal 10/4	SL. STRONG
					5'	<u>clouds</u> 1/2 " 10/2	FINE <u>SNOW!</u>
4 Ph loaded						<div style="border: 1px solid black; padding: 5px;"> <p>Closed up quickly 0316 [Fine snow filtering through shutters]</p> </div>	

161

Date *San Mar No 26 67* Observer *R.H.H.* <sup>Ex
m se</sup> *GO* Julian 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.
30813	HD 190603	20 00.7	+31°56'	F23	10320	008	2.20C	17:52 ^③	17:55	1
								17:56 ^⑤	18:01	
30814	HD 193183	20 13.8	+37°55'					18:09 ^{②③}	18:32	2
								18:33 ^{②③}	18:56	
30815	NOVA DE	20:40.8	+18°59'					19:02 ^④	19:04	3
								19:05 ^⑤	19:10	
30816	δ Cep	23 35.2	+77°04'					19:30 ^⑥	19:36	4
30817	HD 12494	22 48.2	-12°09'					19:49 ^⑦	20:00	1
553-14								20:00 ^⑧	20:00	
30818	22 And	01 05.1	+45°31'	"	"	"	2.30C	21:21	21:24	2
30819	V And	01 44.3	+40°32'					21:30	21:32	3
30820	HD 3765	06 35.3	+39°40'					21:41	22:05	4
30821	HD 10260	01 35.3	+60°22'					22:13	22:19	1
30822	HD 11291	01 45.8	+70°18'					22:23	22:27	2
30823	HD 12497	01 37.3	+52°23'					22:34	22:40	3

Dome Temp. 30°F

Focus 12.75

Dome Temp.

Transparency Conditions

clouds West of field
cleared up at 18:15

162

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17:55			2	6.2	B1.5E	4	MR STD. 5xN set 2 10/2	WEAK
18:01	0739W	+32°09'					1xN set 5 10/4	FINE
18:38			2-3	6.93	B1.516	4	1xN set 2 10/4	FINE
18:56	1420W	+38°08'	3-4				2xN set 5 10/8	SL. STR.
19:01			3-4				set 2 10/2	SL. WFK
19:10	1410W	+19°04'	3-4				set 5 10/7	FINE
19:36	1422E	+77°28'		4.3	K17	4	MR STD 2xN set 2 10/14	(GUIDING) STRONG
19:40	0411E	-1°44'		5.87	B9	4	B8-B9 SB set 5 10/7	L. WEAK
20:24	0403E	45°51'		5.5	F2II	4	MR STD 1xN set 5 10/3	(GUIDING) WEAK
20:38	0410E	40°55'	2-1	4.4	B5V	4	1xN set 5 10/1	(GUIDING) SL. WFK
20:55	0406W	40°00'	2-3	8.2	K5	2-2	STD VEL set 5 10/7	OK
21:09	0400E	60°53'		6.6	B8	4	B8-B9 SB set 5 10/4	SL. WEAK
21:25	0412E	50°28'		5.6	B9	4	B8-B9 SB set 5 10/4	L. WEAK
21:30	0423E	52°42'	3-4	6.90	F5I	4	MR STD 1xN set 5 10/3	WEAK

163

Date *in Mar. 5/6* Observer *R.H. G. Ta* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30824	<i>α Aes</i>	02 01.5	+22 59	<i>125F</i>	10300	.008	2.2°C	22 47	22 48	4
30805	HD17378	02 40.2	+56 40	22 57	23:00	1
								23:01	23:09	
30826	HD8772	01 01.4	-00 55					23:18	23:36	2
553-3621	<i>Lyrids</i>							2343	0330	

Dome Temp. 24°F

Transparency Conditions ... GOOD

169

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04:46	0435E	230 18'		3.2	K2II	4	MR. STD 1/2xN sets 10/3	(GUIDING) WEAK
04:47				6.95	AS2a	4	1/2xN SETZ 10/2	WEAK
04:49	0456E	+560 59					2xN sets 10/8	SC. STR.
04:55	0452W	-04 33	3-4	7.5	K0	4	STD VEL sets 10/7	OK
							EXPOSED PLATES BACK TO BACK	
			5"				Checked over. <u>3:30</u>	
							PLATE HOLDER # 1, 2, 3, 4, ALL LOADED AND IN N POS	

Dome Temp. 26° F

Transparency Conditions POOR (Partial clearing)

Focus 12.75

~ 22.30 FST ~

Dome Temp.

165

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 30 +	01 ^h 05 ^m E	+49° 45'	2"	23	F5B	4-	mk sud. set 5- 20/6	WEAK
23 32-37	01 ^h 16 ^m E	+42° 29'	2"	22	F5A	4-	mk " 20/6	WEAK
							<u>more clouds</u>	
							P.H. 4+2 loaded on in N. Peni	

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

Transparency Conditions

POOR

168

Focus 12.75

Dome Temp.

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		5-6		Nova	4	Set 2	20/3.7
	19° 04				4	" 5	20/13
02 39 W		4-5			4	" 9	20/40
03 15 W	41 32	3-4	6.27	F2	2-2	" 2	20/14
				F6V	2-	" 5 clouded out!	10/1.9
2 P.H. Loaded + Spotted in N. Power.							

FINE
WEAK COMP?
WEAK

769

Date Nov. 10-11/57 Fri. Sat Observer H. M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. +5°C	Starting Time E.S.T.	Ending Time E.S.T.	P.
30832	Nov Del	20 40.8	18 59	F-12	10320	008		1841	① 1843	1
	"	"	"	"	"	"		1844	② 1855	1
	"	"	"	"	"	"		1855	③ 1856 1/2	1
30837	S. Cyg	19 41.9	+44 53	"	"	"		1906	④ 1906 1/2	2
	"	"	"	"	"	"		1909	⑤ 19 10 1/2	2
30834	HD 190603	20 00.7	+31 56	"	"	"		1928	⑥ 19 40	3
30835	HD 192422	20 09.7	+38 28	"	"	"		19 55	20 23	4

Dome Temp. $+33^{\circ}\text{F}$

Transparency Conditions

partial low fast drizzle 170

Focus 12.75

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	19 02	4 ⁺	2.5	Nova	4	20/4, 20/16	Set 2 9005	FINE
	"		"	"	4	20/16	Set 5	STRONG
1 ^h 15	"		"	"	4	20/2	set 9	WEAK
		4 ⁺	2.9	B5.5 III	None	20/4 (mK)	set 3 1/2 norm.	WEAK
2 ^h 26 ^w	45 06		"	"	4	20/8	set 8 norm	FINE
2 37 ^w	32 12	4 ⁺	6.2	B1.5 Ia	2-2	20/4 (mK)	" 5 1/2 norm.	WEAK
						check spectrum to make sure correct star was taken. Many clouds		
3^h 13^w	38 42	4⁺	6.9	B0.5 Ia	4	20/4 1/2 norm	set 5	BLANK
						vry cloudy		
						Clouds over complete		
						1 PH loaded in N Pier		

777

Date Nov 15-16/67

Observer ^F ^{Ri} ~~Hv~~ - ~~Go~~ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. ^c	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30835	HD 10497	01 37.3	+52 23	F12	103-0	008	-4.3°	22 57 ¹²	23 09	
554-167								2330 ^{4:5}	0745	
30836	HD 57608	7 16.9	+0°02	F12	102-0	"	-4.5°	0418 ²³	0441	2
30837	HD 58594	7 21.2	+11 12	"	"	"	"	0454 ["]	0505	0
30838	HD 58661	7 21.5	+49°04	"	"	"	"	0519 ⁶	0525	1
30839	HD 65241	7 52.7	+7°29	"	"	"	"	0537 ["]	0547	1
30840	HD 66634	7 59.6	+27 49	"	"	"	"	0609 ["]	0630	2
30840K	same as 30840		055/179				-5°			

Dome Temp. $+12^{\circ}\text{F}$ (23^{hoo})Transparency Conditions *Clearing 22^{hoo}*

172

Focus 12.75 Dome Temp. $+8^{\circ}\text{F}$ (6⁴⁵)Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 47 W	+53 44	10"	6.90	F5Ia	4	Set 2 1/2 Horn MK Star 20/8 Clouds	SL. WEAK
04 45 W	+00 30'	4-5	5.95	B8	2-2	B8-B9 set 5 lazy 20/9	SL. WEAK
02 W	-11 05'	2-3	6.26	B8	2-2	B8-B9 set 5 20/10	SL. WEAK
14 25 W	+43 01 4'	3-4	5.55	B9p	2-2	B8-B9 set 5 20/10	SL. WEAK
14 14 W	+07 26'		6.3	B9	2-2	B8-B9 " 20/10	SL. WEAK
14 48 W	+27 33'	3-4	6.14	B9	2-2	" " " 20/10 very fuzzy	SL. WEAK
					4-4	focus 12.75 set 9	OK

P.H. loaded in N. Pier

773

where is BhDate Sat. Ev. Nov 13, 19 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.
30841	π^3 Ori	04 44.4	+06 47	12 $\frac{1}{2}$	10360	.008	+22 $^{\circ}$ 20	1:30	1:34	3
30842	19 Aur	05 13.4	+33 51					1:44	1:50	4
30843	5 Ori	05 26.9	-00 22					1:58	2:02	1
30844	U Ori	05 27.1	-07 23					2:14	2:17	2
								2:17 $\frac{1}{2}$	2:30 $\frac{1}{2}$	
								2:31	2:39	
30845	56 Ori	05 47.3	+01 50					2:49	2:53	3
								2:59	3:10	
								3:11	3:22	
30846	H 058454	06 38.4	+04 02					3:31	3:46	4
30847	13 Mon	06 27.5	+07 24					3:52	4:05	1
30848	6 Gem	06 31.9	+16 29					4:12	4:14	2
30849	4 Gem	06 06.3	+22 56				+22 $^{\circ}$	4:20		3
30848F	focus star		07 31.8				+22 $^{\circ}$			3

Dome Temp. 27°FFocus +2.28Dome Temp. 27°F

Transparency Conditions

Poor very windy 174

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0420W	+06°57'	3-4	3.6	FGV	4	MA STD 1xN at 5 20/14	^{outside?} FINE
0405W	+33°56'		5.3	ASII	4	" 1/2xN at 5 20/4	WEAK
0405W	-00°16'		2.0	098II	4	" 2xN at 5 20/16	STRONG (4.2xN)
			4.4	BOII	4	" clouds 1/2xN at 2 20/4	SE-WEAK
						" 1xN at 5 20/8	FINE
0444W	-07°16'					" 2xN at 9 20/16	STRONG
			6.2	KZII	4	" 1/2xN at 2 20/7	WEAK
						" 1xN at 5 20/14	FINE
1405W	+0°53'					" clouds 2xN at 9 20/4	STRONG
0437W	+04°00'		5.7	BOIII	4	" clouds 1x4 at 2 20/8	FINE
1407W	+07°24'	3-4	4.5	A0TB	4	" 2xN at 5 20/16	STRONG
1411W	+16°23'		1.9	A0TB	4	" 2xN at 5 20/16	STRONG
			6.0	M1Ta		" clouds 1x4 at 2 20/8	clouded over at 5:00
					4/4	12.75 at 5	WHAT 4/4/17 S.E.T.R.
						P II 1+4 loaded in N Pie	

775

where is NYDate Sun Nov 19/20Observer 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.
30849	NOVA ^{DELT.}	20 40.8	+14 59	12 $\frac{1}{2}$	103a0	.009	+0.9°C	18 26	18 28	1
								18 29	18 32	
								18 32	18 37	
30850	HD 199216	20 50.7	+49 09					18 47	19 09	2
								19 00	19 36	
30851	HD 199479	20 52.5	+47 02					19 44	19 49	3
30852	61 Cyg (C)	21 02.4	+38 15					20:00	20 17	
30853	13 Cep	21 51.5	+56 23					20:35	20:42	1
30853F	focus test		ORB/ITA				0.90°C	20 49		2

Dome Temp. 24.0 F

Transparency Conditions Poor

776

Focus 12.75

Dome Temp.

