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7

No.

May 29/76-

SPECIAL TEST INDEX

TV Prism guiding (Counts/Time Test)
Flexure Test

June 7/8 1975

Sept 15/25 1975

2

G65-127-E of 2 Boo

Nov 19/20 1975

Anomalous Fe Arc Tests

Dec 2/3 1975

HIE Film G24 - K_KG64-098 Exp

Dec 5/6 1975

IIa0 strips spot Cal'n Tests

Jan 17/18 1976

IIIaJ strips spot Cal'n Tests

Jan 19/20 1976

G43 IIa0 exp example

Jun 4-5 1976; July 11-12, Aug 15/16

G16 IIaF exp of B8 IV star

Jun 11-12 1976, July 8-9, Sep 4-5

G16 127-05E Algol

around Mar 1-2

G16 098-01E G5E

Sep 23-24

G24 098-01E Tilt 0.68 of 12 Grating

Feb 20-21, Mar 23 1977

Strip Cal'n

098 Nov 16-17, prob $\approx$ 1 min OK APR 10-11 90sec

G8 IIa0

Oct 15/16

G8 IIIaJ

Oct 3/4

3

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

[illegible]

Mo. O.C. 28115-1715

Date... 29/50

12/27

197, 5

Observer.....Elmer Turner

Julian Day

[illegible]

Dome Temp.

Plates in Exp Box labeled "UoF"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00W	+35°10'	2	9.74	09.7166	5-3-2	Sp Bin - Rln	800/90	Heard cloud 30 overda	very wk
								Don't think I would get this. Miracles do happen	
								TV actually helps to maximize count rate	
								as possible	
								Dew 13 min D19 @ 68°F. Not bad. 70 min at	
								Tour students should try to remember to plug in	
								Col'n equipment if they unplug it for tour purposes.	

Pa-Oe 28115-29056

Date 1-2 June Tues-Wed 1976 Observer McW-Tn Julian Day 171

[illegible]

Transparency Conditions *Very good - sl fog haze* 8

[illegible]

Ш.а.У-е 03075-26056

II-0-e 28115-24056

Date 2-3 June Wed-Thurs/76 Observer But-Tn Julian Day

[illegible]

Dome Temp.

Transparency Conditions *Photometric $\rightarrow$ same haze* ¹⁰ *Letter*

[illegible]

Dome Temp.

Transparency Conditions *very good*

12

me	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2	A	00 50E	-15 53	1"-3'	2.89	Am	no filter 7-7-7	Spec. Bin	40/160	RHS box #3	gmg 5/14K
		Dew	4 1/2 m	DA	Q68°F	N	burst .7 den	10 int.		RHS	
	B	00 12W	+35 11	1"-3'	9.74	09.76	15-6-6	Sp Bin - 8 1/2	800/270	some cloud at begin * Check	Flare?? Fine
		Dew	2 1/2 m	DA	Q68°F	N	2 burst .7 den	10 sec	intense	* with Tom as to pos pushing he wanted <u>~ 500 counts</u>	

Π.Ο.-Ε 28115-03066

Date June 4-5 Fri-Sat / 76 Observer ^{B/B}Baldwin-Ts Julian Day 171.5

[illegible]

Dome Temp. 62°F H = 65%

14

	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
3	A	2 15 W	-5 58	1.3"	7.9	B8	6-6-6	-Tr	400/155	thin cloud	Fine.
3	B	1 16 E	+41 41	1"	9.2	A0	2-3-2	" " "	800/97	some cloud	Fine
3'	C	0 04 W	+46 16	1"	7.3	A2+K0	3-3-2		800/120	cloud by dawn	Fine
	A	in in/out/out					2/2	no filter			v s! b/w
	B	in in/out/out					5/5	no filter			v s! blue
										* One extra plate blank just to make sure no m'x up.	

Dome Temp. 70°F H = 5070

Focus O-R

Dome Temp. 65°F H= 65%

Transparency Conditions Hazy - some cloud 16

[illegible]

17

II-o-e 28115-03066
 III-o-J-e 03075-03066

Date June 7-8 Mon-Tues / 76 Observer Tn / But Tn Julian 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.
40608	HP 106112	12 07.5	+78 10	G12	II-o-e	9/5		20 47	21:16	A
40608T	Coln step wedge for 40608-12				"	90sec				
40609	HD 128092	14 29.9	+43 27	G12	"	9/5		21:22	23:19	B
40610	HD 156547	17 13.1	+26 00	"	"	13/5		23:23	01:29	C
40611	HD 176003	18 53.0	+44 05	"	"	"		01 31	03:07	A
40612	^{o AND} HD 217675	22 57.3	+41 47	"	III-o-J-e	9/9		03 13	03:49	B
40612T	Coln for 40612			180sec	"					
	Test done	Prism	in (TV guided)					1 55	6 55	
	at 22 hr	Prism	out (eyepiece guided)					8 22	13 22	
	on HD 128092	Prism	in (TV guided)					14 45	14 45	
	on HD 156547	Prism in						58 23	03 23	
		Prism out						04 44	05 11	

Dome Temp. 80°F H=60%

Focus 10-B

Dome Temp. 70°F H=70%Transparency Conditions $H=20\%$ but good

Warren * Extra 1/2 photo off road in box?
 * Should be extra III at calh in LHS of
 Box - you will see it when done. yes -

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
16	A	1 53 W	+77 45	2"	5.1	Am	7-8-7	Am-Std	400/160	TV guided	Fedluk sl wk?
19	B	1 35 W	+43 07	1 1/2"	6.88	A2	7-9-8	Am-MR	400/180	TV "	slut Fe Fine
29	C	1 02 W	+25 57	2 1/3"	7.04	A1	7-8-7	"	400/180	TV "	Fine
07	A	1 01 W	+44 14	2"	7.00	A1	7-8-7	"	400/180	visual guided	Fine
19	B	02 21 E	+42 14	2"	3.63	B6p	6-6-6	Shell *	40/110	visual guided	RHS sl wk signy
5		70 → 82.3	Total	10.3	count	5 min				difference between in a out mag, reflect	
22		85 → 94.5		9.5	"	"					
45		97 → 107		10.0	count	5 min				different guiding criteria.	
23		Exp average		9.2	5 min	with TV guiding					
		128 - 138		10.0	slits	15 min				[Prism in 15 57 8.2/5 min]	
		140 - 151		10.8	count	15 min					

ΠαΟε 28115-03066

Date Jun 8-9 Tues-Wed/76 Observer M. W. T. n Julian Day 172

[illegible]

Dome Temp.

Transparency Conditions *Hazy - some cloud*

20

[illegible]

IIAE 28115-03066

Date June 9/10 Wed-Thur Observer Burt - P. Julian Day 171.5

[illegible]

Dome Temp. 78°F $H = 90\%$

22

[illegible]

II a O-E 28115-08066

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

004/156

004 52

A. 6

A11

Dome Temp.

Transparency Conditions

VERY VERY HAZY

29

Focus 10.8

Dome Temp. 78°F 75%

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
					2.89	Am	no filter 7-	Sp.		tristagn	
8	M	00415W	+32°25	2"	6.18	A3V	7-7-8	Sp. Bin-Bln	400/160		weak
5	B	00° 53W	+14°29	2-3	6.07	Am	7-8-7	Ed. Bi. Bln	400/123	clouds middle of Box overdevelop	very weak
DF		N ₂ burst	@ 69°F	.7	dm		10 sec interval				
DF		N ₂ burst	@ 67°F	.7	dm		10 sec interval			middle of Box	

HaF-E-03075-07066
HaO-E-28115-08066

ITC O-E - 28115 - 08066

Date Fri Sat June 11-12, 1976 Observer McW-Ri Julian Day 2444113.5

[illegible]

Dome Temp. 58 86%

26

[illegible]

PRO-28115-08066

ТТЛ 03075 - 03066

Date 59 June 12-13 1976

Observer... BH-R

Julian Day

[illegible]

Dome Temp. 58°F H. = 93%

Transparency Conditions *Good - some cirrus all night*

exposed to 4/

[illegible]

Dome Temp. 30°F 88%

30

[illegible]

Doc 28115-08066

Dome Temp.

Focus 10

Dome Temp.

Hour Angle
End

Hour Angle
End

Dome Temp. 72° F. H-92%

Focus 10-B

Dome Temp. ... 62° H-9378

Transparency Conditions

Transparency Conditions *Slightly Clear, but hazy by 01:50*

[illegible]

IIIo-J.e 03075-03066

Do. O. e 08115-08065

Date Thurs-Fri JUNE 17/18 Observer MOR/TN Julian Day

Dome Temp.

Focus 10

Dome Temp.

[illegible]

Dome Temp. 70° $H=75\%$ Focus $10-R$ Dome Temp. 62° $H=97\%$ Transparency Conditions Good but st Hazy

34

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
22	A	01 02 W	-15 53	2-3"	2.89	Am	^{no filter} 7-7-7	Sp. Bin-Bln	40/200	hazy in SW R H S	Fine
										R H S	
53	B	0 42 E	+35 46	1-2"	7.60	^{WN 4.5"} 09.5 I _d	7-8-7	Sp Bin-Bln	400/355	thin cloud at times	sl str
										bad - prob useless - wrong side?	
03	A	2 12 W	+71 21	1-2"	4.18	Ap si	^{no filter} 6-6-6	Sp Bin-Bln	40/65	R H S	Fine
53	B	1 36 E	+42 12	"	3.63	B6p	6-5-7	Shell-Bln	40/98	R H S	Fine

Παο-ε 28115-17066

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.

Transparency Conditions Crappy, lots of high cirrus

36

[illegible]

IIIa-J-e 03075 - 03066

ΠαΟε 28115 -17066

Date Sun - Mon. Case 27/198 Observer Rm - Tr Julian Day

[illegible]

Dome Temp.

Transparency Conditions Hazy high cirrus 38
but OK

[illegible]

Sun - Mon

Παο-Ε 28115 - 17066
Παφ.Ε 03075 - 07066

Date July 4/5 1972

Observer Fgi - Ri

Julian Day

[illegible]

Dome Temp. 76°F 88%

Transparency Conditions *clear - clouds*

40

Focus 103

Dome Temp. 75°F 84%

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
39		2 ^h 50 ^m E	+35° 45'	2	6.8	WN4.5 +0.9 In	7-8-7	Fgi	400/200		Fine
0	8	03 ^h 20 ^m W	+12° 52'	3	6.8	AD	10-15-10	Blu Sp B12	400/150		Fine
6	8	01 ^h 15 ^m W	+71° 20'	2-3	4.2	A. Si	7-15	Lnc	40/17		Fine
38	0	02 ^h 10 ^m W	+35° 45'	2	6.8	WN4.5 +0.9 In	5-6-5	Fgi	400/462	R.H.S. check coming up for the N.E.	wk
		July 4	D19 @ 67°F	4 1/2 min		N ₂ burst		7 sec at 10 sec interval			
		July 4	D19 @ 67°F	8 min		N ₂ burst		9 sec at 10 sec interval			

IIA 0-E 28115-17066

Date July 5/6 Mon-1 76 Observer Butt R. Julian Day

[illegible]

Transparency Conditions

clear with scattered clouds

92

[illegible]

ITAO-E 28115-17066

Date Thurs. Wed. July 67 1976 Observer McW - Ri Julian Day 174

[illegible]

Dome Temp. 75° F.

44

[illegible]

II 9-0-e 28115 - 07076

Julian Day

[illegible]

28066
07076

Dome Temp. 74°F $H=8470$

Focus $5-8$

Dome Temp. 67°F $H=9470$

Transparency Conditions

*Excellent except for 46
Fire smoke from R.H.*

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
6	1	2 ^h 15 E	+71° 23	2-3"	4.18	Ap5	^{no filter} 6-6-6	Sp. Bin-Bln	40/80	RHS	Fine
										RHS	
20	B	1 13 W	+35 11	2-4"	9.74	9A.7Iab	6-7-4	Sp Bin. Bln	800/460		s/wk
										RHS	
2	C	1 15 E	+42 15	2-3	3.63	B6p	^{no filter} 6-6-6	Shell-Bln	40/170	RHS	us/wk
2	A	0 25 E		2-4"	"	"	^{no filter} 5-5-	Shell-Bln	40/275	Center Tilt .7B	Fine
		July 10th. 45 min @ 68°F in D19 No Band dur. 7sec & int 10sec								Center	
		in in / out out					5/5	no filter			center/red

По-О-р 28115-07076

Doc-Id 03075-28066

Date July 9/10 Fri / Sat Observer CM - Tr Julian Day

[illegible]

Dome Temp. 80°F H=672Focus $5\text{-}2$ Dome Temp. 75° 803Transparency Conditions $\text{Hazy} \rightarrow \text{Cloudy}$

48

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2		2h 21 ^m E	+71° 19'	1-2"	4.18	Apo	6-6-7	Spin. En	40/83	RHS box #2	Fine slugg
		July 10	4.5 min @ 68°F in D19	No Burst	7 sec dur	c 10 sec in	From 40650			RHS "	
1	B	1h 06 ^m E	+37° 12'	1-2"	4.5	Ap	7-14		200/90	3 ment to do 4015 7910	Fine gng
1	C	0h 47 ^m E	+37° 11'	1-2"	5.5	B9V	7-7-7		200/?		Fine slugg
		July 10	@ 68°F in D19	No Burst	7 sec	10 sec dur	intend 8 psi			10 min dev From 40648	
3	A	0h 27 ^m W	+19° 15'	2-3"	4.0	A9 III	7-7-7	wide Vis bin Baker	40/20	Clouding in	Fine slugg
5	B	0h 45 ^m E	+27° 45'	2"	4.2	G5 IV	7-7-7	close Vis bin Baker	40/25	* Labeled 56, 57	Fine
0	C	0h 28 ^m W	+36 00	2-3"	5.71	AS	7-7-7	close Vis bin Baker	200/96	* Cloudy / clearing	Fine
	A	1h 35 ^m E	+33 41	"	5.5	F5 I	7-7-7	wide Vis bin Baker	200/114	Cloud again	Fine
47	B	0h 12 ^m E	+36 53	"	5.9	M4 II	7-7-7	"	200/220		Fine
58	C	1h 28 ^m E	+40 11	"	2.9	F8 Ib	7-14	"	40/?		Fine
26	A	1h 20 ^m E	"	"	"	"	10-11	"	40/26	Thick	Fine

По-о-е 28115-07076

Dome Temp
Focus
Dome Temp

Hour Angle
End

Dome Temp.

Transparency Conditions *sl. hazy - but good - high winds*

[illegible]

York 4

Date July 13-14 Tues Wed Observer JF-Tn Julian Day.....

[illegible]

Dome Temp. 74 F

Focus

Dome Temp.

Transparency Conditions *Hazy - Cloudy*

Clear by 0th

52

[illegible]

II a-o-c 28115-11076

Dome Ten
Focus ...
Dome Ten

Hour	Angle	End
3	20	
0	26	
1	54	
0	22	
1	04	
0	12	
1	14	

Dome Temp. 62°F H=9078

Transparency Conditions

clearing & windy 54
excellent transparency

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
38	A	0 20 E	+19 17	4'-8"	4.0	A9 III	7-7-7	WIDE VIS BIN-BAYCOX	40/16		
57	B	0 26 W	+25 51	4'-2"	7.0	G8 II	7-7-7	"	400/250		
04	C	1 54 W	+13 15	3'-4"	7.5	G8 III	7-7-7	"	400/240		
53	A	0 22 W	+0 29	2'-4"	6.2	K0 III	7-7-7	"	400/270		
37	C	1 04 W	+0 27	3'-4"	7.3	K2 III	7-7-7	"	400/270		
02	A	0 12 W	+39 40	"	5.5	K3 III	7-7-7	"	250/140		"
51	B	1 14 W	+13 05	"	5.9	F1 IV	7-7-7	"	250/130	s/c/100d	sl. str.
										10 1/2" D-17 W 68"	

IIa-O-C 28115-11076

Date _____

SAT/SUN JULY

Observer

CM Tn

Julian Day

[illegible]

Dome Temp. 71° 88%

Focus 10-R

Dome Temp.

Transparency Conditions same level "good"

56

[illegible]

Date Sun/Mon July 18/19 Observer Fri - Tn Julian Day 03075 - 16016

Ma-J-e 03075 - 28066
Pa-O-e 2.8115 - 11076
Du-F 03075 - 16016

[illegible]

4016

Dome Temp. 72°F 867

58

* Some typ boxes last night

[illegible]

Doc-E 28115-11076

Dome Term
Focus
Dome Ten

Hour Angle
End

Dome Temp. 70°F 87%

Transparency Conditions good but increasing cloudiness found early in close.

60

[illegible]

* 28115-11076
* * 28115-22076

Dome Terr
Focus
Dome Terr

Hour	Angle	End
37	23	
52	13	
4		

Dome Temp. 64°F H=97%

Transparency Conditions Excellent 1

$V = 6.3$ sec. as noted by

62

[illegible]

* 03075-28066
** 28115-22076

* * 28115-22076

Date Sun/Mon July 25/26 Observer Fgi-Bln-Zd Julian Day

[illegible]

Dome Temp. 66°F $H=67\%$

Transparency Conditions Variable Fair - Poor
Scattered cirrus + stratus
all night

69

[illegible]

Date July 27/28 Observer McW Julian Day 172

[illegible]

Dome Temp. 74° 74%

Focus

Dome Temp. 66 85%

$\Delta L + 3$
RA - 15 sec

Transparency Conditions good but fair seeing
very good sometimes good and poor
MILKY WAY good

66

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0	A		-8 33	3			7		200/4	W/long STAR.	No Good
24	C		28 19	2	8.4	65 II	7	SSV LIST II HO	800/14	star ramp stars. LHA incorrect	No Good
36	A	00 38 W	15 28.2	4-5	6.3	M ₂ III	7-7-8	SP Bin Hd	800/350		
50	B	00 43 W	? screwed.	5	7.4	F8 V	7-8-8	VIS Bin Hd	800/1.50		st. w/
01	A	01 38 W	52 17.	4-5	6.5	68 III	8-11	VIS Bin Hd	800/120	coordinates discrep CRAZY	st. w/
										Left + Right	
										all 13 ^m D. 19 @ 65°F	

67

Π_{40-e} 28115 - 22076

By me

Date. 30-31 Fri-Sat

Observer (10-Tn)

Julian Day

[illegible]

Dome Temp. 72°F 95%

Transparency Conditions Hazy but clouds staying away

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
30	A	1 33 E	+74 17	2.3"	4.16	ADS	8-9-8	Cane	40/181		fine comp. st. wh.
29	B	1 50 E	+73 19	"	6.36	B4	8-8-8	SCopler-Lne	400/140	Confusing tld on drump	v. st. wh.
19	C	1 00 E	"	"	"	"	8-8-8	"	400/137		fine
35	A	0 31 W		"	4.18	APS	8-8-8	Lane	40/20		fine, comp. wh.
38		0 05 W	+73 19	-2"	6.36	B4	8-8-8	Alpheri-Lne	400/139		fine, comp. wh.
		0 52 W	"		6.36	B4	8-8-8	SCopler-Lne	400/140		fine, comp. st. wh.
21	A	1 43 W	"	3"	"	"	8-8-8	"	400/95	some cloud Thick	st. wh.
										10" D-19 @ 68°F	

July Aug

Date 31-1 Sat-Sun

Observer Luc-Tn

Иг-Ос 28115-07076

Па-0-е* 28115-22076

..Julian Day

[illegible]

Dome Temp. 73°F H=9370

Focus 15-R

Dome Temp.

