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for 6000: If c to vi then decrease the reading
" c to red " increase the reading

make all settings with increasing numbers

less

7

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

2

[illegible]

Date Tues/Wed, Feb 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	HD 147889	16 19.4	-24° 14'	G40	IIaob	17	66°	21:08	21:40	1:12.4
520-1524	NGC 6135	18 26	+18° 08'				59°	21:05	03:00	
30560	NGC 6135	22 40.8	+19:04	G12	IaO	9xL	60°	03:12	04:15	1:10.1
								6:40 - 1:34		
								2CH : 4:55		
# 30560 T1	calibration step wedge			G40	IIaO					
# 30560 T2	calibration step wedge			G40	IIaOb					
# 30560 T3	calibration step wedge			G40	IaO					

Dome Temp. .. 60.....

Transparency Conditions *Very good*

4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
1:12W	-24° 21'	5"	7.9	1331	15/15/15	G40		VERY WEAK
		7"					2nd channel packed up! Counter looking in hold.	
3:30W	+19° 05'	5-6	5-6	?	15/15/15	G12	Broken into 5 pieces still in plateholder there is half a plate with H ₂ O undeposited 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 26-7/67 Observer Mise - Del Julian Day 60

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H	How Ang End
30561	NOVA DEL	20:40.8	¹⁹⁴⁸ +18° 59'	640	Ilad	13XL	69°F	22:50	23:05	C	21.37
30562	"	"	"	"	"	"	"	23:10	23:17	A	
52181-17	NGC 142 NGC 143							23:27	03:55		
30562T1	calibration step wedge			640	Ilad						

Dome Temp.

- DECLINATION VARIABLE SPEED
NOT WORKING.

6

Exposure Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
3:05	E 1:37	19° 04'	~3"	?	?	15-15-15	G40	FOCUS 42.5	OK
3:17	A	"	25"			15-15-15	G40	EXP. BOX #1	(NO EXP. MTR BALANCE AT 600 V.) (GUIDING) FINE
3:55			4"						
for plate 30561, 30562						Conf. 7/14/25 July 1967			

7

Date *Fri - Oct 28/29 July 1967* Observer *Bd, Max, C1, h, KAL* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
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	Focus test			G40	IaO		64°C			B	

Dome Temp. 69°Focus 42

Dome Temp.

Transparency Conditions Clear

9

g Time S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
41	A	E 3:48	+46° 0'		4.89	?	12	G40	55 Cyg.	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 WEAK COMP
5	A	W 3:04	+46° 0'		4.89	?	12	G40	55 Cyg.	GUIDING
	B						5-5	G10		NO OUTER COMPARISON

9

Vistors ~~Re~~, En, Jn 169 GoDate ~~Sept 29/30~~ 29/30 July 1967 Observer ~~Re~~ 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.
30566	+47°1283	21 ^h 01 ^m	+16° 02'	G40	IaO	24XL	70	23 03	30 00 03	B
30567	Nova Delphini	20 ^h 40.8	+19° 02'	G40	IIaOB	13XL		00 08	5 00 18	A
30568	Nova	-	-	G12	IaO	2XL	68	00 24	33 01:30	C
30569	299819	22 ^h 01 ^m	-14° 21'	G40	IIaOB	17XL		01:28	11 01:49	A
30570	216494	22 ^h 48.2	-12° 09'	G40	IIaOB	17		01:51	8 02:06	B
30571	222847	23 ^h 39 ^m	-18° 50'	G40	IIaOB	17		02:09	8 02:24	A
30572	192659	20 10.9	+41 48	G40	IIaOB	17		02:29	11 02:50	B
30573	192276	20 09.0	+47 26	G40	IIaOB	17		02:54	10 03:14	A
30574	199892	20 54.9	+41 33	G40	IIaOB	17		03:24	10 03:44	B
30575	193964	20 18.0	+61 56	G40	IIaOB	17		03:48	7 04:01	A
30575 F1	Focus test			G40	IaO					B
# 30575 T1	calibration step wedge			G40	IaO					
# 30575 T2	"	"	"	"	"					
# 30575 T3	"	"	"	"	IaOB					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

00:50 E

00:12 E

01:00 W

00:06 E

00:39 E

01:06 E

02:49 W

03:4 W

02:39 W

03:51 W

for plate

for plate

Dome Temp.

Focus 4.2

Dome Temp.

Transparency Conditions Thin Cirrus (1xw)

10

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
0050E	+68°01	1.2	7.8	BSe	15/15	G40	Guided on reflection nebula south (N15") (De Duih) this star: set star in East most edge of slab for 10 min Aurora low in water for ~ 20 min	SL. FOGGED
0012E	—		5.6		15/15/15	G40	Wale pan BOX NO2	STRONG
01:00W	+19°03	1	5.6		15/15	G12	Photometric pan 0115 →	FINE WEAK COMP
00:06E	-14°00		4.3	B8	15/15/15	G40	(de) B8-B9 SpB	L. STRONG (WIDEN)
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
02:49W	+42°03		6.37	B8	15/15/15	G40	B8-B9 SpB no number on plate	(WIDEN) FINE
03:14W	+47 41	0	6.6	B8	15/15/15	G40	B8-B9 SpB	FINE
02:59W	+41 51	0	6.0	B9	15/15/15	G40	B8-B9 SpB	FINE
03:52W	+62 11	0	5.6	B9	15/15/15	G40	B8-B9 SpB	FINE
						G12		FINE
for plates 30563, 30566, 30568							D-19/ 73°F // 31 July/67	
DUPLICATE							"	
for plates 30567, 30569 - 30575							Genf. / 75°F // 1 Aug 1 Aug	

Date Sun 14 Nov 30/11 2007 Observer SA/Ge Julian Day 2454910.5[illegible]

Dome Temp. 64°F Focus 42

Dome Temp.

Transparency Conditions Hazy
 $\text{Scattered clouds after 22:30}$

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

G01

15/30

G40

SD 3072 B-V = 3.26 capped 22:58
uncapped 23:28
23:47 Gave up! too cloudy(GUIDING)
STRONG

for plate no. 30576

D-19/ 93°E // 3-july/67

Date Mon 31 July 1967 Observer Ea GO Ri / Mlt Julian Day 171

[illegible]

Dome Temp. 65°F

Transparency Conditions Good

7.9

Focus

Dome Temp. 60°F

ing Time
S.T.

P.E.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

FILTER

REMARKS

Quality

4"

Date Tues, Wed, Aug 1-2/67 Observer Db/Far. Go Julian Day 174.5

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

Hazy around horizon at 16
sunset.ing Time
S.T.

P.M.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

FILTER

REMARKS

Quality

2^h:56 W 1-12° 20 2-3" 9.9 BIIB 15/15/15 G40 DB-OB Programme #24 - ^{Field Cherns:} ^{Intermittent haze!} WEAK
 * Solid cloud for ~1 hr (2230-2336)

for plate #30517

* N.B. *

BOTH BOXES OF EXPOSED
 PLATES WERE LEFT IN CASE
 ALSO BOTH BOXES OF UNEXPOSED
 PLATES WERE LEFT IN CASE
 AND FOUND BL EA Ai
 WED. NOON. Ga-Fa

Date THURS-FRI AUG 3-4/67 Observer Dd-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-Angl End
30578	NOVA DELPHINI	20 ^h 40 ^m 8	18°59'58"	G40	IIaOb	13xL	72°	23:20	23:36	A	0°33'
30579	NOVA DELPHINI	"	"	G12	IaO	9x2	72°	23:45	00:52	C	0°43'
30580	HD 193964	20 ^h 18 ^m	+61°56'	G40	IIaOb	17xL	70°	01:11	01:45	A	1°56'
30580F	focus test	mini/out out 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 EST.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
36	A	0 ^h 33 ^E	+19° 04'	5-6			13/15/15	G40		FINE
52	C	0 ^h 43W	+19° 04'	3-7			15/15/15	G12	<i>hazy broken in plate holder</i>	SL. WEAK (GLIDING)
45	A	1 ^h 56W	+62° 10'	5-6	5.6	B9	15/15/15	G40	<i>BB-B9 5B1 clouds lightning in the south</i>	SL. WEAK
	B						5/5	G12	<i>no number on it</i>	V.P. SL. C. TO RED.
for plate 30578, 30580							cenf. / 71° E // 4 Aug 1972			
for plate no 30579							D. 19 / 72° E // 4 Aug 1972			

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	00 ^h :57	A 03° 00W
30582	NOVA Delphini	20 ^h 40.8	+18 59	G40	IIaOb	13XL	-	01 ^h :03	01 ^h :17	B 01° 11W
30583	NOVA DELPHINI	20 ^h 40.8	+18 59	G40	IIaOb	13XL	(42.0) 60	01 ^h :18	01:30	F 01° 24W
30584	HD 204 934	21 ^h 26.8	+27 56	G40	IaO	17	60	01:34	04:00	C 03° 06W
								Clouded in.		
								(G40 = 7.10)		

Dome Temp.

Focus

Dome Temp.

Dome Temp.

Transparency Conditions

Very Good

photometric.

light clouds, all around at $\sim 03^h 30^m$

20

[illegible]

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

27

Visitors: Rm, Bn, Bd

77 1st
58 2nd
$$\begin{pmatrix} m13 & 16^R & 40.5^m \\ & +36^\circ & 34' \end{pmatrix}$$
Date 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 ⁸⁵	-12° 5083	18 29.4	-12° 25	G40	Ia0	17	65° (42.0)	22:07	79 00 ^h 45	A	02.55W
30585 ⁸⁶	HD 192666	20 10.5	-12 39	G40	IIa0b	13xL	58°	01:03	12 01:15	B	0.5W
30586 ⁸⁷	19 9280	20 51.1	-03 57	G40	Ia0b	13xL	58	01:41	13 02:07	C	0.3W
30587 ⁸⁸	223311	23 43.1	-06 16	G40	IIa0b	17	58	02:21	36 03:33	A	0.6W
30588	HD 1256	03 11.7	21 46	G40	Ia0b	17	58	03:40			

(G40 - 4:38)

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

ing Time
S.T.

P

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp. FILTER

REMARKS

Quality

02 55W

-12° 19'

3-4"

9.9

B1Ib

16/17/17

G40

Db-03

Programme #24

Cloudy at 2145 -
Cleared off at 2200

SL. WEAK

01 49W

-12° 24'

"

6.4

B9

15/15/15

G40

B8-9

Fopping device came apart - plate
could be fogged.

(GUIDING)

SL. WEAK

01 53W

-03 38

6.45

B9

15/15/15

G40

B8-9

SL. WEAK

00 26W

-06 33

3"

6.3

g/k4

15/15/15

G40

Std. Vel.

Thick Cirrus

FINE

~~20 21~~~~4"~~~~6.4~~~~B8~~~~15/15/15~~~~G40~~~~B8-9~~~~SB~~

Clouds. / Clouded out

23

Date Aug. 6-7/67 Observer Db-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.	Hour Angle End
30588	-13° 5166	18 52.9	-13 31	G40	IaA	17	65°F	20 39			
30588 89	-12° 5083	18 25.8	-12 25	G40	IaO	17		22:24 (68)	00 40		
30589 90	50° 40.8	20 40.8	+18 59	G40	IaOb	13XL	64°	02:06	02:24		
30590 91	HD 199892	20 54.9	+41.33	G40	IaOb	13XL		02:32	03:12		
								Clouded over completely			
30591 T1	calibration strip wedge			G40	IaO						
30591 T2	calibration strip wedge			G40	IaOb						
								(G40 - 3:14)			

Dome Temp. 67

Focus 42.2

Dome Temp.

Transparency Conditions POOR - VARIABLE

2300-Clouds S→N

24

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
01 ^h 13	-	4"	10.6	B0I-II			Clouds..2045 - capped uncapped at 21 ^h 22	
02 54	-	3-4"	9.9	B1Ib	16/15/15	640	Db-OB Programme #23, Db-OB Program #24	WEAK
02:25W	-	3-4"	5-6		15/30	640	hava	(GAL/DING)
02:59W	+41 51	3-4"	6.0	89	15/15/15	640	B8-B9 Sp. Binaries + Fuse went Field checks.	SE. WEAK (GAL/DING) SE. WEAK
							Quite thick cloud throughout	

for plates: 30581, 30584, 30585, 30589 / D 19/73°F / 5 Ang

for plates: 30582, 30586-30588, 30590, 30591 / Temp. / 73°F / 5 Ang

Date 11/12 Aug 1962 Fri/Sat Observer Db/Go-Hb Julian Day 175

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30592	BD-1104674	18 ^h 23. ^m 2	-11° 16'	CAVO	J20	17	62°	20 26	00 29	
524-10113								0040	0430	
								G40 = 4.44		
								2CH = 3.50		

Dome Temp. 58° Focus 42.1

Dome Temp.

Transparency Conditions $\text{Good. Some cloud at } 2030$

26

ing Time
EST.

P

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

FILTER

REMARKS

Quality

03^h:00W $-11^{\circ}11'$

2-3"

11.3

09.5T

16/17/16

440 Db-OB Program #21

windy at $\sim 10^{\text{h}}30$, seeing $4^{\text{h}}5'$
(+ low altitude)Exposure meter was
aligned by Ri-Ea.

45L.W.K.

Shut left uncovered (Re)

Visitors Geo, Sd, WA ~ 180

Date Sat Sun Aug 12/13 Observer Go / RvR Julian Day

[illegible]

Dome Temp.

Transparency Conditions Photometric

28

Focus

Dome Temp. 56ding Time
E.S.T.

PI

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

Filter

REMARKS

Quality

0050E

+19° 0 +'

0

5-6

15/15/ G40

L. STRONG

Photometric all the way.

Spectrograph left uncovered (Db)
(Dust cap not on)

Date Sun-Mon, Aug 13/14, 1967. Observer Db-Ri Gv Julian Day _____

[illegible]

Dome Temp. 56 °F

Transparency Conditions Low clouds on horizon at sunset, but good + clear - Cumulus puffs in S.

30

[illegible]

37

Date *Mon - Tues Aug 14/15, 1967* Observer *Db-Gs/Sd* Julian 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	IaO	17	67°	20:23	23:33	C
527-1617	NEC 68M, 752							23:45	04:16	
								G40 = 3:12		
								204 = 4:31		
30595 T1	calibration strip wedge			640	IaO					

Dome Temp. 60

Transparency Conditions Clouds + hazy sky at sunset
After 22:00 hazy but not cloudy

After 22:00 hazy but not cloudy

D-19/ 14. H 15 Aug

* 1a O exposed in box #1.

33

Date 15-16 August 1967 Observer M. S. - D. L. Julian Day 240
Tues - Wed

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30596	NOVA DEL.	20:37.7	+18° 48'	G40	IIaB	13xL	71°F	20:28	20:46	A
30596 F1	focus test in in/and out			G40	IIaB	13				
30597	HD 171344	18 29.3	-13° 57'	G40	IaO	20		21 ^h 07	23:57	
							68°F			
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	IIaB	13xL		3:08	3:38	B
30601	HD 1256	0:11.7	-20° 46'	G40	IIaB	13xL	65°F	3:50	4:20	A
30601 T1	calibration step wedge			G12	IaO					
30601 T2	calibration step wedge			G40	IIaB					

Dome Temp. 63° F

39 -

[illegible]

Date 16-17 August, 1967

Observer L-Msk-(Db)

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Very Hazy!!

36

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filtered	REMARKS	Quality
				10.680	I-III			D6 OB 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.
528-165								20 ^h 15 ^m	22 ^h 00 ^m	
30602	BD-0°3584	18 48.4	-0° 41	G40	Ia01	<u>21</u>		22 21	00 ^h :55	A
30603	HD 212883	22 22.4	+36 57	"	IIa0b	13	58	01:43	01 50	A
30604 A	HD 213947	22 33.1 29.9	+26 32 05	"	Ia0	17		02:08	03 10	A
30604 B	"	"	"	"	"	"		03 12	0336	B
30604 T1	calibration step wedge			G40	Ia0					
30604 T2	"	"	"	"	IIa0b					
	2 ch. photo = 1:45									
	G40 = 4:08									

Dome Temp.

Focus 42

Dome Temp.

Hour Angle
End

0103W

0215W

0241W

for photo

for photo

Dome Temp. 62°F0245 GUIDER FIXEDTransparency Conditions Clear

38

Focus 42Covers at ~ 2140. Clear again at ~ 23^h

Dome Temp.

0130 EXIMTR Aligned

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
		7"					Photometer lights repaired. Clouds.	
03 ^h 40 ^m W	-0° 35'	3"	9.96	08	15/15/15	G40	DB-OB #12 [10-15 minutes lost through haze]	* OK
0103 W	37 17	5"	6.12	B2	145		B-STD VEL. EX. MTR CHECK 100/5	WEAK COMPARISON OK/GUIDE
0215 W	+26 27	3"	8.93	K4 III	15/15/15	G40	SEC. STD. VEL. EX. MTR. CHECK 400/93	* FINE
0241 W	"	2-3	"	"	15/15/15	"	" " " " " " " 400/46	SL. WEAK

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

D-19 / 70°F / 21 Aug.

"

* TOO MANY FINGERPRINTS ON
PLATE !

IaO Box 1

IIaOb Box 2

Date Aug 22/23 1967 Observer Mse/Dd Go Julian Day 174

[illegible]

Dome Temp. 57.....

Transparency Conditions Photometric.....

90

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

FILTER

REMARKS

Quality

10"
to 4"

Good night

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	IAO	9:L		20:15 ²⁰	20 55	C
530-110 32								21:05 ²¹	01:00 ⁰¹	
30605-1	calibration stars unexposed			G12	IAO					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

157E

on flat

Dome Temp. 50 °F ..

Transparency Conditions ... *Very good*

42

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
1 57 E	19 06	2	?	?	10/10/10	G12		FINE
		4"						
for plate no 30605					D-19 / 69°F // 24 Aug 1967			

Date Aug 24/25, 1967

Observer Moe-Ch. Gu.

Julian Day

[illegible]

Dome Temp. 62°

Focus

Dome Temp.

Transparency Conditions

Haze but clear. Clouds on West, then East horizons / INTERMITTENT CLOUDS AFTER MIDNIGHT

* AUTO-GUIDER DRIVES IN I DIRECTION ONLY

Leading Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
3.5.	A W 2:52	$-13^{\circ} 22'$	3"-4	10.58	BO II-III	16/14/16	40 Db-OB	Programme #23 [Quite hazy at times. Images very faint.]	OK
								Clouds.	
2:19	C W 3:34	$+19^{\circ} 05'$	3"	?	?	10-10-10	*	Thick clouds after 2:15 * PLATE IN 2 PIECES 100/88	(GUIDING) FINE
								I am GYO: Box #1	

45

Date Li Sal Aug 25, 26 Observer Ri D'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.L.	Hour Angle End
30608	NOVA DER	20 40.8	18° 59	G40	Fluob	17	67	19:52 ⁶	20 ^h 03	A	0 ^h 34 ^m
30609	-13° 5166	18 52.9 ¹⁹⁶⁷	-13° 31 ¹⁹⁶⁷	640	IaO	23 ^(slightly short)		20:10 ¹⁰⁹	23 ^h 48	B	0 ^h 49 ^m
30610	NOVA DER	20 40.8	18° 59	G12	IaO	9xL		23:57 ³²	01:00	C	2 ^h 16 ^m
30611	HD223094	23 41.5	+28° 09	G40	IaO	17	63	01:15 ³³	02:20	A	0 ^h 34 ^m
30612	HD 4388	00 41.1	+30° 25	G40	IaO	17		02:30 ³⁸	03:45	B	0 ^h 00 ^m
306 ¹² 18	T1 calibration strip wedge			G40	IaOb						
306 ¹² 12	T2 calibration strip wedge			G40	IaO						

Dome Temp. 64

Focus 42

Dome Temp.

Transparency Conditions

Thin, a haze - very low, 46

Clear above the haze.

Clouds from sunset 02:00

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:03 A	02 ^h 34E	+19° 07	3	>5 ^m	?	15/15/15 G40	Nova Del	VERY WEAK
01:48 B	02 ^h 49W	-13° 20		10.5	BOII-III	15/15/15 D6-OB	Programme #23	WEAK
01:00 C	02 ^h 16W	+19° 05	3	?	?	14/10/10 G10	Nova Del	FINE
02:20 A	00 ^h 34W	+28° 32	3	8.97	K5 III	15/15/15 G40	SEC. STD. VEL.	FINE
03:45 B	01 ^h 00W	+30° 47	4-5	8.80	K3 III	15/15/15 G40	SEC. STD. VEL. haze + clouds	FINE
for plate no 30608 for plates 30606, 30607, 30609-12 24 15.5 23 17.5 23 44.1 24 41.1 1 25.6 IIa 06 - Box 2 Ia 0 43								

[Very faint image during
the last hour due to
haze + low altitude.]
Capped finally.