Ending Time EST.	Hour Angle Emil	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:13			3-4		HOJA	4	set 2 20/4	OK
3:17						4	set 5 20/8	
3:39	1" 34W	+19° 04'				4	set 9 20/16	
3:39.2			3-4	6.94	B1II	4	MR. SYD. 1xN set 2 20/8	L. WEAK
3:36	2" 19W	+49° 25'					2xN set 5 20/16	FINE
3:40	2" 30W	+47° 19'		6.2	B8Ia	4	1/2 x N set 5 20/4	WEAK
3:47	2" 47W	+38° 36'		7.4	K7B	4	clouds 1/2 x N set 5 20/7	WEAK
3:42	2" 25W	+56° 30'	3-4	6.5	B8TB	4	1xN set 5 20/3	WEAK
						4/4	12.75 set 9 1xN snow/ice at 21:00 closed up at 22:00 loaded flatblades in N. Pier #3, 4, 1.	VERY WEAK, OK

777

Date 20-21 Nov/67 / Nov - 9.50 Observer Mae-HK Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30854	NOVA DELP	20:37.7	+18° 48'	I-12 1/2	0320	008	+9.0°C	17:46	17:47	#1
"	"	"	"	"	"	"	"	17:48	17:49	
30855	P Cass	23:15.2 ^{49.4}	50° 57'	"	"	"	"	18:04	18:10	#3
30856	H0225289	23:59.9	60° 46'	"	"	"	"	18:23	18:32	#4
30857	H0193964	20:18.0	61° 56'	"	"	"	"	18:40	18:53	#4
30858	ELK.	22:11.4	56° 33'	"	"	"	"	19:01	19:05	#2
30859	2 Aya	23:57.4	15° 06'							#

Dome Temp. 23° F

Focus 12.75

Dome Temp.

Transparency Conditions *cirrus from 18:00*

VERY POOR

778

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
		75"	NOVA		4	set 3	20/2	WEAK
10:48	+19° 04'	"			4	set 8	20/4	SL WEAK
12:02	+57° 20'	"	4.4	F81ap	4	set 5	20/15	FINE
11:49	61° 04'	"	5.9	B9	4	B8-B9 (SB) set 2	20/14	SL WEAK
12:14	62° 11'	"	5.6	B9	4	" " set 6	20/14	FINE
10:30	56° 54'		4.5	F01U	4	MK set 5	20/6	SL WEAK
			4.5	B9.5V		MK		
This plate in Center								
Both spectra appear OK								

779

Date 24.25¹ Fri. 25 Nov 1967 Observer Hb, P1 / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Ang End
30859	ρ Cas	23 49.4	+56° 57'	I125	Ilao	.W8	2°C	22 32 ⁹	22 41	1	
30860	HR1242	03 56.1	+58 53	"	"	"	"	22 48 ⁶	22 54	3	
30861	π^3 Ori	04 44.1	+06 47	I125	Ilao	.W8		23 12 ⁸	23 20	3	
30862	σ Ori	05 33.7	+02 32	"	"	"	1 1/2			1	
"	"	"	"	"	"	"	"				
"	"	"	"	"	"	"	"				

Dome Temp. 29°F

Focus 12.75

Dome Temp. 29°F

Transparency Conditions

2200 Good
2230 - poor
2330 Cloud Over

180

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:11	02 44 W	+57° 20'	~2"	4.4	F8Eap	3-2	Lensie Special x	10/7 FINE
22:14	00 56 E			5.8	F0II	4	MK Std. 1x normal	10/7 FINE
22:20	01 31 E	+06° 55'		3.6	F6V	4	" Clouds 1x normal	10/7 FINE
				3.8	09.5V		" Set 2 2x	10/8
							" 5 1x	10/4
							" " 9 2x	10/2

181

Date Sun. May. Nov. 26/27 Observer R. E. Go / M²² - 3h Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30862	NOVA LERP.	20 377	18 55	12 $\frac{1}{2}$	103 _{u0}	.008	+5°C	17 51	17 54	1
								17 55	18 03	
555-14b	NOVA LERP.							18 10	19 37	
								19 53	20 13	2
30863	19 CEP	22 011	+61° 48'					19 53	20 13	2
30864	22 And	00 051	+45° 31'					20 18	20 35	3
30864c	focus to			5/3/74						
30865	16 PER S	4 44.3	37° 54'	12$\frac{1}{2}$	103_{u0}	.008				

Dome Temp. 34°F

Focus 12.75

Dome Temp.

Transparency Conditions cloud at 20:40

182

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 57			3-4			4	set 2 20/4	OK
01 03	01 25W	+19°03'				4	set 5 20/8	OK
01 13	02 05W	+62°07'	3-4	5.2	09.5II	4	Where is Ea? (EST 1200) clouded out Who backed up the drawing suite? & FIXED MK STD set 5 1xN 20/8 clouds	U.S.L. WEAK
02 34	04 30W	45°55'		5.5	F2II	4	MK STD set 5 1/2xN 20/6 haze + clouds 12.75 set 9	U.S.L. WEAK
						4/4	clouded up at 21:20 L.P. are 1, 2, 4 clouded in again (02:40) before getting 1 plate.	
							4.6 F2II MK	

183

Date Tue-Wed - Nov. 29/29 Observer Dy - Rh ^{Hr-Ch} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30565	K Cas	00 27.3	+62 23	12.5 in	103a0	.008	-3°C			
	"	"	"	"	"	"	"	2115	2116	
30866	56 Ori	05 47.3	+01 50	"	"	.008	-4°C	00 53	01 05	1
556-1 to 16	M47							01 26	06 28	

Dome Temp. 17°F Transparency Conditions *fair*

189

Focus

Dome Temp. 16°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							^{1st} exposure over exposed - net 2 (about 20 ^m exp)	
		$+62^{\circ} 50'$	3-4	4.3	B1 Ia	4	SPECT. LIGHT SWITCH IS BROKEN — HIGH VOLTAGE? OR NEGLIGIBLE?	STRONG
116	2056 W	$+62^{\circ} 50'$	"	"	"	"	20/5 MK STD: 1xN slight clouds ^{net 5} Clouds — 2120 EST (some exposure-meter problems — <u>okay</u> when we finished.)	WEAK
125	0034 E	$+01^{\circ} 53'$	5	6.2	K2 II	4	Set 2 MK STD 10/14 Telapex slipped in dc (with) frequently. DEC. CLAMP NOT HOLDING.	FINE

Dome Temp. $+16^{\circ}F$ Focus 12.75

Dome Temp.

WEIGHT

Transparency Conditions $POOR$

186

1 SMALL \checkmark REMOVED FROM UPPER END. TEL. DRIFTING BADLY IN DEC.
CLAMP DOES NOT HOLD.Ending Time
EST.

20 55

3 7

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 15W	$39^{\circ} 46'$	4.3	10.5	Em	1-2-1	SET 5 Fitzgibbon * 800/90 clouded out	FINE 2 PCS
3 27W	5114	5	4.8	gM7e	1-2-	SET 5 Thin passing cloud 40/22 clouded out last $\frac{1}{2}$ hour	OK (2 PCS)
						-7.19/670K 4 P.H. Loaded & Spotted 10300 IN NORTH PIER	

Dome Temp.

Transparency Conditions *Good*

733

Focus

Dome Temp. *10°F*

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						<p>After repeated warnings to check dec slow motion screw for centering <u>found in jammed.</u></p> <p>also pin in pinion sheared off. !!!</p> <p>Telescope still slipping in S.C. (60).</p>	

189

Date Dec 3/A 1945 Observer E. 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.F.
30869	Nova Del	20 37.7	15 55	102	103a0	.008	0°C	1742	1744	1
								1744	1749	1
								1749	1800	1
30870	W2 Ari	23 37.4	-15 06					18 11	18 15	2
30871	Hb 219 749	23 13.2	44 57					18 23	18 46	3
30872	Hb 222 847	23 39.0	-18 50					18 52	19:03	4
30873	p Cas	23 49.4	+56 57					19:16	19:29	1
								19:30	19:56	
30874	k Cas	00 27.3	-16 23					20:04	20:08	2
								20:09	20:12	
30875	v And	00 44.3	+40 30					20 19	20:22	3
30876	Hb 260	01 35.3	60 32					20:30	21:14	4
30877	H 11291	01 45.0	+50 18					21 19	21:50	1
30878	2 Ari	02 01.5	+23 59					21.49	21:51	2
30879	0 Per	02 37.1	+48 48					21:57	22:01	3
30880	Hb 1378	02 42.2	56 40					22 09	22:20	4

Dome Temp.

240°F (21°F 1800)

Transparency Conditions ...

Clear to S

190

Focus ...

12.75

Dome Temp.

MORE PROGRAMS NEEDED (VERY LIMITED CHOICE)

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
134 ³⁰ W	19 05	4			4	4 counts set 2	} FINE
					4	8 counts set 5	
1 ^H 49 ^W		2-3			4	16 counts set 9	
0 ^H 55E	-15° 40'	4	4.4	B9SB	4	MR. STD 1xN set 5 20/8	1 weak FINE
0 ^H 00E	45 20		6.3	B9p	4	B8-B9SB set 5 20/9	(mod. obj.) FINE
0 ^H 07E	-18 23	4	5.21	B8	4	B8-B9SB set 5 20/10	FINE
0^H 11W	+57° 17'		4.4	F7II	4	plankslide in set 5 20/14	FINE
0 ^H 43 ^W	+57° 17'	4				set 2 20/14	
0 ^H 08W	52° 45'		4.3	B11a	4	Mt STD 1xN set 5 20/8	SL. STR.
0 ^H 11W						1/2 xN set 2 20/4	FINE
0 ^H 07 ^W	40 57		4.4	B5V	4	Mt STD 1xN set 5 20/8	STRONG
0 ^H 05W	60 55	4	6.6	B8	4	B8-B9SB set 5 20/10	FINE
0 ^H 11W	50 40	4	5.6	B9	4	" " " " " 20/10	FINE
0 ^H 07W	23° 12'	4	3.2	K2II	4	Mt STD 1/2 xN set 5 20/7	SL. WEAK
0 ^H 10E	49° 06'	4	4.6	F7II	4	Mt STD 3/4 xN set 5 20/7	SL. WEAK
0 ^H 05W	56° 53'	4	6.95	A5Ta	4	" " " " " 3/4 xN set 5 20/4	WEAK

Dome Temp.