Transparency Conditions SI Haze - Suddenly clear
+ 23"

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
57	A	034 E	+28 25	3-5	6.44	B2 III	89-7	Lnc	400/135		fine
15	B	016 E	"	4-5	"	"	77-7	Lnc	400/85		fine
9	A	1:34 W	+03 19	3-4	6.36	B3	6-7-6	β 6 plei-Lnc	400/80		fine
11	B	1:56 W	"	4-6	"	"	6-7-6	"	400/84		fine
20	C	2:14 W	"	"	"	"	6-7-6	"	400/85		ne
51	A	2:35 W	"	"	"	"	6-7-6	"	400/85		fine, comp fine
13	B	2:57 W	"	"	"	"	6-7-6	"	400/85		
38	C	3:23 W	"	3-4	"	"	6-7-6	"	400/84		
17	A	4:54 W	+29 15	"	6.87	F06	88-3	Cephid / Ewrs	400/135	(RHS * 3) Push if you think ^{15m} ₂₁₉ (RHS *) best (should have got over 200 counts) all other 10m D-19 @ 68°F	

IIIa-J-e 03075-26076

Date Aug 1-2 Sun-Mon Observer Cne-Tr Julian Day 2445100.5

[illegible]

73

III-J-e 03075-26076

IIa-O-e 28115-01086

* IIa-O-e 28115-02086

Date Aug 2-3 Mon-Tues Observer Lne-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40713	HD 170600	18 22.2	71 17	612	IIIaJ-e	9/5	63°F	20:18	20:54	A	0576
40713T	Calc for 40713			180sec	"						
40714	HD 199140	20 50.1	28 08	612	IIaO-e	18/3	"	21:03	21:19	B	2'05
40715	"	"	"	"	"	"	"	21:25	21:46	C	237
40716	"	"	"	"	"	"	"	21:48	22:06	B	2/7
40717	"	"	"	"	"	"	"	22:07	22:26	C	158
40718	"	"	"	"	"	"	"	22:28	22:45	A	139
40719	"	"	"	"	"	"	"	22:47	23:01	B	123
40720	"	"	"	"	"	"	"	23:02	23:15	C	108
40721	"	"	"	"	"	"	"	23:16	23:31	A	051
40722	"	"	"	"	"	"	"	23:32	23:46	B	037
40723	"	"	"	"	"	"	60°F	23:54	0 8	C	015
40724	"	"	"	"	"	"	"	0 9	0 22	A	028
40724T	Calc for 40714-24				"	90sec	"			B	
40725	HD 199140	20 50.1	28 08	612	IIaO-e*	18/3	59°F	0 23	0 52	B	028
40725T	Calc for 40725				"	90sec					

Dome Temp. 72°F 74%

Focus 15-B

Dome Temp. 72°F H=8670

Transparency Conditions Excellent - 5/ haze

Plates in Exp Box #1

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
4	A	0:57 E	+71 20	2"	4.18	ApSi	^{no filter} 7-7-7	Lne	40/85	5 ^m D-19 @ 68°	high fog occasionally over-developed
9	B	3 ^h 05 E	+28 28		6.44	B2 III	6-7-6	Lne	200/40		fine
46	C	2 37 E	"		"	"	6-7-6	"	200/45		
6	B	2 17 E	"		"	"	6-7-6	"	200/45		fine
25	C	1 58 E	"		"	"	6-7-6	"	200/45		
45	A	1 39 E	"	23	"	"	6-7-6	"	200/45		
51	B	1 23 E	"		"	"	5-5-5	"	200/44		BAD - NOT IIO!
15	C	1 08 E	"				5-6-5	"	200/45		fine
31	A	0 51 E	"		"	"	5-6-5	"	200/45		fine
46	B	0 37 E	"		"	"	5-6-5	"	200/45		fine
8	C	0 15 E	"		"	"	5-6-5	"	200/45		fine
22	A	0 2 E	"		"	"	5-5-6	"	200/45		fine
52	B	0 28 W	+28 28	"	6.44	B2 III	5-6-3	Lne	200/31	cloud Push please separated from rest of IIIOs Push 12 ^m D-19 @ 68°	fine

Па-о-е 28/15-02086

2994.5

[illegible]

Dome Temp. 72° 90°

Transparency Conditions

HAZY Horizon

76

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
6	A	0 41W	77 40	1	6.6	A ₀	7-10-10	SP Bin Hd	200/80		fine
8	A	0 40E	29 10	1.5-2"	9.1	G ₈ III	8-11-8	SSV LIST I Hd	800/254		fine
15	C	1 34E	26 28	1.2"	8.9	K ₄ III	8-10-8	"	800/270		sl. wk
18	A	2 18W	15 30	2"	6.3	M ₂ III	8-11-8	SP Bin Hd	400/181	sl length may have been jorral prob .5" → .6"	sl. wk, grain
15	C	0 16E	28 35	1.2"	9.0	K ₅ III	8-11-8	SSV LIST I	800/263		sl wk
21	B	0 10W	30 50 1/2	"	8.8	K ₃ III	8-16?	SSV LIST I	800/239	NE of two checked HD cat we were lucky	fine
										Comp dbl due to break <u>Broken 2 pcs</u> on one piece.	
										all 10 ^m D-19 @ 68°F	

Ma-e 28115-02086
Ma-J-e 03075-26076
Ma-F-e 03075-16076

Dome Tenn
Focus
Dome Tenn

Hour	Angle
0	15V
0	43V
2	33
1	04V
1	31E
0	48V
1	19E

Dome Temp. 60°F 8876

Transparency Conditions *Thin cloud*

79

Exp Box #1

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
13	C	0 15 W + 14 30	2-4"	6.07	Ami	8-11-8	Ec 1. Bin-Bln	400/160			fine
1	A	0 43 W + 71 22	2"	4.18	Apsi	^{no filter} 7-8-8	Sp Bin-Lne	40/83	1 inch broken off	RHS'	fine
										RHS	
42	B	2 33 E + 42 16	3-4"	3.63	B6p	^{no filter} 5-7-5	Shell *	40/155	Thicker Cloud	Middle Box	fine, dust
										Mid Box	
11	C	1 04 E + 42 16	2-3"	3.63	B6p	^{no filter} 7-8-7	Shell-Bln	40/200		RHS	fine, dust
1	B	1 31 E + 59 04	"	2.6	F2 IV	^{" " " "} 7-7-7	Brit Star Prog	40/235		RHS	sl. dr, dust
29	C	0 48 W + 58 20	3-4"	6.3	B7	8-10-8	Sp Bin-Bln	400/150	ScepC		useless
13	A	1 19 E + 50 05	2"	5.44	Apsi	^{" " " "} 7-7-7	Ap Bin	40/63	63 And much cloud	RHS	sl. wh
									II 20	10" 019 C 60F	
									others	5" 219 C 60F	

IIa-O-e 28115 -02086

Date Aug 9-10/76 Mon-Tues. Observer Tn Julian Day 175

[illegible]

Dome Temp. ... 73° F ... H = 90%

Focus 10-R

Dome Temp. 74°F?

Transparency Conditions Just Clearing - Some Cloud

82

Time	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
14	B	4-27 W +25 45'	2 ²³ '	6.67	B9	8-10-8	Ap-MR	400/175		Cleaned slit; then restarted sl. wh	
										Top hatz closed up.	
										Broken 3pc saved	
										do what you want with em	
										Better ask MR first	

what do you mean? $\rightarrow$ no vacuum - for perhaps $\rightarrow$ 11a 0-e 28115-02086
rk 20 hrs?

29.99.5

[illegible]

Dome Temp. 74° 803

Transparency Conditions 51 Haze but good

82

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00		0 03N	+62 24	2'	6.5	68 III	9-19	Vis Bin Hd	400/??	no Exp meter cloud 2 inches broken off * Lots of breaks Lately Karl.	excellent
										9 1/2" D-19 @ 69°F	

Date Aug 11/12 Observer McW Julian Day 3000.5

[illegible]

Dome Temp.

76%

89%

9470

Transparency Conditions

good seeing but hazy.

84

.....
clouds in NORTH EAST

just like

GR. 15 ft. in facing 122° low in mood

[illegible]

Date Aug 15/16 (Sun/Mon) Observer BB Julian Day 3001.5

[illegible]

Dome Temp. 58°F. H = 85%

Transparency Conditions *Cloudy → clearing*

86

[illegible]

II a o E 28115-11086

Dome Ten
Focus
Dome Ten

Hour	Angle	End
02	4'	
02	32'	

Dome Temp.

88

[illegible]

Date Aug 17/18 Tues/Wed 76 Observer McW Julian Day _____

[illegible]

Dome Temp. 74 70%
Focus 103 78%
Dome Temp. 66 78%

Transparency Conditions good 90
seeing changeable wild variation in RATE needle
no haze

[illegible]

Па-О-е 28115 - 11086

Dome Ten
Focus
Dome Ten

[illegible]

Dome Temp. 66

92

[illegible]

IIIa-J-c 03075-26076

Па-Ос 28115-11086

Date 19/20 August '76 Thu/Fri Observer Blu-Tu Julian Day 2444480.5

[illegible]

Dome Temp. 72°F $11=74^{\circ}$

Focus $10-B$

Dome Temp. 72°F ? $11=90^{\circ}$

Transparency Conditions Good but haze increasing 94

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
20	A	0 26E	+71° 20'	2"	4.18	A _p Si	^{No Filter} 7-7-7	Sp. Bin - Bl	40/77	RHS of box. RHS	fine
11	B	0 17E	+35 44	1-3"	7.60	WN45 09.5 Jax	8-8-8	Sp Bin - Fgi	400/300		fine { ^{gu. low} dust
13	C	3. 23W	+54 23	1-2'	9.21	B2.5 II	6-6-6	Sp. Bin - Bl	800/405	TV not effective for this	fine, glide
31	A	1. 47E	+139 57	2	2.71	B05 V	^{no filter} 7-13	"	40/16.3	Cloud at end RHS	fine
										10" D-19 @ 68°F II 20	
										5" " " III 2 J ⇒	s. high by

Иа-5-с 03075-26076
Иа-0-с 28115-19086

Dome Temp
Focus
Dome Temp

Hour	Angle	End
0	13 E	
0	11 E	
2	26 W	
0	35 W	
2	46 E	
1	20 E	
1	31 E	

Dome Temp.

Transparency Conditions *Hazy but OK*

96

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
28	A	0 13E	+71 22	1"	4.18	Ap 51	^{no filter} 7-9-8	Sp Bin-Bln	40/84		sl. wh, sl fog
28	B	0 11E	+35 45	1-2"	7.60	^{WN45} _{109.5}	8-8-8	Sp Bin-Bln	400/300		fine
30	C	2. 26W	+29 15	1-2"	6.8-7.6	F0-61	8-8-8	Cepheid/Evans	400/240		fine
21	A	0 35W	+58 19	2"	6.3	B7	8-8-8	Sp. Bin Bln	400/150	J Ceph C. 1-INCH PIECE BROKEN OFF, LOST	fine
3	B	2 46E	+41 19	2"	5.78	dF2	8-8-8	mistake	400/140		sl. wh., quick
3	C	1 20 E	+41 24	2"	7.26	08 V	8-8-8	Sp Bin - Bln	400/140		sl. wh.
14	A	1 31 E	+48 07	2"	7.80	B7 V	8-8-8	Ecl Bin-Bln	400/130		Sl wh., quick
										M 2 J 4 3/4 " D 19 @ 67°F	
										M 2 O 10 " " "	

१७

waterloo

Date. 21/22 AUG

SAT/sun

Observer CM-TA

Julian Day

Dome Temp
Focus ...
Dome Temp

Hour Angle
End

Dome Temp.

Transparency Conditions

Hazy - cloudy by dawn 98

[illegible]

HA-J-e 03075 - 22086
HA-O-e 28115 - 19086

Date 22/23 Aug Sun/Mon Observer Fgi-Tn-Zd Julian Day

[illegible]

Dome Temp. *Warm* $H = 72\%$

Transparency Conditions *Hazy*

100

Focus *20-B*

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00:15W	71° 20	2"	4.18	Ap Si	^{NO FILTER} 7-8-8	Line *	40/81	May have fogged dumb accident.	sl. wh, one end fogged
1:57W	35° 45	1.2"	7.60	09.51 LUN 4.5	8-8-8	Fgi Thesis	400/300		quite
04:12W	54° 23	1.2"	9.21	32.51	5-6-6	Blu Sp Bin	800/238	broken, but still connected	fine
01:12E	39° 58	"	2.71	30.51	^{NO FILTER} 5-8-6	Blu Sp Bin	40/116		wk *
								Il a 0 10m 014 67° F	
								Il a 5 4 1/4 "	
									* insufficient examination

№ 28115 - 22086

[illegible]

Dome Temp.

Transparency Conditions *Very Good*

102

g Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
49	A	0 6E	+31 28	2.4	6.65	A0	8-9-9	Am-MR	400/180		fine
48	B	1 34W	+35 45	2-4	7.6	095706 AN 15	8-8-8	Sp B14-Fgi	400/280	Much cloud-	fine
36		1 53W	+42 24	2-5	6.77	B9	8-8-8	Ap MR	400/138	Scattered Cloud	exp. fine small, scattered
										Cloud!	
										11" D-19 @ 67°F	

103

IIa0-e 28115-22086

IIIaJ-e 03075 22086

Date 24-25 Tues-Wed Aug Observer Tn-Fgi/Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40777	HD176668	18 56.3	+62 16	G12	IIa0-e	13/1.5		19 44	21 27	A	0 26
40777T	Calc for 40777	79.80			"	90sec					
40778	FG Sgc	20 7.5	+20° 2	G12	"	25/1.3		21 37	2 40	B	4 25
"	Field drawn & it checks well with					Polaroid Prints of BDC Polamar					field
							70°F				
40778T	Calc for 40778				IIa0-e	45sec					
40779	HD23257	3 38.6	+27 37	G12	IIa0-e	13/1.3		2 46	3 46	C	2 01
40780	HD26571	4 7.0	+22 09	"	"	9/1.5	66°F	3 48	4 28	A	1 46
40781	HD24760	3 51.1	+39 43	G8	IIIaJ-e	9/1.5		4 37	4 58	B	1 02
40781T	Calc for 40781				"	180sec					
	Gazed at Jupiter -					Perfect view just like					
						Viking Photos					
						Pioneer					

Dome Temp. Cool H=70%Focus 10-B

Dome Temp.

Transparency Conditions Excellentmainly Photometric
A SUPER night

104

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
27	A	0 26 W	+62 23	4-2'	7.44	G8II	8-8-8	Vis Bin-Hd	400/225	LHS Box #1	fine
										LHS	
40	B	4 25 W	+20 18	1-2-3'	10.5	F5I	5-4-4	F6 Sge	800/190	Some haze at 0 ^h	Wk, UV
		fields.								TV used successfully on it	Plate shifted
										" " " to be brighter on the hour for 10 mins? Perhaps imagination?	L to disp
										ie sl brighter than nearby star to the SW then sl fainter for most of the hour.	
										* Both 10778 & 10778T	
										(at R HS & should be pushed)	
36	C	2 01 E	+27 54	1-2'	7.60	G5I	8-9-8	SSV	400/190	LHS	fine
28	A	1 46 E	+22 24	"	6.11	B8	10-8-8	Ap MR	400/170	LHS	fine
58	B	1 0 E	+39 59	"	2.71	B05I	6-5-9	sp Bin-Tn	40/130	Middle Box #1	sl. str
										noticed a "white spot" about 25° N of Spole	
										IIaO 11" D. 19 @ 67.5	
										40778 - IIaO 15" " "	
										IIIaT 7" D. 19 @ 67.5	

[illegible]

Dome Temp. warm, H = 68%

Transparency Conditions some clouds

106

Focus 10-B

Dome Temp.

Time G.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10	A	0 10E	+71° 20'	1"	4.18	ApSi	NO FILTER 6-8-7	Line *	40/80	} RHS	fine
13	B	0 11W	+35° 40'	1"	7.6	WN4.5 10951	6-8-7	Sp. Rig. - Fgi	400/308	some cloud	fair
50	C	0 22E	+57 03	1- 6.81	V=5.88 6.81	58 III	NO FILTER 5-4-4	RS CVn test star	200/250	Tilt 0.7 B } Middle of Box #1	fine
21	B	04:24W	+71 21	1"	4.18	ApSi	NO FILTER 7-7-7	Line *	40/70	RHS Reversed clouds	sl. wk
										II & O 10" D19 68°	
										II & F 5" " "	
										III & J 6 1/2 " "	

II-o-e 28115-27086

Dome Temp
Focus
Dome Temp

Hour Angle
End

Dome Temp.

Transparency Conditions *very hazy*.....

getting windy too

208

[illegible]

MAJ 103075-22086

Sat-Sun Observer *Rm / Tr*

Julian Day

[illegible]

Dome Temp. H = 70%

Transparency Conditions *Crystal clear -*
Photometric

110

[illegible]

111

IIc0-e 28115-25086
IIIa1-e 03075-22086

Date Aug 30/31, Mon/Tues Observer Fgi-Tn Julian Day

[illegible]

Dome Temp. cold..... $H = 84\%$

Focus 20R 4-977

Dome Temp.

Transparency Conditions *Photometric*

112

[illegible]

Dome Temp.

90%

96%

Transparency Conditions

shell 9

114

[illegible]

775

IIAO-E 28115-25086

Date Sept 2/3 Thurs/Fri Observer Fg-Ri/JF-Ri Julian Day

[illegible]

Dome Temp.

Transparency Conditions

116

[illegible]

Date Sept 3/4 Fri/Sat Observer Fgi-Ri/JF-Ri Julian Day

[illegible]

Dome Temp.

110

opened Box #1

[illegible]

IIaD-E 28115-04096
IIaF-E 03075-11086
IIIaJ-E 03075-22086

Date Sept 4/5 Sat/Sun Observer Fgi-Ri Julian Day

[illegible]

Dome Temp. cool H=75%

Focus 02

Dome Temp.

Transparency Conditions scattered cloud

120

exposure box #3

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
7	A	00 ^h 07E	+35° 45'	3"	7.6	NN4.5 ^h 09.5 ^h	7-8-7	Fgi WK*	400/300		fine
2	B	02 ^h 15W	+71° 19'		4.18	ApSi	7-7-7	ND FILTER Lne *	40/80	RHS H=88%	fine
3	C	00 ^h 30W	+55° 39'		V= 6.49	gG4	5-5-5	ND FILTER RSCVn test *	400/378	R.H.S middle of Box middle of Box clouded out	sl. w/2.
										II & F 6" D19 68°F	
										III & J 6" D19 68°F sl. overexp.	

Dome Temp. 79%

Focus 20 R

Dome Temp. 95%

Transparency Conditions thin cirrus clouds around 122

exposed Box #2

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1/4	A	0 ^h 39W	71 20	3-4	4.18	ApSi	7-77	Line #	40/80	R.H.S.	sl. air
1/4	B	2 ^h 30W	+29° 15	4"	6.8-7.7	F0-F1	7-8-7	Evans-Cephed	400/200	R.H.S.	fine
1/4	A	4 ^h 20W	+35° 43	3-4	7.6	WV 9.5 09.5H	7-8-7	Fci WR*	400/301		fine
1/4	B	0 ^h 27W	+41° 22	3-4	7.26	08II	7-77	So Bin-Bln	400/160		sl. air
1/4	C	0 ^h 07E	+48 04	3-4	7.80	BTU	7-8-7	Ecl. Bin-Bln	400/160		sl. w/2
										IIa0 10" D19 68°F	
										IIIa5 6" D19 68°F - sl. overcast	

И.О.-Е 28115 04096

Dome Term
Focus
Dome Term

Hour Angle
End

Dome Temp. 66°F 79%

124

[illegible]

ΠαΟ-Ε 28115-04096

Date Tuesday Sept 7-8, 1976 Observer Hol-Ri / Ri Julian Day

[illegible]

Dome Temp. 80%

Transparency Conditions cirrus clouds around first half
clear again after midnight

[illegible]

III 9 J-e 03075- 22086
II 9 O-e 28115- 04096

Date Wed-Thurs Sept 8-9 /76 Observer TJ Julian Day.....