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

Date SAT/Sun Aug 26/27 Observer..... Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

48

ading Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

49

Date Mar-Lin Aug 28-29/67 Observer P, D, B, 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.I.
30613	BD -13° 5166	18 ^h 52.9	-13° 31	G40	Ia0	24 ^(sl.) 64		20:10	23 ¹⁰⁴ 38	A
532-1618	NG 1752, 790							23:50	04:40 ^m	
30613	T. calibration step wedge			G40	Ia0					

Dome Temp. 58°FTransparency Conditions Clearing up.

50

Focus 4.2Dome Temp. 58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 ^h 38 ^m A	N 02° 50'	-13° 20'	3-4"	10.5	BO II-III 15/15/	G40 Db-OB Programme #23 "Box #1 Track with 2nd channel (A) [-] Dark current]	
for plate no	30613					D-1.9/ / 29 Aug	

Date Thurs. Fri. Aug 30 Sept 1/67 Observer Go Rich Julian Day 171 Focus 42
Dome Temp. 60

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 DE	20 40.8	+18 59	G40	#006	17	58	19:50 ⁸	20:06	A	21:5E
533-1644								20 ^h 40 ^m	04:35		
30614 T1	calibration step wedge			G40	#006						

Dome Temp. 50°F

Transparency Conditions ... *clear*

52

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:06 4:35	2 ^h 15 E	+19° 05'	5-6 6"	?		15-15-15 @ 40	Single channel only $V_{\text{rth}} = 800V$	STRONG
for plate no 30614							acuf 66° // 1 Apr 8/67	

Date Jan. Sept. 1-2/67 Observer L-Ed Go Julian Day

Dome Temp.

Focus

Dome Temp.

[illegible]

Dome Temp.

59

[illegible]

SS

Go Fa Jn visitors 156 & Acc

Date SAT/SUN Sept 2/3 1967

Observer Hb - Gs

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
30616	NOVA DEL.	20 ^h 40 ^m 8	+18° 59'	G12	IaO	9L		21:51	22:40	C	0:30W
30617	"	"	"	G40	IaO	13	57°	22:57	23:11	A	0:59W
30618	"	"	"	"	"	13L		00:35	00:41	B	1:00W
30619	"	"	"	"	"	"		00:43	00:46	C	1:05W
30620	HD 222847	23 39.0	-18 10	"	"	13		1:08	1:35	A	0:32W
30621	HD 11291	01 45.8	+50 38	"	"	"		1:46	1:55	B	1:25E
30622	HD 10260	01 35.3	+60 32	"	"	"		2:12	02:35	C	00:36E
30623	HD 11905	01 51.9	+41 12	"	"	"		2:46	03:15	A	00:12E
30624	HD 9138	01 24.9	+05 38	"	"	"		3:24	03:38	B	00:39W
30625	HD 12029	01 53.0	+22 54	G40	IaO			03:48	03:57	C	

Dome Temp. 54.05

Focus

Dome Temp.

Transparency Conditions ... Good at start.

1100 EST - almost overcast ... thick Ci
Poor after 0100.

56

Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

FILTER

REMARKS

Quality

2:40

0:30 W

+19° 05'

2

2

2

10/10/10

G12

Broken - 3 pieces.

3:11

0:59 W

+19 05

4

4

4

15/15/15

G40

Focus 42

Clouds

L-WEAK

0:41

2:30 W

+19:05

4

4

4

15/15/15

G40

FINE

00:46

2:35 W

+19 05

4

4

4

15/15/15

G40

SL-WEAK
(DAMAGE D)

1:35

0:22 W

-18 22

2-3

5.2

B8

15/15/15

G40

B8-9 (SB) - Clouds

800 x (58)

OK

1:55

1:25 E

+50 41

4

5.6

B9

15/15/15

4

B8-9 (SB)

"

800 x (60)

FINE

02:11

00:36 E

+60 55

2-3

6.6

B8

15/15/15

4

B8-9 (SB)

"

800 x (60)

FINE

03:15

00:12 E

+41 33

2

6.56

B9

15/15/15

"

B8-9 (SB)

"

800 x (70)

FINE

03:38

00:39 W

+06 02

4

6.2

K4

15/15/15

"

Std. Vel.

800 x (100)

FINE

03:57

8.96

K2 III

15/15/15

"

Secondary Standard ~~800 x (100)~~
Stopped by clouds.N.B.Declination motor refused to work on
several occasions.

Date Sun - Sept 3-4/67 Observer L-Gs Julian Day 174.5

[illegible]

Dome Temp. 60Focus 42

Dome Temp.

Transparency Conditions

58

Start delayed by clouds.

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Filter	REMARKS	Quality
1 23	?	19° 05'	1	?	?	15-15-15	G40	800/76	OK
3 38	1 51 W	+28° 11'	1/2	9.06	G8III	15-15-15	"	Std. Velocity some haze	800/80 L. WEAK
0 23	0 04 W	-11 44	0	5.87	B9	15-15-15	"	B8-B9 sp bin.	800/50 L. WEAK
0 19	0 06 W	+45 21	0-1	6.30	B9A	15-15-15	"	" "	800/50 OK
1 12	0 02 W	-18 22	0	5.21	B8	15-15-15	"	" "	800/50
0 12	0 59 W	-06 28	0	6.3	9K4	15-15-15	"	Std. Velocity	800/80 L. WEAK
3 24	0 33 W	-00 31	0	7.5	K0	15-15-15	"	" "	800/100 L. WEAK
4 35	0 45 W	+29 47	1	8.96	K3III	12-12-12	"	See Std. Velocity	800/100 L. WEAK

59

Date 4-5 Sept. 1967 Mon-Tues Observer R.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30633	Nova Del.	20 ^h 40 ^m .8	+18° 59'	G40	Ilad	17	66	19 46 ⁴	19 53 ⁴	A
30634	"	"	"	"	"	"		19 57 ³	20 03	A
535-1438								20 25	4:45	
30634 T1	calibration step wedge			G40	Ilad					
30634 T2	"	"	"	G40	Ilad					
30634 T3	"	"	"	G40	Ilad					
30634 T4	"	"	"	G40	Ilad					
30634 T5	"	"	"	G40	Ilad					

Dome Temp. ... 56° F

Transparency Conditions Good. - Poor

60

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	File	REMARKS	Quality
0211E	+19° 06'	3	~5.5		15/15/15	AK40	" 400/50	STRONG
0201E	"	3	"		15/15/15	"	400/35	OK
							for plates 30625 - 30627	Aeruf / 68°F // 5 Sept 8
							for plates 30617 - 30624	Aeruf / 68°F "
							for plates 30628 - 30632	Aeruf / 66°F "
							for plates 30633, 34	Aeruf / 66°F "
							for plates 30615, 30616	D-19 / // 5 Sept / 07

Dome Temp.

Transparency Conditions *circum*

62

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	FILTER	REMARKS	Quality
1:57	A E 2:04	+19° 06'	4"	?	?	50	G40	focus 41.5 (1*) 800/80	L. WEAK
2:10 (CWP)	B E 1:51	"	"	"	"	15-15-15	G40	800/160	FINE
2:31	C W 0:31	"	"	"	"	10-10-10	G12	LEFT SIDE OF EXP. BOX #2 400/413	FINE
3:16	C W 0:27	-5° 40'	5"	3.73	G036	15-15	G12	RIGHT OF EXP. BOX #2 200/400	SL. WEAK
3:44	A W 1:26	41° 52'	6"	6.0	B9	15-15-15	G40	Bright Std. Vel. (2 PIECES) 400/35	LIGHT STREAK OR
3:55	B W 0:31	-13° 59'	6"	4.3	B8	5-0	G40	B8-B9 (SB) same focus 400/35	SL. WEAK
4:14	C W 0:03	-11° 45'	6"	5.87	B9	15-15-15	G40	B8-B9 (SB) (2*) 400/35	W. GATE (GUIDING)
4:50	A E 0:16	-6° 31'	5"	6.3	GK4	15-15-15	G40	Std. Vel. 400/75	SL. WEAK
5:39	B E 0:36	+29° 15'	?	8.96	K2 III	15-15-15	G40	Secondary Std. Vel. 800/175	SL. WEAK
6:07	C W 2:31	45° 24'	5"	6.30	B9p	15-15-15	G40	B8-B9 (SB) (BLEW FUSE) focus 41.0 400/40	SL. WEAK
6:34	A W 0:18	41° 34'	5"	6.86	B9	15-15	G40	B8-B9 (SB) 400/40	SL. WEAK
7:08	B W 1:18	+06° 02'	1"	6.12	K4	15-15	G40	Std. Vel. MAY BE FOGGED 400/70	SL. WEAK
	BAKED PLATES IN EXP. #1								
	UNBAKED " " " #2								
								CHERRY: (G40 CAPPER) THE TELESCOPE IS OUT OF (1*) BALANCE IN DEC.; - IT FALLS UNLESS CLAMPED!!	
								*2: AUTO GUIDER MOTOR STOPPED.	

Date Sept 6 (cont'd) Observer Muse-Fa Julian Day 174

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
30647	HD 22484	03 ^h 31. ^m 8	+00° 05'	G40	IIaD	13		04:28	4:34	A
30648	HD 26571	04:07.0	22 09	G40	"	"		04 40	4:53	C
30648 F ₁	focus test in in / out out			G40	IIaD	13				B
30648 T1	calibration step wedge			G12	IIaD					
30648 T2	calibration step wedge			G12	IIaD					
30648 T3	calibration step wedge			G40	IIaD					

Dome Temp.

(cirrus at dawn)

69

Reading Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
134	A	0:20	00° 23' 5"	5.2	F9	15-15-15	Star Vol.	400/70	FINE
135	C	0:35	27° 23' "	6.1	B8	15-15-15		400/40	SL. WEAK
3						5/5	Qu-12		V. SL. C TO RED (WEAK)
for plate no 30638 2-19/68° F/1 6 Sept 8 for plates 30615, 30616, 30637 " for plates 30635, 6, 30639-41 Cen/167° F/1 7 Sept 67									

65

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.I.
30649	Nova Del.	20 ^h 40 ^m .8	+18° 59'	G12	IaO	9L	68°F	19 52 ³²	20 55'	C
30650	HD 186791	19 41.5	+10 22	"	IaO	9L		21 10 ²⁰	21 49	C
30651	HD 206778	21 39.3	+9 25	"	IaO	9L		21 59 ¹⁵	22 29	C
30652	Nova Del.	20 40.8	+18 59	G40	IaO	13xL	66°F	22 44 ⁷	22 57 ⁷	A
30653	"	"	"	"	"	"	"	23 00 ⁴	23 08 ⁴	B
30654	"	"	"	"	"	"	"	23 10 ³	23 16	C
30655	HD 204934	21 26.8	+27 56	"	IaO	17	"	23 39 ²⁷	02 07	A
30656	HD 4328	00 41.1	+30 25	"	"	"	"	"	"	"
30656	HD 14969	02 23.6	+29 41	G40	IaO	17		02 26 ²⁷	03 20	B
30657	HD 224811	03 31.8	+00 05	G40	IaO	17		03 28 ⁵	03 39	C
30658	HD 26162	04 03.3	+19 21	"	"	13		03 46 ¹⁴	04 14	A
30659	HD 28471	04 24.2	+10 18	"	"	13L		04 20 ¹³	04 46	B
30659T1	calibration strip wedge			G12	IaO					
30659T2	calibration strip wedge			G12	IaO					
30659T3	calibration strip wedge			G40	IaO					

Dome Temp. 6.6°

Focus

Dome Temp.

Transparency Conditions

Fair - quite hazy then clearing
Photometric conditions most of night.
0315 Much fog over city. Moisture building up in dome.

66

NY MISSING

Ending Time E.S.T.	P	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	F _{1/2}	REMARKS	Quality
55'	C	0100Y/E	+19° 06'	~4"	-	-	10/10/10	612	Left side (55') of exp. plate box #1. Large piece of small piece.	400/400 FINE
49	C	0049W	+10° 36'	3"	4.15	K3 III	10/15/15	612	Bright Std. Vel. Right side (55') of exp. plate box #1. Antisider is now working at times.	200/400 SL. WEAK
29	C	0028E	+09° 48'	3	3.98	K2 II	15/17/15	612	"	200/400 SL. WEAK
25	A	0102W	+19° 06'	~6"	-	-	17/17/17	640	Focus 42.2	200/180 (SL. STR) FINE
308	S	0113W	"	"	-	-	17/17/17	"	"	800/120 FINE
36	C	0121W	"	"	-	-	17/17/17	"	"	800/80 SL. WEAK
207	A	0322W	+28° 16'	4	9.64	K1 III	15/15	"	(Field drawn) Right-hand side of exp. plate box #1. Sec. Std. Vel.	800/145 FINE
					8.80	K3 III		"	Double star??	
320	C	0142W	+29° 46'	3	8.96	K3 III	8/8/8	640	Sec. Std. Vel. (Field drawn)	800/150
0337	C	0128E	+00° 23'	3"	5.2	F9	17/17/17	"	Std. Vel.	800/175 FINE
0414	A	0107E	+19° 35'	3"	6.4	K1	17/17/17	"	Std. Vel.	800/175 SL. WEAK
0400	C	0106E	+10° 31'	3"	6.5	B9	17/17/17	"	B8-9	800/90 SL. WEAK
40 plates 30649, 30655, 30656									D-19/12° E / 7 Sept	
for plates 30650, 30651									"	
for plates 30642 - 30648, 30652 - 30654, 30657 - 30659									Acq. 12° E / 7 Sept	

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.	Hour And End
30660	Nova Del	¹⁹⁶⁸ 20 40.8	¹⁹⁶⁸ +18 59	G 12	I A o	9 L	70	19:56	20 52	01
53b-1w28	^{NGC 752} Nova Del; NGC 188							21 ^h 10 ^m	04 ^h 00	
30660 T1	calibration strip under G 12				I A o					

68

Dome Temp. 68

Transparency Conditions *Haze*

Focus

Dome Temp. 59

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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20 52

1 01 E	19 05	2	?	?	10-10-10 G12	200/208	FINE
--------	-------	---	---	---	--------------	---------	------

04:00

8"

Clouds!

Channel A amplifier - humidity affecting gain switch! || Red light bulb for printer light
burnt out.

for plate no 30660

3-19/67°F // 8 Sept /67

69

Dome
Focus
Dome

Hour
E

Dome Temp. ... 51 ...

Transparency Conditions .. Clear ..

70

Focus

Dome Temp. ... 4A ...

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Ny missing

Date Sept 10-11 Sun-Mon
1967

Observer... Hb - G.

Julian Day

[illegible]

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							2.19/65°F // 11 Sept 1967
12 Sept. 1965							Focus test. (T25)
07B/17A					20/16	15.43	set 1 } spectrum <u>very</u> weak.
"					"	15.41	4
"					"	15.39	9
"						15.47	2
"						15.41	5
"						15.35	9
						15.61	2
						15.41	5
						15.21	2

no Fe filler
OK
best focus.

73

Date 12-13 Sept / 67 (trans) Observer Hb, M. e. / R. G. Julian Day

(Ri, H, H)

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 ₂	Focus			Iz ₁	103aO	.008				
30662F ₅	(marked x)					.008		From 15.61		
30663	Nova Del	20 40.8	+18° 59'	Iz ₅	103aO	.008	16.3°C	19:56	20 16	3
30664	89 Her	17 51.4	+26 04'	"	"	"	"	20 23	21 43	4
30665	⊙ Lyn	19 12.5	+37 57'	"	"	"	"	21 50	22 44	1
539-1531								2305	0500	
30665T ₁	Sky spectra			Iz ₅	103aO	.008				1
30665T ₂	"			"	"	"				4

Dome Temp. 49

Transparency Conditions *fair (circus in s.w)* 79

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	OTB/ITA			30/20	15.81	tilt 23.20 2 set	
					15.61	" "	
					15.41	" "	
	will diffusing screen x 1 filter 24"					Very weak, something wrong	
	OTB/ITA			20/15		" " " " " "	
0116E	+19°01'	~5.5"	/	24	set 2	removed the filter 0-19/65°F comparison strong star weak comp strong	
0258 W	+26°03'	~2"	5.8	FZJn	8-8-8	set 2 MK Std, 2x normal	V-WEAK
W2: 36	+38°03'	~2" ~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.				2 4 6 8 10 12	OK (stung?)	Good

Date 12-13 Sept. 1967 Tue-Wed Observer.

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

07B/1TA

20/16

15.41

set 2

Diffuse + Fe filter in

15.41

5

9

in here

15.21

07B/1TA

20/16

15.31

set 2

15.26

5

15.21

9

15.23 16.3°C

Date. 13-14 Sept.

Observer ^{Fa Go Eh} Hb, Mel, (Hn), Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30666	15 Sgr	18 ^h 09.3 ^m	-20° 45'	T25	103aD	.008	18.5°	19 20 15	19 35	2
"	"	"	"	"	"	"	"	19 37	19 44	
"	"	"	"	"	"	"	"	19 45	19 48	
30667	Nova Del	20 ^h 40.8 ^m ¹⁹⁶⁸	+18° 59' ¹⁹⁶⁸	"	"	.008		19 54 20	20 14	
"	"	"	"	"	"	"		20 15	20 20	
540-1 to 45								2040	0500	

Dome Temp. 57°FFocus 15.26Dome Temp. 52

Transparency Conditions

78

ending Time E.S.T.	Hour-Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 35	—	+20° 44'	~2"	5.5	OTA	8-8-8	Set 2	
9 44	—	"	24"	"	"	8—	Set 5 no comparison (weak comp)	
9 48	48 ^m W	"	"	"	"	—	Set 8 no comparison	
10 14		+19° 03'	~2"	5.0	?	8-8-8	Set 3	
10 20	17 08 E					5-5-5	Set 7 no comparison	
10 50			4"					

Date Thurs Sept 14-15/67 Observer Go (Hm)
in se - R_i Julian Day

e-Ri

Date *7 hrs Sept 14-15/67* Observer *W. S. - R. C.* Julian Day

FALL TIME

[illegible]

Dome Temp.

Time Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
50	3	14 34" E	190 03'	42" - 25.0	?	4-4	sub 2 clouds.	
45			4"					

81

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

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
30669	16 Sgr	18 09.3	-20 25	I 25	103a0	.008	20.5	19:12 ⁴⁰	19:52	1
30670	X Aql	19 31.5	-07 15	"	"	"	"	20:00 ⁴⁸	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 ¹⁹⁶⁷	+18° 59'	"	"	"	20.5	21:12 ¹⁵	21:27	2
"	"	"	"	"	"	"	"	21:28 ³	21:31	"
30673	V 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 41.5	+44 53	"	"	"	"	22:36 ²	22:38	2
"	"	"	"	"	"	"	"	22:39 ¹	22:40	"
"	"	"	"	"	"	"	"	22:40 ^{1/2}	22:40	"
30675	HD 190603	20 00.4	+31 56	"	"	"	"	22:		

Dome Temp.

Focus 15.30

Dome Temp.

Transparency Conditions

Hazy

(1 in at 39 ft)

82

maybe someone should
check co-ordinates →

- 1) could not find β decl $\alpha = 1550.4$
 2) HO 183143 look for red OK
 3) HO 190603

binder fields
please

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:52	0 ^h 58 W	-20° 23'	0	6.0	09 I	4-4-4	Set 2	1x normal weak.
10:08	0 ^h 08 E	-07 03	0-1	5.0	B9.5 III	4-6	Set 2	1/2 x " not exposure gusting
20:46	2 22 W			4.1	G5 IV	4-4-4	set 2	2 x " strong
21:01		+27 45	1	"	"	4-4-4	5	1 x " strong
21:29							set 8	2 x strong
21:27		+19 03		~5.0	?	4-4-4	set 3	1 x strong
21:31	0 ^h 02 W			"	"	6-6	set 7	1/2 x weak
22:08		+18 57		4.30 (M)	G0 II	4-4-4	set 2	2 x) superimposed
22:24			1-2	"	"	4-4-4	set 5	1 x
22:32	2 ^h 12 W			"	"		set 8	1/2 x weak
22:38		+45 03		2.9	B9.5 III	12	set 2	2 x strong
22:40							set 5	1 x strong
22:40	2 ^h 15 W						set 8	1/2 x strong
							see above.	

pier in way

83

Date 15/16 Sept (Contd)

Observer Mr & Mrs M.C. / Hb. 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.	
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 ⁶⁰	02 00	"
"	"	"	"	"	"	"	"	02 02 ³⁰	02 32	"
"	"	"	"	"	"	"	"	02 33 ¹⁵	02 48	"
"	"	"	"	"	"	"	"	02 50 ⁸	02 58	"
30678	HD 13267	02 04.6	+57 11	I 25	103a0	.008	20.3	03 13 ⁵⁰	04 04	2
"	"	"	"	"	"	"	"	04 05 ³²	04 37	"
"	"	"	"	"	"	"	"	04 38 ¹⁵	04 53 ^{1/2}	"
"	Focus test						20.5			

Dome Temp.