Transparency Conditions

Focus 17.75

Dome Temp. 16°F

192

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0429E	45 59		5.7	F4II	4	MK STD. 1/2U set 5 20/7	SL. WEAK
0417E	24 36		5.6	B8	4	B8-B9 SB set 5 20/10	FINE
0401E	+55°56	4	6.02	B9	4	B8-B9 SB set 5 20/10	FINE
0414E	+61 46		5.59	B3	4	set 5 20/10	FINE
034W	+10 11		6.20	B8	4	set 5 20/10	OK
fog morden at 10:00 all planets had difficult to see proper							

195

Date Mar. Dec 4-5/67 Observer L. HK / R. Hb Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30886	ND 214200	22 31.6	35 04	I-125	F103A _s	Set 008	-0.9	18 43	18 54	
30887	" 217491	22 56.0	44 50	"	"	"	-0.9	19 09	19 13	2
30888	" 217943	22 59.2	59 54	"	"	"	-0.9	19 29	19 31	3
30889	" 219290	23 09.7	50 04	"	"	"	-0.9	19 41	19 42	4
30890	" 219477	23 10.9	27 42	"	"	"	-0.9	19 55	20 01	1
30891	" 219487	23 11.0	24 14	"	"	"	-0.9	20 14	20 19	2
30892	" 219668	23 12.6	44 37	"	"	"	-0.9	20 27	20 35	3
30893	" 220460	23 18.9	31 59	"	"	"	-0.9	20 45	20 55	4
30894	" 221970	23 31.5	32 21	"	"	"	-0.9	21 09	21 13	1
30895	" 222641	23 37.3	44 26	"	"	"	-0.9	21 20	21 31	2
30896	" 224342	23 52.0	42 06	"	"	"	-0.9	21 38	21 43	3
						008	-0.9			1
30897	5 Ori	05 33.7	-02 33	I-125	103A _s	008	-0.9	0000	00 14	1
								00 15	00 17	

Dome Temp. 29°F

Focus 12.75

Dome Temp.

Transparency Conditions

5000 - thick haze + cloud - very poor

7/4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	0 55 W	35 24	2	666	K0	2-2	Fitzgerald	10/7 FINE
01	0 49 W	45 11	2	638	A2	2-2	"	10/4 (44.0WB) SL. WEAK
01	1 03 W	60 15	2	651	B3	4	"	10/4 VERY WEAK
02	1 04 W	50 26	2	623	A0	4	"	10/4 WEAK
04	1 21 W	28 03	2	638	gK3	2-2	"	10/7 WEAK
09	1 40 W	24 36	2	643	F2	2-2	"	10/7 SL. WEAK
15	1 53 W	44 53	2	640	sgK0	2-2	"	10/7 SL. WEAK
20	2 08 W	32 22	2	644	F5	2-2	"	10/7 SL. WEAK
25	2 12 W	32 43	2	624	F5	2-2	"	10/7 SL. WEAK
31	2 25 W	44 43	2	654	gK5	2-2	"	10/7 WEAK
43	2 23 W	42 28	2	598	F5	2-2	"	10/7 WEAK
							Stage Thickening 4 Photo Holes spotted in Pair.	
05	0-15 E	-52 37	2	35	095V	4	MK 54	10/4 SL. WEAK 10/2 SL. WEAK

1915

Date 5 Dec 1967

Observer Ri-HS

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
30897	σ Ori	05 33.7	-02 38	I ₁₂₅	103D	W2		00 17	00 18	1
30898	ζ Ori	05 35.7	-02 00	I ₁₂₅	103D	W2		00 23	00 23 1/2	2
"	"	"	"	"	"	"		00 25		"
"	"	"	"	"	"	"		00 26		"
30899	κ Ori	05 43.0	-09 42	"	"	"		00 30	00 32	3
"	"	"	"	"	"	"		00 32	00 33	
"	"	"	"	"	"	"		00 34		
30900	χ ² Ori	05 58.0	-20 08	I ₁₂₅	103D	W2		00 42	00 44 1/2	1
"	"	"	"	"	"	"		00 45	00 46	
"	"	"	"	"	"	"		00 46 1/2	00 47	
30901	α Lep	05 23.3	-17 54	"	"	"		00 54	00 57	1
"	"	"	"	"	"	"		00 58	01 00	
"	"	"	"	"	"	"		01 01	01 04	
30902	HA 35686	05 21.2	+02 47	"	"	"		01 10	01 27	2
30903	HA 36081	05 09.7	+10 10	"	"	"		01 31	01 39	2

Dome Temp.

Transparency Conditions

196

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
						MK Std	1/2 normal 10/1	WEAK
0040E	-07 59		^{MV} 2.1	09.5 Ia	4	MK Std. Set 2	2x normal 10/8	STRONG
			"	"		"	1x " 10/4	FINE
			"	"		"	1/2x " 10/2	WEAK
0036E	-09 42		1.9	20.5 Ia	4	MK Std. Set 2	2x " 10/8	STRONG
						"	1x " 10/4	FINE
						"	1/2x " 10/2	WEAK
0045E	+20 06		4.9	B2 Ia	4	MK Std. Set 2	2x normal 10/8	STRONG
						"	1x " 10/4	FINE
						"	1/2x " 10/2	WEAK
0001W	-17 52	~2"	2.8	F0 Ib	4	MK Std. Set 2	2x normal 10/14	STRONG
						"	1x " 10/7	FINE
						"	1/2x " Clouds 10/32	WEAK
0039W	+16 50'		6.37	B9	2-2	B9-B9	2x 2 10/5	FINE
0042W	+10 12'		5.54	B8	2-2	"	2x 2 10/5	FINE
Closed up 0210						— fog	4.5h. loaded in Np1	

Dome Temp. 17°F

Transparency Conditions *poor*

798

Focus 12.75

Dome Temp.

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 2-1	REMARKS	Quality
	+41° 18'	~3" +	7.2	8056	2-2	NE std. set 2x normal + too slow clouds 10/6 2/3	WEAK
	+41° 49'	4" +	5.96	06	2-	Fitzgerald Bright * set 5' cloud 10 1/2 closed shutters 1320 - sunset.	

Dome Temp. 27

Transparency Conditions Poor

200

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:12	8:40W	61° 59'	5"	5.67	d15	2-2	Fitzgerald M4 class Set (3) →	10/7 SL. WEAR
4:15	4:10W	50° 10'	4	6.28	A0	2-2	" Set-5 clouds	10/6 FINE
4:52	4:50W	51 24	4	6.12	gk1	2-2	" Set-7 "	40/30 (GARDING) FINE
	4:33W	41 38	4	5.63	B8	3	" Set-③ "	10/4 FINE
	5:06W	45 34	4	6.06	B3m	2-	" Set-5 clouded out	10/2 SL. WEAR
							3 PH loaded in drawer	

SHOCKED BE 2

Dome Temp. 78°FFocus 12.75

Dome Temp.

Transparency Conditions

202

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
0422W	60°54'			6.6	B8	2-2	B8-139 SB 292	20/10	fine	
0436W	50°39'					4	295	20/10	fine	
2404W	62°47'	2"	4.3	B1E	4	M4 - STD	$\frac{1}{2}$ N 295	20/4	weak guiding	
1457W	40°54'		4.4	B5E	4		$\frac{1}{2}$ N 295	20/8	strong	
			4.6	F7E	4		$\frac{1}{2}$ N 295	20/7	strong	
								$\frac{1}{2}$ N 299	20/4	weak
				5.7	F4III	4		$\frac{1}{2}$ N 295	20/7	fine
0421E	45°57'						$\frac{1}{2}$ N 299	20/4	weak	
1439W	25°35'		2"	9.39	B0E	2-17	5ES. SIM. UEL. 295	40/40	fine	
							Misc. in car. accident.	Cloud.		

603

Date Wed/Thurs 20/21 Dec. Observer F. H. 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.
30916	Nova Del.	20 40.8	19 06 ¹⁹⁰⁷	I 12 $\frac{1}{2}$	10320	^{xL} 1008	4.5°C	17 35 ³	17 38	2
"	"							17 39 ³	17 42	
	"							17 42 ³	17 45	
30917	HD 198390	20 44.9	+12 10	I 12 $\frac{1}{2}$	10320	1008		17 52 ¹³	18 03	3
30915	HD 197076	20 36.2	19 34	"	"	"		18 09 ¹⁵	18 24	
30919	198625	20 46.5	46 17	"	"	"		18 30	18 37	
30920	199639	20 46.5	+43 41					18 39	18 41	
30921	198237	20 43.7	+45 13					18 41 ³⁴	18 48	
30922	201826	21 02.0	62 17	"	"	"		19 22 ¹³	19 36	
30923	202654	21 12.1	+43 33	"	"	"		19 42 ¹⁰	19 52	
30924	203245	21 16.0	+41 05	"	"	"	4.5°C	19 56 ⁴	20 00	
30925	203644	21 18.5	+41 58	"	"	"	"	20 05 ¹⁰	20 17	
30926	209823	22 01.2	+46 16	"	"	"	"	20 21 ³⁰	21 01	
30927	209732	22 01.8	46 37	"	"	"	"	21 05 ³⁰	21 35	
30928	224544	23 51.7	11 49	"	"	"	"	21 42 ¹³	21 55	

Dome Temp. 35°F

Focus 12.75

Dome Temp.

Transparency Conditions

0915 - poor

good

209

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. (<u> </u>)	REMARKS	Quality		
01 38	0235W	+19° 07'	~3.4"	~3.8		—	Set 2	20/16	Weak	
01 41						4	5	20/12	fine	
01 44						—	8	20/24	strong	
01 53	02 55W	12° 29'	"	5.9	DF4	2-2	Set 2 Fitzguald Bright *	20/15	strong	
02 00	03 24W	19° 52'	"	6.3	GG2	2-2	5	20/17	strong	
02 03		46° 35'	"	6.5	B4m	4	8	20/10	strong	
02 11	03 30W			5.08	AUM	2-2	Set 2	20/10	strong	
02 18	04 09W	+42° 30'	3"	6.52	MO	2-2	5	20/22	fine	
02 26	04 03W	+47° 36'	~2.3"	6.27	B5	2-2	9	20/10	strong	
02 31	04 15W	+47° 53'		6.32	AIN	4	Set 2	20/10	strong	
02 38	04 20W	+49° 25'	~2"	6.66	B5	4	" 5	20/10	strong	
02 45	04 30W			6.77	K0	4	9	20/12	strong	
02 51	04 35W	+48° 28'	2"	6.12	MO	2-2	Set 2	20/20	fine	
02 58	05 09W	+44° 55'	2"-6"	6.12	MO	2-2	5	clouds	20/20	
03 05	05 35W	+42° 14'		6.51	RS	2-2	9	clouded out.	20/10	Weak

Thursday, Dec. 21 Change from I12½ - I21'

205

I12½: tilt = 20.31
focus = 12.75
I21: tilt = 23.23

Date Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30929F.	four star			I21'	IaD	.08	03.50			1
	Doc 24				Dome Shutter jammed called Jerry temporarily closed.	(F)				

clouded out of SE
setting on 1042 328-116

Dome Te
Focus
Dome Te
Hour Ang
End

2003

206

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
			DTB/1TA	20/16	fous	15 30	net 1	c. to blue.
						15.25	" 6	sl. c to blue.
						15.20	" 9	OIK

207

Date Wed Dec 27-28/67 Observer Hd
Ri
MA Julian 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.
30929	Nova Del	20 37.7	+18 55	I-25	103a0	008	-9.0	17 27 ²⁶	17:53	1
								17:54 ³⁵	18:32	
30930	9 Cep	21 35 2	+61° 38					18:40 ⁴³	19:28	2
								19:23 ²⁷	9:50	
30930 F	focus	test		I-25	103a0		-8.8			

Dome Temp. 7°F

Transparency Conditions ^{very} lazy

208

Focus 15.12

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7.53				5+		3-3-3	set 2 20/24	weak
8.32	3457W	+19°07'	3			3-3-3	set 5 20/12	weak
8.53		61°58'		5.0	B26	3-3-3	MK-STD. set 7 20/24	? nothing
9.50	4°13W						set 5 20/7	? fine (no other views)
							set 9	D.K. (only part)
							OTB/ITA 20/16	
							Thick - closed	

Dome Temp. 14 F.