[illegible]

Dome Temp. cloudy H=73°Focus 10-BDome Temp. cool 99°Transparency Conditions sl. Hazy - very hazy

Full moon

Mao died this morning

128

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
14	A	0 48 W	+71 21	2.4"	4.18	A _p si	^{no filter} 6-7-8	Sp Bin-Lite	40/75	RHS of Box #1	sl wh.
										RHS	
30	B	1 21 W	+35 45	2.3"	7.6	^{WN45} 0.95 J ₂	7-8-7	Sp Bin-Fji	400/320		fine
10	C	0 22 E	+58 18	1.2"	6.3	B7	8-8-8	Sp Bin-Bin	400/145	some thin cloud Scep C	fine
10	A	4 46 W	+71 18	1"	4.18	A _p si	^{no filter} 8-8-8	Sp Bin-Lite	40/73	RHS Reversed	sl wh
11	B	1 31 W	+42 24	1"	6.77	B9	8-8-9	A _p MR	400/175		fine
13	C	0 57 W	+16 03	1.2"	5.8	B8	8-9-8	"	400/150		fine *
	A						5/5	no filter		Fog	sl blue
										* KK	more I ₂ O need be cut,
										I ₂ O 10" D19 68°	
										I ₂ O 6" D19 68° - over dew, use 5"	
										* 40817 dew. especially 10 1/2" D19 68°	

Dome Temp. *Cool H=80%*
 Focus *40-R → 30-R for 40819*
 Dome Temp. *90%*

Transparency Conditions *Clearing by 22h* 130
very
good
*Karl * Renumbering may be appropriate*

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
32	C	3 14 W		3"	8.7	B2	3-2-2	Var-BB	800/40	RHS Push plate RHS	ok ^{but} OK
20	B	2 22 W	+35 42	2"	7.6	^{WN45} 095	8-	SpBn-Fgi	400/90	RHS - Forgot Cutting Til [*] P _h	s/l / gag
0	C	4 03 W	"	"	"	"	8-7-7	"	400/302	new start	Fine
10	B	1 32 E	+28° 40	1"-2"	^{V=} 6.5	^{65I} +KO II	8-7-7	RSCVn-Fgi	400/220	UX Ari	
47	C	0 38 E	+0° 25	2	6.82	65I	8-8-8	"	400/218	HR 1099	
03	B	1 50 W	+41 20	2	7.26	08I	6-8-8	Bl Sp Bn	400/143		visibl ^e vsl blue
	A		in in / out out				5/5	no filter			
										A0818-19 15 ^m D19 68°	
										others 10 ^h 2 ^m D19 68°	

Иал-е 03075-22086
Иао-е 28115-09096

Date Sun-Mon Sept 12/13 Observer Fgi-Tn Julian Day

[illegible]

Transparency Conditions Very Good - s/haze

$\mathbb{D}_J \quad 4\frac{3}{4} \quad 019 \quad 68^\circ$

133

IIa0-e 28115-09096

IIa0-e* 28115-13096

IIIa0-e 03075-13096

Date MON/TUES Sept 13/14 Observer But-Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40832	HD 176003	18 53.0	+44 05	G 12	IIa0-E	131.5	70°F	19 10	20 05	A	025W
40832T	Cal'n for 40832-35.				"	90sec					
40833	HD 190165	19 58.0	+45 11	G 12	"	131.5		20 09	21 56	B	110W
40834	HD 208835	21 53.9	+46° 23'	"	"	"		21 58	0 11	C	130W
40835	HD 217695	22 57.4	+47 24	"	"	"		00 13	2 17	A	233W
40836	HD 26571	04 07.0	+22 09	"	IIa0-e*	91.5		02 26	3 09	B	146E
40837	HD 51418	06 52.2	+42 26	"	"	"		03 12	4 32	C	308E
40837T	Cal'n for 40836-37				"	90sec					
40838	HD 24760	3 51.1	+39 43	G 8	IIIa0-e	91.9	63°F	04 43	5 02	A	20 2W
40838T1	Cal'n for 40838.				"	180sec					
40838T2	flame test				IIIa0-E	9				A	
40838T3	"				"	"				B	P.H.S
T4	"				"	"				C	P.H.V
T5	"				"	"				A	P.H.S
T6	"				"	"				B	P.H.V
T7	"				"	"				B	H.S

Dome Temp. Warm 17 = 70°

Focus 3-B

Dome Temp. H = 90°

Transparency Conditions S1 Hazy but good

134

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
05	A	025 W	+44° 13'	~1"	7.00	A1	8-8-8	A _m MR	400/180		fine
56	B	1 10 W	+45° 26'	1.2"	7.58	A2	7-8-8	A _m MR	400/180	mag to 10th/23"	fine
11	C	1 30 W	+46° 46'	1.5"	7.39	A0	8-8-8	A _p MR	400/180		fine
17	A	2 33 W	+47 49	2-3	7.50	A0	8-8-8	"	400/170	1/2" broke off	fine
09	B	1 46 E	+22 24	1.2"	6.11	B8	8-9-8	"	400/140		sl. wk
32	C	3 08 E	+42 21	2"	6.61	A0	8-8-8	"	400/180		sl. wk
02	A	20 24 W	+39 55	1"	2.71	805 V	10-10-10	Sp Bin - T _n	40/193	RHS	sl. wk.
										RHS	
	A		15s the capped plate 15s				no filter 30 sec			BROKEN 2 PIECES	
	B	P.H. S	15s tel East 50s				no filter 30 sec				
	C	P.H. N	" "				30 sec				
	A	P.H. S with G-40 in	tel 54E + 54W				30 sec			BROKEN 4 PIECES	
	B	P.H. N	" "				30 sec				
	B	tel S comp 10 sec	tel N com 20 sec								

10 1/2" D17 0.17
5" 5" D17 0.17

Date Sept 15 Wed 1976 Observer _____ Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions

136

[illegible]

137 Visitors ~ 50 one time ~ 3/4 hours.

Ilal 28115 - 13096

IIIaJ-e 03075 - 16096
127-15 02205

127-05 00095 - 16096

Date Sat/Even Sept 18/19 Observer Fgi-Tn/Ed Jn Julian Day 127-05 00095 - 16096

[illegible]

Dome Temp. $H = 802$

Transparency Conditions

Some haze & cloud 138

1005 Wagon Box #2

	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
28	A	0 59 W	+35 44	2"	7.6	WNH.5+ O9.SIa	8-8-0	Fgi WR*	400/200	some cloud } *Pus LHS LHS	fine/rainy
3	A	0 48 E		2-3"	V= 2.2	B8V	10-10-10	Zd-algal	40/185	Tilt - 1 turn R H S R H S	ok
45	C	0 14 W	+40 51	3"	V=2.2	B8V	not He I 6-9-8	Zd-algal	40/200	Tilt + .7 B In Large Box #1	fine
26	A	0 55 W	"	2-3"	"	"	8-9-8	"	40/149		v.sl.wk
53	B	1 22 W	"	"	"	"	8-7-7	"	40/100		EI
			2 min								
19	C	0 58 W	+39 55	2-4	2.71	B0.5V	10-10-10	Splis-T ₃	40/170	R H S In Large Box #2	fine fine
			2 min								
										I 20 14" III J 5" } D19 65% 127 7" }	

ΠαΟ-ε 28115-13096

Dome Ten
Focus
Dome Ten

Hour Angle
End

Dome Temp. *warm* 7570 H

Focus *3-B*

Dome Temp. *807*

Transparency Conditions *Cloudy shortly after sunset* 190

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
37	B	0 53 W	+71° 21	1"-2"	4.18	ApSi	9-10-9	Line Trp. Sys	200/78	thry cloud	fine
45	B	1219 W	+35° 45	1-3	7.6	MM4.5 +09.5	7-8-8	Fgi NR*	400/285	some cloud	fine
										I&O 10" D19 650H	

Date Sept 22/23 Wed/Thurs Observer Fgi-Ri Julian Day

[illegible]

Dome Temp. coldFocus 40R

Dome Temp.

Transparency Conditions

192

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	A		+35° 45'		7.60	WN 4.5 0.155	8	Fgi WRT	800/		
	B	R.A 3 ^h 10 ^m 34 ^s W	20 ^{sec}							R.H.S	
	C	Dec. 80° 10 ^{sec} -20	20 ^{sec}				8			R.H.S	ouch!!
25	B	02 ^h 08 ^m E	+28° 40	3-4	V=6.5	95 ^{II} +10 ^{III}	8-8-8	RS CV _n /Fgi	800/302	UX Ari	fine
										power failure for 1 hr when power went on it was cloudy	
										IIa0 10 1/2 ^m IIIa5 5 ^m } D19 68°F	

IIaO-E 28115-13096
IIIaJ-E 03075-16096
098-01-E 23025-21096

Date Thu Fri Sept 23-24 1976 Observer Bh-Ri/Fgi-Ri Julian Day 2444111.5

[illegible]

Dome Temp. *cold! 61%*Focus *40R*

Dome Temp.

Transparency Conditions *v. clear*

192

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
8	A	00 ^h 50W	+71° 20'		4.18	ApSi	<i>no filter</i> 10-10-10	Sp Bi-Bi	40/80	R.H.S	<i>fine</i> comp. sl. str.
00	B	01 ^h 58W	+59° 23'		9.21	80-SIb	6-6-6	Sp Bi-Bi	800/262	a few clouds	<i>fine</i>
30	C	02 ^h 09E	+00° 33'		6.82	65I	8-8-8	RS CV _n /Fgi	800/442	HR 1099	<i>fine</i>
56	A	00 ^h 43E	+00° 32'		-	-	<i>no filter</i> 3-3-3	-	400/250	HR 1099 Middle of exposed Bar th	<i>Strongly</i> comp. sl. str.
9	B	20 ^h 10W	+00° 32'		6.82	65I	<i>NO FILTER</i> 3-3-3	RS CV _n /Fgi	400/170	HR 1099 Middle of Bar th 2	<i>sl. str.</i> comp. sl. str.
30	C	01 ^h 36W	+00° 32'	4-5	6.82	65I	8-8-8	RS CV _n /Fgi	400/210	HR 1099	<i>fine</i>
		RA 3 ^h 45	3 ^h 45				10-20			R.H.S.	
		D _{sc} 80	-20°							R.H.S.	
										100 10 1/2" 098 7 1/2" 105 5" DI9 68°F fug	.22 .26 .18
										fog too high on 098, will drop dev. time to 6", so hold at 400/170 as on 10852	

Focus 50R

Dome Temp.

Transparency Conditions Zurich

146

[illegible]

147

Visitors 1 group $1\frac{1}{2}$ hr

Date 25/26. Sat/Sun Sept Observer Fji-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.
40861	HD 190918	2 ^h 2.2	+35° 31'	G12	Ila-D-c	13/.5	53°F	20 ⁿ 28	22 ⁿ 41	A
40861T1	cal step wedge	for plates 40861x			IId-E	90aa				
40862	22 468	3 ⁿ 31.6	+0° 16'	G12	Ila-D-c	13/.5		22 ⁿ 48	02 ⁿ 24	B
40863	"	"	"	G16	Og8-OI-E	"		02 ⁿ 31-	-	C
4086271	flemm test				IIaJ	9				A
4086272	flemm test				IIIaJ	9				B
'		Sun Sept 26								
4086273	flemm test				IIaJ	9				A
4086274	flemm test				IIIaJ	9				B
		Mon Sept 27								
4086275	flemm test				IIaJ	9				A
4086276	flemm test				IIIaJ	9				B

Dome Temp. 90%

Focus 402

Dome Temp.

Transparency Conditions hazy

148

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
41	A	2 ^h 39 W	+35° 44'		7.6	NN4.5+ 09.5 Ia	7-7-7	Fgi WRX	800/600		fine
24	B	1 ^h 07 E	+0° 33'		6.82	65 I	7-7-7	RSCVn/Fgi	800/440	HR 1099	sl. wh underdeveloped
			+0° 32'		"	" 3 ^h	"	"	500/		
		10 s 3 ^h E	20 s at 3 ^h W							clouds	
		10 s at 80°	20 s at -20								
A		RA 10 s 3 ^h E	20 s 3 ^h W							II aD 10 ^m III aJ 5 ^m	D19 68°F
B		Dec 10 s 80°	20 s -20							40862 6 1/2 ^m	- by error, it was in RHS and assumed to be 098
A		RA 10 s 3 ^h E	20 s 3 ^h W								
B		Dec 10 80°	20 s -20								

Date 27/28 Sept. MON/TUES Observer But-Ri/ Julian Day

[illegible]

Dome Temp.

150

[illegible]

ITC0-E2-8115-25096
098-01-E-23026-27096

Gtr = Bob Vanthier

Date Tues Sep 28-29/76

Observer

Had
R
M...

$F_{91} - R_1$

Julian Day

[illegible]

Dome Temp. 86%

Focus 402

Dome Temp. 96%

Transparency Conditions good

152

exposed Box #1

ig Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
18	A	12 ^h 35 ^m	+4° 56'	3	7.37	K0 III	7-7-7	Hd Vis Bin	800/210		fine
46	B	12 ^h 50 ^m	+25° 50'	3"	8.05	K0 III	7-7-7	Hd SSV List II	800/240		fine
20	C	00 ^h 58 ^m	+30° 33'		8.02	G0 V	7-7-7	Hd SSV List II	800/250		vs sl str
37	A	1 ^h 44 ^m E	+0° 31'		6.82	G5 V	7-7-7	RS CV _h /Fgi	400/220	HR 1099	fine
38	B	0 ^h 43 ^m E	+0° 31'	-	6.82	G5 V	3-3-3	NO FILTER RS CV _h /Fgi	400/135	R.H.S.	fine
49	S										5450 sl. str see revision
11	C	0 ^h 09 ^m E	+0° 31'		6.82	G5 V	3-3-3	NO FILTER RS CV _h /Fgi	400/120	R.H.S.	fine
38	A	0 ^h 18 ^m W	"		"	"	3-3-3	NO FILTER "	400/100	R.H.S.	fine comp sl str
17	B	0 ^h 56 ^m W	"		"	"	3-3-3	NO FILTER "	400/120	R.H.S.	fine comp sl str
31	C	2 ^h 11 ^m W	"		"	"	7-7-7	"	400/221	BROKEN 1/2 missed	fine

153

III-e 03075-16096

IIa-o-e 28115-25096

098-01-E 23026-27096

Date Wed Sept 27-30/76

Observer Th - W bl/eqi T Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
40872	HD 170000	18 22.2	+71 17	G12	III-e	9/5	54°F	18 48	19 28	A
40872T	Caln for	40872, 75		180sec	"					
40873	HD 186688	19 40.8	+29 01.	G12	IIa-o-e	13/5		19 44	21 06	B
40873T	C ₉ / for 40873-74, 78			90sec	"					
40874	HD 14633	02 16.7	+41.02	G12	IIa-o-e	13/5		21 28	23 03	A
40875	HD 24760	3 51.1	+39 43	G8	III-e	9/7		23 15	23 44	A
40876	HD 22468	3 ^h 31.5	+0° 16'	G16	098-01-E	13/5		23 51	0 44	B
40877	"	"	"	"	"	"		0 46	1 29	C
40878	"	"	"	G12	IIa-o-e	"		1 32	2 31	A
40878T	C.I. step wedge for 40876-77, 79				098-01-E	2 5100	D3, D3, D1 5450, H ₂	each 15 min. @ 7.5 V		
40879	HD 22468	3 ^h 31.5	+0° 16'	G16	098-01-E	13/5		2 35	3 05	B
40880	"	"	"	"	"	"		3 06	3 39	C
40881	"	"	"	"	"	"		3 40	4 13	A
40882	"	"	"	G12	IIa-o-e	"		4 21	5 20	B

Dome Temp.

Focus 40-R

Dome Temp.

Transparency Conditions

Karl *Cut plates slosh around in Box #2

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
28	A	1 24 W	+71 19	2.5	4.18	Ap si	no filter 8-8-8	Sp Tri - Lne	40/83	RHS box #1 RHS ..	ok
06	B	1 41 W	+29 12	2.3	6.8 7.66	F0- G1	8-9-8	Ceph - Rm	400/202	LHS x in Middle, given 6 1/2" clear → finished LHS	fine + P
03	A	2 59 E	+41 23	3-4"	7.26	09 V	8-9-8	Sp. Bin - Bl n	400/145	LHS	fine
44	A	3 53 E	+39 56	"	2.74	RHS V	no filter 10-10-10	Sp Bin - Tn	40/160	RHS. Tilt 1/4 in under 0°	
44	B	2 32 E	+0° 31	"	6.82	65 V	NO FILTER 3-3-3	RS CVn / Fgi	400/120	Middle box #2 Tilt 0.7 B	fine
24	C	1 45 E	+0° 31	"	"	"	NO FILTER 3-3-3	"	400/120	"	fine
31	A	0 44 E		2-3	"	"	8-7-7	"	400/220	LHS	fine
015		Forgot to change	5450	D to	D2	D3	instead			Cal plate has background exp!	fine?
05	B	0 11 E	+0° 30		6.82	65 V	NO FILTER 3-3-3	RS CVn / Fgi	400/120	1st box X on LHS, clear! only 5"	fine, but
39	C	0 23 W	"		"	"	NO FILTER 3-3-3	"	400/120	"	fine
13	A	0 57 W	"		"	"	NO FILTER 3-3-3	"	400/121	" H=96%	fine
20	B	2 05 W	"		"	"	7-7-8	"	400/223	LHS	fine
										IIa0 10" IIIa5 5" 098 6 1/2"	} D19 68°F see remarks

155

III-J-e 03075-16096
 098-01E 23026-27096
 IIa0-e 28115-29096

Date 30 Sept / Oct 1976 Thu-Fri Observer Blu-Tu Julian 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.
40883	HD 170000	18 22 12	+71 17	G12	III-J-E	13/5	56°F	19 03	19 31	A
40883 T	Calc for	40883, 90			"	180sec				
40884	HD 222404	23 35 14	+77 04	G16	098-01E	13/5		19 42	19 45	B
40885	"	"	"	G8	IIa0-e	"		19 53	20 05	C
40886	"	"	"	G16	098-01E	"		20 11	20 13	A
40887	HD 221861	23 30.6	+71 05	G16	"	13/3		20 22	20 54	B
40888	HD 221861	23 30.6	+71 05	G16	098-01E	13/3		20 55	21 15	C
40889	HD 221861	23 30.6	+71 05	G8	IIa-0E	13/3		21 22	23 31	A
40889 T1	Calc for	40885, 89, 92			"	90sec				
40889 T2	Calc for	40884, 86-88, 91, 93			098-01E	^{D3} 5100	^{D2} 5450	^{D1} H ₂ each 15 min	07.5V	
40890	HD 24760	3 ^h 51.1	+39 43	G8	III-J-e	9/7		23 37	23 58	C
40891	HD 22468	3 31.5	+0 16	G16	098-01E	13/5		0 06	0 55	B
40892	"	"	"	G12	IIa0-e	"		01 00	01 56	C
40893	HD 22468	03 31.5	+0 16	G16	098-01E	"		02 07	2 51	B
40894	"	"	"	"	"	"		2 52	03 20	C

Dome Temp. $H = 1007$

Transparency Conditions Good hazy 156

Dome getting drippy by 23^h
Fog

[illegible]

157 RASC visitors Very large group 19^h → 21^h

Maj-e 03075-01106
 127-05 00093-16096
 Ilal-e 28115-25096

Date Fri-Sat Oct 1-2/76Observer *Wt - Tm*

Julian Day

[illegible]

Dome Temp. Warm..... H=8570

Focus 40-R -30-R

Dome Temp.