Transparency Conditions

Fair (hazy)

89

Focus

Dome Temp. 57°F

Ending Time
E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0228	0235W	+38°39'		6.91	B05Ib	4-	set 2 draw finder field. 1/2x	fine
0015	0230W	+38°35'	~2"	6.4	K5D	4-4-4	set 2 2x	fine
0037	0252W	"	"	"	"		set 4 1x	fine
0048	0303W	"	"	"	"		set 6 1/2x	fine
0054	0308W	"	"	"	"		set 8	sl weak
0200	0224W	+56°47'	~2-3"	6.3	G0Ia	4-8	set 2 2x	fine
0232	"	"	"	"	"		" 4 1x	fine
0243	0311W	"	"	"	"		" 6 1/2x	fine
0258	0320W	"	"	"	"		" 8	two weak
0404	0115W	57°30'	2-3"	6.2	B5Ia	4-4-4	set 2 Telescope jumping in 'dec' 2x	fine
0437	0148W	"	"	"	"		" 4 1x	fine
0455	0205W	"	"	"	"		" 6 1/2x	fine
	07B / 17A				20/16		" 9 from 15.30 (15.49-.19)	at c. 15.30

85

Go, Hn, Jn

160 minutes after

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 ¹⁹⁶⁸	+18° 54'	I25	103a0	.008	21°C	21 17 ¹⁵	21 32	3
"	"	"	"	"	"	"	"	21 32 ⁵	21 37	"
30680	HD 190603	20 00.7	+18 56	I25	103a0	.008	21.5°C	21 46 ³⁰	22 16	4
"	"	"	"	"	"	"	"	22 16 ¹⁵	22 32	"
"	"	"	"	"	"	"	"	22 32 ⁷	22 39 ⁴	"
30681	13 Cap	21 51.5	+56 08	I25	103a0	.008	22°C	22 49 ⁶⁰	23 50	"
"	"	"	"	"	"	"	"	23 51 ³⁵	00 26	"
"	"	"	"	"	"	"	"	00 27 ¹⁵	00 42	"
30682	L And	23 33.2	+42 43	I25	103a0	.008	22°C	00 56 ⁸	01 04	"
"	"	"	"	"	"	"	"	01 05 ⁶	01 11 ⁵	"
"	"	"	"	"	"	"	"	01 13 ⁴	01 17	"
"	"	"	"	"	"	"	"	01 17 ¹¹	01 19	"
30683	υ Peg	23 20.4	+22 51	I25	103a0	.008	22°C	01 32 ¹²	01 44 ²	"
"	"	"	"	"	"	"	"	01 47 ⁸	01 55 ⁵	"
"	"	"	"	"	"	"	"	01 57 ⁴	02 01	"

Dome Temp. 64.5°F

Focus 15.50 - 0.19 = 15.31

Dome Temp.

Transparency Conditions Fair (Photometric after ~1000) 86

field for HD 207673 required

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 4-4-4	REMARKS	Quality
21 32.3	00 15W	+19° 02'	~2"-3"	~5.	-	4-4-4	Set 2 MK Std.	strong
21 37						12	" 5"	fine
22 16	01 36W	+32° 08'	~2"	6.2	B15 Ia	4-4-4	Set 2 Only star in field as bright as 6 ^{mag} but	fine
22 32		"	"	"	"	"	4 appears too yellow(?). Wrong Star.	fine
22 55		"	"	"	"	"	6	fine
23 50	01 20W	+56° 28'	~1"-3"	6.5	B8 Ib	4-4	Set 2	fine
00		"	"	"	"	"	4	fine
00 42		"	"	"	"	"	6	fine
01 10	00 50W	+43° 05'	~2"	4.2	B8 V	4-4-4	Set 2	strong
01 17		"	"	"	"	"	4	strong
01 37		"	"	"	"	"	6	fine
01 46		"	"	"	"	"	8	fine
01 54	01 46W	+23 12	~2"	~5	F8 IV	4-4-4	Set 2	strong
02 15		"	"	"	"	"	5	fine
02 20		"	"	"	"	"	8	fine

Date 17 Sept ^{cont.} 1967 Sun Observer HB Julian Day 175

[illegible]

Dome Temp.

Focus 1580-0.19=1531

Dome Temp.

Transparency Conditions 0200: some cloud in SW 88

Landing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. U-U-U	REMARKS	Quality
2324	01 09 W	+40° 55'	~1"-2"	4.4	B5V	4-8	Set 2 2x	strong
2400				"	"	"	5 1x	strong
2424				"	"	"	8 1/2x	strong
0300	01 10 W	+42° 26'	~2"	5.6	G2V	4-4-4	Set 2 Thick Cs in west. 1x	strong
0311		"	"	"	"	"	5 Near-complete cloud cover (Cs ^{1/2} Cc)	strong
0432	01 51 W	+58 15'	3"	5.9	A1 Ia	4-4-4	Set 2 2x	weak
0450		"	"	"	"	"	5 1/2x	fine
		OTB / TA				20 / 16	8	center to right

89

Date *Mon Sept 18-19 1967* Observer *L-Hd-Hr* ^{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.
30687	16 Sep.	18 09.3	-20 25	I 25	103a0	.006	+21.0	19 14	19 40	3
30688	ρ Dra	17 28.2	+52 23	"	"	"		19 49	19 50	4
	"	"	"	"	"	"		19 51	19 53	"
	"	"	"	"	"	"		19 53 25	19 57 35	"
30689	Nova Del	20 40.8	19 59	"	"	"		20 08 30	20 11 30	1
	"	"	"	"	"	"		20 12	20 32	"
542-1442		1900						20 50	0455	

Dome Temp. 66Focus 15.32Dome Temp. 60

Transparency Conditions

90

WATER IN Batt.

Ending Time EST.	P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
140	3	0 ^h 58 ^m W	-20 21	0	6.0	09 II	4-4-4	set 5	wrong star weak
950	4		+52 18	0-1	2.87 (M)	G2 II	12	set 2	low cab
753				"	"	"		set 5	fine
957		1 ^h 59 ^m W		"	"	"		set 8	strong
201130	1		+19 03		~5.0	?	12	set 2 1/2	fine
2032		0 28 E		2	"	"		set 7 1/2	strong
0455				4"				Need typing tape for printer, red bulb for light by printer, And loop initially in arop head A	

91

Date Tues Sep 19-20 / 67Observer ^{Hed}
^{Ny}
(Bk)

Julian 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	Scyg	19 41.9	44 53	I-25	103a0	008	21.5	21 06	21 07	2
								21 10	21 12	
								21 13	21 17	
30691	HD 163143									
30691	Age	19 35.6	17 47	"	"	"		21 55	21 57	3
								22 00	22 02	
								22 03	22 11	
								22 12	22 28	
30692	Nova Del.	20 39.7	18 48	"	"	"	21.3	22 37	22 40	4
								22 41	22 48	
								22 48	23 10	
30693	3 Cep	22 07.4	+57 42	"	"	"		23 23	23 26	1
30694	4 Lac	22 20.5	48					23 27	23 33	1/109
30694	4 Lac	22 20.5	+48 58	"	"	"	21.4	23 51	23 55	2
								23 56	00 04	
								00 06	00 22	35

Dome Temp. 63 F.

Focus 15.32

Dome Temp.

Transparency Conditions

92

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 07		+45 04	1	2.9	B9.5M	12	MK 812	weak
21 16						-		fine
21 17	411 07					-	renew vector looks very red. Please check if coords OK. Yes	strong
21 5		+17 55	(=2")	4.30	G011	12	MK 512. set 1	nothing
22 02							" 4 1/2	weak
22							" 6 1/2	weak
22 18	?						" 9	weak
22 2		+19 03		4.70		12	set 1	nothing
22 8						12	" 5	nothing
22 13	?					4-4-4	" 9	weak
23 0			4"	5.0	K116	4-8	set 1	weak
23 1	W14 09	+58 02				-	" 5	weak
23 1				4.6	B9.5M	12	set 1	weak
23 1							" 5	weak
23 1							" 9	fine

X meter does not work
needs minor
adjustment?improvement
work

93

Date Wed Sept 20 1967 Observer R. Ba Julian 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.
30695	HD 219134	23 08.5	+56 37	I-25	103a0	1008	21.6	00:30	01:10	3
"	"	"	"	"	"	"	"	01:11	02:25	
30695F ₁	Focus test						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*

99

Focus

Dome Temp.

iding Time
E.S.T.

P.A.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

1:10

3

6.72

K3II

4-4-4

set 1

 $\frac{1}{2} \times$

v weak

2:25

W02:49

+56°59'

.

—

" 5

Fogged in at 02:25.

1x

weak

15.32

v. slow

OTB/ITA

20/16

set 1 + set 5

Two loaded and spotted in ref. plateholders

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 worst

set 2

15.09

c to in

5

15.40

OK

9

15.30

c to in

Date Fri/Sat 22/23 Sept. 1967 Observer HB GS Julian Day 1967210.5

[illegible]

Dome Temp. 45°FFocus 15.40

Dome Temp.

Transparency Conditions

96

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 15'E	+19°04'	4"	14.6	—	12	Set 2	Spotlight in NW
			"			5	
			"			9	
01 25'W	17 56	3"	4.8	60II	4-4-4	Set 2	1x Normal. 100/(30) FINE
	"	"	"	"	"	5	2x Normal. 100/68 C.STRONG
01 00 W	+15.43		3.7	B9V	4-8	Set 2	1x Normal 100/18 FINE
"	"	"	"	"	—	" 5	2x Normal 100/47 C.STRONG
"	"	"	"	"	—	" 9	— 100/56

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

D. Hulse

Date Fri/Sat 22/23 Sept 1967 Observer W. G. H. S. Julian Day 19670922

[illegible]

Dome Temp. 42 °F

Transparency Conditions

98

Focus

Dome Temp. 37

ending Time
E.S.T.

P

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

6"

Need more printer tape.

Date Sept 24/25 - San Mar 1967 Observer Hr Go Julian Day

[illegible]

Dome Temp. 36.....

Transparency Conditions

100

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

Clouds

101

1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
30692	NOVA DEL	20:37.7	18° 45'	I 25	103a D	.008	11.1°C	19:23 ⁵	19:28	2
"	"	"	"	"	"	"	"	19:29 ¹²	19:41	2
"	"	"	"	"	"	"	"	(4 1/2) ³⁰ 19:42	20:02	2
S45-160 lb	Nova Del NGC 6633							2042	0145	
30700	HR 483	0138.7	+42 07	"	"	"	11.7	0130 ¹⁰	0140	2
"	"							0142 ⁶	0148	"
"	"							0149 ²⁶	0215	"
30701	HD 12953	0201.7	+57 57	"	"	"		0224 ¹⁴	0240	3
"	"						11.7	0240 ⁵²	0332	"
"	FOCUS TEST			DTB						

Dome Temp. 52°F

Focus 15.40 (HRT CHANGED) [15.41]

Dome Temp. 96

Transparency Conditions 01^h30 Some Clouds

0200 Seeing Var. TELESCOPE UNSTEADY

0230 THRU THIN CLOUDS

0330 VERY POOR

102

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
9:28	E 1.14	19° 02'	~2"	?	?	12	set 2	100/134	strong
9:41		"	"			12	set 5	100/230	" "
10:02		"	"			4-4-4	set 8		too "
10:45			8"				cloud puff. Dome lights which have burnt out have still not been replaced.		
11:00	0000	+42 26	2"	5.6	G2 V	12	Set 12 (1x) 10 ^m	20/36	fine strong
11:13						—	" 5 (1/2x)	10/9	fine to strong
11:21	00 55 W					4-8	" 9 (2x)	10/37	too strong
11:30	00 34 W	+58 15	5"	5.90	A1 Ia	4-8	" 2 (1/2x)	10/10	fine to strong
11:32	01 26 W	"				4-4-4	" 5 (1x)	10/20	strong.
						20/16	" 9		
All exposures are about 3x what was desired. Try 10/6 for normal exposure, late type - 1/4d or 10/4 early type									

Date Tues Wed Sep 26-27/67 Observer Nd Rd - Julian Day 174

[illegible]

Dome Temp.

Focus 15.4.6

Dome Temp.

Transparency Conditions

Poor

109

Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

19 10 4

W 100

20 29

1

6.0

09 11

4-4-4

MK STD.

net 5

Auss. Const

(SPOTTED)

some light clouds

10/5

BLANK

19 30 1

W 008

+ 0 18

1

5.2

F2 IB

4-4-4

MK STD.

net 5

10/14

fine
D.V. SLIGHT
C.T.O.R. I & R.

20/16

Trouble with dec clamp + balance
L came up + found trouble with
clamp. Clouds anyway, so left
repairs until tomorrow,

Note for Hor. N button
on dec handset not
working. FIXED
Who didn't turn off
spect. 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	B Aql	19 ^h 50.4 ^m	+06° 09'	I 25	103a0	.008	12°C	19:08	19:15	2
"	"	"	"	"	"	"	"	19:15 ^h	19:20 ^h	"
"	"	"	"	"	"	"	"	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 ^h	20:23	"
30705	Nova Oed.	20 ^h 40.8 ^m ¹⁹⁶⁸	18° 59'	I 25	103a0	.008	12.2°C	20:33	20:34	1
"	"	"	"	"	"	"	"	20:35	20:38	"
"	"	"	"	"	"	"	"	20:39	20:41	"
30706	⊙ 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	⊙ Cyg	20 38.0	+44 55	I 25	103a0	.008		— 21:49 ^h —		3
"	"	"	"	"	"	"		— 21:52 —		"
"	"	"	"	"	"	"		— 21:53 —		"
30708	SS Cyg	20 45.5	+45 45	I 25	103a0	.008	12.3°C	22:03 ¹²	22:15	4
"	"	"	"	"	"	"	"	22:15 ^h	22:21 ^h	"

Dome Temp. ... 50°F

Focus ... 15.42

Dome Temp.

Transparency Conditions

Look after 1900
Photometric by vzw

106

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. U-U-U	REMARKS	Quality
015	20016E	+06°22'	~1-2"	4.6	G8IV	12	MK Std. Set 2	2x normal STRONG
020 1/2		"	"	"	"		" 4	1x normal FINE
021		"	"	"	"		" 6	1/2 x normal SL. STR.
026		"	"	"	"		" 8	~ 1/4 x normal WEAK
015	01 11W	+18°15'	~2"	6.7	B7Ia	4-4-4	MK Std. Set 2	2x normal 10/10 = 1/2 norm OK
023		"	"	"	"		" 5	1/2 x normal 10/3 WEAK
034	00 45W	+19°03'		—	—	12	Set 2	1 1/2 normal — D OK
207							" 5	OK
20							" 8	OK
212 1/2	02 33W	+38°05'	~2"	5.4	K0II	4-4-4	MK Std. Set 2	2x normal 10/17.5 strong
227		"	"	"	"		" 5	1x normal 10/34 strong
2-	0132W	+45°10'		1.4	A2Ia	12	MK Std. Set 2	unusually faint — Blank
2-		"	"	"	"	—	" 5	1/4 norm. weak
3-		"	"	"	"	—	" 8	1/2 normal
2215	01 50W	+46°00'	~2"	5.2	B3Ia	6-6	MK Std. Set 2	2x normal 10/45 strong
222 1/2		"	2-6"	"	"		" 5	1x normal 10/17 strong

107

Date 1-2 Oct - Sun - Mon 1967 Observer H₂ H_k / 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.
30708	55 Cyg	20 ^h 45 ^m 5	+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 53	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 ⁴⁰	23 52	2
"	"	"	"	"	"	"		23 53 ¹⁵	00 08	
30711	8 Cep	22 07.4	+57° 42'	I 25	103a0	.008		00 15 ¹⁰	00 25	3
								00 26 ⁵	00 31	
30712	4 Cep	23 35.2	+77° 04'	I 25	103a0	.008		00 40 ⁷	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	
"	"	"	"	"	"	"	"	03 11	03 31	
30714	K Cet	03 14.1	+02° 00'	I 25	103a0	.008	12.0	03:39 ⁷⁵	03:44	2
								03:45	04:10	

Dome Temp.

Focus 15.42

Dome Temp.

Transparency Conditions *Excellent*

108

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 4-4-4	REMARKS	Quality
2252		+41° 00'	~3-4"	5.2	B3 Ia		MK Std Set 8 $\frac{1}{2} \times$ normal 10/7	weak
2353	0152W	+36° 33'		5.9	B0 Ia	4-4-4	MK Std Set 2 2x normal 10/24	strong
3025	"	"	"	"	"		" " 5 1x " 10/10	fine
306	"	"	"	"	"		" " 8 $\frac{1}{2} \times$ " 10/	weak
2352	0228W	+41° 02'	1-2"	6.49	A2 Ib	4-4-4	MK Std Set 2 2x normal 10/19	fine
0008	0244W	+41° 02'	"	"	"		" " 5 1x normal 10/12	fine
0025	0239W	+58° 03'	"	5.0	K1 Ib	4-4-4	Mk Std set 1 2x $\frac{1}{2} \times$ normal 10/91	sl. str.
0031	0245W	"	"	"	"		set 5 1x $\frac{1}{2} \times$ normal 10/55	fine (sl. str.)
0047		+77° 26'		4.3	K1 Ib	4-8	Mk Std set 1 1x normal 10/105	fine
0052	0137W	"				12	set 5 $\frac{1}{2} \times$ normal 10/49	fine
0141		+57° 34'	2-3	7.03	B6 Ia	4-4-4	Mk Std set 1 1x normal 10/17	weak
0310		"	"	"	"		set 5 2x normal 10/37	fine
0331	0130W		3-4				set 9 $\frac{1}{2} \times$ normal 10/10	too weak
0344		+03° 15'	"	5.5	G5 Ib	12	set 1 $\frac{1}{2} \times$ normal 10/11	weak
0400	0113W		"				set 5 2x normal 10/49	strong

Date Mon Oct 2 1967 Observer R:BJ Julian Day 173

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions

110

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:14	3	+07°40'	3"-4"	5.32 (mv)	F3I	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	4		"	5.1	G0Ib	12	MK Std set 1 1/2 normal 10/13	normals
4:51	01:04 W	+48°21'					set 5 1 normal 10/40	2x normal
5:03	1			5.7	B9Ib	12	MK Std set 1 1/2 normal 10/5	weak
5:10	00:10 W	+30°40'	"				set 5 1 normal 10/12	fine
5:22	2	+18 35	3-4'	4.73 (mv)	M2Ib	12	MK Std set 1 1 normal 10/30	sl weak
5:35	00:30 W	"	"				set 5 1/2 normal 10/46	weak
						20/16	Focus 15 42 set 9	sh. C to S

711

(90)

Date Mon-Tues Oct 2-3/67 Observer Rise: Bl/Hs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
30719 *	16 Sgs	18:09.3	20° 25'	^{I-25} P33	103a0	.008	14.1°C	18:37	19:37	#1
30720	HD 183143	18:23.0	48° 05'	P33	103a0	.008	14.3°C			#2
* telux reversed										
546 1 to 32	Pleiades. ^{Nova}							2030	0510	

Dome Temp. $55^{\circ}F$ Focus 15.44

Dome Temp.

Transparency Conditions EXCELLENT

112

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	GAIN 900V COUNTS	Quality
1:37	W 1:50	$-20^{\circ} 24'$	$2.4''$	6.0	$09II$	$4-4-4$	MK STD. set 3	$10/12$	(GUIDING) WEAK
			$4'' +$	$6.69875a$			MK STD set 2	$10/$	
							Seeing + transparency far too poor for 40		+ 31K 3
							(23 min for 1 count at gain 10)		
5:10							Telescope out of balance in dec. We put another weight on upper end of tube. (Removed afterwards) 110 volt shock off rheostat mounted on table. This should be covered immediately. It is extremely unsafe!!! (Go) Lots of trouble with balancing of telescope in West. Wasted time trying to balance tube, etc!!		

Date TUE-WED OCT 3/4 Observer Hd, Fa, Rh, Julian Day

[illegible]

Dome Temp. 63°Focus 15.51

Dome Temp.