Transparency Conditions

270

Focus 15.08

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:44	24:41W	38 10	2"	6.73	35 I _b	3-3-3	MK 50 20/18	fogged
46	20:18W	+58 44	"	6.90	F5 Ia	3-3-3	" " set 5 RA TV worked 20/24	fine
05			3"				" " " 1 clouds, 20/18	weak
							Remaining thick	at center / red

277

Date Mon June 12/68 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.	I
30933	ϕ Cas	01 13.8	+57 42	F25	103a0	.008	-10.5C	19:25 ²⁰	19:45	2
								19:45 ⁵⁸	20:43	530
30934	HD 21291	03 21.0	+59 36					21:01 ⁵	21:06	3
								21:06 ¹⁵	21:21	
								21:21 ⁴	21:42	

Dome Temp. $-2^{\circ}F$

Transparency Conditions

272

Focus 1503

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:45			4	4.6	FOTA	3-3-3	MT. STD. $\frac{1}{2}H$ set 5 20/20	well
01:43	14 53W	$58^{\circ}05'$					2N set 9 clouds 20/75	strong
01:00				4.4	B9Ia	3-3-3	$\frac{1}{2}H$ set 2 (it's cold) 20/2	very poor
01:01							1+ N. set 5 clouds 20/24	well
01:02	0443W	$+59^{\circ}50'$					started snow set 9 clouds 20/13	very weak

273

Date Wed. Thurs. 3-4 January Observer F. H. B. / Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30935	MH ₂ 328-116	19 55.0	+39 41	IER	10320	008	-5°C	19:17 ⁴³	19:20	1
30936	HO 219-815	23 13.6	+41 14	"	"	"	"	19:29 ²⁵	19:54	"
30937	HO 220105	23 16.0	+43 24	"	"	"	-5°C	19:57 ⁶²	20:57	"
	HO 220106	23 16.6	+41 49	IER	10320	008	-5°C			

Dome Temp. 130F

Focus 15.11

Dome Temp.

Transparency Conditions Good at start.
2000 - clouds from SW

274

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 3 3 3	REMARKS	Quality
9:20	5:57W		4-5	10.5?	Em	3-6	Set 5 Fitzgerald lens 200/baleo? 2	
9:50	3:11W	+41 38	4-5	5.9	A3	3-3-3	Set 2 } Fitzgerald light clouds 20/20	
10:11	4:13 W	+43 59	~4"	6.11	A3	3-3-3	Set 5 } " clouds 20/24	
				6.10	E9	20/16	OIB/ITA set 9	
							Have imp 2300	

Dome Temp. 5°F

Transparency Conditions

26

Focus 15.8

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:15	1 ^h 15 ^m W	+57 40	4-6"	4.0	GOZ	3-3	^{mk} gusty winds at times - 10/20 (W) ^{set 2}	FINE
9:18	1 ^h 29 ^m W	+57 40	4"	4.0	GOZ	3-3	^{mk} 1/2 Normal setting 5	SL. WEAK
9:24	1 ^h 3 ^m W	+25 22	4"	5.0	FZM	3-	^{mk} 2N of 10/40 - gusty, located stars Dec clamp stuck - (10/22 only) at 2012 Clouds - 2045	FINE
							<u>Midnight</u> - Very Windy w/ Blowing Snow Hrs	

777

Date Max. Tues. JAN 8-9/68 Observer H. H. / P. 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.I.
30938 40	μ Cep	21 ^h 40 ^m 5	458° 17'	I-25	103aO	.008	-18°C	18:12 ²⁸	18:40	1
11 3941	ζ Cep	22 ^h 07 ^m 4	+57° 42'	"	"	"	"	18:45 ²⁵	19:10	
11 4242	HD 210809	22 ^h 07 ^m 9	+51° 56'	"	"	"	"	19:20 ⁹⁰	20:50	
30939 43	HD 21291	03^h 21^m 57	157° 31'	"	"	"	"	21:10	21:20	3
11 43	"	"	"	"	"	"	"	21:21		
11	HD 21389	03^h 21^m 9	158° 32'	"	"	"	"			

Dome Temp. -15°F

Focus 14.91

Dome Temp. -20°F

Transparency Conditions $\text{No clouds, hornibull seeing}$
 Clouded in 21:30

278

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	MISCALCULATION, GERRY ABOUT THAT Quality
7:45	$3^{\circ}35' \text{W}$	$58^{\circ}38'$	$\sim 15''$	6.4	M2Ia	3	MK Std Set 2 $\frac{1}{2}\text{X}$ 20/7 1/2	VERY WK.
7:10	$4'' \text{W}$	$58^{\circ}02'$	$\sim 9''$	5.0	K1IB	3-3-3	" Set 5 $\frac{1}{2}\text{X}$ normal 10/10	WEAK
6:45	$5^{\circ}30' \text{W}$	$52^{\circ}14'$	$\sim 7''$	7.5	OTIb	3	" Set 9 $\frac{1}{4}\text{X}$ normal 10/8 F	VERY WK.
6:30	$0^{\circ}45' \text{W}$	$59^{\circ}36'$	$\sim 18''$	4.9	B1Ia	3-3-3	" Set 2 $\frac{1}{2}\text{X}$ 10/6	VERY WK.
			$\sim 16''$				" " 5 1X " 10/1	WEAK
				4.76	A0Ia	"	" " 9 1/2X " 10/1	NOTHING

very poor seeing
 start telescope drifted to SW W
 pier drifted into telescope
 (note chip in pier)

0030 CLOUDS.

GERRY { \sim half people
 mangled guiding equipment!

Dome Temp. -5°F

Transparency Conditions *Fair. Cut away ~12"*

220

Focus

Dome Temp. -10°F

Ending Time
EST.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Drive slow - * constantly drifting out of
diaphragm. Temperature -10°F .

227

Date Jan 11/12 Thurs. Fri Observer Dy-Hh H5
Gor
Bg Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30944	L And	23 33.2	+42 43	25"	103A0	.008	-6°C	1822	18 25	2
"	L And	23 33.2	+42 43	25"	103A0	.008	-6°C	1829	19 36	"
30945	BD 12953	02 01.7	+57 57	25"	103A0	.008	-6°C	1844	18 50	"
30946	HD 21291	22 21.0	+59 30	25"	103A0	.008	-6°C			
500-H527	M67							1900 ^{9:20}	0420	
NOTE: FOR MK STDS ONLY : 1 STAR PER PLATE										

Dome Temp. -5°

Focus

Dome Temp. $-8\frac{1}{2}$

Transparency Conditions

Handwritten note: The left frosted plates open to sky light — (except the one used below) — check

222

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7:25	1 ^h 54 W	+42 07	3"	4.2	B8E	3-3	1/2 N (10/6) (mk) Set 2	Don't trust this comparison mounted WEAK
7:36	2 02 W	+43 07	3"	4.2	B8E	3-3	1/2 N (10/6) Set 5	V. SL. WEAK
7:50	0 11 ^m	+58 00	3"	5.9	A1 Ia	3-3	1/2 N (10/6) Set 7 (mk STD)	WEAK
				4.4	B8E		1 N (10/6) Set 2	partly fogged

8"

still trouble with fog in all.

Box of unexposed (fogged)? in fridge — labeled.

(21 PLATES)

THE PLATES ARE A TOTAL LOSS — True

PLATE

L23

Date 19/20 Jan. Fri/Sat 1968 Observer H6 Ri Bd Julian 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.
30946	HD 21291	03 21.0	+59 36	I2V	103aC	0.008	0.5°C	20 35 ⁸	20 43 ⁶	3
								20 45 ²	20 51 ²	
								20 52 ⁺	21 12	
30947	HD 21389	3:21.9	58° 32'					21 18 ¹²	21 22	1
								21 23	21 35	
30948	ε Gem	03 ⁶ 37.8	+25 14	"	"	"		00 02 ⁵	00 07 ²	
								00 08 ¹⁰	00 10	
3095049	α Gem.	06 56.3	+24 21					00 16 ¹⁸	00 26	3
								00 26 ³³	00 34	
								00 44 ¹⁴	01 17	
30950	μ Gem.	07 00.7	+31 59					01 23 ⁹	01 37	2
30951	β Ori	08 11.1	+09 03					01 44	01 53	1
30952	δ UMi	09 26.7	+32 08					02 01 ⁵	02 06	2
30953	+ Leo	10 03.1	+12 27					02 15 ²	02 17	3
30954	β Leo	10 11.1	+23 55					02 22 ⁴	02 26	4

Dome Temp. 24.0 F

Focus 15.18

Dome Temp.

Transparency Conditions *fair to poor* 2055-2100 224

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
00:53	00 53 W	+59 48	2.2	4.0	B9 Ia	3-3-3	Set 2 MK Std. 2x nom 20/48	STRONG	
01:00	01 01 W						5' <u>Cloud</u> 1x nom 20/24	FINE	
01:12							9' " 1/2x 20/12	WEAK	
01:22	01 31 W			4.76	A0 Ia	3-6	Set 2 MK Std. clouds 1/2x nom 20/12	WEAK	
01:35							5' " 2x nom 20/48	STRONG	
	Trouble with slow motion DEC control - then overcast.							20/40	
01:57		+25 12		3.02 (M)	G2 Ib	3-6		20/40 20/10	FINE
02:03	01 55 W							20/10	WEAK
02:30				6.1	G5 IV	3-3-3	2072 5xW	20/20	WEAK
02:41		+24 16					2075 1xW	20/40	FINE
03:15	01 53 W						2079 2xW	20/30	STRONG
03:27	01 46 W	+31 50		4.5	F0 II	3-3-3	2075 2xW	20/80	STRONG
03:53	01 55 W	+09 00		5.0	K4 II	3-3-3	2075 1xW	20/40	WEAK
04:00	01 44 W	+51 48		3.6	F0 II	3-3-3	2075 1x5	20/40	Strong
04:07	01 11 E	+12 10		1.3	B7 V	3-3-3	2075 2xN	20/48	STRONG
04:20	01 11 E	+23 35		3.7	F0 III	3-3-3	2075 1/2xW	20/40	SC. WEAK

Dome Temp. 210F

Focus 15.16

Dome Temp.

Transparency Conditions

0245 - hazy + some cloud
0430 - cloud from NW

228

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21E	+56° 32'	~4"	5.2	F2V	3-3-3	Set 2 MK Std. 2x normal in exp. meter	Var. 5AR006
052E	+56° 53'	~4"	7.3	G1V	3-6	Set 2 MK Std 1/2 x normal ^{cloud} [Field Draw]	too WEAK
	0TB/ITA				20/16	set 7	OK

Dome Temp. 22

Focus 15.175

Dome Temp.

Transparency Conditions

230

NO EXP. meter

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1420W	+58°16		590	ATA	3-3-3	set 2+W	FINE
1450W	+25 4/6		500	F2II	3-3-3	clouds set 2 2+W on uncovered at 19:13	STRAIGHT
	OTA/TA				20/16	set 5	OK
JAN 22 9AM.							
EX. MTR OK.							
PLUG Pulled out of DESK UNIT.							
H.							