Transparency Conditions Fine but threatening Fog

158

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
06	A	110 W	+71 23	1-2	4.18	A _p Si	^{no filter} 7-8-8	Sp Tri - Lno	40/80	RHS box #1	fine
										RHS "	
7	B	110 W	+38 48	1-2	.04	A0	^{no filter} 5-22	H ₂ O-Vega	40/263	.7B tilt Box #2	broken V. str. looking white at can
										"	
9	C	139 W	+54 24	1-2	9.21	^{B2.5} Ib	6-5-5	Sp Bin-Bln	800/180	Focus set to 30-R Push LHS	fine
										Some Fog increasing Push LHS	
27	A	520 W	+38 48	2"	.04	A0	^{no filter} 12-12	H ₂ O Vega	40/241	.7B tilt Box #2	V str, over lap w/ blue?

1592 Visitor groups 3 hrs

IIaO-e 28115-29096

Date Sat-Sun Oct 2-3 / 76 Observer BK-T₂ Julian Day 174.5

[illegible]

Dome Temp. not bad..... $H = 9670$

160

[illegible]

III a 1-e 03075-01106
II 00-e 28115-29096

Observer... Tn

Julian Day

[illegible]

Dome Temp. *Warm* *H=77°*

Focus *20-R*

Dome Temp. *H 95°*

Transparency Conditions *S/ Haze but Very Good*

162

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
	B		<i>in in / out out</i>				<i>no filter 5-5</i>			LHS Box #2 Shifted (in the blue)	
55	A	1 6 W	+71 23	1"-2"	9.18	Apsi	<i>no Filter 8-8-8</i>	SpTri-Lne	40/85	RHS " "	vs/wh
										RHS " "	
41	B	4 18 W	+35 12	1"	9.74	0971	6-5-6	SpBin-BL	800/360	LHS Box #2 broken apcs	fine
										LHS " "	
45	C	1 2 E	+41 26	1"-2"	7.26	08V	8-8-8	SpBin-BL	400/140	LHS "	fine
20	A	0 30 W	+29 50	"	9.0?	K3	8-8-8	SSV List I	800/250	LHS " Looks brighter Fid & Prec checks	vs/wh
18	B	2 11 W	+25 43	1"-3"	9.4	G2V	8-8-8	"	800/200	LHS Seeing getting bad	fine
40	C	2 19 W	+40 00	1"	2.71	BASI	<i>no filter 10-10-10</i>	SpBin-Tn	40/160	RHS	fine

163

II.O-c 28115-04106

Date MON/TUES OCT. 4/5 76 Observer But - In Julian Day

[illegible]

Dome Temp. 63°F H=728

Focus 20-R

Dome Temp. H=100%

Transparency Conditions GOOD → cloudy

764

log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
39	A	1 55 W	+71 25	2-4'	4.18	ApSc	NO FILTER 10-7-	Sp Tri Lne	40/82	RHS	fine
										RHS	NO GOOD
8	C	03 31 W	+44 18	2-3'	7.00	A1	8-8-8	A _m MR	400/181	LHS	fine
										LHS	fine dot trim
13	A	4 38 W	+30 59	2-3'	7.56	B9	8-8-8	A _p MR	400/160	LHS Cloud	fine
16	B	1 12 W	+43 30	"	6.7	A2	8-8-1	A _m MR	400/180	LHS forgot lost Fe	fine, comp
34	C	01 01 W	+22 28	"	6.11	B8	8-9-8	A _p MR	400/178	LHS Fog increasing	fine
										IIa0 10 ^m	
										IIIaJ 5 ^m	
										D19 68°F	

165

III. 1-e 03075-01106

Ποο-ε 28115-04106

Date Oct 5/76-Tues-Wed Observer Gtr, Th, Ly Julian Day 2443882.5

[illegible]

Dome Temp. 70°F H=750

Focus 20-R

Dome Temp. H 920

Transparency Conditions Hazy → Cloudy

166

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
27	A	1 55 W	+71 24	2-4"	4.18	ApSi	no filter 8-8-8	SpTri-Lne	40/92	cloud coming RHC RHS	guiding!
	B		in in/out out				no filter 6/6			RHS shift to red (in blue only)	
44	B	2 33 W	+37 01	2-3	5.51	B3	8-8-8	SpBin-Lg	400/170	LHS	fine
52	C	2 33 E	34 57	2-4	3.13	A5 III	no filter 8-8-8	Brt star	40/168	"broken" B Tri thru cloud / RHS	sl wk
7	A	3 6 E	40 01 5	2-3	2.71	B05 V	no filter 10-11-10	SpBin-Tn	40/163	RHS thin cloud	sl wk. guiding
										II00 10m III05 5m } D19 68°F	

28115-04106
 03075-01106

Date Sun-Mon Oct 10-11/76 Observer Tg-Bh-Tg Julian Day 174.5

[illegible]

Dome Temp. 60/ H=6776

Focus 50-R

Dome Temp. 60/ H=8776 Frost

Transparency Conditions Spot clouds windy but clear 168

Views good at sunset
Sat Mercury after sunset

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
52	A	2 0 W	+37 00	3-8"	5.51	B3	8-7-8	Sp Bin-Ly	200/90	Fast cloud and plenty	vsl str
9.	B	02 10 E	+41 29	3"	7.26	08V	8-8-8	Sp Bin-B/Ly	400/150		quite
3	C	0 40 E	+29 10	2-3	7.17	B9	8-8-8	Ap-MR	400/180	close vis Bin? red broken 2pc	light struck in processing
58	A	3 3 W	+29 22	2"	9.0	K2III	8-8-8	SSV	800/315	Fld drawn? must be tough	vsl str
57	B	1 29 W	+22 29	1-2"	6.11	B8	8-8-8	Ap-MR	400/180	should have been 9/5 slit	vsl str
8	C	1 52 W	+50 56	"	5.5	B3	8-8-8	SB2-Lne	40/29		vsl str
41	B	2 47 W	+70 2	"	2.71	B05V10-10-10	no filter	Sp Bin-Tn	40/250	RHS RHS	strong
										II 20' 10"	D17 680
										III 55 5"	

IIIaJ-e 03075-01106

Tms

Date Mon-Tues Oct 11-12 / 76 Observer But-Tn Julian Day 176.5

[illegible]

Dome Temp.

Transparency Conditions Sl Hazy - thin cloud from SE

[illegible]

127-05 00025-16096

Date Nov 9th 09 13/14 1976 Observer Ly-Ri/Ed-Ri-Wbl Julian Day

[illegible]

Dome Temp. 55°F 84%

Transparency Conditions Scattered clouds

172

Focus 802

Dome Temp.

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0	A	4 ^h 51 W	+36° 58'	5	5.51	B3	8-88	Sp Bi-Ly	400/154	cloudy rain	fine
23	B	00 ^h 35 W	+40° 53'	5	^{3.5} 2.2	^{no filter} 68X	8-8-8	algol	40/203	clouds at all of exposure in rain	Very strong I just took one edge
haul 11 there is only 2 127-05 plates left											
										120 10 ^m } 127 7 ^m } DTG 68°F	.23

~~Thao-E~~ 28115-04106
127-05 00025-14106
098-01 23026-30096

Observer W. H. R.

Julian Day

[illegible]

Dome Temp. 56°F 56%

Focus H.O.R.

Dome Temp. 52°F 91%

Transparency Conditions *hazy & windy*

174

	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
2	A	05 ^h 39E	+47°43'	3-1	3.03	B5-III	8-8-	B14*	40/100	LHS UV FILTER IN .78 <i>exposed box</i>	fine
53	B	01 ^h 41W	+71°30'	3	7.64	KoTab	12-12-12	B14-RVTest	400/380	one turn past OB <i>F/</i>	fine not gained weeks
										near Bank of Box	
27	C	02 ^h 15W	+71°30'		7.64	KoTab	3-3-3	B14-RVTest	400/50	UV Filter in .78 RHS	vs strong
	A				7.26	098	8-	Sp.Bin-B14	400/-	clouded in	
										} labelled	
										near front of Box } 29	
										II 20-10" } 20	
										127 6 1/2 } D19 68°F .20	
										098 6 1/2 } .28	reduce 12h 5-1

175: Visitors 2 tours

Date SAT/Sun 16/12 Oct 1976 Observer Bln-Ri Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions

176

[illegible]

IIA D-E 29115-11106
IIA J-E 0375-13106
127-05-E 00095-14106

Dome Temp
Focus
Dome Temp

Hour	Angle	End
04	90W	
04	90W	
04	06E	
04	54E	
04	56W	

Dome Temp.

Focus 70R

Dome Temp.

75%

Transparency Conditions good after second day

778

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
16		01 ^h 00 ^m W	+45°05'		2.84	B9.5V	^{no filter} 8-8-8 H ₂ Exp B ₁	40/101		UV filter in some clouds	exposed Box #7 7 fine
44	C	04 ^h 30 ^m W			2.84	B9.5V	^{no filter} 8-8-8	"	40/100	UV filter in	exposed Box #7 fine
45	A	00 ^h 06 ^m E	+41°24'	3	7.26	08V	8-8-8 Sp B ₁ - B ₂	400/160			exposed Box #3 fine
33	B	00 ^h 54 ^m E	+39°58'		2.71	B0.5V	^{no filter} 10-10-10 Sp B ₁ - B ₂	40/224		R.H.S. of Box	" " 3 fine evening material
25	C	01 ^h 56 ^m W	+48°05'		7.80	B7V	8-8-8 Exp. B ₁ - B ₂	800/220		clouds	" " 3 exp f. a not guided to edge
										R.H.S.	" " 3
											" " 3
										II a 0 10 ^m	.20
										127 6 1/2 ^m	D19 68°F .20
										II a J 5 ^m	.25

Many visitors 2 tours - 2.5 hrs

Date Oct 23/24 1976 Sat/Su Observer Bl-Fr Julian Day _____

[illegible]

Transparency Conditions

180

Dome Temp.

[illegible]

781

Παο-ε 28115-11106

Date OCT 25/26 MON/TUES 76 Observer

Julian Day.

[illegible]

Dome Temp. 30°F H=998

Focus 70-R

Dome Temp. cold 88%

Transparency Conditions Hazy - Cloud

Very good from 0^h → 6^h

182

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
58	A	03 30W	+20 28	3"	~7	Em	no filter 3-26	Nov 9	200/13	T.H. 496	weak
41	C	04 53W	"	"	"	"	no filter 3-3-4	"	800/45	" 7B	sl. wh
6	A	1 44W	+16 03	4-5"	5.80	B8	9-9-9	A _p MR	400/140		fine
7	B	3 26W	+43 28	3-4'	6.7	A2	9-9-9	A _m MR	400/160		fine
7	C	1 53W	+15 53	3-4	7.16	B9	7-8-7	A _p MR	400/152		fine
										1120 10 ^m 098 6 ^m	} D12 67.5 F

Pg #1
183

089-01-E 23026-30096
IIIa-e 03075-13106
IIa0-e 28115-11106

Date Oct 26/27 Tues/Wed Observer Str-Tn/Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40944	Nova Vul 1976	19 28.4	+20 27	G16	089-01-E	13/5	33°F	17.59	19 15	A	151
40944T	Calc step wedge for 40944-55				" 15 min @		7.5 V	D3 D2 D1 5100 5450 Hx			
40945	Nova Vul 1976	19 28.4	+20 27	G16	"	13/5		19 16	19 31	B	27W
40946	"	"	"	"	"	"		19 32	19 47	C	223W
40947	"	"	"	"	"	"		19 52	20 09	A	246W
40948	"	"	"	"	"	"		20 12	20 26	B	302W
40949	"	"	"	"	"	"		20 29	20 41	C	378W
40950	"	"	"	"	"	"		20 44	20 57	A	333W
40951	"	"	"	"	"	"		21 2	21 17	B	353W
40952	"	"	"	"	"	"		21 23	21 40	C	478W
40953	"	"	"	"	"	"		21 42	21 59	A	435W
40954	"	"	"	"	"	"		22 00	22 16	C	452W
40955	"	"	"	"	"	"		22 17	22 27	B	53W
40956	HD 24760	3 51.1	+39 43	G8	IIIa-e	9/9		22 49	23 19	C	233E
40956T	Calc for 40956.62				"	180 sec					
40957	HD 14633	2 16.7	+41 02	G12	IIa0-e	13/5		23 29	0 40	A	022W

Dome Temp. *very cold!!* 60°HFocus *70-R*

Dome Temp.

Transparency Conditions *Very Good - Excellent*

139

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
151 W	+20 27	3"	<i>7.7</i>	<i>HLEm</i>	<i>no filter</i> 3-3-3	<i>Nova</i>	400/112	<i>Tilt 7B</i> Almost as bright as HD 183537 V=6.32	<i>ble at</i> Sodium D
2 7 W					3-3-3		400/22	} Exp meter noticeably out weaker than indicated	OK at Hd
2 23 W					3-3-3		400/19		"
2-46 W					3-3-3	"	400/20		
3 02 W		2"-3"			3-3-3	"	400/19	* G16 Grating may not have been perfectly set for	
3 18 W					3-3-3	"	400/18		
3 33 W					3-5	"	400/19	<i>if forgotten</i> 40944-55	
3 53 W					4-4	"	400/19	* All 098-01 plates in Red Box #2 [127 caln in at very front of same	
4 76 W					4-4	"	400/18		
4 35 W					4-4		400/18	* 127 spectra in middle of Blue Box Lost 098 plate too.	
4 52 W					4-4		400/16		
5 3 W					4-4		400/19		
2 33 E	+39 58	2"	2.71	605 V	<i>no filter</i> 10-10-10	Sp Blk - T ₉	400/190	* Had Trouble changing Tilt & found that Grating was jammed -	v sl str
					both 40956 & 56T at RHS box			" caught on a rough edge &	
0 22 W	+41.25	2"-3"	7.26	08 V	8-8-8	Sp Lin-Blk	400/140	may have been "twisted" for G16 Exposure	tilt

127-05-E 00095- 14106

Observer.....Tay

Julian Day

[illegible]

Dome Temp.

186

[illegible]

pg #1
187

098-01-E 23026-27106
III a J-e 03075-13106
127-05-E 00095-14106

Date Oct 27/28 Wed-Thurs Observer Tn / 2d Wd - Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40964	Nova Va / "76"	19 28.4	+20 27	G16	098-01-E	131.5		19 40	19 55	A	2 35 W
40965	"							20 00	20 17	B	2 57 W
40966	"							20 21	20 37	C	3 17 W
40967	"							20 44	21 3	A	3 43 W
40968	"							21 8	21 28	B	4 8 W
40969	"							21 33	21 51	C	4 31 W
40970	"							21 55	22 8	A	4 48 W
40971	"							22 9	22 22	B	5 2 W
40972	"							22 32	22 46	C	5 26 W
40972 T	Coln step wedge for 40964-72				"	15min @ 7.5V		D3 5100 D2 5450 D1 Hx			
40973	HD 24760	3 51.1	+39 43	G8	III a J-e	9/19		0 25	0 45	A	1 25 E
40973 T	Coln for 40973				"	180sec					
40974	HD 19536	3 ^h 01.7	+40° 34'	G16	127-05-E	9/1.5		01 15	1 32	B	0 34 W
40975	"	"	"	"	"	"		01 42	1 55	C	0 57 W
40975 T	Coln step wedge for 40974-78				"	15min @ 7.5V		D4 5100 D3 5450 D2 Hx			
40976	HD 19536	3 ^h 01.7	+40° 34'	G16	127-05-E	9/1.5		02 02	02 26	A	1 28 W

Dome Temp. *Collo 9.4 H=807*Focus *70-R*

Dome Temp.

Transparency Conditions

Closing by 19^h w s/ haze

183

ng Time S.T.	P.A.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
55	A	2 35 W	+20 27	3-4	<i>5.5</i>	<i>Em Hk</i>	<i>no filter</i> 4-4	<i>None</i>	400/18	Tilt 7B UV Filter in	OK at Hk sl. w/
17	B	2 57 W		2-3			4-4		400/18	still as bright as	OK at Hk
37	C	3 17 W					4-4		400/17	last night - i.e. s/ filter	
3	A	3 43 W		2"			4-4		400/17	then HD183537 of V=6.32	
28	B	4 8 W					4-4		400/18		
51	C	4 31 W					4-4		400/17		
8	A	4 48 W					4-4		400/10	cloud	
22	B	5 2 W					4-4		400/9		very narrow
46	C	5 26 W	+20 24				4-4		400/6	reversed then real cloud	very narrow
45	A	1 2 E	+39 59	1.2"	2.7	B05 V	10-7-7	Sp Rln-Tn	40/160	RHS Blue box RHS Blue box	fine
32	B	0 34 W	+40 55		2.2v	B8 I	<i>no filter</i> 8-7-7	2d-algal	40/110	LHS "	sl. str.
55	C	0 57 W			"	"	8-7-7	"	40/64	LHS "	exp. fine guide uneven
26	A	1 28 W	+40 55	2"	2.2v	B8 I	<i>no filter</i> 8-7	2d-algal	40/88	Front of Red Box (like yesterday) LHS Blue box clouds	labeled 77 fine

Date... Oct 27/28

Observer Zd-Wbl-In

Julian Day

[illegible]

Transparency Conditions

190

Dome Temp. 99 1/8

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
56	C	+158W	+40°55'	2"	2.2v	B8.7	^{not seen} 8-7-7	Ed-angel	40/132	(Label H)	sl. strong
61	A	+248W	"	"	"	"	8-7-7	"	40/78	intermittent clouds	fine
										Ø98 7 ^m } 127 6 ^m } D19 68°F IIIa5 4 1/2 ^m }	

pg #1
197

127-05-E 00095-14106 IIo0e 28115-27106
098-01E 23026-27106
IIa1-e 03075-28106

Date 1976 Oct 28-29 Thurs-Fri Observer Bln-Tn/Tn Julian 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.
40979	Novae Vul '76'	19 28.4	+20 27	G16	127-05-E	13/1.5	34°F	17 47	18 54	A
40980	" "	"	"	"	098-E	20/1.5		18 37	18 57	C
40981	" "	"	"	"	"	20/1.5		19 00	19 16	A
40982	" "	"	"	"	127-05-E	20/1.5		19 20	20 20	B
40982T	Coln step wedge for 40979, 82, 83				"	15 min @ 7.5V		D4 5100 D3 5450 D2 Hx		
40983	" "	"	"	"	"	20/3		20 21	21 20	C
40984	" "	"	"	"	098-E	20/1.5		21 21	21 44	B
40985	" "	"	"	"	"	"		21 44	22 12	A
40985T	Coln step wedge for 40980-81, 84-85				"	15 min @ 7.5V		D3 5100 D2 5450 D1 Hx		
40986	HD 24760	3 51.1	+39 43	G8	IIa1-e	9/1.9	36°F	22 24	23 35	B
40986T1	Coln step wedge for 40986, 89				"	15 min @ 15V		D3 4100 D4 4300 D4 4800		
40986T2	Coln for 40986, 89				"	180sec				
40987	HD 14633	62 16.7	+41 02	G12	IIa-0-E	13/1.5		23 43	1 8	C
40987T	Coln for 40987, 88				"	90sec				
40988	HD 27192	4 12.6	+50 41	G12	"	13/1.9		1 11	3 39	A
40989	HD 24760	3 51.1	+39 43	G8	IIa1-e	9/1.9		3 50	4 25	B

18/5-27/06

Dome Temp. *Warmer* H=70°

Focus *70-R*

Dome Temp.