Transparency Conditions very poor

11.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 53	W 230	26° 06	"	5.8	F2 Ia	4-4-4	MK STD. Passing clouds. 10/42	FINE
				1.4	A2 Ia		" small / accounts	WEAK
							" 2 spots.	SL. WEAK
						12	" 4 spots	STRONG
10 26				4.2	G8 II	12	" 10/10.	WEAK
10 35							" 10/5	U. WEAK
10 42	E 09 ^m	30 07					" 10/20.	FINE
10 45				4.0	K2 Ib		" 10/5	U. WEAK
10 45							" 10/10	WEAK
10 45						12	" 10/20	SL. WEAK
10 51	+47 20			6.2?	B8 II		" 10/4	U. WEAK
10 54	W 110°					12	" clouds 10/8	WEAK
				6.94	B1 II	12	" field doesn't match drawing, from check. 10/6	
							Traced to get 9 Cep. but a field is needed. - from	

Date Oct 3/4 cont'd Observer Ed Julian Day 152

[illegible]

Dome Temp. 56°FTransparency Conditions VERY POOR

776

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 13	0 43 ^m W	62 09	2"	5.2	09.5 I	12	MK STel	10/6 WEAK
22 27				"	"		"	10/24 C. STRONG
22 51	0 45 ^m W	38 55	2"	4.7	09 I	12	MK STel	10/12 FINE
23 02	0 52 ^m W			"	"		"	10/24 C. STRONG
23 23	0 48 ^m W	57 02	2"	6.72	K3 I	12	MK STel SETTING 2	10/20 WEAK
23 49	0 13 W	45 55		5.5	F2 II		" " " "	10/10 SL. WEAK
				4.8	B1 I		" " " " CLOUDY OVER AT 23:51	

117

Date OCT 4-5/67 Observer H. F. Hise Julian Day 1967

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	Y. Agl	19 21.4	00 02	I-25	103A0	008	+17.0	18 49 ⁵³	19 49 ⁵²	1 005
30730	μ Her.	17 42.6	+27 47	"	"	"	18.3	19 59 ⁵³	20 01 ⁵²	2 025
30731	Nova Delph.	¹⁹⁶⁸ 20 40.8	¹⁹⁶⁸ 18 59	"	"	"		20 18 ⁵³	20 19 ⁵²	3
	"	"	"	"	"	"		20 20 ⁵³	20 23 ⁵²	"
	"	"	"	"	"	"	18.7	20 23 ⁵³	20 35 ⁵²	" 00 28
30732	HD 190590	20 00.7	22 55	"	"	"		21 04 ⁵³	22 06 ⁵²	4 02 37
30733	HD 192518	20 10.1	28 23	"	"	"		22 10 ⁵³	22 26 ⁵²	1 02 48
30734	HD 199216	20 50.7	49 09	"	"	"	19.0	22 32 ⁵³	23 00 ⁵²	2 02 41
30735	HD 195986	20 29.4	42 51	"	"	"	19.0	23 11 ⁵³	00 27 ⁵²	3 04 40
30736	K Cass	0 : 27.3	62 23	I-25	103A0	008		0 : 53 ⁵³	0 : 55 ⁵²	4 01 00
30737	μ And	00 44.3	40 32	"	"	"		1 : 03 ⁵³		1
	"								1 : 12 ⁵²	11 00 5
30738							19.0°C			

Dome Temp. $56^{\circ} (21^{\circ})$
 Focus 15.49 (15.50) 15.51
 Dome Temp.

Transparency Conditions POOR, 110
 01:00 EST: DEC. SLEWING WORKS 1/4 OF
 THE TIME.

Hour Angle End	Declination	Seeing (5")	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
949 10059 W	+0020	0	5.2	F2 II	4-4-4	Set 5 MK 500 10/40	FINE
001 20251	+2747	4"	4.1	G5 IV	12	" " MK " 10/10	sl. weak
013 3				Nova	—	" 2 *Focus Changed, 1 ^m	sl. weak
023					12	" 5 3 ^m	ver. wk
035 0028 W	+19 05	5"			—	" 9 10 ^m clouds.	ext. wk
206 0237 W	+23 09	5"	6.4	A3	4-8	" 5 F* 20/24 clouds	1. weak
226 10248 W	+28 37	5"	5.1	A3	6-6	" 5 F* 10/12 better	sl. weak
300 202 42 W	+49 25	5"	6.94	B1 II	4-4-4	" 5 MK 500 20/12 ^{sky} good	very weak
0027 304 40 W	+43 06	5"	6.41	B3	4-4-4	" 5 F* 20/24 some clouds	sl. weak
055 11.00	62° 46'	3"	4.3	B1 II	12	" 5 MK 500 10/6	EXTR. WEAK weak
	40 55	2"	4.4	B5 IV	12	" 2 MIT " 10/8	sl. weak
1:12 100 58 W	" "	"	"	"	12	" 5 MK " 10/6	sl. weak
					" 2	" " cloud.	EXTR. WK comp

119

$\angle 21': \text{tilt} = 23.23$

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

[illegible]

$I 12\frac{1}{2}$. tilt = 20.35', from 12.66

Dome Temp.

Transparency Conditions

120 1

Focus

Dome Temp.

ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
073/17A			8/5			Focus 12.86 Set 2 best focus c. to n.	
						12.66 5' v. c. to v	
						12.46 9 v. c. to v	
073/17A			7/7			Focus 12.75 Set 2	
						12.70 5' ← best focus	
						12.65 9 (still uncertain) (plate may well have been re-tilted in ph; re-tilt)	

727

Date *Thurs Oct 5/67* Observer *L-ch G.0* ^{Pi} _{B9} Julian 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.
30738	<i>K aql</i>	19 31.5	-07 15	<i>I-12 1/2</i>	103 A0	.008	18.0	¹⁷ 17 18	¹⁹ 19 22	5
								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-HA								20 25	22 00	
30740	<i>Mary Del p</i>	20 40.8	+19° 02'	<i>I-12 1/2</i>	103 A0	.008	17.0	22 50	23 03	
							↑	23 04	00 02	4
							focus?			
30741	HD 13267	02 04.6	15 711	<i>I-12</i>	103 A0	.008	16 °C	01:29	01:40	1
								01:41	02:01	
30742	<i>α Per</i>	03 17.7	+49° 30'	"	"	"	"	02:19	02:20	
⁺³ 30742	34 Per.							2:36 (25)	2:38 (55)	
								2:40	2:46	

Dome Temp.

50°F

Transparency Conditions

Start delayed clouds 122
at sunset

Focus

Dome Temp.

E.X.M.T.R. NOT WORKING

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 22	-07 04	0	5.0	B05II		MK Lt. set 2 10/2	weak
9 29						" 5 10/4	fine
9 39	0 42 W				6	" 9 10/8	VERY STRONG
9 55	32 10		6.2	B15Ia		MK Lt. set 2.5 10/8	weak
10 12	0 47 W					" 7.5 10/8	strong
						Too much cirrus	
	19 05	39	-	-		set 2 - clouded over 10/2	SPOTTED W. sl. wk
	24 01 W				-6-	set 5 - comp clouded 10/3.7	sl. wk
						cold: no frons value also note NA-W.	
	W		6.2	B5/2	Z-2-	Mk-SYd set 1 10/2	WEAK
	04 29?	57°31	5-6			set 5 clouded over	W. sl. - W. sl. wk
	04 18 E	49°43	2.3	F5Ib		Mk-SYd set 9 very hazy	WEAK
			5.7	F4III	6	set 1 *	VERY, VERY WEAK
	04 04 E	45°56	5-6			set 5	WEAK

723

Date Fri Oct 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 15497	2:29	+57:15	I-12 $\frac{1}{2}$	103a0	.008	16°C	3:01 (50 ^s)	4:02	2:13
30743 45	X Aur	5:26.2	+32:07	T-12 $\frac{1}{2}$	103a0		16°C	4:15 (50)	4:17 (20)	3
								4:18 (45)	4:23	
								4:24	4:35	15 ^m
30744 46	3 GEM	6:03.7	+23:08	I-12	103a0	.008	16°C	4:41 (50)	4:47	4
								4:47 (40)	5:00 (30)	
								5:01 (20)	5:22 (20)	

Dome Temp.

Transparency Conditions

Transparency Conditions *very hazy with ~~the~~* 724
a few clouds

[illegible]

Date Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
307 ⁴⁶ 41 F ₁	Louis Test			I 12½	Tri-X (no filter)	.008	11° 20'			1
307 ⁴⁶ 41 F ₂										2
307 ⁴⁶ 41 F ₃							11° 00'			1

Dome Temp.

Transparency Conditions

726

Focus

Dome Temp.

ending Time
E.S.T.

PL

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

01B/17A

8/8

focus 12.70

Set 2

12.65

5

12.60

9

12.55

Set 2

12.50

5

12.45

9

12.90

Set 2

OK at H3

12.83

5

OK at 4500

12.75

9

OK at 4300

c to v in red

c to v in blue

c to v in red OK at 3700

c to v in blue

c to v in red OK at 3700

Date 6/2 Oct Fri/Sat 1967 Observer H^{Go}₆ Bd - H₅ Julian Day.....

[illegible]

Dome Temp.

Transparency Conditions

128

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 2/2/2	REMARKS				Quality
59	01 21 W	-20 40'	5"	5.5	B0 Ia	2-4	Set 2	1x Normal	10"/4		FINE
59½	"	"	"	"	"	—	" 6	½x Normal	10/2		WEAK
520							Clouds from NE Balance telescope OK.				
114	2 00 16 W	+52 44	5"	6.90	F5 Ia	2-4	Set 2	MK. STD.	½X	10/4	FINE
157	" 00 59 W	"	6"	"	"	2-2-2	" 5	" "	1X	20/16	SL. STRONG
27	3 00 50 W	+57 30	6"	6.2	B5 Ia	6	" 2	" "	1X	20/8	FINE
243	" 01 18 W? ✓	"	"	"	"	2-2-2	" 5	" "	2X	20/16	STRONG
526	4 03 40 W	+57 35	"	7.03	B6 Ia	2-2-2	" 5	" "	2X	20/15	(QUIDAM) SL. STRONG SL. C. TO RED IN CENTRE
						8/6	" 9				
2 P.H. Loaded in Frig.											
Who walked off with chain for DOME?, Took piece of railing											
No 2nd Half student.											

Date Oct 7/8, 1967 Observer L-Hh Julian Day 168
 Location Viator Co., Dy, Db -168 s. & Hh, 200

[illegible]

Dome Temp.

Focus

Dome Temp.

Transparency Conditions *Clear Hazy*

130

Ending Time
E.S.T.

	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 22 2			3	5.5	Fe II		MK Stand. slit 2	10/4
3 37 3	0 37W					6	" 7	10/14
3 50 3				4.4	B5V		MK Stand. 2	10/7
3 55 3	0 21W					6		10/14
1 01 4	0 50W	-00 32		7.5	Ko	2-2-2	Star Velocity 2 plate Holden Soudard in fig.	10/7

131

Date Wed Oct 11/67 Observer RC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
3074 ⁵¹	n Per	02.43.4	+55° 29'	F12 $\frac{1}{2}$	103a0	.008	+10°C	01.58	01:59	1
								02:00	02:01	
								02:03	02.05	
3075 ⁵²	H10 173 78	02 40.2	+56° 40'	F12 $\frac{1}{2}$	103a0	.008		02:17	02:19	2
								02:20	02:30	
30751	36 Per	03 25.5	+45° 43'	"	TRI-X	:"		02:42	02:45	3
								02:46	02:47	
	H10 2198 3	03 25.7	+30° 02'	"				02 59	02 59	
3075 ^{52F}	102nd test		07 B	- 1 TA	TRI-X					4

Dome Temp.

Transparency Conditions

Transparency Conditions ... occasional cloud 132
cloud over at 3:00 EST.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:59				5.4	K356	6	Mk Std set 2 $\frac{1}{2}$ non 10/4	WEAK
02:01							Mk set 5 1 non 10/7	VERY WK.
02:05	0418W	55°45'					set 9 2 x non 10/14	SL. WEAK
02:09				6.95	A5Ta	6	set 2 $\frac{1}{2}$ non 10/2	BLANK
02:30	0443W	56°56'					set 5 2 x non 10/18 *	WEAK
02:45				5.7	F4 III	6	set 2 $\frac{1}{2}$ non 10/3	BLANK
02:47	0418W	45°48'		6			set 5 1 non 10/7	"
02:59	0431W	30°17'		6.89	B3 III		set 9 $\frac{1}{2}$ non 10/2	"
						8/6		* OK

* WHERE DID THE TRI-X COME FROM?

- WERE 2 P.H'S RETURNED TO THE REFRIG. CONTAINING TRI-X??

Date WED-THURS OCT. 11-12/67 Observer Hv - True Julian Day.....

[illegible]

Dome Temp. $+39^{\circ}\text{F}$ / 23°C

Focus 12.75

Dome Temp. 35°F

Transparency Conditions $\text{FAIR} (-200R)$ 134??

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

Ri, Japhire 8th

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:59	N 215	$52^{\circ} 19'$	$\sim 3''$	7.5	09Ib	4-3	Set 2 MK STD field plotted $(1/2 \text{ NORM})$ 40/8	SL. WEAK
3:57:00	N 3129	"	"	"	"	-	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 2:30 EST $\therefore$ drill up completely	

135

Date 14-15 Oct/67 sat Observer L-H Julian Day 174

30756 FI

note: cap was open on spectrograph

Dome Temp.

Transparency Conditions

cloudy, haze 136

Focus

Dome Temp.

Ending Time
E.S.T.

P

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3:22 2

3

5.5

F21

mk stel set 2

gain cont
10/4

FINE

3:31

0:37W

6

set 7

10/4

SYRONG

3:50

4.4 B5U

mk stel set 5

10/7

FAIRLY
STRONG

3:55

0:21W

6

10/4

STRONG

4:01

0:50W

7.5

KO 2-2-2

stel Vel.

10/7

SL. WEAK

2 P.H. loaded in frig.

OTB / ITA

4/3

set 5

focus 12.75

dis in

OK

~~OTB ITA / OTB ITA~~

4/3

set 2

focus 12.70

2-2-2

u.s. c. t. v.

~~ITA OTB / ITA OTB~~

4/3

set 9

focus 12.80

u.s. c. t. v.

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

737

Date Oct 19 / 20 1967 Observer G. L. 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			E 12				0045	0445	
30757 57 3075 F	6 Gcm	0606.3	+22°56 0716/17/17	112	103a0	.008	30C	05.10	0555	2

4_nDome Temp. 32°FTransparency Conditions Good

739

Focus 12.75Dome Temp. 27°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
445			5"				Spectroscopic from 2230 EST. Photometric at 2330 EST. Ri aimed at 0030 EST. Bk at 0040 EST. Circle at 0440 EST.	
556	1720W	+22 57		6.11	M12a	1-2-1	MK 542. 292 10/10	L. WEAK
						4/3	295 12.75	OK (center of weak) ⇒ 4/4?
							plateholder 2 is <u>exposed</u> and in ref.	

7301

Date Fri/Sat Oct 20/21 1967 Observer Hs Hk / Hr 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.H.
30758	19 Cep	22 02.1	+61° 48'	I12½	103a0	.008	7°C	20 54	20 56½	2
"	"	"	"	"	"	"	"	21 00	"	"
"	"	"	"	"	"	"	"	21 04	"	"
30759	13 Cep	21 51.5	+56° 08'	I12½	103a0	.008	7°C	21 12	22 22	3
"	"	"	"	"	"	"	"	22 23	23 02	"
30760	p Cas	23 49.4	+56° 57'	I12½	103a0	.008	8°C	23 10	23 18	1
"	"	"	"	"	"	"	"	23 20½	23 24½	"
30761	K Cas	00 27.3	+62° 23'	I12½	103a0	.008	"	23 34½	23 37½	2
"	"	"	"	"	"	"	"	23 38	23 40	"
"	"	"	"	"	"	"	"	23 40½	23 41½	"
30762	φ Cas	01 13.8	+57° 42'	I12½	103a0	.008	"	23 41½	23 52½	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	+58° 32'	"	"	"	+8	01 42	02 00	1

Dome Temp. 41.0

Focus 12.75

Dome Temp.

Transparency Conditions

Overcast at rising early in evening 740
Open 2030 but not too promising.
2230 cloud NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. (u)	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 (GUIDING)
"	"	"	"	"	"	" 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	U. STRONG
"	"	"	"	"	"	" 1x normal 10/4 Clouds	STRONG
0103 W	+57°20'	~2"	~5+	F8 Ia	2-2	Special std - fume. 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	U. SL. WEAK
"	"	"	"	"	—	5 10/3.5?	WEAK
0045 W	+2551	"	"	"	4	9 10/3.5	WEAK
0011 W	+58°46'	3+	4.76	A0 Ia	4	CLOUDS " 5 10/8.5	FINE - STRONG

~ 160 Visitors: Showed "Universe" & displayed telescope

Date Sat./Sun. Oct. 21/22 1967 Observer H6-HK Go Julian Day

[illegible]

Dome Temp.

Chair broken during visitors.

Transparency Conditions *Good*

142

Even an filter was not in place at beginning of night - possibly comparison spectrum in last night's plates would be overexposed.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:10			6"		-		Cloud from E.	

Date Oct 22/23 1967 Observer ^{(Hnd) Go} msc-Dx / Ri Julian Day 174.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
30765	Nova Del	1967 2040.8	1967 18 59	I 12 1/2	103aU	.008		1828 1830	1829 1835	4
557-1 to 51	Nova Del Polaris, Hypack							1845	0350	

Dome Temp. 40° F

Focus

Dome Temp. 33Transparency Conditions FairEXCELLENT 1ST HALF
(GIBBONS MARK)

144

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

7451

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 ^m .8 ^s ¹⁹⁶⁸	18°59'	I-12 $\frac{1}{2}$	103a0	.008	9°C	1832 ⁽⁵⁾	1837 ⁽¹⁴⁾	1
"	"	"	"	"	"	"	"	1841 ⁽³⁾	1855	"
30767	HD 194839	20 22.8	+49 03	I12 $\frac{1}{2}$	103a0	.008	9°C	1916 ⁽¹⁴⁾	1947 ⁽²⁾	2
"	"	"	"	"	"	"	"	1952 ⁽²⁾	2010	"
30768	44 Cyg	20 27.2	+36 36	I12 $\frac{1}{2}$	103a0	.008	9°C	2018 ⁽²⁾	2045 ⁽²⁾	3
30769	HD 199216	20 50.7	+49 09	I12 $\frac{1}{2}$	103a0	.008	"	2054 ⁽²⁾	2116	"
30770	69 Cyg	21 21.7	+36 14	I12 $\frac{1}{2}$	103a0	.008	9°C	21 27 ⁽²⁾	2155	1
30771	γ L PEG	22 02.4	+24 51	I12 $\frac{1}{2}$	103a0	.008	9.5°C	2203 ⁽⁵⁾	2208 ⁽⁵⁾	2
"	"	"	"	"	"	"	"	2209 ⁽⁵⁾	2214	"
"	"	"	"	"	"	"	"	2215 ⁽³⁾	2218	"
30772	211797	22 14.5	+37 16	I12 $\frac{1}{2}$	103a0	.008	"	22 34 ⁽²⁾	2250	3
30773	211432	22 11.9	+27 18	"	"	"	"	22 58 ⁽²⁾	2325	4
30774	γ CAS	23 49.4	+56°57'	I12 $\frac{1}{2}$	103a0	.008	"	23 42 ⁽⁷⁾	2349	1
30775	η Cas	00 43.8	+57 17	I12 $\frac{1}{2}$	103a0	.008	"	23 55 ⁽⁸⁾	2358	2
"	"	"	"	"	"	"	"	0003	2358 ?	"
30776	HD 21389	03 21.9	5832	"	"	"	"	0021 ⁽²⁾	0023.5	3

Dome Temp. 45°F

Focus 12.75

Dome Temp.