233

Date Jan 24/25 W/Th 1968 Observer Eaf Julian 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.
30960	(HD) 358	0 3.2	28 32	I-25	103a0	.008	12.8	18:44 ²	18:46 ²	3
30961	905	0 8.5	40 29	"	"	"	"	19:00 ²	19:26 ²	"
30962 ¹	1185	11.1	45 03	"	"	"	"	19:36 ⁶	20:36 ⁶	3
30963	6114	0 57.3	46 50	"	IIa0	"	"	20:46 ³	21:46 ³	4
30964	12539A	1 57.8	41 51	"	"	"	"	21:55 ⁹	21:58 ⁹	"
30965	12534B	"	"	"	"	"	"	22:00 ¹	22:09 ¹	"
30968 ²	⊕ Per	3 51.1	39 43	"	"	"	"	22:16 ²	22:17 ²	1
"	"	"	"	"	"	"	"	22:18 ²	22:20 ²	"
"	"	"	"	"	"	"	"	22:21 ²	22:23 ²	"
30968 ³	α Cam	4 44.1	66 10	"	"	"	"	22:32 ¹	22:33 ¹	2
"	"	"	"	"	"	"	"	22:34 ⁹	"	"
"	"	"	"	"	"	"	"	"	22:43 ³	"
30968 ⁴	4 Aur	4 52.5	37 44	"	"	"	"	22:54 ³	23:07 ³	3
30968 ⁵	⊕ C Ma	6 54.7	-28 50	"	"	"	"	23:16 ³	23:19 ³	4
"	"	"	"	"	"	"	"	23:20 ³	23:21 ³	"
"	"	"	"	"	"	"	"	23:22 ³	23:23 ³	"

Dome Temp. $-2^{\circ}F$

Focus 15.03

Dome Temp.

Transparency Conditions Seeing awful!

234

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:43	?			2.0	B9p	9	Set-2 F Brng M *	20/20 FINE
4:26	3:10 W	40 53	~6"	5.6	A73	3-3	" 5 drifing - P.A. 208	20/24 BLANK
0:36	?	43 25	~7"	6.0	A0	33-3	" 9 F Brng L Star	20/24 FINE
1:46	4:41 W	47 13	~7"	6.3	A3p	33-3	" 2 " " "	20/24 BLANK
		42 10	4	3.0	?	3-3	5 (Faintly visible with aperture with BD)	10/12 "
4:04	4:04 W		3	5.0	A0p	3-3	" 9 d/d *	20/24 "
	2:18 W	39 54	1	2.7	B0.5V	9	" 2 MK SH	10/12 P.H. NOT PROPERLY IN CAMERA
	2:21 W		1				" 5 (ONLY PART OF 1 EXP. ←	10/24
	2:24 W		1				" 9	10/48
	1:28 W	66 17	1	4.3	B9.5A	9	" 2	20/12 WEAK
							" 5	20/24 SC. WEAK
	1:49 W						" 9 ← ? 7	20/48 FINE
	2:05 W	37 51		5.0	A0V	9	" 5	20/24 V. SC. WK
3:19	0:20 W	28 58		1.3	B2V		5 1/2	20/48 20/24 FINE
3:21	0:21 W						2.8	10/12 SC. WK
2:22	0:22 W					9	" 9	10/6 WEAK

235

Date..... Observer ^{Fa} F - ^F H-T Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
30970 ⁶⁶	SC Ma	07 07.1 ^{4.3}	-26 14	I-25	Il-a0 Il-a0	008	-12.5	23:48	23:50	17
								23:51	23:52	
								23:53	23:54	
30971 ⁶⁷	HD 59612	07 25.6	-22 49						00:19	4
"	"	"	"	"	"	"	"	00:19	00:26	
30972 ⁶⁸	β Cnc	08 11.1	09 30					00:39	?	1
30973 ⁶⁹	Θ U Ma	09 26.2	52 02	"	"	"	"	01:10		1
	"	"	"	"	"	"	"		01:15	
30974 ⁷⁰	HD 74604	08 29.8	67 05	"	103 a 0	"	"	01:44	01:54	3
30975 ⁷¹	ζ Leo	10 11.1	23 55	"	"	"	"	02:07	02:08	4
30976 ⁷²	HD 115043	12 02.5	57 14	"	"	"	"	02:33	03:13	
	"	"	"	"	"	"	"	03:14	05:16	
30977 ⁷³	Δ Leo	10 03.1	+12 27	"	"	"	"	05:30		1
									05:32	

Dome Temp. $-5^{\circ} F$ Focus 15.03

Dome Temp.

Transparency Conditions

236

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:40	W	-26 18		2.5	F8 Ia	—	SET 2 MK STD	10/24 FINE
						—	5 " "	10/12 C. WEAK
0:44	W	-26 18				9		10/6 WEAK
				4.88	A5 Ib	—	Set 2 MK Std	10/17 L. WEAK
		-22 55		"	"	4-5	" 5	10/15 ^{too} WEAK
		+09 18	3	5.0	K4 III	9	" 2	12/18 L. WEAK
				3.6	F6 IV	9	" 5	20/40 "
	12 E	+51 50	2				" 9 possibly drift/black on	20/28 (60/100)
1:00	W	66 49	5	6.1	B8	3-3-3	" 2 B8-9 Program	20/24 WEAK
0:07	E	23 35	4	3.7	F0 III	9	" 2 MK Std	10/7 WEAK
02:02	E	56 52	3	7.3	G1 V 3-		" 5 " "	40/40 WEAK
0:00	W		"	"	"	—	v bad drift in x, (E)	40/20 STRENGTH
		41 08		1.3	B7 V			1/2.5 SUSTAIN
						9		1/2.5 "
03:12								1/1 FINE

WHY IAD FOR MK STDS.

Dome Temp. 23.0

Focus

Dome Temp.

Transparency Conditions Good

238

* No exposure meter - gone!!!

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 55	0 59W	30 16	0	6.89	B3II	3-3-3	MK Ltd Slow motion die works only if telescope changed in dex. Cassio. Bill Daddel ill * Repaired Feb. 1/S.A.M. 3 Tubes H.V.	(114480 A. E. 111 27 1111) FINE - WK
0 55			6.89					

239

Date Feb 4/5 1967 Observer Ea Ri Go / HK-Bh Julian 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.
563-9	None							1830	1915	
								(2:45)		
563-14	M67							2245	0315	
								(8:30)		

Dome Temp. 20°FTransparency Conditions Good

240

Focus

Dome Temp. 17°FEnding Time
EST.

1915

2015

2115

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						<p>Assorted mistakes - (1) flap falls down for a while (2) Dec clamp wouldn't work (3) focus switch wouldn't work! (Earl's night! LAST STRAW: CLOUDS!!! Would you believe I'm trying it again! Focus switch fixed but short up there FOCUS SWITCH AT GUIDING EYEPICE clouds at 2015.</p>	<p>SOMEWHERE IS REMOVED</p>

249

Date Mon Jul 15-6/68 Observer Had ^{G00} HJ
~~H.S.~~ - ~~H.L.~~ Dd Julian 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.
30975	8 Cei HD 30035	2 39.7	- 0 06	2-25	E10320	008	-4.0	1842 ¹⁰ 1845 ¹⁰	18 42 18 45	3
30976	HD 3085	4 39.4	+70 45	"	I 20	"	-4.0	19 10 ¹²	19 26	1
30977	HD 32781	5 08.5	+76 21	"	I 20	"	-4.0	19 40 ¹²	19 52	2
30978	HD 33647	5 06.6	+ 0 24	"	"	"		20 09		4
5A-166								2040 ¹²⁰	2200	
30978	HD 33929 R 2671	7 51.8	+5 05	2-25	I 20	008	-4.5	22 52 ¹⁸ 22 58 ¹⁸	23 10	1
30979	HD 35648	7 19	+6 51	"	"	"	-4.5	23 16 ¹⁸	23 44	2
30980	P 500	08 11.1	+07 30	"	10320	"		00 35 ³²	00 45	4
30981	HD 70647	10 28.0	+28 45	"	"	"		01 09 ³²	01 11	1

NOT ENTERED IN PAGES

Dome Temp. $+16^{\circ} F$

Focus 15213

Dome Temp.

Transparency Conditions *Fair*292
photo backward
in spatter

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:48	W 53 ^m		2"		B2 ^{IV}	9	MK STD 10/6	WEAK
8:46							10/12	FINE
9:26	E 37 ^m	+70 49	2"	6.37	B9	3-3-3	B8-B9 10/12	SL. WEAK
9:52	E 35 ^m	76 23	2"	6.29	B9	3-3-3	" 10/12	SL. WEAK
					B9			
200							<i>Cumulus</i>	
							<i>Blue cloudy</i>	
	N 50 ^m	+4 57	2"	5.90	B8	3-3-3	B8-B9 10/15	(outlined) FINE
	W 1 ^h 13 ^m	+7 44	2"	6.40	B9	3-3-3	" 10/15	FINE
1:54	116 W.	+09 15	3	5.0	K4 ^{III}	9	MK STD 10/21	(NOT SPOTTED) FINE
2:00	005 E	+28 11	2	8.36	K2 ^{III}	7	S. STD. 10/23	BLANK
							<u>CLOUDS</u>	
							P.H #3 loaded 10/20	
							UNEXPOSED 10:30 + 10:40 in Spatter R.	

SPOTTED
TWICE?

~~Made
 to
 use
 for
 10/23
 with 100
 10/23~~

293

Date Tues Feb 6-7/68Observer L-Bh 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
30981	HD 21483	03 22.7	30 02	I-25	(E)103A ₀	set .008		18 55 ⁹²	20 27	4
565-1 to 22	HYADES			?				20 30	01 00	

This means Eastman. It is
 a designation which we used
 years ago. Squares are should
 drop it now. JFB.

Dome Temp. +25°F

Focus 15-16

Dome Temp.

Transparency Conditions Fair

244

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
27	1 48 W	30 16	2	689	B3II	3-3-3	MIC Standard (2X NORMAL !!) clouds!! clouded out at 1:30 Ex M+R. Checked + OK for	10/24 V. SL. STRONG

245

Date Wed Feb 7/8/68 Observer FL - D₇ ^{FL - 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.
{ 30982	HD 19926	3 07.1	6 17	I-25	103a0	008	-1.9C	18 46	19 14	1
{ 30983	HD 19460	3 02.7	18 25	"	"	"	-1.0C	19 19	21 15	1
{ 30984	HD 29477	4 33.5	15 36	"	"	"	-1.9C	21 32	21 38	1
30985	HD 29499	4 33.7	07 40	"	"	"	"	"	21 52	2
{ 30985	HD 29140	4 30.2	09 57	"	"	"	-1.9C	22 03	22 09	2
{ 30986	HD 31295	4 49.2	10 00	"	"	"	"	22 14	22 26	2
{ 30987	HD 31283	4 49.2	11 16	"	"	"	"	22 30	22 50	2
30988	HD 31539	4 51.6	17 00	"	"	"	"	23 00	00 15	4
30989	HD 90861	10 24.3	+29 05	"	"	"	"	01 05	04 47	1

Would someone please check field and co-ordinates?