4 50
2 9
2

Transparency Conditions *Fine* s/haze *occasional cloud* 192

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
4	A	21 18 W	+20 25	2-3	N7	EmHx	no filter 8-20	Nova	400/45	LHS of Red Exp Box Broken 4 pcs!	
57	C	01 40 W				Nova	No Filter 3-5	Nova	400/20	cloud RHS Red Box	ok.
16	A	02 00 W				Nova	3-3	Nova	400/18	RHS	fine
20	R	03 04 W		2-3		Nova	8-8-8	Nova	400/59	Probably blank - Plate not uncapped? LHS	Blank
D2										Front of Red Box. <i>Same conversion</i>	
20	C	4 04 W				"	8-8-	"	400/44	LHS	ok, guide unknown
44	B	4 28 W		5-8"			4-2	"	400/18	RHS	
12	A	4 55 W		3-5"			3-3	"	400/20	RHS	
35	B	02 09 E	+39 56	3-4"	2.71	B05 I	no filter 8-9-8	Sp Bin-Tn	40/150	* cloud 22' 40" RHS Blue Box. Tilt 2 turn below	ruined in darkroom
04										* Stored at very back of Red Box [next to stellar plates] (stored in N ² for 1st Time but only vacuum for 4 hrs)	4100 Wk, use diaphragm 4
8	C	1 0 W	+41 22	2-4"	7.26	082	8-8-8	Sp Bin-Blu	400/140	LHS Blue Box	fine
										LHS "	
39	A	1 34 W	+50 51	3-4	5.5	B3	8-8-8	SB2-Lne	200/130	LHS " cloud Thick	guide unknown
25	B	2 41 W	+39 55	2-3	2.71	B05 I	no filter 8-8-8	Sp Bin-Tn	200/300 40/76	LHS "	in passing fine

193

Date... Oct 28/29.

...F...F...

Observer... *TJ*

Julian Day

[illegible]

Dome Temp.

Transparency Conditions

Focus

Dome Temp.

H=8070

194

Push, pay ask
Bln first

Time UT	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
15	C	1.39 E	+20 26	2.8"	7.2	165 +A2	11-12-5	VB Bln	400/140	connected again middle Blue BOX	
										Am I going nuts. Somethings scratching at the walls.	
										Karl	
										*Make sure you get all red plates out of Box. One broken plate is 098 near the RHS seems stuck about 1" down.	
										Real wigly boxes eh?	
										*Make sure we get lots of 098 & 127 OK	

40990 & T

12"

other 120

10"

1125

098

127

6 1/2"

D19 68°F

1915

098-E04266 -10296

IIIaJ-e 03075-28106

IIa0-e 28115-11106

Date Oct 29-30 Fri-Sat 76 Observer W. T. Tn

Julian Day

Plate No.	Object	R.A. 1900 76	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40991	Nov Vul "76"	19 28.4	+20° 27'	G16	098-E	13/.5		21:12	21:40	A	428
40991 T	Calh Step wedge for 40991				"	15min @	7.5V	D3 5100	D2 5950	D2 HX	
40992	HD 24760	3 ^h 51 ^m .1	+39° 43'	G8	IIIaJ-e	9/.9		21:47	22 41	C	30E
40992 T	Calh Step wedge for 40992				"	15min @ 15V		D4 4100	D4 4300	D4 4810	
40993	HD 14633	02 ^h 16 ^m .7	41° 02'	G12	IIa0-e	13/.5	4.1F	22:57	0 9	B	0 5W
40993 T1	Calh for 40993, 9A.				"	90sec					
40993 T2	Calh step wedge for 40991				098-E	15min @ 7.5V		D3 5100	D2 5950	D1 HX	
40994	HD 27192	4 12.6	+50 41	G12	IIa0-e	13/.9		0 14	1 15	A	0 45E

Dome Temp.

Transparency Conditions *hazy - cloudy*

196

[illegible]

pg #1
10/7

098-E 04266-10296
Ma-J-e 03075-28106

Date Oct 31 - Nov 1 Sun - Mon 76. Observer Th. Julian Day

Plate No.	Object	R.A. 1900 76	Declination 1900 76	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
40995	Nova Vul 76	19 28.4	+20 27	G16	098-E	13/1.5	40°F	17 49	18 1	A	053V
40996	"	"	"	"	"	"		18 4	18 27	B	122V
40997	"	"	"	"	"	"		18 34	18 53	C	148V
40998	"	"	"	"	"	"		18 57	19 15	A	291V
40999	"	"	"	"	"	"		19 22	19 40	B	235V
41000	"	"	"	"	"	20/1.5		19 41	19 51	C	246V
41001	"	"	"	"	"	"		20 21	20 52	A	347V
41002	"	"	"	"	"	"		20 52	21 9	B	44W
41003	"	"	"	"	"	"		21 11	21 29	C	424V
41004	"	"	"	"	"	"		21 33	21 47	A	442V
41005	"	"	"	"	"	"		21 48	22 5	C	51W
41005T	Calc step w/lyc for 40995-41008				"	15 min @ 75V		D3 5100	D2 5450	D1 Hα	
41006	Nova Vul	19 28.4 ⁷⁶	+20 27 ⁷⁶	G16	"	20/1.5		22 15	22 32	A	527V
41007	"	"	"	"	"	"		22 33	22 55	C	550V
41008	"	"	"	"	"	"		23 11	23 25	A	620W
41009	HD 24760	3 51.1	+39 43	G8	Ma-J-e	9/1.9		23 44	0 3	B	129E

Dome Temp. 50.1 H=813

Focus 70-R

Dome Temp.

HD 175426

1900

1850.2

36.58

Transparency Conditions some thin cloud but Good

198

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1	A	56 W	+20 28	2-3"	V ≈ 6-8	En Ha	4-4	Mova	400/20	Tilt. 7 UV filtering	unclear
27	B	22 W	"	"	"	"	4-4	"	400/18		fine
53	C	48 W	"	2"	"	"	4-4	"	400/18		fine
15	A	9 W	"	21	"	"	4-4	"	400/17	cloud coming	unclear
40	B	35 W	"	"	"	"	4-4	"	400/14	✓	unclear
51	C	46 W	"	23"	"	"	3-3	"	400/13	cloud	fine
52	A	347 W	"	3"	"	"	3-3	"	800/30	thru cloud / begin Time approx because of cloud	vs. wk
9	B	4 W	+20 29	4	"	"	3-3	"	800/33		fine
29	C	424 W	"	2-4"	"	"	3-3	"	800/35	No TV - outdoor gardening	fine
47	A	442 W	"	3-4	"	"	3-3	"	800/34	TV OK again	"
5	C	51 W	"	"	"	"	3-3	"	800/37	"	"
DI Ha											
232	A	527 W	+20 26	3"	"	"	3-3	"	800/35	reversed	
55	C	550 W	"	"	"	"	3-3	"	800/34	"	
25	A	520 W	"	"	"	"	3-3	"	800/32	" last 098 photo too	
3	B	129 E		1.2"			10/11/01 3-9-9	"	40/150	RHS	fine

IIa) * "utility grade" kept in N^2 since 2^1 -

Date cont Oct 31 - Nov 1

Observer Tn-B/h/Tn

Julian Day

[illegible]

Dome Temp. *H=77*

Transparency Conditions *Photometric* since 23⁰⁰

[illegible]

098-E 04266-01116

Παο-ε 28115-27106

Waj-c 03075-01116

But-Tn-Tms

Date MON/TUES NOV 1/2 76 Observer But-In-Tms Julian Day

Julian Day

[illegible]

Dome Temp. *cool* *H=887*

Photometric 2nd half

202

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
25	A	01 24W	+20 27	2'	^{5.71/10} ~ 6.8	E ₁₁ H ₂	4-3	NOVA	400/31	UV Filter in	sl. strong?
39	B	1 37W		1.2"			3-3		400/23		excellent
55	C	1 53W					4-4		400/18		fine
07	A	22 06W					4-4		400/18		fine
248	A	4 3W	+30 50	1.2"	7.56	B9	8-8-8	Ap-MR	400/180	UV out	fine
28	B	0 42W	+16 02	3"	5.8	B8	8-8-8	Ap MR	400/150		fine
51	C	0 37W	+43 27	1.2"	6.7	A2	9-9-9	A _m -MR	400/181		fine
24	A	1 12W	+28 38	1.2	6.87	B9	9-9-9	Ap-MR	400/180		fine
43	B	3 24W	+44 12	1"	8.0	A0	8-8-8	A _p MR	400/180	broken (lpc saved)	fine
09	A	4 42 W	+31 58	1"	2.71	B0.5E	^{no filter} 10-110	SPB ₁₁ -TA	40/98	Cloud with dawn	fine
										II ₂₀ 10 ^m	
										III ₂₅ 7 ^m	
										098 5 ^m	
										D19 68°F	

Date Nov 3/4/76 Wed/Thurs Observer Ri // 2d-WLD-Ri Julian Day 2444113

[illegible]

Dome Temp. 90°

Transparency Conditions

lazy with some cirrus
clouds after 21:30

207

2330

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
12	A	01 ^h 50W	+ 20°28	3		F ₄₄	^{no filter} 2-2-2	UVA	800/35	UV filter in LHS	fine
18	B	02 ^h 25W				"	2-2-2	"	800/35	LHS	ok
17	C	02 ^h 55W				"	3-3-3	"	800/35	LHS	guiding
19	D	03 ^h 28W				"	3-3-3	"	800/36	LHS	guiding
23	E	04 ^h 01W					3-3-3		800/36	LHS	fine
40	C	04 ^h 49W					3-3-3		800/33	Back of Box 2	
45	F	02 ^h 34E	+39°47	2	2.71	B0.5V	^{no filter} 10/10-10	Sp Bl-PR	40/103	circus cloud inside exposure LHS	fine
27	B	01 ^h 03E	+40°53	2	2.2- 3.5	B8V	^{no filter} 8-7-7	2d. Absol	40/90	RHS	fine
54	C	00 ^h 24W	"	"	"	"	8-7-7	"	40/73	clouded in	fine
22										front of Box 2	

Date Nov 8/9 MON/TUE Observer R: But Julian Day 2454910.5

[illegible]

Dome Temp.

Transparency Conditions

206

[illegible]

* EST had to be reset
 & may be off $\pm 1-2$ min

Date NOV 10/11 Wed-Thurs Observer Ed-Jr Wbl/Tn Julian 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.
41036	H D 19536	3 ^h 01 ^m .7	+40° 34'	G 16	127-DS-E	9/.5	33°F	23 07	23 25	A
41037								23 29	23 43	B
41038								0 10	0 26	C
41039								0 30	0 45	D
41040								01 00	01 12	A
41041								01 15	1 32	B
41042								1 34	1 48	/A
41043								1 51	2 3	B
41044								2 11	2 24	C
41045								2 32	2 44	A
41046								2 49	3 00	B
41047								3 4	3 16	C
41047T	Cal'n step wedge for 41036-47				127-DS-E	15 min @ f.5V		D4 5100	D3 5450	D2 Hx

Dome Temp. *cold H=90%*

Focus *90-R*

Dome Temp. *H=89%*

Transparency Conditions *Clearing by 2.3 hr.*

occasional cloud but very good

208

Time T. #	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
25	A	0 38 E	+40° 56' 5	3"	2.2V	B8V	^{no filter} 8-7-7	2d-Algol	40/85	¹⁸ UV Filter in - Tilt 0.7 B	v sl. str
43	B	0 20 E	"	"	"	"	8-7-7	"	40/84	¹⁴	"
26	C	0 24 W	"	"	"	"	8-7-7	"	40/87	¹⁶	"
45	B	0 43 W	"	"	"	"	8-7-7	"	40/83	¹⁵ *Kar/ - we need more	"
12	A	1 10 W	"	"	"	"	8-7-7	"	40/80	¹² 127 s in Vac but prob	"
32	A	1 30 W	"	"	"	"	8-7-7	"	40/88	¹⁷ not till next Wed	"
48	A	1 46 W	"	2-3	"	"	7-8-7	"	40/90	¹⁴ (check it out may be)	"
3	B	2 1 W	"	"	"	"	7-8-7	"	40/77	¹² (2 more left)	"
24	C	2 22 W	"	"	"	"	7-8-7	"	40/77	¹³ Approaching Maximum	"
44	A	2 42 W	+40 47.0	"	"	"	7-8-7	"	40/74	¹² Prob max at 6 ^h approx	"
00	B	2 58 W	"	"	"	"	7-15	"	40/70	¹¹	"
16	C	3 14 W	"	"	"	"	7-8-7	"	40/75	clouds snow approaching to	"
(* Calc done in dark room in main bld.) Higher Temp & Lower H than Dome											
										6 ^m D 19 67°F	

III a J-e 03075 - 01116

$\pi_{00} = 28115 \quad 02116$

Date Nov. 11-12 / Thurs.-Fri. 1976 Observer Bl. Tr. / Tr. Julian Day 2444111.5

[illegible]

III. J. e 03075-01116

Dome Temp.

Focus

Dome Tern

Hour Angle

End

Dome Temp. $H = 95.5$

Focus 90-R

Dome Temp.

Transparency Conditions

Transparency Conditions semi clear

212

[illegible]

213

IIIa-J-E 03075 -11116

098-E 04266 -01116

Date Nov. 13-14 Sat-Sun 1976 Observer Tn / Bln-Th Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41060	HD 11443	1 47.4	+39 43	G8	IIIa-J-E	9/5	35°F	17 26	18 36	A	4 1
41060T	Calc for 41060, 63-66, 68-70,				"	180sec					
41061	Nova Vul 36"	19 28.4	+20 27	G16	098-E	20/5		18 47	19 15	B	3 2
41062	"	"	"	"	"	"		19 18	19 44	C	3 31
41062T	Calc step wedge for 41061-62, 67, 71				"	15 min @ 7.5V		D3 5100	D2 5450	D1 Hd	
41063	HD 24760	3 51.1	+39 43	G8	IIIa-J-E	9/9	35°F	19 55	20 16	A	4 25
41064	HD 33328	5 4.4	-8 47	G12	"	13/7		21 28	22 50	B	3 2
41065	HD 33328	05 ^H 04.4	-8° 47'	G12	IIIa-J-E	13/7		22 52	23 44	C	02 08
41066	HD 33328	05 ^H 04.4	-8° 47'	G12	IIIa-J-E	13/7		23 49	0 39	A	01 13
41067	HD 33328	05 04.4	-8 47	G16	098-E	13/7	34°F	0 44	1 5	B	0 47
41068	HD 33328	05 04.4	-8 47	G12	IIIa-J-E	13/7		1 11	1 48	C	0 4
41069	HD 33328	05 04.4	-8 47	"	"	13/7		1 52	2 31	A	0 38
41070	HD 33328	05 04.4	-8 47	"	"	13/7		2 32	3 11	B	1 19
41071	HD 33328	05 04.4	-8 47	G16	098-E	13/7		3 19	3 54	C	2 01

Dome Temp.

Transparency Conditions

Transparency Conditions Photometric till 2nd very gusty 214

[illegible]

Шаб-е 28115-02116
Шаб-е 03075-11116

Dome Tern
Focus
Dome Tern

[illegible]

Dome Temp. ... 50.1 / 99/8

Transparency Conditions very hazy - the better

[illegible]

Dome Temp.

some cloud by 3^4

218

ng Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
42	-	3 04W	+47 54	2"	7.50	A0	8-8-8	Ap-MR	400/185	RA should be read off 23' 00.8 23' 00.26	fine
53	B	2 40E	+42 25	2"	6.61	"	8-9-8	"	400/180	6 ⁿ 57.3 6 ⁿ 59.627	fine
26	C	1 01 W	+44 03	3-1"	7.51	A1	8-8-8	Am-MR	400/180	around 4" 10"E reading → shattered plate 5 48.7	6 55.023 6 54.528 fine
01	B	2 09 W	+33 41	1"	5.82 6.49	Ap	8-8-8	Ecl/Bi-B/Ln	400/170	5 16.8 5 12.93.9	fine
24	A	1.51 W	+42 24	.	6.61	A0	8-8-8	Ap MR	400/180	6 57.3 6 52.7	9.6 fine
35	B	3 58 W	+19 45	2"	5.04	B9III	no filter 6-7-7	SB B/Ln	200/267	RHS 6 02.1 5 56.1	6-0
										RHS	
		.19	HαO	8"	} Dig 69°E						
		.16	M25	4 1/2"							
										*Note 3 small pieces of π 91085 saved. guess you should dig for em. will it be useful? Karl - more than need be cats evacuated.	

219
pg #1

098-E 04266-13116

II-o-e 28115-15116

III-a-e 03075-16116

Date Nov 16-17 Tues-Wed 1976 Observer Tn-Ly/Tn Julian Day

Plate No.	Object	R.A. 1900 1976	Declination 1900 1976	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	How Angle End
41089	Nova Vul 76	19 28.4	+20 27	G16	098-E	20/5	35°F	17 31	17 58	A	156W
41090	"	"	"	"	"	"		17 59	19 11	B	309W
41090T	Calc step wedge for 41089-90				"	15 min @ 7.5V		D3 5100 D2 5450 D1 HX			done
41091	HD 11443	01 47.4	+29 06	G8	II-o-e	9/5	37°F	19 21	19 35	C	249E
41091T	Calc for 41091, 94-96, 98-99, 41102				"	90sec					
41092	HD 24760	03 51.1	+39 43	G8	III-a-e	9/9		19 41	20 03	A	425E
41092T	Calc for 41092-93, 97, 41100-01				"	180sec					
41093	λ And	23 32.7	+45° 55'	G8	"	9/5		20 22	21 30	B	119W
41094	AD 11443	01 47.4	+29 06	"	II-o-e	"		21 38	21 49	A	035E
41095	AD 26571	04 07.0	+22 09	G12	"	"		22 03	23 27	B	117E
41096	HD 11443	01 47.4	+29 06	G8	"	"	34°F	23 34	23 48	C	124W
41097	HD 24760	03 51.1	+39 43	"	III-a-e	9/9		23 53	00 8	A	021E
41098	HD 14633	02 16.7	+41 02	G12	II-o-e	13/5		0 27	01 55	B	301W
41098T1	Strip calc for 41089-90				098-E			4 min			
41098T2	" " "	" " "	" " "		098-E			2 min			
41099	HD 27192	04 12.6	+50 41	G12	II-o-e	13/9		1 58	2 26	C	135W

Dome Temp. *overcast H=50%*Transparency Conditions *Excellent* *s.l. Haze developing*Focus *75-P*

Dome Temp.

ng Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
58		1 56 W	+20 31	1"-2"	V ² 8.5	v red Hα Em	no filter 2-2-3	Nova "76"	400/30	UV Filter in <i>2 should be a read diff</i> 19 28.4 19 27.7	fine comp sl. str.
11 B		3 09 W		2"	"	"	3-2-2	"	400/70	"	fine for cont'n
D1 Hd		done in main bld darkroom									
35 C		2 49 E	+29 34	1.2"	V ² 3.53	F6 IV	Filter in 11-11-11	Sp Bin - Ly	40/33	α Tri LHS 1 51.4 1 51.1	sl str sl wt emul. abraded?
										LHS	
03 A		4 25 E	+40 03	1.2"	2.71	B05 V	no filter 11-11-11	Sp Bin - T ₂	40/100	ε Per RHS 3 56.3 3 54.6	9th sl wt
										RHS	fine
30 B		1 19 W	+	2"	V=3.75	G8 II	11-11-11	Call Bin - Ly	40/140	RHS 23 36.4 23 33.7	Fine
49 A		0 35 E	+29 33	2-3	V=3.53	F6 IV	Filter in 11-11-11	Sp Bin - Ly	40/31	LHS 1 51.4 1 28.0	sl. str.
27 B		1 17 E	+22 27	2"	6.11	B8	7-7-7	Ap - MR	400/170	LHS	fine
48 C		1 24 W		2-3	V=	F6 IV	Filter in 11-11-11	Sp Bin - Ly	40/31	LHS	RA set system
8 A		0 21 E	+40 02	"	2.71	B05 V	no filter 11-11-11	Sp Bin - T ₂	40/100	RHS	From new em
55 B		3 01 W	+41 29	2"	7.26	O8 V	Filter in 7-7-7	Sp Bin - B ₁	400/155	LHS	re-set ST too
		Taken from side facing possible fog source									
		Taken from opposite side of fog source									
		41089-41090T not exposed to possible fog source									
26 C		1 35 W	+50 58	1"	5.5	B2 IV	7-7-7	S62 - Lnc	200/130	LHS	v. sl. str.