Transparency Conditions

clouds - generally poor. 146

Why was exp'r mtr voltage set to 300 volts?

ading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
1977	5015 E	19 02	0	?	?	4	set 2 <u>cloudy</u> 10/2	weak - good	
1978	5003 W	"	0			2-2	set 5 10/6	good (strong)	
1979	0111 W	+41 18	~2"	7.2	Ba Ia	2-2	set 2 MK Std. 1x normal 10/4	weak	
1980	0135 W	"	1-2"	"	"	2-2	" 5 1/2 normal 10/2	v weak	
1981	205 W	+36 50	~1-2"	7.2?	F8 Ia	2-2	set 2 MK Std. <u>cloudy</u> 1x normal 10/7	fine	
1982	0214 W	+49 25'	~1"	6.9	B1 II	2-2	set 2 MK Std. <u>cloudy</u> 1x normal 10/4	fine	
1983	221 W	+36 32	~1-2	5.9	B0 Ib	2-	set 2 MK Std. <u>cloudy</u> 1x normal 10/4	fine	
1984	0152 W	+25 11	~1-2	4.2	F8 5	2-2	set 2 MK Std. 1/2 Normal 10/3.5	weak	
1985	0158 W	"	~1-2	"	"	2-2	set 5 MK Std. 1x Normal 10/7	normal	
1986	203 W	"	~1-2	"	"	2-2	Set 9 MK Std. 2 x Normal 10/14	strong	
1987	0222 W	+37 37'	~6.5	dF2	2-2	Set 2 Fitzgerald Bright*	normal double 10/7	fine	
1988	0259 W	+27 38'	~2'	7.3	K0	2-2	Set 2 Fitzgerald Bright*	10/7	fine
1989	0346 W	+57 20'	~2"	~4.4	F8 Ia	2-2	Set 2 Special Star - genie	10/7	fine, comp. strong
1990	0102 W	+57 40'	4+	4.0	G0 V	2-2	Set 2 MK Std. 1/2 x normal 10/3.5	weak	
1991	0126 W	"	"	"	"	2-2	" 5' " 1x normal 10/7	strong	
1992	0114 E	58 46	3"	4.76	A0 Ia	4	" 2 2x 10/8	strong	

Date 23-24 OCT / 67 CONT'D #h
Observer Hvr

Julian Day

[illegible]

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
0445		-09 31	4"	4.6	K ₂ I	4	MK STD SET 2 10/4	weak
103	0038 E	71	"	"	"	2-2	" 5 10/14	strong
216	0000	+59 05	"	5.5	F0II	4	" " " 5 10/17	- strong
0247	0050 W	55 45	5"	6.02	B ₉	4	B ₈ -B ₉ " 5 10/4	fine
309	3048 W	+10 10	6"	6.2	B ₈	4	" " " 5 10/4	good
323 ³⁰				6.2	K ₂ II	—	Set 2 MK STD. 1/2X 10/4	very weak
334				"	"	4	" 5 1X 10/7	very weak
347	0013 E	+01 53	4"	"	"	2-2	" 9 2X 10/14	weak
504	0045 W	+22 56	"	6.11	MILa	2-2	" 5 2X 10/20	weak
525	0100 W	+23 31	"	6.79	B ₀ II	4	" 5 1/2X 10/2	weak
560	0135 W	+23 19	4-5	7.01	B ₉ II	2-2	" 5 2X 20/14	strong

749

BH DIDN'T APPEAR

Date Tues Oct 24-25/67 Observer HD Dy ^{HD} _{Dy} ^{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.
30785	15 Aps	18 09.3	-20 45	I-12	E105.0	008		18 15		1
30785	8 Cyg	20 18.6	+39 56	I-12	E103.0	008	+11.5	19 23	19 45	1
	Focus test					O.T.B.				
30786	2 And	01 30.9	+40° 54'	I-12	103.0	008	12°C	0044	0047	1
30787	8 Per	02 37.4	+48° 48'	"	"	"	"	0053	0055	2
30788	HD 10260	01 35.3	+60° 30'	"	"	"	"	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 26676	04 08.1	+09 58	"	"	"	12°C	02 17	02 35	3
30793	HD 74398	03 47.8	+31 35	"	"	"	"	02 39	02 42	4
30793E	Focus test						O.T.B./ITA			

APPEAR

Dome Temp. 44°F

Focus 12.75

Dome Temp.

Transparency Conditions

Poor

dome not chained
clocks lights on

occasional clouds

150

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				5.5	B0 Ia		MK Std set 2 Clouds	
	W 1 ^h 17 ^m			2.24	F8 Ib	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-14. in the pier dark-room in dome,	
0047 1	1405W	41° 16'		4.6	F8 II	4	MK STD set 2 10/3	WEAK
0055 2	0407W	49° 07'		4.6	F7 II	4	MK STD set 2 10/3	WEAK
0124	1439W	60° 52'	4"	6.6	B8	4	B8-B9 SB set 2 10/4	FINE
0137	1441W	50° 37'		5.6	B9	4	" " " " 10/4	FINE-WEAK
0155	0404W	55° 50'		6.02	B9	4	" " " " 10/4	"
0210 2	0410E	61° 47'		5.59	B8	4	" " " " 10/4	"
0235 3	0417W	+10° 07'		6.02	B8	4	" " " " clouds 10/4	"
0243 4	0445W	+31° 34'		2.7	cB2	4	STD. VEL. set 2 10/4	FINE
						4/4	T 120C set 5 12.75	WEAK OK IN BLUE
							Plateholders 1 and 2 loaded and in N Pier clouds from southwest cloud up at 3:00 EST	

Date WED-THURS, OCT. 25/26/67 Observer HJ Julian Day 174.5

[illegible]

Dome Temp. +40°FTransparency Conditions CLOUDS - POOR - CLOUDS ⁷⁵²Focus 12.55

Dome Temp.

→ Should have been 12.75

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
95			6	?	?	4	Set 2 } <u>power 12.55</u>	10/2
003	0120 W	+1903				4	" 5 } ✓	10/7
							WOULD PEOPLE PLEASE PUT FOCUS BACK WHERE IT BELONGS ???	(L. WEAK FINE OUT OF FOCUS)
							1 P.H. Loaded in N. PIER.	

Date Sun Mon Oct 29 30 Observer Pi En Julian Day 2454310.5

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 dcl	20 40.8	+18 59	12 E	103 a.o	.008	5.5°C	20:17	20:22	2
								20:23	20:34	
30796	M Cep	21 40.5	+58 19	"	"	"		20:56	21:07	3
30797	E Cep	22 11:3	+56 33					21:26	21:31	4
307975	four. ten						5.3°	OT 13/11/11 A		

Dome Temp. 300FFocus 12.75

Dome Temp.

Transparency Conditions clear at about 19:30 154
occasional cloud from then on

Ending Time EST.	P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
022	2						4	set 2 10/2	WEAK
034		2406W	+190041	3-4			4	clouds set 5 10/7	SL. WEAK
107	3	1437W	+58°37	3-4	6.4	M2 Ia	4	Mk. STD. set 2 10/5	WEAK
21:31	4	1430W	+56°55		4.5	F0 IV	4	" set 2 10/3 21:35	SL. WEAK
ITA							4/4	cloud from Northwest at 21:35 focus 12.75 set 5 closed up at 22:30 plateholder loaded in W Pin	OK IN VIOLET (later to red in red)

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	HD192422	20:09.7	38° 28'	I12K	103a0	.008	11.3°C	18:09 ^(N)	18:20	1
"	"	"	"	"	"	"	"	18:20 ^(C) 1/2	19:26 ^(C) 1/2	"
30799	NOVA DEL	20:37.7	18° 48'	"	"	"	"	19:34 ^(N)	19:35 1/2	2
"	"	"	"	"	"	"	"	19:36 ^(C) 1/2	19:43 ^(C) 1/2	"
30800	35 Cyg.	20:14.8	34° 40'	"	"	"	"	19:56 ^(C)	19:59	4
30801	HD199478	20:52.5	47° 02'	"	"	"	11.8°C	20:08 ^(C)	20:11 3/4	1
"	"	"	"	"	"	"	"	20:12 ^(C)	20:29	"
30802	HD207673	21:45.6	40° 40'	"	"	"	"	20:35^(C)	21:06	3
30802	HD 8779	1:21.4	-0° 55'	"	"	"	"	21:14 ^(C)	22:05	4
30803	ω ² ACR	23:37.4	-15° 06'	"	"	"	"	22:18 ^(C)		1
"	"	"	"	"	"	"	"		22:21 ^(C)	1
30804	ρ Cass	23:49.4	56° 57'	"	"	"	"	22:38 ^(C)	22:45	2
30805	HD10260	01:35.3	40° 32'	"	"	"	"	23:01 ^(C)	23:20	3
30806	HD 11291	1:45.8	50° 18'	"	"	"	11.8°C	23:23 ^(C)	23:29	3
30807	HD 11905	1:51.9	41° 12'	"	"	"	"	23:34 ^(C)	23:53	3

Dome Temp. 36°F

Focus 12.75

Dome Temp. 34°F

Transparency Conditions much cirrus in west at sunset.

POOR!

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:20		+38°41'	~3"	6.91	B0.556	4	mk (1/2 norm) set 2/20/4	weak
9:20 1/2	W 11:30	"	~5"	"	"	-	mk (VERY HAZY) (2x norm) set 6/20/20	STRONG
9:35 1/2		+19°04'		?	?	4	set 2 20/5'	SL. WEAK
9:43 1/2	W 1:20	"		?	?	4	set 6 20/16	OK
9:59	W 1:59	34°56'		5.9	F526	4	mk, (1/2 normal) set 5 20/7	SL. WEAK
10:11 3/4		47°21'		6.2?	B8Ta	-	mk set 2 (1/2 norm) 20/4	(GUIDING) WEAK
10:29	(CHECK) W 1:51	"		"	"	4	mk set 5 (2x norm) 20/18	STRONG
10:06	W 1:35	41°01'	4-5"	6.49	A216	4	mk * set 5 (2x norm) 20/18	BLANK
10:05	E 1:02	-0°34'	~5"	7.5	KP	4	set 5 40/30	SL. WEAK
				4.4	B9.52	-	mk	
10:21	W 0:55	-14°42'	~10"	"	"	4	mk	
							set 2 (normal) 22/8?	WEAK
							set 5 (2x norm) 22/16?	STRONG
							EXP. MTR. STOPPED WORKING ON-GAIN-5 10 9 20.	
12:45	W 0:08	57°20'		4.4	F8Ta	4	INTERMITTENT CLOUDS set 40/30	(COMP. WEAK) FINE
13:20	E 0:13	60°54'		6.6	B8	4	B8-39 (S.B.) set 2 40/24	OK
13:29	(CHECK) E 0:04	50°08'	~5"	5.6	B9	4	B8-39 (S.B.) set 5 40/24	"
13:53	W 0:15	41°32'		6.56	B8	4	* (CHECK FIELD) set 9 40/24	"

Date 30-31 Oct/67

Date 30-31 Oct/67 Observer Mee-Hk/Hs-Ah Julian Day 213-214

non-9-emo

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
3080 8	H79138	1:24.9	5° 38'	I-12½	10300	.008		0:04 ^(*)	0018	4
3080 8 F1	focus test	OTB/ITA					9.12°C			2

Dome Temp. 34° FTransparency Conditions CLOUDS

756

Focus

Dome Temp.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
018	4 0108W		> 4"	6.2	K4	4.	stat. Ucl. 40/30	- FINE SL. W. EQ. H.
							2 P.H. IN N. PIER	
							EX. MTR. REPAIRED. 03 ^h 00	
							Plate holder #2 - plate may be in backwards!	
							It was	nce
						4/3	set 4	OK

159

4-5

Date Sat. 9 Nov / Sun 1967 Observer L-Ch-Ga / Hb NY Julian Day 1854

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30809	HD 190603	20 00.7	31 56	I 12 $\frac{1}{2}$	103A0	50 .008				1
552-Hol								1854	1905	
30809	η Per	02 43.1	+55 29	I 12 $\frac{1}{2}$	103a0	.008	3°C	00 43	00 49	1
"								00 50	00 54	
"								00 55	00 56	
30810	HD 21291	03 21.0	+59 36	"	103a0	.008	3°C	01 05	01 06	2
30811	36 Per	03 25.5	+45 43	"	103a0	.008	3°C	02 24	02 47	3
"	"	"	"	"	"	"	"	02 48	03 00	
30812	L Cam	04 44.1	+66 10		103a0	.008		03 04	03 09 $\frac{1}{2}$	41
"	"							03 10	03 16	

Dome Temp.

For after 0100

760

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. (4)	REMARKS	Quality
				6.2	B15Ja		MK Sta. 10/	
							Suddenly clouded in. lights for visitors eyes were also left on. Midnight: Door to outside catwalk was unlocked and open. Shutters were open nearly one-inch! Hb	
00 49	1	00 38W	+55 48	~1-2"	5.4	K3Ib	2-2 Set 2 MK Std. 2x normal 10/14	fine
00 51							1 5 " 10/7	weak
00 56							9 " 1/2 " 10/3 1/2	very WEAK
01 00	3	00 17W	+59 59	~1-2"	4.4	B9Ja	4 Set 2 " 1x normal 10/4	FINE
01 02	3	01 55W	+45 59	~3-4"	5.7	F4II	4 Set 2 clouds 1x normal 10/7	STRONG
01 03							5 1/2 " 10/3 1/2	SL. STRONG
01 03	2	00 57W	+66 16'	~4"	4.3	09.5Ja	4 Set 2 1x normal 10/4	SL. STRONG
01 03	6						5 clouds 1/2 " 10/2	FINE SNOW!
							Closed up quickly 0316	
							4 Ph. loaded	
							[Fine Snow filtering through shutters]	

161

Date Sun Mar 26 67 Observer R.H.H. ^{Ex m se} 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.
30813	HD 190603	20 00.7	+31°56'	F125	10320	1008	2.2°C	17:52 ⁽³⁾	17:55	1
								17:56 ⁽⁵⁾	18:01	
30814	HD 193183	20 13.8	+37°55'					18:09 ⁽²²⁾	18:32	2
								18:33 ⁽²³⁾	18:56	
30815	NOVA DE	20:40.8	+18°59'	"	"	"	"	19:02 ⁽²⁾	19:04	3
								19:05 ⁽⁵⁾	19:10	
30816	8 Cep	23 35.2	+77°04'					19:30 ⁽⁶⁾	19:36	4
30817	HD 16494	22 48.2	+12°59'	"	"	"	"	19:49 ⁽¹¹⁾	20:00	1
553-16								20:00 ⁽¹⁰⁰⁻²⁴⁾	21:00	
30818	22 And	00 05.1	+45°31'	"	"	"	2.3°C	21:21 ⁽³⁾	21:24	2
30819	V And	00 44.3	+40°32'					21:30 ⁽²⁾	21:32	3
30820	HD 3765	00 35.3	+39°40'					21:41 ⁽²⁶⁾	22:05	4
30821	HD 10260	01 35.3	+60°32'					22:13 ⁽⁴⁾	22:19	1
30822	HD 11291	01 45.8	+50°18'					22:23 ⁽⁴⁾	22:27	2
30823	HD 10497	01 37.3	+52°23'					22:34 ⁽⁴⁾	22:40	3

Dome Temp. 30°F

Focus 12.75

Dome Temp.

Transparency Conditions

cloud in West at first
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	0° 39W	+32° 09'					1xN set 5 10/4	FINE
18:32			2-3	6.93	B1.5B	4	1xN set 2 10/4	FINE
18:56	1° 20W	+38° 08'	3-4				2xN set 5 10/8	SL. STR.
19:04			3-4			4	set 2 10/2	SL. WK
19:10	1° 10W	+19° 04'	3-4			4	set 5 10/7	FINE
19:36	1° 22E	+77° 28'		4.3	K1IV	4	MR STD 2xN set 2 10/14	(GUIDING) STRONG
20:20	0° 11E	+11° 44'		5.87	B9	4	B8-B9 SB set 5 10/7	L. WEAK
21:24	0° 03E	45° 50'		5.5	F2II	4	MR STD 1xN set 5 10/3	(GUIDING) WEAK
21:32	0° 40E	40° 55'		4.4	B5V	4	1xN set 5 10/4	(GUIDING) SL. WEAK
22:05	0° 06W	40° 00'	2-3	8.2	K5	2-2	STD VEL set 5 10/7	OK
22:19	0° 40E	60° 53'		6.6	B8	4	B8-B9 SB set 5 10/4	SL. WEAK
22:27	0° 43E	50° 38'		5.6	B9	4	B8-B9 SB set 5 10/4	L. WEAK
22:40	0° 20E	52° 42'	3-4	6.90	F5I	4	MR STD 1xN set 5 10/3	WEAK

Date in Mar Nov 5/6Observer P. H. L. G. E. Julian Day.[illegible]

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
22:48	0435E	230 18'		3.2	K2 III	4	Mk STD 1/2 N set 5 10/3	(GUIDING) WEAK
23:00				6.95	AS Ia	4	" " 1/2 N set 2 10/2	WEAK
23:09	0456E	+560 59					" " 2xN set 5 10/8	SC. STR.
23:36	0450W	-04 33	3-4	7.5	K0	4	STD VEL set 5 10/7	OK
							EXPOSED PLATES BACK TO BACK	
23:50			5"				Checked over. 3:30	
							PLATE HOLDER #1, 2, 3, 4, ALL LOADED AND IN N POS	

Date 7-8 Nov/67 (Tues Wed) Observer ^{Ch}use / ^{Hh}Ri Julian Day

[illegible]

Dome Temp.

~ 22:30 F50 ~

765

[illegible]

Date Nov 8-9/67

Observer

Julian Day

[illegible]

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

Focus12.75.....

Dome Temp.

Transparency Conditions

Poor

168

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
056			5-6		Nova	4	Set 2	20/3.7
007		19° 04				4	" 5	20/13
027	02 39 W		4-5			4	" 9	20/40
2126	03 15 W	41 32	3-4	6.27	F2	2-2	" 2	20/14
2111					F6V	2-	" 5 clouded out!	10/1.9
							2 P.H. Loaded + Spotted in N. Pier.	

7601

Date Nov. 10-11/67 ^{H_n} Fri. Sat Observer Hv. H/ 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	Nova Del	20 40.8	18 59	F-12	10360	008		1841	② 1843	1
"	"	"	"	"	"	"		1844	③ 1855	1
"	"	"	"	"	"	"		1850:30	④ 1856:30	1
30833	S Cyg	19 41.9	+44 53	"	"	"		1906	⑤ 1906 1/2	2
"	"	"	"	"	"	"		1909	⑥ 1910 1/2	2
30834	HD 190603	20 00.7	+31 56	"	"	"		1928	⑦ 1940	3
30835	HD 192422	20 09.7	+38 28	1	1	1		1955	20 23	4

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

Focus 12.75

Dome Temp.

Transparency Conditions

? partial low fast drift 170

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
843		19 02	4"	2.5	Nova	4	20/4, 20/16 Set 2 set 5	FINE
		"		"	"	4	20/16 Set 5	STRONG
856'30	1 ^h 15	"		"	"	4	20/2 set 9	WEAK
900			4 ⁺	2.9	B9.5II	None	20/4 (mK) set 3 1/2 norm.	WEAK
910 1/2	2 ^h 26 ^m	45 06		"	"	4	20/8 set 8 norm	FINE
940 3	2 37 ^m	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	
98	3 ^h 13 ^m	38 42	4 ⁺	6.9	B0.5 Ia	4	20/4 1/2 norm set 5	<u>BLANK</u>
							very cloudy	
							Clouds over complete	
							1 PH loaded in N Pier	

777

Date Nov 15-16/67 Observer F Hy - Ri Julian Day 62

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. ^c	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30835	HD 10497	61 37.3	+52 23	F12	103a0	008	-4.3°	22 57 ¹²	23 09	
554-H ₃								2330 ^{4:5}	0345	
30836	HD 57608	7 16.9	+0°22	F12	103a0	"	-4.5°	04 18 ⁵³	04 41	2
30837	HD 58599	7 21.2	+11 12	"	"	"		04 54 ["]	05 05	3
30838	HD 58661	7 21.5	+48°34	"	"	"		05 19 ⁶	05 25	1
30839	HD 65241	7 52.7	+7°29'	"	"	"		05 37 ["]	05 47	1
30840	HD 66634	7 59.6	+27 49	"	"	"		06 09 ["]	06 30	2
30840R	focus test		DTB/ITA				-5°			

Dome Temp. $+12^{\circ}\text{F}$ (23^h00)

Focus 12.75

Dome Temp. $+8^{\circ}\text{F}$ (6^h45')Transparency Conditions Clearing 22^h00

172

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 09	0 47 W	+53 44	10"	6.90	F5 Ia	4	Set 2 1/2 Norm. MK STD 20/8	SL. WEAK
3 29							Clouds	
4 41	0 44 5 W	+00 30'	4-5	5.95	B8	2-2	B8-B9 set 5 lazy 20/9	SL. WEAK
5 05	1 02 W	+11 05'	2-3	6.26	B8	2-2	B8-B9 set 5 20/10	SL. WEAK
5 25	1 42 W	+48 04'	3-4	5.55	B9p	2-2	B8-B9 set 5 20/10	SL. WEAK
5 47	1 41 W	+07 20'		6.3	B9	2-2	B8-B9 4 20/10	SL. WEAK
6 30	1 44 W	+27 38'	3-4	6.14	B9	2-2	" " 20/10 very lazy	SL. WEAK
						4-4	focus 12.75 set 9	OK
							P.H. loaded w N. Pic	

773

where is BhDate Lat-Ser Nov 13, 19Observer 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.
30841	π^3 Ori	04 44.4	+06 47	12 $\frac{1}{2}$	10360	.008	+22 $^{\circ}$ C	1:30	1:34	3
30842	19 Aur	05 13.4	+33 51					1:44	1:50	4
30843	δ Ori	05 26.9	-00 22					1:58	2:02	1
30844	ζ 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	2:58	3
								2:59	3:10	
								3:11	3:22	
30846	H 548434	06 38.4	+04 02					3:31	3:46	4
30847	13 Mon	06 27.5	+07 24					3:52	4:05	1
30848	α Gem	06 31.9	+16 29					4:12	4:14	2
30849	6 Gem	06 06.3	+22 56				+2°C	4:20		3
30848F	focus test		OTB/1A				+2 $^{\circ}$ C			3

Dome Temp. 22°F

Focus +2.25

Dome Temp. 22°F

Transparency Conditions

Poor occasional clouds
very windy at night

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality	
34	3	0°20W	+06°57'	3-4	3.6	FGV	4	MA STD	1xN set 5	20/14	FINE
50	4	0°05W	+33°56'		5.3	ASII	4	"	1/2xN set 5	20/4	WEAK
02	1	0°05W	-00°16'		2.0	09.8II	4	"	2xN set 5	20/16	STRONG
17	2				4.4	BOII	4	" clouds	1/2xN set 2	20/4	WEAK
31								"	1xN set 5	20/8	FINE
39		04°44W	-07°16'					"	2xN set 9	20/16	STRONG
58	3				6.2	KZII	4		1/2xN set 2	20/7	WEAK
0									1xN set 5	20/14	FINE
22		14°05W	+01°53'					clouds	2xN set 9	20/4	STRONG
46		04°37W	+04°00'		5.7	BOIII	4	clouds	1x4 set 2	20/8	FINE
05		14°07W	+07°24'	3-4	4.5	AOIB	4		2xN set 5	20/16	STRONG
1		14°11W	+16°28'		1.9	AOIV	4		2xN set 5	20/16	STRONG
					6.11	MTIa		clouds	1x12 set 2	20/5	clouded over at 5:00
							4/4	12.75	set 5		WHAT SPECTRUM?
								P.H 1+4 loaded in N Pin			SL.C.T.R.

where is Ny

Observer... *Ri*

Julian Day

[illegible]

Dome Temp. 24.0 FFocus 12.75

Dome Temp.