Right star

Dome Temp. 20° F

Focus 15.15

Dome Temp. +5°

Transparency Conditions Fair - good

0130 Clouds (BR-324)0430 O'ZANT

246

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 14	?	6° 32'	2"	5.6	cG2	4-5	Set 2 FBSC*	20/40 VERY WEAK
1 15	3° 01W	18° 39'	6	6.3	gMO	3-3-3	" 5	20/60 FINE
1 29	1 53W	15° 43'	4	5.0	Am	4-5	" 9	(LIVIDING) 20/24 FINE
1 52	2:07W		3	5.4	dA9		" 2 (not taken, field OK but star fainter colour ~ K Field drawn	20/40
2 01	2:28W	10° 05'	3	4.3	Am	9	Set 2 FBSC*	10/12 FINE
2 26	2:26W	10 05	5	4.7	AOp	3-3-3	Set 5	20/24 FINE
2 50	2:49W	11 22	4	5.1	A3	3-3-3	Set 9	20/24 FINE
00 3	0412W	17 05	4	5.5	gK1	3-3-3	Set 2	20/40 FINE
0A7	0313W	4 20 43	5	8.36	K ₂ III	3-3-	" 5 See Star Vol. CLOUDS	100/112 FINE-SL. WEAK

247

Date Fri Feb 9/10 1900 Observer F. Hk/R. Bet Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30990	HD 24534	03 49.1	30 45	I-25	10300	008	-5°C	19 26 ⁵³	20 19	2
30991	HD 24712	03 52.5	30 30	"	10300	"	"	20 25 ¹³	20 40	2
30992	HD 25823	04 00.5	27 20	"	"	"	"	20 54 ²⁵	21 20	2
30993	HD 25867	04 00.8	38 44	"	"	"	"	21 24 ⁶⁵	22 29	4
30994	HD 26655	05 28.2	14 14	"	"	"	"	22 46 ³⁶	23 22	4
30995	HD 26576	05 27.7	19 28	"	"	"	"	23 30 ³⁸	23 50	4
30996	HD 37529	05 30.2	30 36	"	"	"	"	00 06 ¹⁴	00 20	1
30996K	from test						-5°C			
Mon. - Tues FEB 12-13 Midnight - Mostly Clear Snow on Rails - inside & out Hvr										

Dome Temp. 4°F
 Focus 15.115
 Dome Temp. -3°F

Transparency Conditions ... Part - Cirrus
 23^h improved (-5°F)
 observations 09 00 30

248

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	20 W	30 57	4	6.1	Ope	3-3-3	Set 2 FBSC* Clouds! ^{may be moon contained} 20/22	FINE
	?	35 41	4-6	4.0	07	4-5	5 " Clouds! 20/24	FINE
	2 15 W	27 30	4-6	5.2	A S	3-3-3	9 " telescope jumping in S 20/29	FINE
	3 24 W	28 54	4	5.3	d.FI	3-3-3	Set 2 " 20/40	FINE
	2 51 W	14 16	4	5.5	B3	3-3-3	5 " 20/24	FINE
	3 25 W	18 30	4		Bp	3-3-3	9 " 20/24	FINE
	3 45 W	30 27		5.43	G503		snovgurris set 2 focus 15.115 set 5	20/71 WEAK FINE
<p>SS on finder telescope not always working (only for a little while) Telescope jumps in S! moon sets left in S</p>								

Dome Temp. 40 F

Transparency Conditions

250

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

not visible stars in Low clouds, some mist fog.

Dome Temp. 90°F

Transparency Conditions Fair

251

Focus

Dome Temp. 50°F

Ending Time
EST.

225

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		2-4"				<p>arrived 7:15</p> <p>My Lot (1430m) Focus correct (guiding), broken (shocked out!). Telescope badly out of balance. With heavy night on end of trip, telescope slips 5. Will left night telescope slips 11.</p> <p>Clouded in 2:30 Remained cloudy through 4:15</p>	

Dome Temp. -10°F

Transparency Conditions *Fair - Poor*

259

Focus

Dome Temp. -11°F

Ending Time
EST.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

8.11

Clouds

02:00 clear, but -15°F

no, R

04:30 solid overcast

255

Date FEB 21/32 Observer EAF Julian 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.
30997	η Per	2 03.4	55 29	E-25	103a O	008	-15.5	19 01	19 11	2
30998	α Cet	2 57.1	03 42	"	"	"	"	19 18	19 23	4
30999	HD 21291	3 21.0	59 56	"	"	"	"	19 31	19 44	1
31000	36 Per	3 25.5	45 43	"	"	"	"			
30999	HD 43836	6 13.3	23 19	"	"	"	"	20 05	21 14	2

Dome Temp. -2.5
 Focus 14.98
 Dome Temp. $-4.5 F$

Transparency Conditions Poor - cirrus passing

256

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 11 2	?	55 45	6	5.4	K3II6	3-3-3	Set 5 MK Sld. 20/20	VERY WEAK
17 23 4	2 10 W	3 59	6	4.2	M2III	9	Set 5 " 20/30	VERY WEAK
17 44	2 04 W	59 47	5	4.4	B9Te	9	" " 20/48	BLANK
21 14 2	0 40 W	23 18	4	7.0	B9II3	3	DEC DRIFTING <u>TOO</u> FAST WHEN <u>CLAMPED</u> Set 5 MK Sld. 20/24 still jumping 8! 16 Put extra weight on secondary still life N. could not complete exp. + cloudy up. CLOSED UP 21 ³⁵ also C.A. drive v. squeaky SW #3 PHK — Ia O? ## 1-2-4 PH ² 103a O } loaded.	(GAINING) WEAK
							IMPOSSIBLE TO OBSERVE DEC CLAMP DRIFTING TOO MUCH FIXED	

Dome Temp. *11° F*

Transparency Conditions *Very Good*

260

Focus

Dome Temp.

Ending Time
EST.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

2"

261

Date Feb 25/26, 1968

Observer Ew
RiGo/Dy-B4 Julian 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.
570-1630	M67							1900	0500	
{ 31000	{ 105702	12 ^h 5. ^m	+06° 22 ^m	25	10320	100P	-8°C	0332	0348	4
{ 31000	{ "	12 ^h 5. ^m	+06° 22 ^m	"	"	"	"	0352	0409	4
{ 3100/1	105981	12 ^h 6. ^m	+26° 26 ^m	"	"	"	"	0416	0438	1
{ 3100/2	106057	12 ^h 7. ^m	+21° 06 ^m	"	"	"	"	0445	0503	1
{ 3100/3	106002	12 ^h 6. ^m	+57° 37 ^m	"	"	"	"	0511	0524	2
{ 3100/4	{ 109 Vir	14 ^h 11. ^m	+02° 19 ^m	"	"	"	"	0534	0536	4
{ 3100/4	{ 109 Vir	14 11.2	+02 19	"	"	"	"	0542	0544	4
{ 3100/5	W Sco	16 01.0	-20° 24 ^m	"	"	"	"	0559	0603	2

Dome Temp. 19.5

Transparency Conditions

Scattered Cirrus -
otherwise fair.

262

Focus

Dome Temp. 9.0 FEnding Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Cirrus	
01 ^h 44 ^m W	+6° 00'	~4"	5.7 ^m	Am	3-3	Set 2, 10/12 (F. BSC)	WEAK
02 ^h 04 ^m W	" "	~4"	5.7	Am	3-3	Set 5, 10/15 improved tel. focus	SL. WEAK
02 ^h 31 ^m W	+26° 04'	4"	5.6	gK4	3-3	Set 2, 10/20	SL. WEAK
02 ^h 55 ^m W	+20° 44'	4"	5.6	gG8	3-3	Set 5, 10/20	FINE
03 ^h 21 ^m W	+57° 15'	"	6.4	gK5	3-3	Set 7, 10/20	WEAK
03 ^h 57 ^m W	+02° 02'	"	3.7	A0I	3-3	MK Stds. Set 2 10/12 1/N	(POOR GU. COND.) SL. WEAK
04 ^h 05 ^m W	+02° 02'	"	3.7	A0I	3-3	2xN 10/24	FINE
04 ^h 00 ^m 06 ^m W	-20° 35'	"	3.9	B1E	3-3	2xN 10/24	WEAK

CONSOLE Dec-LIGHT SWITCH DOESN'T HOLD.

DEC CIRCLE LIGHT

SWITCH FAULTY ON
CONSOLE

263

Date 29 Feb - 1 March '68 Thurs - Fri Observer Hb Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	PI
31006	36 Per	03 20.5	+25 43	I 25'	103a0	.008	-2°C	18 56 [Ⓢ]	19 00	1
"	"							19 02 [Ⓢ]	19 10	
31007	2 Per	03 38.4	+24 16		103a0(?)			19 14 [Ⓢ]	19 16	3
"	"							19 17 [Ⓢ]	19 20	
31009	16 Tau	03 38.9	+25 58		103a0			19 55 [Ⓢ]	20 09	3
31008	19 Tau	03 39.3	+24 09		103a0			19 45 [Ⓢ]	19 52	1
31010	17 Tau	03 38.9	+23 48		103a0			20 15 [Ⓢ]	20 24	4
31011	27 Tau	03 43.2	+23 45		"			20 31 [Ⓢ]	20 36	1
31012	2 Ori	05 58.0	+20 08		"			20 46 [Ⓢ]	20 52	3
"	"	"	"	E 25'	"			20 52 [Ⓢ]	21 15	
31013	3 Gem	06 03.7	+23 08	"	"	"		21 22 [Ⓢ]	22 09	4

Dome Temp. 20°F

Focus 15.15

Dome Temp.

Transparency Conditions

fair → poor Good after 1900
269

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	3-3-3 Comp.	REMARKS	Quality
9:00	01 49W		~2"	5.7	F4II	4-5	ret 2 MK Std. 1/2 normal	10/4 VERY WEAK
9:00						6	1 "	10/8 SL. WEAK
9:00	01 53W		1-2	4.2	F5II	9	ret 2 1/2 normal	10/4 WEAK
9:20						6	1 "	10/7 1/2 SL. WEAK
9:09	02 01W	+24 11	2"	5.4	B7IV	9	ret 2 1x normal (Pleiades)	10/5 SL. WEAK
9:30	02 27W			4.2	B6V	4	ret 5 1x normal "	10/5 FINE-WEAK
9:44	03 00W	+24 01		3.6	B6III	9	ret 5 2x normal "	10/9 FINE
9:50	03 11	+23 58		3.5	B8III	3-3-3	ret 2 1x normal	10/12 FINE
10:00	01 09W	20 08	~2"	4.9	B2Ia	3-3-3	ret 2 1/2 N	10/6 WEAK
10:10	01 35W	"	"	"	"	3-3	1' seeing worse 1xN high cloud	10/12 L. STRONG
10:20	02 20W	+23 07	~2"	6.0	B2.5I	3-3-3	ret 2 1/2 1xN 2200 cloud from NE	10/12 FINE

Ph # 1, 3, 4 loaded - 103a0

Ph # 2 loaded - II00 (check before using)

Dome Temp. 80 F

Transparency Conditions

266

Focus

Dome Temp.

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						SNOW BLOWING IN SLIT, SHUTTERS CLOSED.	
						STARTED AGN. WIND SPEED LOWER, WIND SPEED INCREASED. SNOW BLOWING IN SLIT AGN. ALSO CLOUDS IN N, SE, W. Strong wind blowing snow light cloud called stratus, p. 4.	