Date Nov 16-17 cont.

Observer.....14

Julian Day

[illegible]

Dome Temp.

222

[illegible]

IIa 0-e 28115-15116
IIa J-e 03075-16116

Dome Temp
Focus
Dome Temp

Hour Angle	End
2 39W	
1 05W	

Dome Temp. cool H=90%

Focus 75-R

Dome Temp.

Transparency Conditions Clear - some cloud, High winds 224

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS α correct α read	Quality
59	A	2 39W	+29 32	2-3	$V = 3.53$	F6IV	Filter in 11-11-11	SpBin-Ly	40/28	LHS 1 51.4 1 52.8-14	fin
30	P	1 05W	+40 00	1-2"	2.71	B0.5V	no Filter 11-11-10	SpBin-Tn	40/105	Somewhat RHS 3 563 3 573-10	spotty - Pin 5/7/27

Tab-e 28115-15116
Tab-e 03075-16116

Mal-e 03075-16116

Dome Temp
Focus 7
Dome Temp

Hour Angle
End

219 W

048 W

console

0192 E

} n

+1

00 00 26

00 42 W

02 09 W

00 05 V

01 00 E

note * C_0 aff C_0

Dome Temp. H=927

Transparency Conditions

clear by 23^h
very hazy

226

[illegible]

Date Nov 19-20 Fri - Sat

Observer.

Julian Day.

[illegible]

Transparency Conditions

Dome Temp.

228

[illegible]

II_a0-e 28115-15116

Dome Terr

Focus

Dome Ter

Hour Angle

End

Dome Temp.

Transparency Conditions *Clear - Cloudy - s/snowy*

[illegible]

IIaO-E 28115-15116

Dome Terr
Focus
Dome Terr

Hour Angle
End

Dome Temp. ^{app 10°F} 74%

Focus 100-B

Dome Temp. <sup>very
cold</sup> 89%

Transparency Conditions ^{good - very windy}
poor seeing

232

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
55	A	04 17W	+46°47'	4.8"	7.39	A0	8-8-8	A _p MR	800/361		fine
42	B	02 16W		3"	7.17	B9	8-8-8	"	800/360	(v. windy)	fine
43	C	01 30W	+27°50'		7.26	A3	8-8-8	A _m - MR	800/360		fine
44	A	01 38W	+58°19'		6.96	A2	8-8-8	A _m - MR	800/360		fine
46	B	01 54W	+02°25'		3.82	B9.5 _p	8-8-	Sp - Bui-Bh	40/28		fine
										D19 10 ^m at 68°F fog =	

233

ITaJ-E 03075-16116
098-01 04226-13116

ITaO-E 28115-19116

Date Nov 30/Dec 1 1976 (Tues/Wed) Observer Ri/Ly/BB///Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41117	HD 209813 (HK Lac)	22 ^h 01.0	+46° 45'	G16	098-02	13/5	20°F	17:36	19:58	A	2 ^h 17
41118	HD 222107 (A And)	23 ^h 32.7	+45° 55'	"	"	"		20:02	20:14	B	1 ^h 0
41119	HD 216489 (HR 8703)	22 ^h 48.2	+16° 19'	"	"	"		20:19	21:23	C	2 ^h 53
41120	HD 33328	05 ^h 04.4	-08° 53'	G-12	ITaJ-E	13/7	18°F	21:39	22:31	A	2 ^h 5
41120T1	cal step wedge	In plate 41120			ITaJ-E	90 sec					
41120T2	cal -	41117-41119			098-02		D3 5100	02 5430	15 m 27.5V		plate
41121	HD 33328	05 ^h 04.4	-08° 53'	G-12	ITaJ-E	13/7	18°F	00:55	01:35	A	2 ^h 50
41122	"	"	"	"	"	"		01:41	02:22	B	2 ^h 39
41122T1	cal step wedge	In plate 41121-41123			ITaJ-E	180 sec					
41123	HD 33328	05 ^h 04.4	-08° 53'	G-12	ITaJ-E	13/7		02:35	03:22	C	2 ^h 56
41124	HD 416516	06 ^h 28 ^m 48 ^s	+19° 30'	G-12	ITaO-E	13/5		03:33	05:05	A	0 ^h 56
41125	HD 934131	10 ^h 42 ^m 06 ^s	+6° 52'	G-12	ITaO-E	13/5	140°F	05:14	06:47	B	0 ^h 52
41125T1	cal step wedge	In plate 41124, 25			ITaO-E	90 sec					

Dome Temp.

Good

234

Time UT	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
58	A	02 ^h 17W	+47°8'0	3"	6.75	KO III	No Filter 3-3-3	BB/Ly RSCVn Program	400/170		sl str
4	B	1 ^h 01 W	+46°21.2		3.75	G8 III	3-3-3	"	200/85		sl str
3	C	2 ^h 53 W	+16°44.4	.	5.69	k1 III	3-3-3	"	400/170		sl str
31	A	2 ^h 15 E	-8°44.9		4.07	B2 IV	6-12	Sp Bin-Bln	80/71	many RHS intermittent clouds **push + snow - P.H.S. please	wiz, high dev for guiding
47		done in darkroom in main building									Ligno struck
35	A	00 ^h 50W	-08°44'	3-4	4.07	B2 IV	No filter 6-6-6	Sp Bin-Bln	80/140	Middle of Box	
22	E	01 ^h 39W	"	"	"	"	6-6-6	"	80/142	" "	
22	C	02 ^h 38W			4.07	B2 IV	6-6-6	Sp Bin-Bln	80/140	" "	fine
05	A	02 ^h 56W	+19°29'	2-3	6.88	A0	8-8-8	Sp Bin-Bln	800/300		fine
47	B	00 ^h 25W	+06°31	2-3	7.07	A2	8-8-8	"	800/300	lens coming up from the S.W.	
			Iso 10 ^m 4112017 7 ^m others 41 ^m				all 1025				

235

098-01-E 04226 -13116
Wal-e 03075 -16116

Date Dec 2/3 Thurs-Fri 1976 Observer Tm

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41126	HD11443	01 47.4	+29 06	G16	098-01-E	9/1.5	14°F	17 29	17 55	A	325
41126T	Col's stym for 41126-28	no 4x5 plates			"	100sec	stop col'n -	exp based on 41098T1072			
41127	Nova Val 76	19 25.1	+20 17	G16	"	20/1.5		18 08	19 17	B	419
41128	HD11443	01 47.4	+29 06	"	"	9/1.5		19 25	19 44	A	136E
41129	HD24760	03 51.1	+39 43	G8	Wal-e	9/1.7		19 53	20 25	B	302E
41129T	Col for 41129				"	180sec					
41129TA	(Test For anomalous Fe arc on spectra area)			G8	Wal-e	9/1.7				A	
B	"	"		G8	"	9/1.5				B	
C	"	"		G8	"	9/1.9				A	
X	"	"		G8	"	9/1.9	Slit head shielded from Fe arc			B	
41130	HD33328	05 04.4	-8 53	G12	"	13/1.7	11°F	21 10	22 32	B	0204E
					III 25	4" D19	68°F				
					098-01	4" "	"				

Excellent - snow to the north
& very gusty
(Tending to stay away from wind)

[illegible]

Doc-E 28115-1916

Dome Ter

End

Dome Temp. *noted H=90°*Focus *100-Box OR*

Dome Temp.

Transparency Conditions *Good - s/mist*

238

Nova still 2nd brightest in fld

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
41	A	3 55 W	+20 30	2"	$V=9$	H ₂ Em	<i>no filter</i> 2-2-2	<i>UV Filter</i> (Nova) in	800/43	(still some sky) broken 2pc saved	Ad fine cont. vol.
38	C	1 02 W	+ —	2.3"	$V=8.07$	M2V	<i>Wr 8 filter</i> 1-2-1	Astron-Spec KK	800/20	Grm 34A Wr 8 filter in front of slit	sl. sm
40	B	1 22 W	+54 53	1.2"	5.81	G5V	7-8-8	Astron-Spec KK	200/155		fine
15	C	1 37 W		2"	4.50	A7V	8-16	Astron-Spec KK	200/114	<i>40% Labella/32034</i>	fine
21	A	0 03 E	-7 36	2.3"	5.24	K15	8-8-8	Astr-Sp KK	200/150	<i>thin cloud - thin telescope</i>	fine
54		0 09 W	+18 30		-13	G0V	10-10	test	20/40	thin cloud	exp sl sm poor focus film should be positioned on side of dark slide handle
				HI	10 ^m	68° F	D19				
				098-01	4 ^m	68° F	D19				
				IIIa O	10 ^m	68° F	D19				
				41133	received Aug 9 th	10 th	dec				

098-01-E 04226-03126

MaJ-e 03075-06126

Πολ.ε 28115-19/16

Date Dec 7-8 Tues-Wed 1976 Observer Tn Julian Day 2443850

[illegible]

Doine Temp. 57.6

Transparency Conditions Good

super bad seeing

240

nova still red, slightly fainter now.

[illegible]

III 9J-e03075-06126

Dome Terr
Focus
Dome Terr

Hour Angle
End

Dome Temp.

Transparency Conditions *Bed*

242

[illegible]

IIIaJ-e 03075-06126
IIaJ-e 28115-19116

Dome Temp
Focus!
Dome Temp

Hour	Angle	End
2	37	W
3	17	W
1	09	W

Dome Temp.

Transparency Conditions

Hazy - thin cloud - bad

249

[illegible]

Πο.ε 28115-19116

Dome Temp

Focus

Dome Terr

Hour Angle

End

Dome Temp.

Transparency Conditions

Transparency Conditions *Clear - Then instant cloud* 296

Clear again
Cloud again by 0^h

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02	4	0 55E	+16 02	4-5"	5.8	B8	8-9.8	Ap-MR	400/137	Clouds - closed up. Then reopened.	fine fine
31	8	1 59W	+29 40.5 +42 24	3-4	7.17	B8 _p	7-8.7	Ap-MR	400/180	HrL(circle) 1 59W 2 00-W HrL(circle) 2 04E HrL 2 01.5E Clouds again	fine fine
							11 ^m D19	67°F			

II90-e 28115-19116

Dome Temp

Focus

Dome Ten

Hour Angle
End

Dome Temp.

248

[illegible]

Doc E 28115-19116

Dome Tem
Focus
Dome Ten

Hour Angle
End

Dome Temp.

Transparency Conditions

250

[illegible]

Παο-Ε 28115-19116

Julian Day

[illegible]

Dome Temp.

Transparency Conditions good sl lazy
poor swims

252

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
19	A	1 51 W	+51° 35'	4-5	6.44	A5	8-8-8	Close Bin-Wet	800/300	true reading 06:02:30	fine
										console 06:02:56	fine
34	0	1 43 W	-02° 25'	3-4	6.57	FD	8-8-8	-11-	800/320		fine
40		45 15	+43° 15'		6.90	GO	8-8-8	-11-	800/300	cover to grating. The cable came off at the draglines of the exposure so had to cap it and put it back on and shot became of first forming on secondary mirror	companion doubled!
				10"	D19	68°F					

Date June Nov 21-22 1976 Observer R. Julian Day

[illegible]

Dome Temp.

Transparency Conditions

259

Time T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
15	A	00-50W			4.07	B2IV	^{no filter} 6 12	Sp Bw-Bk	80/70	doublet in overexposure please	sl wk sl wk
					5 ^m D19	67°F					

Doc 28115-19126

Dome Term

Focus

Dome Tern

Hour Angle
End

045V

126 V

230 V

Clear suddenly. By 22:30
Very good

256

[illegible]

IIaO-e 28115-19126
IIIaJ-e 03075-13126

Dome Temp
Focus
Dome Temp

Hour Angle
End

Dome Temp. -7°C $H=9078$

Focus $0-R$

Dome Temp. -11°C

906

Transparency Conditions

Excellent by 22:30

Snow blowing though,
so staying Low.

258

g Time S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
55	A	1.23 W	-2 32.6	3.5"	6.32	B3p	7-7-6	Bp-B/n	900/135		Fine
			10.5 min	D19 @	68°F	previous night included no filter					
48	B	2.16 W	-2 32.7	4.5"	3.51	09.5 V	5-5-5	SB B/n	200/350	RHS Bluebox	Feok v str
			5 min	D19 @	68°F					" " "	
										Too much snow blowing & gusty	

WAL-e 03075- 13126

Dome Temp.
Focus
Dome Temp.

[illegible]

Dome Temp. -15°C

Transparency Conditions Clear by 22:30 again

260

[illegible]

261

IIo-e 28115-19126

Mas-e 03075-13/26

Date 30/31 DECEMBER '76 THU/PT Observer Blu-Tn/Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41165	HD 14633	02 ^H 16 ^M 7	+41° 32'	G12	IIo-OE	13/5	12°F	17:29	20:03	A	00 22
41165 T	Strip Calc for 41165, 67-74				"	90sec					
41166	HD 37468	05 33.7	-2 39	G12	IIIa-e	13/5		20 09	20 44	B	2 33
41166 T	Strip Calc for 41166.				IIIa-e	180sec					
41167	HD 34626	05 ^H 13 ^M 8	+36° 32'	G43	IIo-OE	13/13+		20 50	22 02	C	0 56
41168	"	"	"	"	"	"		22 03	22 58	A	0 01
41169	"	"	"	"	"	"		22 59	23 50	B	0 53
41170	"	"	"	"	"	"		23 51	00 42	C	0 145
41171	"	"	"	"	"	"	+6°F	00 43	01 44	A	02 46
41172	"	"	"	"	"	"		01 45	02 52	B	03 51
41173	"	"	"	"	"	"		02 52	04 04	C	05 07
41174	HD 88021/2	10 03.8	+20 49	G12	"	13/5	+5°F	04 14	05 55	A	02 09
					IIIaJ	4 ^M D19	68°F				
					IIaJ	10 ^M "	"				
					41174	4 ^M "	"				

Dome Temp. -19°C H=9064 FD=441-5050 E#553

262
204

* Karl
One plate broken

[illegible]

Date 4-5 Jan/77 Tues-Wed Observer But-Tn Julian Day 174

[illegible]

Dome Temp.

Focus O-R

Dome Temp.

Transparency Conditions

Much cloud shortly after
opening
of course

[illegible]

IIIaJ-E: 03075-13126

File D-E * 28115-31126

Date Wed Thurs Jan 5/6 1977 Observer Bl-Ri Julian Day

[illegible]

Dome Temp. -03°C 70%

Dome Temp. -110°C 90%

Transparency Conditions

[illegible]

267

Date FR. / SAT JAN 7/9 Observer Wtn-Ri / Wtn-Ri Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41184	HD 19536	3 ^h 01. ^m 7	+40°34'	G16	127-05E	9/5	24°F	17:36	17:50	A	2 ^h 12
41185								17:52	18:06	B	2 ^h 07
41186								18:07	18:25	C	2 ^h 47
41187								18:26	18:45	A	1 ^h 31
41188								18:46	19:04	B	1 ^h 10
41189								19:05	19:20	C	2 ^h 55
41190								19:21	19:36	A	2 ^h 31
41191								19:36	19:53	B	2 ^h 20
41192								19:53	20:09	C	0 ^h 04E
41193								20:10	20:28	A	0 ^h 15W
41194								20:29	20:46	C	0 ^h 33W
4119471	cal clip made for plate 41194-41195				127-05E	15mm	at 7.5V	5:00	5:50	Ad	
41195								20:47	21:01	A	0 ^h 45W
41196								21:02	21:24	B	1 ^h 11W
41197								21:55	22:21	C	2 ^h 09W
41198					127-05			22:22	23:05	A	2 ^h 52W

Dome Temp. -9°C 70%Focus *OR*

Dome Temp.

Transparency Conditions *good*

268

Log Time S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
50	A	2 ^h :22E	+40°52'	3	2.2V	B8X	8-7-7	2d-Algol	80/89	UV Filter in T.H 0.7 B	vsl w/ fingerprint
06	B	2 ^h :07E					8-7-7		80/84		vsl wk
25	C	2 ^h :47E					8-7-7		80/84	hard to load the	vsl wk.
45	A	1 ^h :38E					8-7-7		80/87	^{meter} exposure at the curves	"
04	B	1 ^h :10E					8-7-7		80/86	gain ex & give all	"
20	C	2 ^h :55E					8-7-7		80/87	the plates is the required	"
36	A	2 ^h :38E					8-7-7		80/87	exposure please overexpose	"
53	B	2 ^h :20E					8-7-7		80/89		li
09	C	2 ^h :04E					8-7-7		80/90		"
28	A	2 ^h :15W					8-7-7		80/86		guiding, vsl wk
46	C	2 ^h :33W					8-7-7		80/90		guiding, vsl wk
01	A	2 ^h :48W					8-7-7		80/85		vsl wk
24	B	1 ^h :11W					8-7-7		80/84	clouds at 21:13	"
21	C	2 ^h :09W					8-7-7		40/85		sl. str
05	A	2 ^h :52W					8-8		40/151	↓ vacuum in 2 hrs	

Date FRI/SAT JAN 7/8 77 Observer W4-R1 Julian Day

[illegible]

Dome Temp. -15°C

Transparency Conditions *curious clouds at 01:30*

270

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
154	B	3 ^h :42 ^m W	+40°52'		2.2V	B8 ⁺	8-8-	2d-Algo/	40/163	clouds Filter in Tilt 0.7B	u sl str.
154	A	3 ^h :41 ^m W	+14°44'		7.17	B5	7-7-7	Sp. Bin-B14	400/131	curious clouds getting to thick	fine
					100 127	10 ^m 5 ^m	} 019 88°F				

127-05-E-00095 - 07017
Π40-e-28115 - 31126

Dome Ten
Focus
Dome Ten

Hour Angle
End

Dome Temp. -12°C H=803

Focus 90-B

Dome Temp. -17°C H=9270 Temp reached -19°C then warmed upTransparency Conditions *cloudy & clear*

then Excellent but slightly

272

Time UT	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
02	A	1 07 W	+	2-3	2.2- 3.5	B8V	7-7-7	Algol-2d	40/81	Tilt .7B UV Filter in	All Fine
02											
05	A	3 11 W	+	2-3	2.2- 3.5	B8V	7-7-7	Algol-2d	40/80		
06	B	3 32 W		"	"	"	7-7-7	" "	40/80		
08	C	3 54 W		"	"	"	7-7-7	"	40/87		
08	A	4 13 W		"	"	"	7-7-7	"	40/80		
31	C	4 35 W		"	"	"	7-7-7	"	40/80		
58	A	5 04 W	+40 52	"	"	"	7-7-7	"	40/79		
20	B	5 25 W		"	"	"	7-7-7	"	40/80		
47	C	5 53 W		3"	"	"	7-7-7	"	40/85		
32	A	1 38 W	+20 30	2-3	7.20	965+ 42	7-7-7	VR B1/2	400/230		Fine
07	B	3 06 W	+13 01	3"	649	46n	7-7-7	SB B1/2	400/145	Thru cloud	Fine
										Cloudy Dawn	
			Ia0	11"						* Both have same edge, corresponding to RHS of slit on TV screen looking too ragged - bad guiding.	
			127	5 1/2"		D19	67p			Make sure image gets enough on RHS of TV slit.	