Transparency Conditions Poor

776

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:28			3-4		NOVA	4	set 2 20/4	OK
8:35						4	set 5 20/8	
8:39	1 ^h 34W	+19° 04'				4	set 9 20/16	
9:09			3-4	6.94	B1 II	4	MR. STD. 1xN set 2 20/8	WEAK
9:36	2 ^h 19W	+49° 25'					2xN set 5 20/16	FINE
10:49	2 ^h 30W	+47° 19'		6.2	B8 Ia	4	1/2 x N set 5 20/4	WEAK
10:17	2 ^h 47W	+38° 36'		7.4	K7 II	4	clouds 1/2 x N set 5 20/7	WEAK
10:42	2 ^h 25W	+56° 30'	3-4	6.5	B8 Ib	4	1xN set 5 20/8	WEAK
						4/4	12.75 set 9 1xN snowfall at 21:00 closed up at 22:00 loaded plateholders in TV. Run #3, 4, 1.	VERY WK. OK

777

Date 20-21 Nov/67 / Turn - 8 hrs 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.F.
30854	NOVA DELP.	20:37.7	+18° 48'	I-12 1/2	10320	.008	+9.0°C	17:46	17:47	#1
"	"	"	"	"	"	"	"	17:48	17:49	"
30855	P Cass	^{49.4} 23:52.7	56° 57'	"	"	"	"	18:04 1/2	18:10	#3
30856	HD 225289	23:59.9	60° 46'	"	"	"	"	18:23	18:32	#4
30857	HD 193964	20:18.0	61° 56'	"	"	"	"	18:40	18:53	#4
30858	ECyph.	22:11.4	56° 33'	"	"	"	"	19:01	19:05	#2
30859	ω² Aya	23:57.4	15° 06'							#

Dome Temp. 23° F

Focus 12.75

Dome Temp.

Transparency Conditions *circum from 18:00*

VERY POOR

778

ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
7:47 1/2			75"	?	NOVA	4	set 3	20/2	WEAK
7:49	10:48	+19° 04'	"			4	set 8	20/4	SL WEAK
7:50 3/4	2:02	+57° 20'	"	4.4	F8Iap	4	set 5	20/15	FINE
7:52 1/4	1:49	61° 04'	"	5.9	B9	4	B8-B9 (SB) set 2	20/14	SL WEAK
7:53 1/2	2:14	62° 11'	"	5.6	B9	4	" " set 6	20/14	FINE
7:55 1/4	10:30	56° 54'		4.5	F0IU	4	mk set 5	20/6	SL WEAK
				4.5	B9.5V		mk	This plate in Crohm Both spectra appear OK	

Date 24-2, Fri-Sat Nov. 1967 Observer Hb, P1 / Julian Day

[illegible]

Dome Temp. 29°F Focus 12.75 Dome Temp. 29°F

Transparency Conditions

2200 Good
 2230 - poor
 2330 Cloud Cover

180

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 41	02 44 W	+57° 20'	~2"	4.4	F8Eap	3-2	Lumie Special x	10/7 FINE
22 54	00 56 E			5.8	F0II	4	MK Std. 1x normal	(GUIDING) FINE
23 20	01 31 E	+06° 55'		3.6	F6V	4	" Clouds 1x normal	FINE
				3.5	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 / M^{se} - 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.	How Exp.
30862	NOVA DEEP	20 37.7	18 55	12 $\frac{1}{2}$	103a0	.008	+5°C	17 51 ³	17 54	1	
555-16b	Worm Neb							17 55 ⁸	18 03		0125
								18 10 ⁴⁵	19 35 ⁰		
								19 53 ²⁰	20 13	2	200
30863	19 CEP	22 00.1	+61° 48'	"	"	"	"	19 53	20 13	2	200
30864	22 And	00 05.1	+45° 31'					20 18 ¹⁷	20 35	3	043
30864c	focus test			5TB/17A							
30865	16 PER S	4:44.3	37° 54'	12$\frac{1}{2}$	103a0	.008					

Dome Temp. 34°FFocus 12.75

Dome Temp.

Transparency Conditions cloud at 20.00

182

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 54			3-4			4	set 2 20/4	OK
18 03	01 25W	+19°03'				4	set 5 20/8	
18 13	02 05W	+62°07'	3-4	5.2	09.50	4	Where is Ea? (EST 1800) Arrived L.S. 1020 Who locked up ^{over} the observing suite? 3 FIXED	
20:13	04 30W	45°55'		5.5	F2 II	4	MK STD set 5 1xN 20/8 clouds	U.S.L. WEAK
						4/4	MK STD set 5 1/2 x N 20/6 hazy + clouds	L. WEAK
							12.75 set 9	OK EX 15.
							clouded up at 21.00	
							L.P. are 1, 2, 4	
							clouded in ^{again} (02:40)	
							before getting 1 plate.	

~~4.6 F2 III~~~~MK~~

183

Date Tue-Wed Nov. 28/29 Observer Dy - Bh ^{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.
30865	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 st 1b	M67							01 26	06 28	

Dome Temp. 17°F

Focus

Dome Temp. 16°F

Transparency Conditions

fair

189

Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

1st exposure over exposed - set 2
(about 20^m exp)

REMARKS

Quality

+62° 50

3-4

4.3

B1 Ia

4

SPECT- LIGHT SWITCH IS BROKEN —
HIGH VOLTAGE? OR NEGLIGIBLE?

STRONG

116

0056 W

+62° 50

..

..

..

..

20/5 MK STD. 1xN light clouds ^{set 5}
CLOUDS — 2120 EST

WEAK

(some exposure-meter problems —
okay when we finished.)

105

1628

0034 E

+01 53'

5

6.2

K2 II

4

Set 2 MK STD

10/14

FINE

Telapex slipped in die (with) frequently.
DEC. CLAMP NOT HOLDING.

Date WED-THURS. NOV. 29/30/67 Observer Hv F- Julian Day 175.5

[illegible]

Dome Temp. $+16^{\circ}\text{F}$ 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.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10 55	5 15W	$39^{\circ} 46'$	4.3	10.5	Em	1-2-	SET 5 Fitzpatrick's * 800/90 clouded out	FINE 2 PCS
3 57	3 27W	51 14	5	4.8	gm7e	1-2-	SET 5 Thin passing cloud 40/22 clouded out last $\frac{1}{2}$ hour -7.19/67°F 4 P.H. Loaded + Spotted 10300 IN NORTH PIER	OK (2 PCS)

Date Thurs Nov 30 / 67

Observer

Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Good*

783

Focus

Dome Temp. *10°F*Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

630
After repeated warnings to check
dec slow motion screw for
centring & found it jammed.

also pin in pinion sheared off. !!!

Telescope still slipping in dec. (60).

189

Date Dec 3/4 1945 Observer Er. Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
30869	Nova Del	20 37.7	19 55	10 $\frac{1}{2}$	103aD	.008	0°C	17 42 ²	17 44 ⁵	1
								17 44 ⁵	17 49 ¹	1
								17 49 ¹	18 00 ¹	1
30870	W ² Aqr	23 37.4	-15 06					18 11 ⁴	18 15 ¹³	2
-30871	HD 219 749	23 13.2	44 57					18 33 ¹³	18 46 ¹³	3
30872	HD 222 847	23 39.0	-18 50					18 52 ¹¹	19 03 ¹¹	4
30873	p Cas	23 49.4	+56 57					19 16	19 29	1
								19 30 ²⁶	19 56 ²⁶	0 4
30874	k Cas	00 27.3	+16 23'					20 04 ⁴	20 08 ³	2
								20 09 ³	20 12 ²	0 1
30875	v And	00 44.3	+40 30'					20 19 ⁴⁴	20 22 ⁴⁴	3
30876	HD 10260	01 35.3	60 32'					20 30 ¹¹	21 14 ¹¹	4
30877	HD 11291	01 45.8	+50 18					21 19 ¹¹	21 30 ¹¹	1
30878	2 Ari	02 01.5	+25 59					21 49 ¹¹	21 51 ¹¹	2
30879	6 Per	02 37.4	+48 48					21 57 ⁴	22 01 ⁴	3
30880	HD 17378	02 42.7	56 40					22 09 ¹¹	22 20 ¹¹	4

Dome Temp.

24°F (21°F 1800)

Transparency Conditions

Clear in S

190

Focus

12.75

Dome Temp.

MORE PROGRAMS NEEDED (VERY LIMITED CHOICE)

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
44	134 ^m W	19 05	4			4	4 counts set 2	} FINE
7:49						4	8 counts set 5	
8:00	1 ^h 49 ^m W		2-3			4	16 counts set 9	
8:15	0 ^h 55E	-15° 40'	4	4.4	B9SB	4	Mk. STD 1xN set 5 20/8	1 weak FINE
8:46	0 ^h 00E	45 20		6.3	B9p	4	B8-B9SB set 5 20/8	(GUIDING) FINE
9:03	0 07E	-18 23	4	5.21	B8	4	B8-B9SB set 5 20/10	FINE
9:19	0 11W	+57° 17'		4.4	F8Iep	4	darkside in set 5 20/14	FINE
9:56	0 43W	+57° 17'	4				set 2 20/14	
10:08	00 08W	62° 45'		4.3	B1Ja	4	Mk STD 1xN set 5 20/8	SL. STR.
20:12	00 11W						1xN set 2 20/4	SL. STR. FINE
20:52	0 07W	40 57		4.4	B5V	4	Mk STD 1xW set 5 20/8	STRONG
21:14	0 05W	60 55	4	6.6	B8	4	B8-B9SB set 5 20/10	FINE
21:50	0 11W	50 40	4	5.6	B9	4	" " " " 20/10	FINE
21:51	0 ^h 07W	23° 12'	4	3.2	K2II	4	Mk STD 1xN set 5 20/7	SL. WEAK
22:01	0 ^h 10E	49° 06'	4	4.6	F7II	4	Mk STD 1xN set 5 20/7	SL. WEAK
22:20	0 05W	56° 58'	4	6.95	A5Ia	4	" " 1xN set 5 20/4	WEAK

Date DEC. 3/4 1967
CONT'D

Observer Eg Ri

Bh arrived 23:40

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus 17.75

Dome Temp. 16°F

192

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:30	0429E	45 59		5.7	F4II	4	MK STD. 1/11 set 5 20/7	SL. WEAK
22:54	0417E	24 36		5.6	B8	4	B8-B9 SB set 5 20/10	FINE
23:12	0401E	+55°56	4	6.02	B9	4	B8-B9 SB set 5 20/10	FINE
23:29	0414E	+61 46		5.59	B8	4	" " set 5 20/10	FINE
23:44	004W	+10 11		6.20	B8	4	" " set 5 20/10	(U.S.L.W.K.) OK
							fog moved in at 04 hours all plateholders loaded shutters would not close proper	

193

Date *Mon 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.E.
30886	H.D. 214200	22 31.6	35 04	I-12 $\frac{1}{2}$	E 103A ₆	Set 008	-0.9	18 43	18 54	1
30887	" 217491	22 56.0	44 50	"	"	"	-0.9	19 09	19 13	2
30888	" 217943	22 59.2	59 34	"	"	"	-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 38	I12 $\frac{1}{2}$	103A ₆	.008	-0.9	0000	0015	1
								0015	0017	

Dome Temp. 24°FFocus 12.75

Dome Temp.

Transparency Conditions Heavy cloud at sunset 70%
0000 - thick haze + cloud - very poor

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
54	0 55W	35 24	2	6.66	K0	2-2	Fitzgerald	10/7 FINE
13	0 49W	45 11	2	6.39	A2	2-2	"	10/4 (GUIDING) SL. WEAK
31	1 03W	60 15	2	6.51	B3	4	"	10/4 VERY WEAK
42	1 04W	50 26	2	6.23	A0	4	"	10/4 WEAK
01	1 21W	28 03	2	6.33	gK3	2-2	"	10/7 WEAK
09	1 40W	24 36	2	6.43	F2	2-2	"	10/7 SL. WEAK
035	1 53W	44 59	2	6.40	sgK0	2-2	"	10/7 SL. WEAK
04	2 08W	32 22	2	6.44	F5	2-2	"	10/7 SL. WEAK
21	2 12W	32 43	2	6.24	F5	2-2	"	10/7 SL. WEAK
21	2 25W	44 49	2	6.54	gK5	2-2	"	10/7 WEAK
21	2 23W	42 28	2	5.98	F5	2-2	"	10/7 WEAK
Haze Thickening 4 Plate Holders spotted & lost in Pair.								
00.4	0 48E	-02 37	2	3.5	09.5V	4	MK SED. 1x normal	10/4 SL. STRONG
00.17							1/2 x normal	10/2 SL. WEAK

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	Hour An End
30897	σ Ori	05 33.7	-02 38	I 12½	103A0	.W8		00 17	00 18	1	
30898	ζ Ori	05 35.7	-02 00	I 12½	103A0	.W8		00 23	00 23½	2	00 23
"	"	"	"	"	"	"		00 25		"	
"	"	"	"	"	"	"		00 26		"	
30899	K Ori	05 43.0	-09 42	"	"	"		00 30	00 32	3	00 30
"	"							00 32	00 33		
"	"							00 34			
30900	χ² Ori	05 58.0	-20 08	I 12½	103A0	.W8		00 42	00 44½	1	00 42
								00 45	00 46		
								00 46½	00 47		
30901	α Lep	05 28.3	-17 54	"	"	"		00 54	00 57	1	00 54
"	"	"	"					00 58	01 00		
"	"	"	"					01 01	01 04		
30902	HD 35656	05 21.2	+06 47					01 10	01 27	2	01 10
30903	HP 36881	05 29.7	+10 10					01 31	01 39	1	01 31

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

196

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0018							MK Std 1/2 normal 10/1	WEAK
0023 1/2	0040E	-01 59		^{MV} 2.1	09.5 II	4	MK Std. Set 2 2x normal 10/8	STRONG
0025				"	"		" 1x " 10/4	FINE
0026				"	"		" 1/2x " 10/2	WEAK
0032	0036E	-09 42		1.9	B9.5 Ia	4	MK Std. Set 2 2x " 10/8	STRONG
0033							" 1x " 10/4	FINE
0034							" 1/2x " 10/2	WEAK
0042	0045E	+20° 06'		4.9	B2 Ia	4	MK Std. Set 2 2x norm 10/8	STRONG
0046							" 1x " 10/4	FINE
0051							" 1/2x " 10/2	WEAK
0057	0001W	-17 52 ~2'		2.8	F0 Ib	4	MK Std. Set 2 2x norm 10/14	STRONG
0100		"			"		" 1x " 10/7	FINE
0104		"			"		" 1/2 " Clouds 10/3 1/2	WEAK
0127	0039W	+16° 50'		6.37	B9	2-2	B8-B9 set 2 10/5	FINE
0139	0042W	+10° 12'		5.54	B8	2-2	" set 5 10/5	FINE
	Closed up 0210 — fog						4 ph. loaded in N pie	

Date DEC 9/10

Observer.....H6/ny

Julian Day

[illegible]

Dome Temp.

798

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. 1-2-1	REMARKS	Quality
254		+41° 18'	~3"	7.2	80.5	2-2	NE Std. set 7x normal + <u>two slow</u> clouds 10/16 2/3	W F A K
216		+41° 49'	4"	5.96	06	2-	Fitzgerald Bright * set 5 Cloud 10/12 closed shutters 1820 - overcast.	

Date Dec. 13-14/Wed.-Thurs Observer D. J. F. Julian Day 2444100

[illegible]

Dome Temp.

Transparency Conditions *Per*

200

3 HOW LD BE 2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:41	3:40W	61° 59'	5"	sr67	dk5	2-2	Fitzgerald MK Class Set (3) 10/7	SL. WEAK
7:15	4:10W	50° 10'	4	6.28	A0	2-2	" Set 5 Clouds 10/6	FINE
8:52	4:50W	51 24	4	6.12	gk1	2-2	" Set 7 " 40/30	(GUIDING) FINE
10:04	4:33W	41 38	4	5.63	B8	3	" Set (3) " 10/4	FINE
20:32	5:04W	45 34	4	6.46	B3n	2-	" Set 5 Clouded out 10/2	WEAK - WHIP? SL. WEAK
3 PH loaded in drawer								

207

TUES-WED

Date ~~Mon~~ Dec 19/20 67 Observer Hd Ri / Gd 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.
309 10	AB 10260	0135.3	+60°32'	12½	10300	1008	4.3	20:14 ³	20:27	1
								20:32 ⁰	20:42	
309 11	kCas	0027.3	+62 23					20:58 ³	21:00	2
309 12	V And	0044.3	+45°32'					21:08 ³	21:11	3
309 13	6 Per	0237.4	+48 48					21:17 ²	21:19	4
	"	"	"					21:20	21:21	
309 14	36 Per	0325.5	+45 43					21:25 ⁴	21:31	2
	"	"	"					21:31 ⁴	21:35	
309 15	140 2316 9	0337.9	-25°05'		1120		4.2	21:45 ¹	23:46	1
558-116 A								00:10 ^{3:05}	03:15	

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
0:27	1 0422W	60°54'		6.6	B8	2-2	B8-B9 SB set 2	20/10 fine
0:42	0436W	50°39'				4	set 5	20/10 fine
1:00	2 2404W	62°47'	2"	4.3	BLE	4	M4-STO 1/2 W set 5	20/4 weak guiding
1:11	3 1457W	40°54'		4.4	B5V	4	1/2 W set 5	20/8 strong
1:17	4			4.6	F7V	4	1/2 W set 5	20/7 strong
1:21	?	?		.	"	.	1/2 W set 9	20/4 weak
1:31	2			5.7	F4III	4	1/2 W set 5	20/7 fine
1:35	0421E	45°57'				4	1/2 W set 9	20/4 weak
3:41	1 1439W	25 38	2"	9.39	G0V	2-1-1	5ES. SMO. UEL. set 5	40/40 generally fogged fine
3:51							Misc in car accident. Clouds.	

603

Date Wed/Thurs 20/21 Dec. Observer F. H. Julian Day 233

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	I 12 1/2	103a0	xL W8	4.5°C	17 35.2	17 38	2
"	"							17 39	17 42	
"	"							17 42	17 45	
30917	HD 198390	20 44.9	+12 10	I 12 1/2	103a0	W8		17 52	(18 05)	3
30918	HD 197076	20 36.2	19 34	"	"	"		18 09	18 24	
30919	198625	20 46.5	46 17	"	"	"		18 30	18 37	
30920	198639	20 46.5	+43 41					18 39	18 41	4
30921	198237	20 43.7	+45 13					18 41	19 18	
30922	201836	21 07.0	47 17	"	"	"		19 23	19 36	
30923	202654	21 12.1	+47 33	"	"	"		19 42	19 52	
30924	203245	21 16.0	+49 05				44°C	19 56	20 00	
30925	205644	21 18.5	+48 58	"	"	"	"	20 05	20 17	
30926	209857	22 01.3	+46 16	"	"	"	"	20 31	21 01	
30927	209932	22 01.8	44 37	"	"	"	"	21 05	21 35	
30928	224544	23 53.7	31 49					21 42	21 55	

Dome Temp. 35.0°F

Focus 12.75

Dome Temp.