267

Date MAR 30 Observer R. Ca / H. 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.
31014	56 Ori	05 47.3	01 50	I ₂₅	103a0		-8°E	19:14 ¹⁰	19:24	1
3	"	"	"	"	"	"	"	19:25 ¹⁷	19:42	
31015	K Ori	05 43.0	-9 42	"	"	"	"	19:47 ⁰	19:48	3
"	"	"	"	"	"	"	"	19:50 ³	19:51	
"	"	"	"	"	"	"	"	19:52 ⁰	19:53	
31016	ε Ori	05 49.8	07 23	"	"	"	"	20:00 ³	20:03	
"	"	"	"	"	"	"	"	20:04 ³	20:05	
31017	χ ² Ori	05 58.0	07 08	"	"	"	"	20:09 ⁶	20:15	1
31018	3 Gem	06 03.7	23 08	"	"	"	"	20:21 ⁴	20:25	3
31019	6 Gem	06 06.2	22 56	"	"	"	"	20:31 ^{3:22}	20:53	4
31020	γ Vir	12 36.6	-00 54	"	"	"	"	00:36 ⁶	00:41	1
31021	SS UMi	13 37.0	+55 11	"	"	"	"	00:50 ⁵⁸	01:33	3
31022	β Con	13 07.2	28 23	"	"	"	-7.5°	02:10 ³⁹	02:49	4
"	"	"	"	"	"	"	"	03:11 ⁶	03:17	
31023	γ Boo	14 29.1	38 45	"	"	"	"	03:38 ⁶	03:43	1
2 PH loaded 103a0 IN N. PIER - UNEX. 103a0 IN Spitting Room.										

Dome Temp. $+14^{\circ}\text{F}$ Focus 15.05

Dome Temp.

Transparency Conditions ? CLOUD IN WEST

268

Heater left on

0100 TT in circle

0215 CLOUDY

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:17	21E	+0151	3"	6.3	K ² II	3-3-3	SET 2 MK STD 1xN 20/40	SL. WEAK
01:47				"	"		SET 5 2xN 20/40	SL. STRONG (GUIDING) WEAK
01:51			3"	1.9	B0.5Ia	9	SET 2 1/2xN 20/12	SL. WEAK
01:53							" 5 1xN 20/24	SL. WEAK
02:38	W	-09038					" 8 2xW 20/48	SL. STRONG (GUIDING) WEAK
03:02		+724		2.7	M2Ia	3-3-3 9	SET 2 1/2xN 20/60	SL. STRONG
03:05							" 5 2xN 20/30	SL. WEAK (GUIDING) FINE
03:15							SET 5 lazy 1xN 20/24	SL. WEAK (GUIDING) FINE
03:21							" 5 1/2xW 20/12	(POOR GUIDING) WEAK
03:42	W	23006	2-3	6.0	B2.5Ia	3-3-3	SET 2 1/2x 20/120	FINE
04:15	W	2255	2-3	6.4	M1Ia	3-3-3	SET 2 2x 20/120	FINE
04:27	E	-0116	3	3.7	E0V	9	" 2 2x 1/4	SL. STRONG
04:45	E	5451	3	6.4	M2III	3-3-3	" 2 1/2x 10/15	WEAK
04:11	W	2805	"	4.1	G.V	9	" 2 1/2x 10/10	WEAK
04:22						9	" 9 1x 10/20	FINE
04:45	E			3.2	H7III	9	" 1/2x 10/5	WEAK
							CLOUD 5 !!!	

269

Date March 6/7

1968

Observer

F
Bg - Bh

Hv

Go

Bh

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
31024	HD 17378	02 42.2	56 40	I-25	103a0	008	-5.2	19:28 ⁽⁵⁰⁾	20:18	3
	HD 60178	not resolvable								
31025	HD 59881	07 26.9	02 08	"	"	"	-4.2	21:09 ⁽⁴⁾	21:20	4
31026	HD 61913	07 36.4	14 27	"	"	"	-4.2	21:28 ⁽⁴⁸⁾	22:16	4
31027	HD 74874	08 41.5	06 47	"	"	"	"	22:55 ⁽⁴⁾	22:59	1
5721628	M67							23:00 ⁽⁶³⁵⁾	05:35	

Dome Temp. 13° F

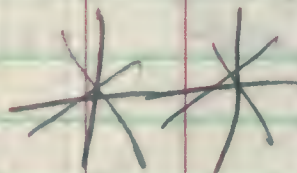
Focus 15.11 reset 15.12 22h

Dome Temp.

Transparency Conditions

Some Arrives at dusk 270
20:20 Dr Raeder + 30 students shown
telescope

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
18:34	15W	56°-54'	3-5"	4.95	ASa	3-3-3	Set 3 WRONG STAR (1/2 NORM) 1/2 SET focus reset!	20/12 WEAK
19:00	33W	+02° 00'	4"	5.24	A8	3-3-3	Set 5 FBSC *	10/12 FINE
20:16	50W	+14 17	3-5	5.56	M35	3-3-3	Set 9 FBSC *	40/120 FINE
22:57	0 ⁿ 53W	+6° 53'		3.36	G011-117	9	Set 2 FBSC *	10/20 FINE



Shutters Will NOT Close

SPUR GEARS SLIPPING. HV

2 PH in drawer empty in apelling room
PH #2 II a O? empty? / 8-clamp not working

271

Miss Westcott Vinton 60 Eo 1800-1930

Date Mar 7/8Observer Dy-Ft/R1-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T. local	P.L.
31028	119 Tau	05 ^h 26.4	+18° 31	25	103a0	.008	-4°C	2038	2109	3
31029	HD 43818	06 ^h 13.2	+23° 30	25	103a0	.008	-4°C	2124	2227	4
31030	β Cnc	08 ^h 11.1	+09° 30	25	103a0	.008	-4°C	2243	2246	3
"	"	"	"	"	"	"	"	2247	2300	"
31031	HD 109011	12 ^h 26.5	+55° 40	"	"	"	"	2320	0544	2
31031F	focus test						-3.8°C			

Dome Temp. 18° Transparency Conditions *good* → fair → poor

272

Focus

Dome Temp. $18^{\circ}F$

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2109	0209 W	+18° 34'	~3"	4.73	M2J6	3-3-3	10/40 Set 2, MK	weak
227	0255 W	+23 30	"	6.79	B0 II	3-3-3	10/12 Set 2, few cirrus. MK	SL. WEAK
246	0116 W	+09 18	"	5.0	K4 II	3-3-	10/20 Set 2, 1xN MK	weak
300	0131 W	"	"	"	"	10/40 Set 5	2xN. MK	fine
314	0402 W	+55° 17'		9.1	K22	3-3-3	100/291 Set 2 MK (At 9:00 PM, 3 PLATES LEFT) SL. STRONG (100)	
							chosen because of plate shortage	
							20/16 focus 15.13 275	OK
							P.H. #4 10300 in N.P.	

273

Date Mar 8/9

Observer Dy
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.
31032	HR 1327	4 ^h 11.3	+64° 54	25"	10340	.008	+4°C	1912	19 35	4
"	"	"	"	"	"	"	"	19 35	19 52	4
31033	θ^2 Tau	04 ^h 23.0	+15° 39	25"	10340	.008	+4°C	2000	2001	3
"	"	"	"	"	"	"	"	2001	20 05	3
"	"	"	"	"	"	"	"	20 05	20 12	3
31034	i CMa	06 ^h 51.7	-16° 55	"	"	"	"	20 20	20 37	1

Dome Temp. $+32^{\circ}\text{F}$

Focus 15.225

Dome Temp.

Transparency Conditions *partly cloudy*
cirrus

279

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 21	2:07W	$+64^{\circ} 52'$	~ 3	6.1	G5 ^{III}	3-3-3	10/40 MK Stand. Set 2	SL. STRONG (GUIDING)
0 22	2:22W	"	"	"	"	3-3-3	10 Set 5	SL. WEAK
0 201	2:24W	$+15^{\circ} 39'$	"	3.6	A7 ^{III}	—	10/6 Set 2 MK Std.	WEAK
0 23	2:28	"	"	"	"	—	10/12 Set 5	SL. WEAK
0 24	2:35W	"	"	"	"	3-3-3	10/24 Set 9	FINE (GUIDING)
0 27	2:34W	$-17^{\circ} 00'$	5	4.3	B3 ^{III}	4-6	20/24 ⁶ Set 2 Clouded out! (2 PLATES LOADED ^W CO'S) * ENDS OF PLATES SLIGHTLY FOGGED	VERY WEAK
							** Shutter gears jumping on closing	
							** slow motor 2 started & stopped on own with telescope on platform. Possibly caused by stepping on wire at secondary mirror.	
							Dome TELESCOPE UNLOADED	

Dome Temp. +21

Focus 15.16

Dome Temp.

Transparency Conditions

Hazy - some clouds.

276

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
19:00	W 2 36	24 23	2"	4.2	B6V	3-6	MK Std set 5	10/6	SC. WEAK
	W 3 07	24 23	2"			3-3-3	" " 9	10/12	FINE
	W 2 59	24 12	2"	5.4	B7V	3-3-3	" " 9	10/2	FINE
			3"	5.6	BIV	3-3-3	" " 5	10/6	WEAK
	W 4 10 ^m	34 16	4"				" " 9	10/24	STRONG
	W 2 55	33 56		5.3	A5V	3-3-3	" Pent prism to 15.20	10/6	WEAK
				1.9	A0IV	-	"	10/6	FINE
	W 1 51	16 28	2"			9	"	10/24	STRONG
	W 1 57	25 10	2"	3.1	G816	9	" set 5	10/20	FINE
		+3 59	2"	5.74	B0V	6-3	"	10/6	WEAK
	W 2 51						"	10/22	FINE
	W 1 48	33 25		6.12	A77	3-3-3	Fitzgerald prog.	10/20	FINE
				5.69	A3		" "	Thickening - cloud.	OK

Dome Temp. 10°

Transparency Conditions

278

Focus 15.09

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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?

+48° 19'

6"

5/

SOI₆

3/

Set 2

BLACK*

* unexposed plates are OK.

** Exp meter not working!
clouded in.

* Battery charge fine blown

Dome Temp.

Focus 15.16

Dome Temp.

Transparency Conditions

280
 very low laying fog
 fog closing in at 05:00

Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0412 W	+4°26'	3	6.28	B8	3-3-3	Sp. Bi. ^{at 2} at 2	20/24 WEAK
0406 E	-10°25'		6.2	B9	3-3-3	at 5	20/24 WEAK
0421 E	+35°25'		4.7	A 20	3-3-3	MK-STD at 5 1/2 N	20/12 FOGGED
0452 E	-00°28'	4	4.9	B6 V	3-3-3	" " at 5 1 x N	20/24 ^{SL} WEAK
1412 W	+17°54'	2-3	6.5	DF2	3-3-3	Filg prog. at 2	20/40 WEAK

FOGGY AFTER Midnight
 No STARS - Moon Occasion
 REPAIRS TO Spectrophot.
 till 3:30 AM.