IIa0-E 28115-31126

Date Sat-Sun Jan 15/16 11977 Observer BK-Tn Julian Day

[illegible]

Dome Temp. -18°C H-887

Transparency Conditions *clearing by 22:30*

getting very good - s/haze
windy too.

274

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
00	A	0 59 W	+24 38	3"-5"	7.18	A3	6-6-8	Wat, color 12.1	800/300		fine
2	B	1 47 E	+18 33	3"-5"	6.22	R24	6-7-7	"	400/250		fine
00	C	0 50 W	+18 33	"	6.84	F1V	7-7-7	"	400/190	cloud	fine
57	A	0 01 W	+8 36	"	5.15	A0V	7-7-7	"	400/165	thru cloud	fine
							10 ^m	D19	68°E		

II-0-e-28115-31126

Dome Temp

Focus

Dome Terr

Hour Angle

End

Dome Temp.

Transparency Conditions poor - civil

276

[illegible]

277

II₀₀-e 28115-31126
 II₀₀-e* 28115-14017

Date Mon-Tues Jun 17-18/77Observer But-Tn

Julian 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.
41217	HD 51418	06 52.2	+42 26	G12	II ₀₀ -e	9/5	+3°F	01 55.	05 31	A
41217T	Step Calc for 41217-19				"	90sec				
41218	HD 112014	12 48.3	+83 58	G12	"	13/5		05 39	06 26	B
41219	HD 132742	14 59	-08 23	"	"	9/5		06 40	07 12	C
Following Test Done Jan 18		22 ⁿ -0 ^h	λ Filter	Dia			Dome Temp -14°C	Time	Voltage	
41219T1	Spot Plate Calc		4300 Å	2	II ₀₀ -e*			48 min	17.5 V	
7.			4300 Å	3	"			12 min	17.5 V	
41219T2	Strip Calc	180sec			"		-14°C	180sec	(metronome)*	
T3	"	"			"			180sec	"	
T4	"	"			"			180sec	"	
T5	Strip Calc	45sec			"			45sec	"	
T6	"	"			"			45sec	"	
T7	"	"			"			45sec	"	
not numbers → T8	Spot Plate Calc (3 exps)		4300 Å	4	"			180sec*	17.5 volts	
T9	"	3 (exps)	4300 Å	4	"	Pr. fogged		45sec	22.5 V	
Ex. 5 th p.	F		6 x 1					- f g		

Dome Temp. -25°C H=878 Prob frozen

273

[illegible]

279 Note #41222 skipped
non existent

batch no. 127-05e - 19017
IIIaJ-E 03075 - 21017

Date Wed-4th Jan 19-20/77 Observer Zd-Tn/Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41220	HD19536	03 01.7	+40 34	G16	127-05e	9/5	20°F	22 47	23 10	C	3 44
41221	"	"	"		"			23 11	23 32	A	4 06
41223	"	"	"		"			23 33	23 53	B	4 27
41223T	Col/6 step wedge for 41220-				"	15 min	@7.5V	D4 5100	D3 5450	D2 HD	
41224	HD19536	03 01.7	+40 34	G16	"	9/5		23 54	00 14	C	4 48
41225	"	"	"	"	"	"		00 15	00 35	A	5 09
41226	"	"	"	"	"	"		00 44	01 2	C	5 36
Following Tests done Jan 25 19 ^h → 22 ^h EST · Very high Humidity → 100% λ Filter Diaphragm Time voltage											
41226T1	SPOT TEST Col/6s		4300 Å	3x	IIIaJ-E	D4	-3°C	20 min	10 V ± .5v		
41226T2,T3,T4	STRIP Col/6 Tests			3x	"		-3°C	20 min			
41226 T5	SPOT TEST Col/6s		4300 Å	3x	"	D4	-4°C	60 sec	20 V		
41226 T6,T7	Strip Col/6 Tests			2x (numare)	"		-4°C	60 sec			
41226 T8	SPOT Col/6 Test		4300 Å	1x each	"	D3 D2 D1		D3 D2 D1 4 min 16 min 60 min	20 V		
41226 T9	SPOT TEST Col/6s (Repeat of T1)		4300 Å	3x	"	D4	-5°C	20 min	10 V		
			D19 A ⁺ 65°F								

Some cloud by 04:30

Exp. Time C.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
10	3 44 W	+40 52	2-3	2.2- 3.5V	B8V	no filter 7-7-7	2d-Algol	40/80	uv filter in	wk
32	4 06W	"	"	"	"	7-7-7	"	40/80		"
53	4 27W	"	"	"	"	7-7-7	"	40/80		"
72										wh
14	4 48W	"	2"	2.2- 3.5V	B8V	7-6-7	2d Algol	40/80		"
35	5 09W		"	"	"	6-7-6	"	40/60	cloud	"
2	5 36W		1-2	"	"	7-7-6	"	40/50	hole / Telescope oscillating	"
10076	- [warmed up at 10 volt for 1 hr]							A	cloud -	
10076	* 1/ broken but should be OK on all 3									
10076	Spot Timer used for 20 min									
5^m D19 67°F how long were these in vacuum? → About 6 hrs - P. in Vac at 17^h										
Each of strips timed & done at same time with Each of 41226 T1 Spot Tests										
Metronome Timed.										
Metronome Timed at same time as 41226 T5 exps.										
Spot Timer used for all 3 exps.										
Spot Timer used. Note. * Timing for comparison with T2, T3, T4, won't be as exact as T1 (broken one)										
since they weren't done together, timer reset to 20 min										

Walc 03075-06017

Tab. e 28115-31126

Date Fri-Sat JAN 21/22 Observer W44-Tm/ Julian Day

[illegible]

Dome Temp. -16°C

Transparency Conditions Very Good then s/c cloudy

Sudden clearing after 1^h - then mystery
cloud from nowhere?

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS <i>α 1977</i> <i>Caused</i>	Quality
11	A	2:09E	-8 45.8	2.4	4.07	B2V	<i>hof. Her</i> 5-6-5	Sp. Bin. - Blm	200/305	AAS Elec Box 05 8.0 05 7.5	fine
12:00	B	1 20E	-8 46.1	2-3"	"	"	5-5-5	"	80/137	05 7.8	
1:59	A	0 21E	-8 46.3	"	"	"	5-5-5	"	80/133	cloud 05 8.7	
1:42	B	2 22W	+20 27.7	3.5	7.20	<i>965</i> A2	<i>Fitter in</i> 77-6	V6-Blm	800/392	thin cloud - very gusty -	guiding

IIIaV-e 0307506017
IIu0-e 28115-14017
IIu0-e* 28115-22017

Dome Ter
Focus
Dome Ter

Hour Angle
End

Dome Temp.

Transparency Conditions *very good - s/haze* 289

[illegible]

127-04-E 00095-18017

Date 27/28 JAN 1977 THU/FRI Observer Blu-Ri Julian Day 2444112.5

[illegible]

Dome Temp.

Transparency Conditions

286

[illegible]

127-04-E 00095-27017

Date FEB 1/2 MON-TUES 77 Observer But-Re Julian Day

[illegible]

2801
pg #1

127-05-E 00095-27017
127-05-E* 00095-02027

Date Feb 3-4 Thurs-Fri 77 Observer Bly-Tn/ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41257	HD 19536	03 01.7	+40 34	G16	127-05-E	9/1.5		19 09	19 36	A	01 08
41258	HD 19536	03 01.7	+40 31	G16	127-05-E	9/1.5		19 32	20 07	B	01 39
41259	HD 19536	"	"	"	"	9/1.5		20 13	20 39	C	02 11
41259T	Coll Step wedge for plates 41257-59				"			0415V 037V 027V 4810A 5450A Hx	15min		
41260	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		20 46	21 09	A	02 41
41261	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		21 10	21 30	B	03 02
41262	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		21 31	21 47	C	03 19
41262T	Coll step wedge for plates 41260-71							1027V 037V 0415V Hx 5450 4810			
41263	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		21 48	22 04	A	03 32
41264	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		22 05	22 20	B	03 52
41265	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		22 29	22 40	A	04 12
41266	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		22 45	23 00	B	04 32
41267	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		23 02	23 17	C	04 49
41268	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		23 19	23 34	A	5 06
41269	HD 19536	03 01.7	+40 34	G16	127-05-E*	9/1.5		23 35	23 56	B	5 28
41270	"	"	"	"	"	9/1.5		23 57	00 16	C	5 48

Dome Temp. -5°C $H=853$ Focus $9.0-R$

Dome Temp.

Transparency Conditions

Good - some threatening cloud
gusty

290

Time UT	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
36	A	01 08 W		2"	2.2- 3.5	B8V	7-7-7	Zd-Algol	40/81	uv Filter in	vs. strong
07	E	01 39 W	+40 51.3		2.2- 3.5	B8V	7-7-7	Zd-Algol	40/80	cloud coming fast	
39	C	02 11 W			"	"	7-7-7	"	40/80	sl cloud	
02 TV HX	15m										
9	A	02 41 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/78		fine
30	B	03 02 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/79		
47	C	03 19 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/80		
04 15m 480											
04	A	03 36 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/81		
20	B	03 52 W	+40 52		2.2- 3.5	B8V	7-7-7	Zd-Algol	40/81		
40	A	04 12 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/81	Cloud	
00	B	04 32 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/82	Cloud	
17	C	04 49 W			2.2- 3.5	B8V	7-7-7	Zd-Algol	40/80		
34	A	06 W			2.2- 3.5	B8V	7-7-7	"	40/80	Tel oscil'n - 5'17W-5'22	
56	B	28 W			2.2- 3.5	B8V	7-7-7	"	40/80	some cloud	
16	C	48 W			"	"	7-7-7	"	40/78		over

Math

Julian Day

[illegible]

Transparency Conditions *5/ cloudy*

20/2

Dome Temp. -10°C

[illegible]

127-05-E 00095-04027

И.О.с 28115-22017

Шале 03075-06017

Date Feb 5-6 Sat-Sun 1977 Observer Tn / B/n-Tn Julian Day

[illegible]

Dome Temp. -16°C $H=76^{\circ}$

Focus 90.8

Dome Temp. -20°C $H=85^{\circ}$

Transparency Conditions *Good - very gusty*

294

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
41	A 0 21 W	+40 49.8	4-6"	2.2- 3.5	B8V	9-9-9	Zd-Algol	40/80	UV filter in, T.H. 7B	vs! wh. clean
13	B 0 53 W	"	"	"	"	9-9-9	"	40/78	thin cloud	vs! wh. clean
D2TV H ₂							Dome shutters closed		snow blowing or something	completely light smudge
13	C 1 53 W	+40 50.0		2.2- 3.5	B8V	9-9-9	Zd-Algol	40/76		
50	A 5 31 W	+40 55	2'-3'	"	"	9-9-9	"	40/80	Tel reversed	one edge light
38	B 0 6 19 W		4	2.2- 3.5	B8V	7-9-9	Zd-Algol	40/79		5" filter
45	A 0 7 26 W		4-6"	2.2- 3.5	B8V	9-9-9	Zd-Algol	40/80		
22	B 0 0 91 E	+83 29	3"	5.81	A0	7-7-7	S _p . B1a-B1n	200/70		
										fine
23	C 0 20 E	+36 40	3"	4.95	B7V	7-4-5	SB-B1 ₂ /L ₂	200/350	RHS	vs! star
									RHS	fine
00	A 0 5 21 W	-8 27	3"	4.91	A0V	6-6-6	SB-B1n/L ₂	200/65		fine
				127	5 ^m D19	68°F				
				IIa 0	10 ^m					
				III d 5	4 ^m		for up			

emulsion 04027? yes

Dome Temp

Focus

Dome Ten

Hour Angle
End

Dome Temp.

296

ing Time S.T.	P2	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
40	A	0 24 W	+40 49.2	1"	2.2- 3.5	B8 V	9-8-9	Z1 Algo 1	40/78	thin cloud (UV filter in)	fine. dust on slit
21 0415 4810	B	1 05 W		1-4"	"	"	9-8-8	"	40/46	TV at 18" 47" thicker cloud	sl whi light struck the edge
note* wrong D used for 5450A; should be D3, not D2.											
be D3											
5" Dig 680F											

Π.Ο.ε 28115 - 22017

N

Date Feb-7-8 Mon-Tues 77 Observer But-Tn Julian Day

[illegible]

Dome Temp. -15..... 90%

Transparency Conditions Excellent - then high class

298

9th H_2O D19 68°F

127-05 00095-05027

Dome Temp
Focus
Dome Temp

[illegible]

Transparency Conditions *Good - cloudy* 300

Dome Temp.

[illegible]

** 03025-15027
 * 000095-05027
 xxy 28115-22017

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41296	HD 19536	03 01.7	+40 34	G16	127-05E	9/1.7		18:40	18:56	A	01 20
41297	HD 19536	03 01.7	+40 34	G16	127-05E	9/1.7		18 57	19:15	B	01 48
41298	HD 19536	03 01.7	+40 34	G-16	127-05E	9/1.7		19:18	19:37	C	02 05
41299	HD 19536	03 01.7	+40 34	G-16	127-05E	9/1.7	20°F	19:40	20:00	A	02 29
41300	HD 19536	03 01.7	+40 34	G-16	127-05E	9/1.7		20:05	20:23	B	
41301	⁸⁷⁴⁶⁸ HD-37479 x	05 33.7	-02 39	G-12	TTA-5-E	13/1.5		20:32	21:07	C	01 03
41302	HD 19536	03 01.7	+40 34	G-16	127-05E	9/1.5		21:16	21:40	A	04 06
41303	HD 19536	03 01.7	+40 34	G-16	127-05E	9/1.5		21 41	22 00	B	09 28
41304	HD 19536	03 01.7	+40 34	G16	127-05E	9/1.5		22 02	22:31	C	05 00
41304T1	cat slip wedge for plate 41296-300, 412302-						15mm	D4.15U 4810	D3.7U 5150	-02 30 H4	
41305	HD 19536	03 01.7	+40 34	G-16	127-05E	9/1.5		22:34	23 09	A	05 37
41306	HD 88021/2	10 40.8	-12 49	G-12	TTA-5-E	13/1.5		23:23		B	
41305T1	cat slip wedge for plate 41301				TTA-5-E	180 sec					

Dome Temp. -09°C 60%

Focus 9.03

Dome Temp.

Transparency Conditions

302

g Time ST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
56	A	01 22W	+40 52	2-3	2.2- 3.5	B8V	N. Filter 9-9-9	Zd-Algol	40/112	UV Filter in	fine
55	B	01 43W			2.2- 3.5	B8V	9-9-9	Zd-Algol	40/112		"
37	C	02 05W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/110	BROKEN 1/2" missing	fine
50	A	02 29W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/112		"
123	B				2.2 3.5	B8V	9-9-9	Zd-Algol	40/108		"
07	C	01 03W	-2° 36'	1"	3.51	09.5V	N. Filter 5-5-5	Sp Bi-BL	40/48	UV Filter out R.H.S. 8 Box Cloud	"
40	A	04 06W	+40° 54'	1"	2.2 3.5	B8V	N. Filter 9-9-9	Zd-Algol	40/80	UV Filter in	"
00	B	04 21W			2.2- 3.5	B8V	9-9-9	Zd-Algol	40/81		fine
31	C	05 00W	+40 55	1"	2.2- 3.5	B8V	9-9-9	Zd-Algol	40/82		"
09	A	05 37W	+40 55'		2.2 3.5	B8V	9-9-9	Zd-Algol	40/51	Cloud!	"
		+20° 28			7.20	12+ 905	7	VD-BL	400/-		
										R.H.S. 8 Box	
					5 ^m	D19	68.3F	fog III & J	0.35		
								127	0.22		

127-05 00095-17027
 Tao 28115-22017
 Tao* 28115-08027

Dome Temp
Focus
Dome Temp

Hour	Angle	End
0145	55W	
0041	16W	
05	06	
02	20	
0	02	
500		
01	04	

Dome Temp. -10°C 96%

Transparency Conditions *very foggy and ^{poor} scattered clouds*

304

[illegible]

127-05 00095-17027

098-01 04266-13027

Παο 28115-08027

Date Sun/Mon Feb 20/21 1977 Observer BB-Ri Julian Day 2443880.5

[illegible]

306

* apparently there are interference fringes from glass sandwich filter

127-05 00095-20027

Date MON/TUES FEB 21/22 77 Observer But-Ri Julian Day

[illegible]

Dome Temp.