Transparency Conditions good

0915 - poor

209

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp. (u)	REMARKS	Quality		
7 38	02 35 W	+19° 07'	~3-4"	~3.8		—	Set 2	20/16	lweak	
7 42	"	"	"	"		4	5	20/12	fine	
7 45	"	"	"	"		—	9	20/24	strong	
7 48	02 55 W	12° 29'	"	5.9	df4	2-2	Set 2 Fitzgerald Bright *	20/15	strong	
18 24	03 24 W	19° 52'	"	6.3	dG2	2-2	5	" "	20/15	strong
18 37		46° 35'	"	6.5	B4m	4	8	"	20/10	strong
18 41	03 30 W		"	5.08	A4m	2-2	Set 2	"	20/10	strong
19 11	04 09 W	+45° 30'	3"	6.52	gM0	2-2	5	"	20/22	fine
19 36	04 03 W	+47° 36'	~2-3'	6.37	B5	2-2	9	"	20/10	strong quality
19 42	04 15 W	+47° 53'		6.32	B5n	4	Set 2	"	20/10	strong
20 11	04 20 W	+49° 25'	~2"	5.66	B5	4	" 5'	"	20/10	strong
20 17	04 30 W			6.77	gK0	4	9	"	20/18	strong
21 02	04 35 W	+48° 38'	2"	6.12	gM0	2-2	Set 2	"	20/20	fine
21 35	05 09 W	+44° 55'	2"-4"	5.12	gM0	2-2	5	clouds	20/20	fine
21 55	05 35 W	+32° 14'		6.51	B5	2-2	9	clouded out.	20/16	lweak

Thursday, Dec. 21. Change from I12½ - I21'
205

$I_{12\frac{1}{2}}$: tilt = 20.3°
fuss = 12.75

Date _____ Observer _____ Julian Day _____

[illegible]

23.23

206

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

DTB/1TA

20/16

fours 15.30

net 1

c. to blue.

" 15.25

" 6

sl. c to blue.

" 15.20

" 9

OIC

Date Wed Dec 27-28/67 Observer W. R. ... Julian Day ...

[illegible]

Dome Temp.

Transparency Conditions *very lazy*

208

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7.53	1			5+		3-3-3	set 2 20/24	l weak
8.32	3 ^h 57 ^m W	+19°07'	3			3-3-3	set 5 20/12	weak
9.28	2	61°58'		5.0	826	3-3-3	MK-STD. set 2 20/24	? nothing
9.50	4 ^h 13 ^m W						set 5 20/7	? fine
			0T3/1TA			20/16	set 9	(no. slitter over O.K. only part)
							Thick - closed	

Date Fri Dec 29-30 / 67 Observer Hd Ma - Julian Day 173

[illegible]

Dome Temp. 14 F.

Focus 15.08

Dome Temp.

Transparency Conditions

210

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:44	4	24:41 W	38 10	2"	6.93	3.5 Ib	3-3-3 MK 50	20/18 fogged
1:46	1	20:18 W	+58 44	4"	6.90	F5 Ia	3-3-3 " " set 5 RA TV worked 20/24	fine
0:15			3"				" " " 1 clouds, 20/18	weak
							- Remaining thick.	st. contrast to red

Date Mon. June 1, 2/68

Observer. *Ri.*

Julian Day

[illegible]

Dome Temp. -20°F Focus 1503

Dome Temp.

Transparency Conditions

272

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19.45	2		4'	4.6	FOTA	3-3-3	M.H. STD. $\frac{1}{2}$ H set 5 20/20	weak
0.43	14 53 W	$58^{\circ}05'$					2. N set 9 clouds 20/75	strong
1.06	3			4.4	B9 Ia	3-3-3	$\frac{1}{2}$ + N set 2 (it's cold) 20/12	very weak
2.21						3-	1 + N set 5 clouds 20/24	weak
21.42	0443 W	$+59^{\circ}50'$					started to snow set 9 clouds 20/13	very weak

213

Date Wed-Thurs. 3-4 Jan'y 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	MA 328-116	19 55.0	+39 41	Izr	10320	.008	-5°C	18:17 ⁶³	19:20	1
30936	HO 219-81.5	23 13.6	+41 14	"	"	"	"	19:29 ³⁵	19:54	2
30937	HO 220105	23 16.0	+43 34	"	"	"	-5°C	19:57 ⁶²	20:57	"
	224906	23 56.6	+41 49	Low's Test			-5°C			

Dome Temp.

274

Ending Time
E.S.T.

Date Thurs-Fri 4-5 Jan Observer Dy-Rh Julian Day

[illegible]

Dome Temp. 5°F Focus 15.8

Dome Temp.

Transparency Conditions

246

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
925	1 ^h 15 ^m W	+57 40	4-6"	4.0	GOV	3-3	^{mk} Gusty winds at times - ^{set 2} 10/20 (N)	FINE
938	1 ^h 29 ^m W	+57 40	4"	4.0	GOV	3-3	^{mk} 1/2 Normal setting 5	SL. WEAK
2032	1 ^h 3 ^m W	+25 22	4"	5.0	F2M	3 -	^{mk} 2N of 10/40 - gusty, scattered stars Dec clamp stuck - (10/22 only) at 2032 Clouds - 2045	FINE
							Midnight - Very Windy w/ Blowing Snow Hrs.	

717

Date Mon-Tues JAN. 8-9/68 Observer HK-Hh/R.-H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
3093840	μ Cep	21 ^h 40. ^m 5	+58° 19'	I-25	103aO	.008	-18°C	18:12 ²⁸	18:40	1
113441	γ Cep	22 ^h 07. ^m 4	+57° 42'	"	"	"	"	18:45 ²⁵	19:10	
114242	HD 210809	22 ^h 07. ^m 9	+51° 56'	"	"	"	"	19:20 ⁹⁰	20:50	
3093843	HD 21291	03 ^h 21. ^m 0	+59° 36'	"	"	"	"	21:10 ¹⁰	21:20	3
1143	"	"	"	"	"	"	"	21:24	"	1
11	HD 21389	03 ^h 21. ^m 9	+58° 33'	"	"	"	"	"	"	1

Dome Temp. -15°F Focus 14.91

Dome Temp.

Transparency Conditions

No clouds, horrible seeing 218
Clouded in 21:30Ending Time
EST.Hour Angle
End

Declination

Seeing

Pig.
Mag.

Sp.

Comp.

REMARKS

MISCALCULATION, SORRY ABOUT
THAT Quality

8:40

3^h30^mW

58°38'

~15"

6.4

M2Ia 3

MK Std

Set 2 1/2 normal

20/7 1/2

VERY WK.

9:10

4^h W

58°02'

~9"

5.0

K1Ia 3-3-3

"

Set 5 1/2 normal

40/10

WEAK

10:50

5^h30^mW

52°14'

~12"

7.5

O7Ia 3

"

Set 9 1/4 normal

110/35

VERY WK.

11:20

5^h45^mW

57°36'

~18"

4.9

B7Ia 3-3-3

"

Set 2 1/2 X "

10/6

VERY WK.

~18"

"

"

" 5 1X "

10/

WEAK

4.76 A0Ia

"

"

" 9 1/2X "

10/

NOTHING

very poor seeing
start telescope drifted too far W
pier drifted into telescope
(note chip in pier)

0030 CLOUDS

GERRY

{ half people have
mangled guiding system!
Hm

Date Jan 10 / 11 1967 Observer F-L / Gø-Hr Julian Day

[illegible]

Dome Temp. -5°F

Focus

Dome Temp. -10°F

Transparency Conditions *Fair but airmy ~12"*

220

Ending Time
EST.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3:33²
Drive slow - * constantly drifting out of
diaphragm. Temperature $\sim -10^{\circ}\text{F}$.

Date Jan 11/12 Thurs. Fri Observer Dy - 14h ^{Gr} Julian Day 89

Geo

39 Julian Day

Hour An
End

Dome Temp. -5°

Focus

Dome Temp. -89°

Transparency Conditions

He left fresh plates open to spotting light —
(except the one used below) — check

222

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
25	1 ^m 54 W	+43 07	3"	4.2	B8I	3-	1/2 N (10/6) (mk) Set 2. Don't trust this comparison - repeated.	WEAK
36	2 02 W	+43 07	3"	4.2	B8I	3-3	1/2 N (10/6) Set 5	V. SL. WEAK
50	0 11 ^m	+58 16	3"	5.9	A1 Ia	3-3	1/2 N (10/6) Set 7 (mk STD)	WEAK
				4.4	B9 Ia		1 N (10/12) Set 2	partly fogged
420			8"				Still trouble with fire in cell.	
							Box of unexposed (fogged)? 103a	
							in fridge & labelled.	
							(21 PLATES)	
							THE PLATES ARE A	
							TOTAL LOSS	
							- 2m 22	

PLATE

223

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.I.
30946	HD 21291	03 21.0	+59 36	I 25	103aC	0.008	0.5°C	20 35 ⁸	20 43 ⁶	3
"	"							20 45 ²	20 51 ²	
"	"							20 52 ⁴	21 12 ⁴	
30947	HD 21389	3:21.9	58° 32'					21 18 ¹²	21 22 ¹²	1
								21 23 ¹²	21 35 ¹²	
30948	ε Gem	⁶ 03 37.8	+25 14	"	"	"		00 02 ⁵	00 07 ⁵	4
								00 08 ²	00 10 ²	
3095049	ω Gem	06 56.3	+24 21					00 16 ¹⁶	00:26 ¹⁶	3
								00 26 ¹⁸	00 44 ¹⁸	
								00 44 ³³	01 17 ³³	
30950	ρ Gem	07 20.7	+31 59					01 23 ¹⁴	01 37 ¹⁴	2
30951	β Cnc	08 11.1	+09 03					01 44 ⁹	01 53 ⁹	1
30952	δ Uma	09 26.2	+52 08					02 01 ⁵	02 06 ⁵	2
30953	α Leo	10 03.1	+12 27					02 15 ²	02 17 ²	3
30954	β Leo	10 11.1	+23 55					02 22 ⁴	02 26 ⁴	4

Dome Temp. 24°F

Focus 15.18

Dome Temp.

Transparency Conditions

fair to poor 2055 - nearly overcast 224

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	3/3/3 Comp.	REMARKS	Quality
00 53	00 53W	+59 48	22"	4.4	B9 Ia	3-3-3	Set 2 MK Std. 2x norm 20/48	STRONG
00 51	01 01W					—	5' Cloud 1x norm 20/24	FINE
01 12						9	" 1/2x 20/12	WEAK
01 22	01 31W			4.76	A0 Ia	3-6	Set 2 MK Std. Clouds 1/2 norm 20/12	WEAK
01 35						—	5' " 2x norm 20/48	STRONG
	Trouble with slow motion DEC unthol				DEC	unthol	— then overcast.	20/40
00 07		+25 12		3.08 (M)	G8 Ib	3-6	20/40 20/10	FINE
00 10	01 05W						20/10	WEAK
00 26				6.1	G5 Ia	3-3-3	set 2 1/2xW 20/20	WEAK
00 4		+24 16°					set 5 1xW 20/40	FINE
01 17	01 53W					2-3	set 9 2xW 20/80	STRONG
01 37	01 46W	+31 50°		4.5	F0 Ia	3-3-3	set 5 2xW 20/80	STRONG
01 53	01 54W	+09 02°		5.0	E4 II	3-3-3	set 5 1xW 20/40	WEAK
02 06	02 14W	+51 48		3.6	F6 Ia	3-3-3	set 5 1x5 20/40	Strong
02 17	02 11E	212 10		1.3	B7 Ia	3-3-3	set 3 2xN 20/48	STRONG
02 26	02 11E	23 35		3.7	F0 III	3-3-3	set 5 1/2xW 20/20	SL. WEAK

Dome Temp.

Transparency Conditions

226

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7:00	03:36 W	+36° 12'		8.95	M2II	3-3-3	set 5 20/120 Ex. mtr. went on with blink	L. WEAK

Date Sunday 21 January 1968 Observer HB

Julian Day

[illegible]

Dome Temp. 210F

Focus 15.16

Dome Temp.

Transparency Conditions

0245 - hazy + some cloud

0430 - clouds from NW

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

3 56

2

21 21E

+56° 32'

~4"

5.2

F2V

3-3-3

Set 2

MK Std. 2x normal in exp. meter

Very

STRONG

0437

3

00 52E

+56° 53'

~4"

7.3

G1V

3-6

Set 2

MK Std. 1/2 x normal [Field Draw]

too

WEAK

stopped by clouds.

OTB/ITA

20/16

Set 7

OK

Date sun Mar Jan 21, 22 Observer RIP Julian Day

[illegible]

Dome Temp.

Transparency Conditions

230

NO Exp. meter

[illegible]

Date Jun 23/24 1968 Observer L/BL ^{Go} Ri/H Julian Day 174.5

[illegible]

Dome Temp. 2°F

Transparency Conditions Good

232

Focus

Dome Temp. -8°F

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0650

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.F.
30960	HD 358	0 3.2	28 32	T-25	103a0	.008	-12.5	18:44 ²	18:46 ²	3
30961	905	0 8.3	40 29	"	"	"	"	19:00 ²⁶	19:26 ²⁶	"
30962	1185	11.1	43 03	"	"	"	"	19:36 ⁶⁰	20:36 ⁶⁰	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	12534 B	"	"	"	"	"	"	22:00 ¹	22:09 ¹	"
30966	E 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	"
30967	α Cam	4 44.1	66 10	"	"	"	"	22:32 ¹	22:33 ¹	2
"	"	"	"	"	"	"	"	22:34 ⁹	22:43 ⁹	"
30968	4 Aur	4 52.5	37 44	"	"	"	"	22:54 ¹²	23:07 ¹²	3
30969	EC Ma	6 54.7	-28 50	"	"	"	"	23:16 ³	23:19 ³	4
"	"	"	"	"	"	"	"	23:20 ¹	23:21 ¹	"
"	"	"	"	"	"	"	"	23:22 ¹	23:23 ¹	"

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
8:46	?			2.0	B9p	9	Set 2 F Brg M *	20/20 FINE
9:26	3:10 W	40 53	~6"	5.6	2A73	3-3	" 5 drifting in R.A. V. 8	20/24 BLANK
10:36	7:—	43 25	~7"	6.0	A0	33-3	" 9 F Brg L Star	20/24 FINE
11:46	4:41 W	47 13	~7"	6.3	A3	33-3	" 2 " " "	20/24 BLANK
11:58	—	42 10	4	3.0	7.5	3-3-3	5 (Faint v. l. byt agrees with BD)	10/12 "
12:09	4 04 W	"	3	5.0	A0p	3-3-3	" 9 drift	20/24 "
2:17	2:18 W	39 54	1	2.7	B0.5V	9	" 2 MK S	10/12 P.H. NOT PROPERLY IN CAMERA
2:20	2:21 W	"	1				" 5 (ONLY PART OF 1 EXP.)	10/24
2:23	2:24 W	"	1				" 9	10/48
2:33	1:38 W	66 17	1	4.3	09.5V	9	2	20/12 WEAK
							5	20/24 SL. WEAK
2:43	1:49 W						9 ← ? 7	20/48 FINE
3:07	2:05 W	37 51		5.0	A0V	9	5	20/24 V. SL. 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 SL. WK
3:23	0:22 W					9	9	10/6 WEAK

235

Date

Observer

F - F
F - 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.
30970 ⁶⁶	SC Mg	07 07.1 ^{4.3}	-26 14	I-25	Il a O Il a O	008	-12.5	23:48 ²	23:50	17
								23:51	23:52	
								23:53	23:54	
30971 ⁶⁷	HD 59612	07 25.6	-22 49						00 19 ^{21?}	4
"	"	"	"	"	"	"		00 19 ⁷	00 26	"
{ 30972 ⁶⁸	β Cnc	08 11.1	09 30					00 39 ^{21?}	?	1
{ 30973 ⁶⁹	Θ U Ma	09 26.2	52 08	"	"	"	"	01 10		1
	"	"	"	"	"	"			01:15	
30974 ⁷⁰	HD 74604	08 39.8	67 05	"	103 a o	"	"	01:44	01:54	3
{ 30975 ⁷¹	ζ Leo	10 11.1	23 55	"	"	"	"	02:07	02:08	4
{ 30976 ⁷²	HD 115043	13 09.5	57 14	"	"			02 33 ⁴⁰	03:13	4
	"	"	"	"	"			03 14 ¹²²	05:16	"
30977 ⁷³	α Leo	10 03.1	+12 27	"	"			05 30 ⁷¹		1
									05 32 ⁷¹	

Dome Temp.

Transparency Conditions

230

[illegible]

SCHMITT

Dome T
Focus
Dome S

Hour 1
Ex

Dome Temp.

* No exposure meter - over exp!

238

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 06	0 59 W	30 16	0	6.89	B3 III	3-3-3	MK Ltd	(FRAID AT ENDS OF PLATE) FINE - WK
2 25			6"-8"				Slow motion disc works only if telescope changed in dec. Circum. Bill Dodd II.	
							* Repaired Feb. 1 / 5 AM. 3 Tubes. H R.	

Date Feb 4/5 1968 Observer Ea Ri Ga/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.I.
563-1	NONE							1830	1915	
								(2:45)		
563-14017	M67							2245	0315	
								(C: 30)		

Date Mon Feb 5-6/68 Observer Hd Go Hr
Se Dd Julian Day

Dome 1
Focus
Dome'

Dome Temp. $+16^{\circ} 15$ Focus 15213

Dome Temp.

Transparency Conditions *Fair*292
photo backward
in spotter

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 42	W 53 ^m		2"		B ₂ IV 9		MK STD. 10/6	WEAK
8 45							10/12	PINE
1 26	E 37 ^m	+70 49	2"	6.37	B ₉	3-3-3	B ₈ -B ₉ 10/12	SL. WEAK
1 52	E 35 ^m	76 23	2"	6.29	B ₉	3-3-3	" 10/12	SL. WEAK
					B ₉			
2 20			4"				Curves. Dec. 10/18	
3 10	W 50 ^m	+4 57	2"	5.90	B ₈	3-3-3	B ₈ -B ₉ 10/18	(GUIDING) FINE
3 45	W 1 ^h 13 ^m	+7 44	3"	6.42	B ₉	3-3-3	" 10/18	FINE
0 45	0116 W.	+09 15	3	5.0	K ₄ III	9	MK STD 10/20	(NOT SPOTTED) FINE
0 45	0003 E	+28 11	2	8.36	K ₂ III	7	S. STD. 1/2. CLOUDS 20/18	BLANK
							P.H. #3 loaded II a O	↑ Therap loaded unlabeled K ₂ III?
							UNEXPOSED 10320 ± II a O in Spotting Rm.	EXTREMELY WEAK. IRM. ARE OK

Date Tues Feb 6-7 / 68

Observer L-36 Co

Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Fair*

244

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 27	1 48 W	30 16	2	689	B3III	3-3-3	M/K Standard (2X NORMAL !!) clouds!! clouded out at 1:30 Ex. M+R. Checked & O.K. Hr	10/24 V. SL. STRONG

Date Wed Feb 7/8/68 Observer Fl - 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.	Hour
{ 30982	HD 19926	3 07.1	6 17	I-25	103aD	008	-1.8C	18 46	19 14.	1	
{ 30983	HD 19460	3 02.7	18 25	"	"	"	-1.0C	19 19	21:15	1	
{ 30984	HD 29479	4 33.5	15 36	"	"	"	-1.9C	21 37	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 49.4	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	0447	1	0313

Would someone please check field and co-ordinates?
 Right star

Dome Temp. $20^{\circ} F$ Focus 15.15 Dome Temp. $+5^{\circ}$ Transparency Conditions *Fair - good*0130 Clouds (BROKEN)0430 O'CAST

246

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 14	?	$6^{\circ} 32'$	2"	5.6	cG2	4-5	Set 2 FBSC*	20/40 VERY WEAK
1 5	3 01W	$18^{\circ} 39'$	6	6.3	gMO	3-3-3	" 5	20/60 FINE
1 38	1 53W	$15^{\circ} 43'$	4	5.0	Am	4-5	" 9	(GUIDING) 20/24 FINE
4 52	2:07W		3	5.4	dA9		" 2 (not taken, field OK but star 5^m colour ~ K Field drawn	20/40
2 09	2:28W	$10^{\circ} 05'$	3	4.3	Am	9	Set 2 FBSC*	10/12 FINE
2 26	2:26W	10 05	5	4.7	AO _p	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
0 15	0412W	17 05	4	5.5	gK1	3-3-3	Set 2	20/40 FINE
0A47	0313W	+2843	5	8.36	K ₂ III	3-3-	" 5 Sec. STD. Vel. CLOUDS	100/112 FINE-SC. WEAK

Date *Fri Feb 9/10 1968* Observer *F-Hk/Ri BA* Julian Day

Dome
Focus
Dome

Dome Temp. -30 F

23rd improved (-3° F)

snowbirds at 00.30

248

[illegible]

Date Feb 15/16/1967 Time 10:00 Observer H. Goo, L. Julian Day 161.5

[illegible]

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 Photometric !! Low clouds over mountains.