281

Date Mon Tues Mar 18-19/68 Observer HD-HK / Sc - mse Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
31048	LCMa	06 ^h 51.7 ^m	-16° 55'	I-25	103aD	008	+5°C	19:05 ⁽⁵⁾	19:10	2
"	"	"	"	"	"	"	"	19:13 ⁽⁶⁾	19:15	1
31049	119 Tau	5 26.7	+18° 31'	"	"	"	"	21:06 ⁽⁷⁾	21:10	1
								21:11 ⁽⁸⁾	21:28	
31050	V ¹ Suv	6 17.2	+49° 20'	"	"	"	+5.1	21:40 ⁽⁹⁾	22:02	2
								22:00 ⁽¹⁰⁾	22:32	"
31051	25 Gem	6 35.1	28 17	"	"	"	"	22:41 ⁽¹¹⁾	23:21	3
31052	HR 2645 HD 52860	6 57.7	47 54	"	"	"	"	23:38 ⁽¹²⁾	23:56	4
31053	} HD 102494 HD 122693 HD 131861	11:42.7	+27° 53'	"	"	"	"	0:10 ⁽¹³⁾	1:50	1
31054		13:58.3	+25° 03'	"	"	"	+5.4°	1:59 ⁽¹⁴⁾	4:05	1
31055		14:50.9	45° 43'	"	"	"	"	4:11 ⁽¹⁵⁾	5:31	2

207

Date March 24/25 1968 Observer R. Ny Go - Bh^{Hv} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour An End
573-1 to 10								19.30	22.00		
31056	HD 90254	10 ^h 20 ^m 0	+09° 18'	525	103a 0	1018	+2.5°	22.34	03.45	1	01.18
31057	HD 115043	13 09.5	57 14	"	"	"		01.25	01.57	2	5.1
31058	HD 145792	16 ^h 07 ^m 7	-24° 10'	"	"	"		02.12	03.24	3	
31059	HD 152909	16 ^h 51 ^m 2	-19° 22'	"	"	"		03.36	04.28	4	
31060	" 145801	16 03.6	+17 19	"	"	"	-2.5°	04.44	04.56		

Dome Temp. 19°F
 Focus 15.17
 Dome Temp. 130°F

Transparency Conditions Good

234

20 30 very hazy

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Cloud. Added weight to dec counter	
	2 ^h 18 ^m W	58 37	5"	5.0	gM3	3/3/3	weight ^{added} added telescope oscillating in R.A. set 2 (FBSC) 20/60	SL-WEAK (POOR GUIDING) OK
57	0 ^h 37 ^m W	56 53	3"	7.3	G1I	3-3-3	set 2 MK STD 1/2 N. 20/20	OK
32	0 ^h 50 ^m E	-24 18	5"	7.0	B8	3-3-3	" 2 B8-B9 40/40	SL-WEAK
4:28	0 ^h 50 ^m E	-20° 30'	"	7.0	B8	3-6	" 2 " " 40/48	FINE
4:50	0 ^h 44 ^m W	+17° 7'		6.1	G4	3-3-3	" 2 STD V. / Southern at Pair. 10/20	FINE
							PH #2 Loaded 10300 in N. Pos	

Dome Temp. 40°F

Focus 15.30

Dome Temp.

Transparency Conditions very poor - cirrus 286

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:15W	37 51	4"	5.0	A0V	3-3-3	Set 2 MK Std	20/24 SL-WEAK
00:05E	10 01	5	3.5	A+F6	4-4	set 2 FB SC*	20/40 FINE
0 46W	14 11	5	5.41	gM2	3-6	set 5 FB SC* jumps ind!	46/120+ /d VERY WEAK
clouded out @ 22:40 @ >32 counts							
4 PH loaded 102a 0							
A. signal stopped - could be caused by cloud but							
PH 3 <u>not broken</u> * 1 Spring gone in PH# [?] ↓ probably not							
TEL found <u>not</u> on platform							

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Date 28/29 Thu/Fri. March 1968 Observer HB / HK ^{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.
31064	21 Leo Mi	⁹ 10 01.5	+35 44	T21	103aD	008	13°C	21 01 [Ⓟ]	21 20	1
31065	HD 83869	⁹ 10 36.2	+48 53	"	"	"	"	21 30 [Ⓟ]	22 20	2
31066	HD 87015	09 57.2	+22 26	"	"	"	13°C	22 28 [Ⓟ]	22 43	"
31067	HD 87822	10 02.5	+32 06	"	"	"	"	22 50 [Ⓟ]	00:09	"
31068	" 105639	12 04.6	+02 28	"	"	"	"	00 25 [Ⓟ]	01 53	3

Dome Temp. 48°F

Focus 15:36

Dome Temp.

Transparency Conditions Hazy, thick CI in south ²⁸⁸

frank →

2145: light on spotter not working, FIXED
2700 - increasing clouds, really deteriorating

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	3 2 3 Comp.	REMARKS	Quality
22	00 36 E	+35° 24'	good ~1-2"	4.7	A7V	3/3/3	Set 2 MK Std. [Exposure meter integral] 80/100	FINE
22	00 49 W	+48° 35'	~1"	~6.4	AU	3/3/3	Set 2 Fitzgerald + circs 80/100	FINE
22	00 50 W	+22 06	"	~5.2	B3	3/3/3	" 5 } " generally clear 80/100	FINE
01	02 12 W	+31° 46'	2-4"	~6.5	F5	3/3/1	" 9 } " Ac 80/160	FINE
01	01 55	+02 06	~4"	6.5 _W	gG8	3/3/3	Set 2 " 80/120	WEAK
CLOUDS.								
P. 1-4 Loaded in N.P.R.								
ALL OVER PLATES IN FRIDGE.								
SPOTTER LAMP REPLACED								
EX. MTR. REPAIRED								
W. 5:15 AM on board								
0350 Sold about.								

Dome Temp. 39°F

Transparency Conditions Fair

240

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Clouds.

Dome Temp. *44°F*

Transparency Conditions *Fair*

292

Focus

Dome Temp.

Ending Time
EST.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Some clouds.

*Scattered clouds — ~ 0230
FOG — 0400*

Dome Temp.

Transparency Conditions

Some haze

296

Focus *15.27*Dome Temp. *34.0*Ending Time
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 08 W	36 13	1-2	8.95	M2V	3/3/3	<i>lit 5 MK III. 400/952</i>	<i>SL. STRONG</i>
					<i>20/16</i>	<i>lit 2 focus 15.27</i>	<i>OK</i>
						<i>clouded out</i>	

Dome Temp. 22° F

Transparency Conditions Fan

298

Focus

Dome Temp.

Ending Time
EST.

125

439

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		6"				① RA Fuse blown — <u>NO SPARE FUSES!</u> pulled N ^o 5, into RA (N ^o 6). AURORA IN NORTH AFTER 0300	
						② DEC LIGHT SWITCH DOESN'T HOLD.	

Dome Temp. 22°F

Transparency Conditions

fair - some cirrus

300

Focus 15.20

Dome Temp.

Ending Time
EST.

20

20

20

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 47 W	+41:47	4"	5.84	A2	3-3-3	Set 2 Fitzgerald Bright * 20/24	STRONG
4 32 W	36 31		5.74	M35	3-3-3	5' 20/36	FINE
1 24 W	-20 24	0	6.0	09II	3-3-3	" 2 1/2 MK Lander 20/24	FINE
					20/16	" 7 1/2	OK IN UT.
						2 PH's loaded in pair	

303

Date April 10/11 1968 Wed/Th Observer F - F Julian DayBz - mel

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
31073	HD 90559	10 22.4	10 16	I-25	103a0	.008	5.9°C	20:41 ⁴⁵	21:27	3
31074	HD 89904	10 17.4	34 25	"	"	"	"	21:30 ³⁵	22:05	"
31075	HD 90040	10 18.4	34 13	"	"	"	"	22:08 ³⁵	23:23	"
31076	HD 95810	10 55.2	39 05	"	"	"	"	23:52²⁷	0:19	4
31077	HD 95708	10 37.0	20 43	"	"	"	5.9°	0:25¹³	0:38	"
31078	109 VIR	14:41.2	+2° 19'	I-25	103a0	.008	"	0:44 ⁰	0:53	1
31079	HD 115 043	13:09.5	57° 14'	I-25	103a0	.008	"	1:02 ¹⁹	2:21	2
31080	MHA 228-116	19:55.0	39° 41'	I-25	103a0	.008	"	2:43 ¹³⁴	4:47	3

Dome Temp. 32°F
 Focus 15.245
 Dome Temp. 25°F

Transparency Conditions *hazy (passing clouds)*
bright moon
 21:5 → *intermittent clouds from NNE.*

304

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:27	0h	9° 55'	3"	6.03	A _p	3-3-3	Set = FBSCX	20/24 STRONG
2:05	0h 43m W	34° 05'	3"	5.69	A3	3-3-3	" 5	20/24 STRONG
3:23		33° 54'	2"	5.56	gk1	3-3-	" 9 [P.H. red on bank 1]	20/40 SL. STRONG
4:09	W 2:20	29° 24'	3"	5.07	F0m	3-3-0	Set 25	20/24 (SPOTTED) (OK)
4:38	W 2:34	22° 22'	8"	4.15	A_m	3-3-3	" 9	20/24 (PH. WAS LOADED BEFORE APR 19th) IN PLATE HOLDER
4:53	E 0:51	+2° 02'	3"	3.7	A0V	9	Set 5 mk (IX V) CHECK FIELD	20/24 STRONG
4:22	2:09 W	56° 53'	4"	7.3	G1V	3-3-3	Set 2 (VAVN)	20/20 FINE EMISSION ONLY
4:57	2:07 E	31° 42'	2"	~10.8	Em	3-3-3	Set ~5	20/30

DAWN

2 PH loaded in pier

GERRY:

NOTE:- P.H #1 HAS BROKEN SPRING
 (SEE NOTE MAR 27/78) repaired

305

Date Thurs. Apr. 11-12/68 Observer HV - R1 Julian 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.
31081 ⁷⁹	3 Geyr	06 03.7	+23 08	I-25	103a0	008	+8.0	19 44 ⁽²⁰⁾	20 04	4
31082 ⁸⁰	ψ ' Ans	06 17.2	+49 20	"	"	"	+8.0	20 10 ⁽⁸⁶⁾	21 36	2
31083 ⁸¹	HD 90861	10 24.3	+29 05	"	"	"		21 46 ⁽³⁴⁾	01 40	3
31084 ⁸²	HD 171232	18 28.5	+25 25	"	103a0	016		01 59 ⁽³⁸⁾	04:17	4
31085 ⁸³	HD 174567	18 46.0	+31 31		103a0	008		04 29 ⁽²⁶⁾	05 05	1
31085F	focus test		OTB/ITA				+7.5			

Dome Temp. 34 F

Focus 15.275 ← 15.225

Dome Temp. 32°F

WRONG SETTING

open die to 012
 + work on fragment
 of 32V

Transparency Conditions FAIR

306

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 04	W 3 00	23 09	2"	6.0	B ₂₁ -J ₆	3-3-3	MK set. 10/6 of clock is right star is wrong (i.v. 608.6)	FINE
1 36	W 4 18	49 20	2"	5.0	M ₀ I ₆	3-3-3	" 10/30	FINE
1 40	0416W	28 46	2"	8.36	K ₂ II	3-3-3	Sec. Std Vel. 40/72	SE. STRONG
4:17	1°08E	25°30'	3" 6"	8.66	G8II	3-3-3	" 100/200 set 5	SE. STRONG
505	0039E	31°35'	5"	6.5	B9	3-6	B8-B9 SET 5 20/19 20/16 set 9 focus 15.225	SE. STRONG INSIDE EXTREMELY WEAK (FOCUS OK)

DAWN

2 loaded P.H. in N.P.

308

Ending Time
E.S.T.