257

60

Observer *R. N. H. B.* Julian Day.[illegible]

Dome Temp. 9°FTransparency Conditions Fair

251

Focus

Dome Temp. 50°F

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1225			2-4"				^{annulid 7.05} By LATE (1 ^h 30 ^m) Focus switch (guiding) broken (shorted out!). Telescope badly out of balance. With heavy weight on end of tube, telescope slips S. With light weight telescope slips N. Clouded in 2:30 Remained cloudy through 4:15	

Date Feb 20/21 1968 Observer GO BI Julian Day 171.5

[illegible]

Dome Temp. -10°F Transparency Conditions *Fair - Partly*

259

Focus

Dome Temp. -11°F Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

220

8/11

*Clouds.*02:00 clear, but -15°F

- trace, Ri

04:30 solid overcast

Date FEB 21/22 Observer EaF Julian Day 174

[illegible]

Dome Temp. -4.5 F

Transparency Conditions *Poor - circus passing*

256

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 11 2	?	55 45	6	5.4	K3II	3-3-3	Set 5 MK Sld.	20/20 <u>very</u> <u>WEAK</u>
19 23 4	2 ^h 10 ⁿ W	3 59	6	4.2	M2III	9	Set 5 "	20/30 <u>very</u> <u>WEAK</u>
19 44 1	2 04W	59 47	5	4.4	B9Ja	9	" "	20/48 <u>BLANK</u>
21 14 0	0 44W	23 18	4	7.0	B9II	3	Set 5 MK Sld. <u>slip</u> jump in S 1	20/24 <u>WEAK</u> 16
DEC DRIFTING <u>TOO</u> FAST WHEN <u>CLAMPED</u> Put extra weight on secondary still drift N. could not complete exp. + cloudy up. CLOSED UP 21³⁵ also R.A. drive v. squeaky CNK #3 PHK — Ia O? } loaded. ## 1-2-4 PH^L —→ LO3a O?								
IMPOSSIBLE TO OBSERVE DEC. CLAMP DRIFTING TOO MUCH FIXED								

Date Feb 23/24 1968 Observer Go-Ft., Ri-Ch Julian Day

[illegible]

Dome Temp. 0°F

258

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6/10			4"				F "has a slight fever"; <i>Theriodont</i> sign in disc.	

Date... Feb. 24/1968
251

Observer Go / HK / Gs Bd Julian Day.[illegible]

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
Ri Go/Dy-84 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Ang End
570-1630	m67							1900	050		
{ 31000	{ 105702	12 ^h 5 ^m 0	+06° 22 ^m	25	103.0	.00P	-8°C	0332	0348	4	01.1
{ 31000	{ "	12 ^h 5 ^m 0	+06° 22 ^m	"	"	"	"	0352	0409	4	01.4
{ 31007/1	105 981	12 ^h 6 ^m 8	+26° 26 ^m	"	"	"	"	0416	0438	1	01.7
{ 31007/2	106 057	12 ^h 7 ^m 1	+21° 06	"	"	"	"	0445	0503	1	02.55
{ 31007/3	106 002	12 ^h 6 ^m 8	+57° 37'	"	"	"	"	0511	0524	1	03.21
{ 31007/4	{ 109 Vir	14 ^h 41.2	+02° 19 ^m	"	"	"	"	0534	0536	4	04.5
{ 31007/4	{ 109 Vir	14 41.2	+02 19	"	"	"	"	0542	0544	4	04.55
{ 31007/5	w Sco	16 01.0	-20° 24'	"	"	"	"	0559	0603	2	05.01

Dome Temp.

Transparency Conditions

Scattered Cirrus -
otherwise fair.

262

[illegible]

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.	P.I.
31006	36 Per	03 23.5	+45 43	I 25'	103a0	.008	-2°C	18 56 ⁽²⁾	19 00	1
"	"							19 02 ⁽⁸⁾	19 10	
31007	2 Per	03 38.4	+42 16		103a0(?)			19 14 ⁽³⁾	19 16	3
"	"							19 17 ⁽³⁾	19 20	
31009	16 Tau	03 38.9	+23 58		103a0			19 55 ⁽¹⁴⁾	20 09	3
31008	19 Tau	03 39.8	+24 09		103a0			19 45 ⁽²⁾	19 52	1
31010	17 Tau	03 38.9	+23 48		103a0			20 15 ⁽⁶⁾	20 24	4
31011	27 Tau	03 43.2	+23 45		"			20 31 ⁽⁶⁾	20 36	1
31012	χ2 Ori	05 58.0	+20 08		"			20 46 ⁽²⁶⁾	20 52	3
"	"	"	"	I 25'	"			20 52 ⁽⁴⁷⁾	21 18	"
31013	3 Men	06 03.7	+23 08	"	"	"		21 22	22 09	4

Dome Temp. 20.8°F

Focus 15.15

Dome Temp.

Transparency Conditions

fair - poor Good after 1900
264

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	3-3-3 Comp.	REMARKS	Quality
9:50	01 49W	1	~2"	5.7	F4 IV	4-5'	ret 2 MK Std. 1/2 normal 10/4	VERY WEAK
9:50						6	1 " 10/8	SL. WEAK
9:56	01 53W		1-2	4.2	F5 II	9	ret 2 1/2 normal 10/4	WEAK
9:56						6	1 " 10/7 1/2	SL. WEAK
10:09	01 24 W	+24 11	2"	5.4	B7 IV	9	set 2 1x normal (Pleiades) 10/5	SL. WEAK
10:52	02 27W			4.2	B6 V	4	ret 5 1x normal " 10/5	FINE-WEAK
10:54	03 00W	+24 01		3.6	B6 III	9	ret 5 2x normal " 10/9	FINE
10:56	03 11	+23 58		3.5	B8 III	3 3-3	ret 2 1x normal 10/12	FINE
10:52	01 09W	20 08	~2"	4.9	B2 Ia	3-3-3	ret 2 1/2 N 10/6	WEAK
11:18	01 35W	"	"	"	"	3-3	5' "seeing" 1x N high cloud 10/12	L. STRONG
12:09	02 20W	+23 07	~2"	6.0	B2.5 I	3-3-3	ret 2 1/2 XN 2200 fume NE 10/17	FINE

Ph # 1, 3, 4 loaded - 103a0

Ph # 2 loaded - 100 (check before using)

Date March 2/3 1968 Observer Go/Ft/GS Julian Day

[illegible]

Dome Temp.

266

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
135							SNOW BLOWING IN SLIT, "SHUTTERS CLOSED,	
130							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 stormy off. L.	

Date MAR 3/4 ^{SUNDAY} _{MONDAY}

Date... MAR

Observer

R. E. / AK-H

Julian Day

2 P+I loaded 103aO IN N. PIER - UNEX. 103aO IN Spotting Room.

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

Dome Temp.

Transparency Conditions $? \text{ CLOUD IN WEST}$

"Heater left on"

 0100 Thin cirrus.
 0215 CLOUDY

268

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
942	0:21E	$+01^{\circ}51'$	3"	6.3	K ² II	3-3-3	SET 2 MK Std. 1xN 20/40	SL. WEAK
942				"	"		SET 5 2xN 20/80	SL. STRONG (GUIDING)
948			3"	1.9	B0.5 Ia	9	SET 2 2xN 20/12	WEAK
951				"	5		1xN 20/24	SL. WEAK
953	0:38W	$-09^{\circ}38'$		"	8		2xW 20/48	SL. STRONG (GUIDING)
993	0	$+7^{\circ}24'$		2.7	M2 Ia	3-3-3	SET 2 1xN 20/60	SL. STRONG
005	0 41W			"	5		2xN 20/30	SL. WEAK (GUIDING)
015	0 44W	$20^{\circ}09.0'$	2-3	4.9	B2 Ia	3-3-3	SET 5 lazy 1xN 20/24	FINE
025	0 48W	$23^{\circ}06'$	2-3	6.0	B2.5 Ia	3-3-3	" 5 1xN 20/12	(POOR GUIDING) WEAK
033	4 15W	$22^{\circ}55'$	2-3	6.1 (m)	M1 Ia	3-3-3	SET 2 2xW 20/120	FINE
00	0127E	$-01^{\circ}16'$	3	3.7m	FOI	9	1x 2 2X 1/4	SL. STRONG
015	0114E	$54^{\circ}51'$	3	6.4	M2 III	3-3-3	" 2 1/2X 10/15	WEAK
021	0011W	$28^{\circ}05'$	"	4.7	G0 V	9	" 2 1/2X 10/10	WEAK
031	0033W				9		" 9 1X 10/20	FINE
0343	0016E			3.2	A7 III	9	" 2 1/2X 10/6	WEAK

CLOUD 5 !!!

Julian 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 ⁽⁴⁸⁾	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
572-1 to 28	M67							2300 ⁽⁶³⁵⁾	0535	

Dome Temp.

20:20 Dr Raeder + 30 students shown
telescope

[illegible]

Miss Northcott visitors 60 £0 1800-1930

Date Mar 7/8

Observer 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.	P.
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	1
31031F	focus test		GTB/ITA				-3.8°C			

Dome Temp. 18°

Focus

Dome Temp. 18°F Transparency Conditions $\text{good} \rightarrow \text{fair} - \text{poor}$

272

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
109	0209 W	$+18^{\circ} 34'$	$\sim 3''$	4.73	M216	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
544	0402 W	$+55^{\circ} 17'$		9.1	K22	3-3-3	100/291 Set 2 ^{mk} (At 9:00 pm, 3 PLATES LEFT) ^{SL. STRONG (fine)}	
							chosen because of plate shortage	
							20/16 focus 15.13 at 5	OK
							P.H. #4 10300 in N.P.	

Date Mar 8/9

Observer.....By

Julian Day

[illegible]

Dome Temp.

274

~~TELESCOPE~~ A ROPED Dome

Dome Temp. +21

Focus 15.16

Dome Temp.

Transparency Conditions

Hazy - some clouds.

276

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
19 18	W 2 36	24 23	2"	4.2	B6V	3-6	MK Star set 5	10/6	SL. WEAK
19 20	W 3 09	24 23	2"			3-3-3	" " 9	10/12	FINE
19 40	W 2 59	24 12	2"	5.4	B7V	3-3-3	" " 9	10/2	FINE
20 00			3"	5.76	B1V	3-3-3	" " 5	10/6	WEAK
20 50	W 4 10	34 16	4"				" " 9	10/24	STRONG
21 18	W 2 55	33 56		5.3	A5V	3-3-3	" Pent from 15.20	10/6	WEAK
21 22				1.9	A0IV	-	" "	10/6	FINE
21 35	W 1 51	16 28	2"			9	" "	10/24	STRONG
21 57	W 1 57	25 10	2"	3.1	G8Ib	9	" " set 5	10/20	FINE
21 57		+3 59	2"	5.74	B0V	6-3	" "	10/6	WEAK
22 31	W 2 51						" "	10/72	FINE
23 35	W 1 48	33 25		6.12	d77	3-3-3	Fitzgerald prog	10/20	FINE
				5.69	A3		" "	Thickening - cloud	OK

Date Wed Mar. 15Observer F. Ny

Julian Day

[illegible]

Dome Temp. 10°Focus 15.09

Dome Temp.

Transparency Conditions

278

Ending Time
EST.Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

?

+48° 19'

6"

5/ 5056

3/

Set 2

BLACK*

* unexposed plates are O.K.

** Exp meter not working!
clouded in.

X Battery charger fuse blown

No STUDENTS 1ST HALF (GS)
240 HALF (BH)

Date Sun Mon Mar 7/8/68 Observer Pi - Hr Julian Day 171.5

[illegible]

Dome Temp.

Transparency Conditions

very low laying fog
fog clearing in at 25:00

280

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1.27	2412W	+40°26'	3	6.28	B8	3-3-3	Tran 10320 box at far end Sp. Bi. set 2	20/24 WEAK
1.05	2406E	-10°25'		6.2	B9	3-3-3	set 5	20/24 WEAK
1.07	2421E	-135°25'		4.7	A20	3-3-3	MH-SID set 5 1/2 N	20/12 FOGGY
2.41	2421E	-00°28'	4	4.9	B6D	3-3-3	" " set 5 1xN	20/54 SL. WEAK
0.01	1412W	+17°54'	2-3	6.5	df2	3-3-3	Filtz. prog. set 2	20/40 WEAK
							FOGGY AFTER Midnight No STARS - MOON OCCASION REPAIRS TO Spectrophot. till 3.30 AM.	

Date Mon-Tues Mar 18-19/68 Observer HD-HK/sc-mse Julian Day 171.5

[illegible]

Dome Temp.

3:00 DETERIORATING

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9:10		-17°00'	2"	4.3	B3 II	—	MB + Dy taking spectra of photometer	SL. WEAK
9:15	00 ^h 11 ^m E	-17°00'		"	"	9	MX std set 2 1XN 10/12	WEAK
10:10				4.73	M2 Ib	3, 3, 3	" " set 2 1XN 10/40	FINE
10:15	W 3 ^h 27 ^m	18 25	2"				" " set 5 2XN 10/60	SL. STR.
10:25				4.95	M2 Ib	9	" " " 2 1XN 10/40	FINE
10:32	W 3 ^h 39 ^m	49°18'					" " " 5 2XN 10/60	SL. STRONG (SL. GUIDING)
10:31	?	28 15	3"	6.39	G5 Ib	9	Found star at 6 39.3 1968 JCO. " check" this field → OK 1XN 10/20	V. SL. WEAK
10:50	W 4 ^h 24	47 50		6.34	B9	3, 3	B8-B9 primary set 5- 10/12	FINE
11:05	W 11:39	37° 32'	~3"	8.26	G8 Ib	3-3-3	See std vel. (FIELD DRAWN) (SET 2) (RESET S.C. (+2 min)) 20/40	SL. WEAK
11:31	W 11:34	24° 13'	2" → 6"	8.74	F8 V	3-3-3	" " " SET 3 20/40	FINE
11:31	N 2:08	45° 26'	~5"	7.64	F3	3-3-	Hd. KAFS SET 5 (FIELD CHECKED) 20/34	V. SL. WEAK

Dawn

Date March 24/25 1968 Observer Ri Ny 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.H.
573-1 to 10								19.30	22.00	
31056	HD 90254	10 ^h 20 ^m 0	+09° 18'	525	103a0	008	+2.5°	22.34	00.43	1
31057	HD 115043	13 09.5	57 14	"	"	"		01.25	01.57	2
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	" 145001	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

22.30 very hazy

284

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.01							Clouds. Added weight to dec counter	
2.42	2 ^h 18 ^m W	08 57	5"	5.3	gM3	3/3-3	weight ^{because} telescope oscillating in RA set 2 (FBSC) 20/60	SL. WEAK
3.57	2 ^h 37 ^m W	56 53	3"	7.3	G1V	3-3-3	set 2 MR STD 1/2 N. 20/20	(POOR GUIDING) OK
4.32	00 50 E	-24 18	5"	7.0	B8	3-3-3	" 2 B8-B9 40/40	SL. WEAK
4.48	00 30 E	-20 30'	"	7.0	B8	3-3	" 2 " " 40/48	FINE
4.56	0 ^h 44 ^m W	+17° 7'		6.1	G4	3-3-3	" 2 STD Vel. Southern et Pair. 10/20	FINE
							PH #2 Loaded 10300 in N. Pier	

Date March 27/28 W/T 1968 Observer Bg ^F - Julian Day

[illegible]

Dome Temp.

Transparency Conditions *very poor - cirrus 286'*

Findng Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:07	4:15W	37 51	4"	5.0	A0V	3-3-3	Sot-2 MK Sld	20/24 SL. WEAK
1:29	00:05E	10 01	5	3.5	A1F6	4-4	set-2 FB SC*	20/40 FINE
1:22	0 46W	14 11	5	5.41	gM2	3-6	set-5 FBSC* jumps ind!	46/120 r/d VERY WEAK

clouded out @ 22:40 @ >32 counts

4 P14 loaded 103a ○

PH 3 not broken

* 1 Spring gone in PH#(?)

TEL Ground not on platform

Integrator stopped - could be caused by cloud but
1.5 mins gone in PM#(?) probably not.

Date 28/29. Thurs/Fri. March 1968 Observer HB / ^{HS}HK Julian Day 171

[illegible]

Dome Temp.

Transparency Conditions Hazy, thick CI in south ²⁸⁸
2145: light on spot ~~not~~ working, FIXED Ar
2300 - increasing clouds, seeing deteriorating

[illegible]

FRY-549
Date Mar 29/30

1968... Observer Ri Go

Julian Day

[illegible]

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

225

230

230

clouds.

Date Sat/Sun. - March 30/31

Observer GO/HK/GS

Julian Day

[illegible]

292

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0202							Some clouds.	
0210							Scattered clouds — ~ 0230 Pog — 0400	

Date April 1/2 1968 ^{HN} Observer ^{Mse Dd} Go Dy Ak Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Fair*

244

Focus

Dome Temp. *24°F*

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

4"

except 10:15 to 10:45

Date June April 2-3/68 Observer L-FH/Hc R. Julian Day

[illegible]

Dome Temp. 340

Transparency Conditions *Some Kage*

296

Ending Time
E.S.T.

[illegible]

Dy - Cit

Date April 5/6 - Fri/Sat 1968

Observer Go-Ri-Hk.

..Julian Day

[illegible]

Dome Temp.

Transparency Conditions *fair*

298

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0125 0438			6"				① RA Fuse blown — <u>NO SPARE FUSES!</u> pulled N25, into RA (N26). AURORA IN NORTH AFTER 0300	
							② DEC LIGHT SWITCH DOESN'T HOLD.	

Visitors 8:00-10:00

Bn, Ny, Bb
Bb = Bobbe Barnes

85 - 1st
73 - 2nd

Date April 6-7, Sat-Sun 1968 Observer Gs, PI / L Bd Julian Day

[illegible]

Dome Temp. 22.5F

Focus 15.20

Dome Temp.

Transparency Conditions

fair - some cirrus

300

Ending Time
EST.

10 29

12 54

4 32

2

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

3-3-3

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

2M35

3-3-3

5'

"

"

20/36

FINE

1 04 W

20 24

O

6.0

09II

3-3-3

" 2 1/2

MK Standard

20/24

FINE

20/16

" 7 1/2

OK IN UT.

2 PHs loaded in pair

$$C_6H_6$$

Dome T
Focus ...
Dome T

Hour A
End

Dome Temp.

Transparency Conditions

302

[illegible]

303

Date April 10/11 1968 Wed/Th Observer F - F Julian Day 173
Bg Th 21

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
31073	HD 90559	10 22.4	10 16	I-25	103a0	.008	5.9°C	20:41 ⁽⁴⁾	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 ⁽⁷³⁾	23:23	"
31076	HD 95810	10 55.2	39 45	"	"	"	"	23:52⁽²⁷⁾	0:19	4
31077	HD 95208	10 57.0	20 43	"	"	"	5.9°C	0:25⁽¹³⁾	0:38	"
31078	109 VIR	14:41.2	+2° 19'	I-25	103a0	.008		0:44 ⁽⁹⁾	0:53	1
31079	HD 115043	13:09.5	57° 14'	I-25	103a0	.008		1:02 ⁽¹⁹⁾	2:21	2
31080	M11/2 328-116	19:55.0	39° 41'	I-25	103a0	.008		2:43 ⁽¹²⁴⁾	4:47	3

Dome Temp. 32°F

Focus 15.245

Dome Temp. 25°F

Transparency Conditions *hazy + (passing cloud)**bright moon**9:15 → intermittent clouds from N.W.E.*

304

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:27	0 ^h	9° 55'	3"	6.03	A _p	3-3-3	Set 2 FBSCX	20/24 STRONG
2:05	0 ^h 43 ^m 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 [Looks red like Chank1]	20/40 SL. STRONG
4:19	W 2:20	39° 24'	3"	5.07	F0m	3-3-0	Set 25	20/24 (SPOTTED OR)
4:38	W 2:38	22° 22'	3"	4.60	A_m	3-3-3	" 9	20/24 BLANK
5:53	E 0:51	+2° 02'	3"	3.7	A0V	9	Set 5 mk (1XN)	20/24 STRONG
6:21	2:09 W	56° 53'	4"	7.3	G1V	3-3-3	Set 2 CHECK FIELD (1/2XN)	20/20 FINE
4:47	2:07 E	39° 42'	2"	~10.8	Em	3-3-3	Set ~5	800/30 EMISSION ONLY

DAWN

2 PH loaded in pier

GERRY:NOTE:- P.H. #1 HAS BROKEN SPRING
(SEE NOTE MAR 27/28) repaired

Date Thurs. Apr. 11-12/68 Observer ^{HH}Sc - ^{HR}R1 Julian Day 171.5

[illegible]

Dome Temp. 32°F

open the to 012.
+ work on temperature
of S & V

Transparency Conditions

FAIR

306

WRONG SETTING

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 04	W 3 00	23 09	2"	6.0	B ₂₁₅ I _b	3-3-3	MK Std. 10/6 7/ clock is right star ^{is wrong (c.v. 6 08.6)}	FINE
1 36	W 4 18	49 20	2"	S.O	M ₀ I _a	3-3-3	" 10/30 MF of pair.	FINE
1 40	O H 16 W	28 46	2"	8.36	K ₂ II	3-3-3	Sec. Std Vel. 40/72	SL. STRONG
4:17	1° 08 E	25° 30'	3"-6"	8.66	G 8 II	3-3-3	" 100/200 set 5	SL. STRONG
505	0 39 E	31° 35'	5"	6.5	B 9	3-6	B8-B9 SET 5 20/25 19 set 9 focus 15.225 <u>DAWN</u>	SL. STRONG INSIDE EXTREMELY WEAK (FOCUS OK)

5307

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

[illegible]

308

Ending Time
EST.