308

[illegible]

127-05 00095-20027
II00-e 28115-08027

Dome Ten
Focus
Dome Te

Hour	Angle
04	13
05	32
06	13
06	46
07	31
01	56E
05	9E
05	1E

Dome Temp. -7°C

Very clear by 23 30' in NW

310

ing Time U.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
58 027V Hm	A04 13W	+40 54	3"	2.2- 3.5	B8V	^{no filter} 9-9-9	Algal-Zd	200/371	UV filter in Tilt 0.7B	fine
16	B05 32W	+40 54	2-5"	2.2- 3.5	B8V	9-9-9	Algal-Zd	200/402	Reversed Too TELESCOPE OSCILLATING IN RA HA = 4 ^h 30 ^m V - 4:40W	fine
57	06 13W		"	"	"	9-9-9	"	200/400		"
30	06 46W		"	"	"	9-9-9	"	40/80		"
15	C07 31W		"	"	"	9-9-9	Algal-Zd	70/75	cloud at end	fine
57	A01 56E	+55 03.5		+17	A5V	^{filter in} 9-8-8	Am-MR	200/75	(Plate Holder loose when unloading)	fine
351	B059E	+25 46.2	3-4.2"	6.67	B9V	8-8-8	Ap MR	400/160	slow at first!	
603	C10 51E	+25 50	2.3	7.04	A1	7-7-7	Am MR	400/175	Cloud	fine
				120 127	9 ^m 5 ^m	219 60°				

311

II-o-e 28115-08027
 127-05-E 00095-02037
 098-01E 04266-13027

Date Wed-Thurs Mar 2-3/77 Observer 2d-Sho-Tn/BB Julian 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.	
41333	HD 37479	05 33.7	-2 39	G12	IIa0-e	13/7	30°F	18 46	20 43	A	
41333T	Strip Cal'n for 41333				"	90sec			4 no one		
41334	HD 19536	03 01.7	+46 34	G16	127-05e	9/5		20 57	21 16	B	
41335	"	"	"	"	"	"		21 24	21 42	A	
41336	"	"	"	"	"	"		21 52	22 16	B	
41337	"	"	"	"	"	"		22 19	22 47	C	
41338	"	"	"	"	"	"		22 49	23 29	A	
41339	"	"	"	"	"	"		23 31	00:22	B	
41339T	Cal'n step wedge for 41334-39				"	15min @		4810 @ 15V D4 5450 @ 7V D3 Hx @ 7V D2			
41340T	Cal'n step wedge for 41340-43				098-1E	15min @		Hx @ 7V D1 43 10V D3 4818 10V D3			
41340	HD 115898	13 ^h 18.3	+45 40	G24	098-1E	13/4	30°F	00 36	02 04	A	
41341	HD 93033	16 39.5	+46 05'	G24	098-01E	13/4		02:14	03:20	B	
41342	HD 93033	"	"	"	"	"		03:21	4:35	C	
41343	HD 139319	15 ^h 32.4	+64 14'	"	"	"		04 40	6:09	B	

Dome Temp. -2°C H: 66%

Focus 90-R

Dome Temp. -5°C H: 88%Transparency Conditions *very good*

312

70 41 Karl. - more 127s need be cut & evacuated.
Put H₂O in Too.

ing Time U.S.T.	P.L.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
43 A		3:30 W	-2 35.7	2"	6.32	B3p	7-9-5	HeSi Sho	200/100	perhaps/contam from AB	fine
		recalled Time End									
16 B		4:36 W	+40 54.3	2"	var. 2.2-3.8	B8V	no filter 7-11-8	Algo/2d	40/110	*All 6 127 strips at one	vsl wh
42 A		5:02 W	" "	1.5	"	"	10-10-10	"	40/118	side of Red box.	"
16 B		5:36 W	" "	"	"	"	10-10-10	"	40/114	098 strips on other side	fine
47 C		6:07 W	" "	"	"	"	10-10-10	"	40/108	Dev is same anyway, Right.	no
29 A		6:48 W	" "	3	"	"	10-10-10	"	40/113		
22 B		7:41 W	" "	3-4"	"	"	10-10-10	"	40/99		blue wh
										not Labelled	
										Labelled "40" (Next to strip plates)	
204 A		0:48 E	+45 38	2-3	var. 8.5	M6e	no filter 2-2-3	SRVar	800/110	Tilt 0.6 B UV filter in	red fine blue wh
20 B		3:03 W	+45 41	2"	7.1v	B8.5	2-2-2 BB eclipsing		400/80	" "	vsl wh
35 C		4:18 W	" "	2-3"	"	"	2-2-2	"	400/80	" "	"
01 B		1:02 W	+65 58	2-3	7.5v	A5	2-2-2	"	400/72	" " (Close Vis Bin)	fine
					120 9m						
					098 4m						
					127 5m						
										high age (?) fog on 098	

ΠαΟ-ε 28115-08027

Dome Ter

Focus

Dome Te

Hour Angle

End

Saw Fireball for ≈ 5 sec to NW horizon at $\approx 20^\circ 25'$ T4

[illegible]

127-01E 00095 - 07037

Dome Tenn
Focus
Dome Tenn

Hour Angle
End

Dome Temp.

Transparency Conditions *Hazy - Cloudy*

316

[illegible]

098-DIE 04266-09037
H2OE

Dome Temp
Focus
Dome Temp

Hour Angle End
2:27E
1:36E
0:40E
01437W

Dome Temp.

Transparency Conditions ... Cloud $\rightarrow$ clearing

378

	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
08	A	Z:27E	+45°40'6"	3-4	7.1v	B8.5	1-2-1	BB edips. bin.	800/60	Grating rot. = 0.440B Wr4 Filter inside spectrograph	out of focus
14	B	1:36E	"		7lv	B8.5	1-2-1	"	800/60	Refocused to 50R before start of exp	fine
19V											4810 wh
16											
10	C	O:40 E	"		7lv	B8.5	1-2-1	"	800/60	very poor transparency	fine
50	F	O1437W	+20°30' (^{from} circle)	3.2	g _{65+Az}	Filter in F7-14	V B Blh		800/138	clouds in un developed plate	wk.
				098	4"	D19	GPF				
				I.L.30	10"						

379
Visitors ~ 30 people
looked at Saturn
2 hr.

IIa0-E - 28115 - 07037

127-05-E* 00095-02037

127-05-E* 00095-07037

Date Thurs Fri Mar 10-11 1929

Observer

BL-Ri / RM-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.
41358	HD 19536	03 01.7	+40° 34'	G-16	127-05*	9/5	51°F	18:48	19:01	A
41359	HD 19536	03 01.7	+40° 34'	G-16	127-05*	9/7		19:02	19:20	B
41360	HD 19536	03 01.7	+40° 34'	G-16	127-05*	9/7		19:21	19:38	C
41361	HD 19536	03 01.7	+40° 34'	G-16	127-05*	9/7		19:39	19:57	A
41362	HD 19536	03 01.7	+40° 34'	G-16	127-05*	9/7		19:58	20:17	B
41362TI	cal ship wedge in plates 41358-41362				127-05*	15mm	D4 150 4810	D3 70 5450	D2 70 11A	
41363	HD 19536	03 01.7	+40° 34'	G-16	127-05**	9/7		20:18	20:37	C
41364	HD 19536	03 01.7	+40° 34'	G-16	127-05**	9/7		21:07	21:33	A
41365	HD 19536	03 01.7	+40° 34'	G-16	127-05**	9/7		21:38	22:44	B
41366	HD 88001/2	10 ^h 03.8	+20° 49'	G-12	IIa0-E	13/5		22:55	01:51	C
41366TI	cal ship wedge in plates 41363-41365				127-05**	15mm	D4 150 4810	D3 70 5450	D2 70 11A	
41367	HD 97937	11 ^h 10.8	+13° 23'	G-12	IIa0-E	13/5		02:09	03:25	A
41368	HD 186688	19 ^h 40.8	+29° 01'	G-12	IIa0-E	26/3		03:35	05:16	B
41368TI	cal ship wedge in plates 41366-41369				IIa0-E	90mm				
41369	HD 188209	19 ^h 49.0	+46° 46'	G-12	IIa0-E	9/5	48°F	05:24	06:06	C

Dome Temp. 11°C 64%

Focus 50R

Dome Temp. 08°C 82%

Transparency Conditions

sunny

320

g Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
01	A	02 51W		1-2	2.2 3.3	B8V	^{no filter} 9-9-9	Zd-Algol	40/80	UV Filter in, 7B	fine
20	B	03 10W	+40° 54'	1-2	2.2 3.5	B8V	9-9-9	Zd-Algol	40/106		v sl str
38	C	03 28W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/109		"
57	A	03 47W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/110		"
17	B	04 06W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/106		"
37	C	04 28W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/107		fine
33	A	05 25W	+40° 54'		2.2 3.5	B8V	9-9-9	Zd-Algol	40/105	tile reversed	v sl wh
44	B	06 35W			2.2 3.5	B8V	9-9-9	Zd-Algol	40/110	Cloud	v sl wh
51	C	02 41W	+20° 30'	1-2	7.20	985+ A2	7-7-7	VB-BL	40/231	<u>BROKEN</u> 4PIECES	
25	A	03 09W	+15° 00'	2	6.49	A6n	7-7-7	Sp Br BL	40/101	cloud at end	fine
16	B	03 28E	+29° 14'	2	6.8-7.7	F0-G16	6-6-6	Ceph-Evans	800/273	thin Cloud	fine
06	C	02 46E	+46° 59'	1-2	5.54	09.51.67	7-7-7	Sp Br - BL	40/120	clouds	fine
			1100 9m 127 5m	D 19 180E						DAWN	

2815-07037

Date FRI-SAT MAR 11-12, 1977 Observer Wtm-Ri/ Julian Day

[illegible]

Dome Temp. 10°C 70%Focus 40R Dome Temp. 05°C 95%

Transparency Conditions

100%

322

ing Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
05	G	1:52 W	+33° 47'	2-3	5.82 -6.49	Ap	7-77	Ecl. Bin - B1n	400/160		fine
01	G	7:23 W	+19° 40'		6.38	Am	7-7-7	Sp. Bin - B1n	400/160		fine
40	A	01:34 W	+20° 28'		7.20	⁹⁶⁵ A2	7-14	VB - B1n	800/180	Clouds from SW. at 0:05	sl wk
										clouds up at 01:30	fine
										sun's clouds to thick	
					8" D19	68°F					

Geo-2 28115-07037

Date MON-TUES MAR 14/15 77 Observer But-Ri Julian Day _____

[illegible]

Dome Temp. 4°C 98%

324

[illegible]

Tao-E - 28115-15037

098-01E - 02266-09037

Date Wed-Thurs Mar 16-17/1977 Observer BB/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.
41377	HD 73731	08 ^h 34 ^m 43 ^s	+19° 54'	G-12	IIaD6-E	13/5	40°F	20:10	21:56	A
41378	HD 93033 (IX UMa)	10 ^h 39.5	+46° 05'	G65	098-01-E	13/4		22:06	22:33	B
41379	HD 117555 (FK Com)	13 ^h 26 ^m .1	+24° 44'	G65	098-01-E	13/4		22:40	00:49	C
41379T1	cal slip wedge for plate 41378-				098-15mm	D3 15V 4810		D2 7V 5450	13:17 V Hd	
41380	HD 136175 (UCB)	15 ^h 14.1	+32° 01'	G65	098-01-E	13/4		00:54	01:51	A
41380T1	cal slip wedge for plate 41377				ITaO-E	90mm				
	Mar 17 1977									
	visions looked at Saturn / hr									
41380T2	cal slip wedge				III-J-E		180mm			

Dome Temp. 0°C 80%Focus 70RDome Temp. -1°C 80%Transparency Conditions good but very windy

326

who runs off with T.V. system

ing Time E.S.T.	PH	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
56	A	01^h38W	+19°38		6.38	Am	7-77	Sp Bi-BL	400/160	clouds	
33	B		+45°41.5		7.1V	B8.5	1-2-1	BB-eclips.bin.	800/60	with W4 Filter	
49	C	01 ^h 19E	+24°22.1		V=7.9V	gGe	1-2-1	BL- " "	800/60	"	
51	A	02 ^h 05E	+31°45	3-4	7.65 8.8	B5+ B9	1-2-1	BB-eclips hi	800/60	"	4810 sl str.
										cloud over	
					12.0	8 ^m					
					098	4 ^m	D19 69°F				
					A138072	4 ^m	D19 68°F	no background fog			

127-05 00095-07037
IIa-012 28115-15036?

Dome Ter
Focus
Dome Ter

Hour Angle
End

67

Dome Temp.

Transparency Conditions

clear

328

Focus 80 R

Dome Temp. 26°F H=100%

Log Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
1730	A	04 ^h 45	+40:52		2.2 3.5V	B8I	7-11-9	Zd-Mgl	40/80	UV filter in 17B.	
46	B	05 ^h 11	"		"	"	9-9-9	"	40/82		
30	B	05 ^h 56	"		"	"	9-9-9	"	40/82	tel. reversed	wk off center
59	B	06 ^h 25	"		"	"	9-9-9	"	40/80		
2	C	06:54	"		"	"	9-9-9	"	40/80	-some haze	
07	B	07:33	"		"	"	9-9-9	"	40/80		
1	②	50 D3	7.5V ①	14x 15 ^m	D2	7.5V				unlabelled	only pa. ① ② snow
10		04 36W	+20° 31		7.2	g65A27-7-7	SpBin-Bln		400/222		guide strong
					127 } 120 }	8 ^m D19	68°F				

Grating rotated
180° from proper pos.

Date Sun. - Mon. Mar. 20-21 1977 Observer BB-Ri Julian Day 2444111.5

[illegible]

Dome Temp. 25°F H=99%

Transparency Conditions Clearing

330

[illegible]

Rad E 28115-15037

Date TUES/WED MAR 22/23 77 Observer Bert-Ri Julian Day _____

[illegible]

Dome Temp. -05C 83%

332

[illegible]

WJ-E

Date Thurs-Fri MAR 24-25 / 77 Observer Bl-T₂ / Rm-T₂ Julian Day _____

[illegible]

Dome Temp.

Transparency Conditions *Very Clear*

Very gusty

very bad seeing

339

[illegible]

MaJ-E 01126-16037
Πu0-E 28115-15036

Dome Temp
Focus
Dome Temp

Hour	Angle
3:12	W
1:22	W
6:22	E
0:24	W
1:05	W
1:31	E
0:38	E
0:11	W
1:00	E

HAO-E 28115 - 25037

Julian Day

[illegible]

Dome Temp. $+1^{\circ}\text{C}$ $H=5270$ Focus 80-R Dome Temp. -2°C $H=9578$ Transparency Conditions *Very good*

338

Log Time S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
28 A		4 21 W	+40 55	1-2	2.2- 3.5	B8 V	9-9-9	Algo/-Zd	40/80	Tilt 0.7B UV Filter in	v. sl. str
47 B		4 40 W	"	2-3"	"	"	9-9-9	"	40/90		sl. strong
70 D2 JV 0 Hx											
40 C		1 13 W	-2 24	2"	6.57	F0	8-8-8	Close Prix	400/200	Waterlens h's Brn	quicking
301 A		0 55 W	+31 45	1"	6.60	F5	8-8-8	"	400/200	sl. hazy	vsl str
36 B		1 01 E	+50 38	1"	6.9	F6 V	8-8-8	Viz. Brn	400/200		vsl str
06 C		1 06 E	+51 59	1-2"	4.60	A8	8-8-8	"	400/160	some cloud coming	fine
28 A		1 17 W	"	2"	6.61	F0	8-8-8	"	400/180	thin cloud / [Plate holder was loose on unloading]	vsl str
55 C		0 38 E	+52 58.9	1-2'	5.56	A2	8-8-8	"	400/160	Fixed Plate holder clamp	fine
26 A		0 07 E	+52 58.1	"	5.60	A0	8-8-8	"	200/80		fine
506 B		0 02 W	+35 59.2		5.71	A5	8-8-8	"	200/80		fine
20 C		0 22 E	27 45		4.20	G5 V	8-8-8	"	200/100		vsl str
					127	5 ^m					
					1120	8 ^m					
							219	60°F 0.20			
								0.23			

-25037

[illegible]

Dome Temp. $+15^{\circ}\text{C}$ $H=5070$

Transparency Conditions $\text{Good} - \text{sl haze}$

340

Focus $30-R$

Dome Temp. $+13^{\circ}\text{C}$ $H=6670$

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
40	A 03 54 W	$+42\ 24$	$3-5''$	6.61	H0	8-8-8	Ap MR	400/160		fine
44	B 01 53 W	$+12\ 51$	$3-5''$	6.75	Ap	8-8	Ap MR	400/77	clouds. Push RHS Push RHS	vsl wk
						13	8 ^m	0.22		
						14	12 ^m D17 68°F	0.27		

Had-E 29115 25037

Date Thurs Fri Mar 31 April 1973 Observer Bla-Ri/Rm-Ri Julian Day

[illegible]

Dome Temp. -02°C 90%

342

fruit for rose

Date 1/2 April FRI/SAT 1977 Observer W+n-Ri Julian Day

[illegible]

Dome Temp.

Transparency Conditions *hazy*

344

[illegible]

098-01E 26046-26037

Dome Ten

Focus

Dome Ter

Hour Angle
End

232

 $0^2 + 2$

150

3:07

022

014538

01415A

Dome Temp. -02°C 68%

346

[illegible]

098-01E 26046 - 06047
II-0-E 74017 - 04017 Apr 1

Dome Ten
Focus
Dome Ten

Hour Angle
End

Dome Temp. -2°C $H=65\%$

Focus $85R$

Dome Temp. -7°C $H=95\%$

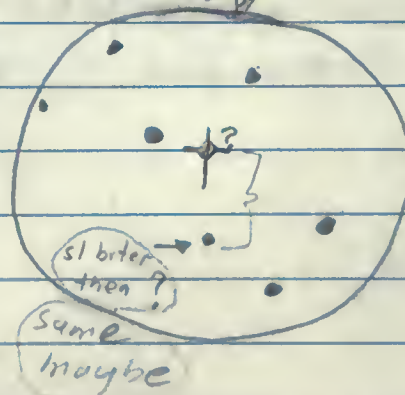
Transparency Conditions Fine - Photometric

Gusty

Dawn cloud

348

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
56	A	2 05 E	+45 44	3"-5"	7.1v	B8.5	<u>filter in</u> 1-1-1	BB-eclip. bin.	800/62	Wi-4 Filtering Ti-H some as 612	comp. v. weak on all 098
36	B	4 32 W	+33 18	"	9.2v	A4	1-1-1	"	800/59	Flux ~ 0.1-0.15 Some cloud	
41	C	1 02 E	+24 022'		7.9v	gGe	1-1-1	Bin eclip. bin.	800/43	Flux ~ 0.2-0.3 Some cloud	
32	A	2 17 E	+63 059'		7.5v	Ag+65	1-1-1	BB " "	800/63	Flux ~ 0.4- TV Failed	
15	C	4 " 32 E	+71 20	2"	4.18	ApSi	8-8-9	Lne SB	40/15		fine (99%)
3	A	3 25 E	+29 14.4	2"	6.8-7.6	F0-616-66	Cepheid/extra	400/200		TV OK now	Fine sl. str.
56	A	0 56 E	-23 21	3"	$V \approx 9.4$		1-1-2	Novae ?	800/25	cloud came after moon much background light (city)	tot. of spec continuum etc Hd strong comp on v. wk
23	B	0 12 E	+71 20.8	2"-3"	4.18	ApSi	9-8-8	Lne SB	40/14	cloud by dawn	Fine
(Karl More 098 needed for BB's next run II 00 8" } Dq 68°F 0.17 098 4" } 0.25											



Dao-E 14017 - Apr 1
 Dao-E 01126 - 06047

Dome Temp. _____
Focus ... 10. _____
Dome Temp. _____

Hour Angle
End

Dome Temp. $-6^{\circ} 70^{\circ} 70$.Focus $100R$.Dome Temp. $-8^{\circ} 877$.Transparency Conditions $Very\ good$.

350

ng Time S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
0:13	B	02 27W	+16 27.7	2-3"	1.93	A0 IV	9-9-9	std. star	40/106	Labelled? Probable dB/Exp	
0:27	B	02 41W			"	"	9-9-9	"	40/51		vs/str.
	H	ended because of dB/Exp suspicion					9-9	"	40/-	should be a blank plate in box	
0:57	B	03 11 W			1.93		8-8-9	"	40/99		str.
0:05	C	03 19 W			1.93		9-9-9	"	40/27		
0:10	A	03:24 W			1.93		9-18	"	40/12.		
0:08	B	03:53 W	+20 29.8	1-2"	7.20	⁹⁶⁵ +A2	7-7-7	VB Bln	400/205		fine
0:14	C	0 27W	+35 45.3	3"	4.95	B7 V	^{Not filter} 5-5-5	SB-Bln/Ly	200/360	glued Prism on, OK	RHS
										(*Note 2 cal's done. One may have been upside down)	
	B		+14 274		6.07	A m	7	Ecl. Bin-Bln	200/-	Cloud no good	
						Π_{20}	7"	Dis	0.17		
						Π_{25}	5"		0.09		

ΠαΟ-ε 14017 - 17037

Dome Tern

Focus

Dome Tern

Hour Angle
End

1. 1.

0568

101

35

240

37

Dome Temp. $+1^{\circ}\text{C}$ H=60%Focus 80R

Dome Temp.

Transparency Conditions *Excellent - sl haze by 1:30* 352

ing Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
052	A	1:20 W	-2 25.8	2"	6.57	FO	^{Fil Herin} 7-8-8	Close Bin - W	400/180		fine/v sl str
											sl str.
2:16	B	1:00 W	+31 45	1-2"	6.60	F5	8-8-8	Close Prin - W	400/180		fine/v sl str
3:03	C	0 56 E	+21 24	"	5.86	KO	8-8-8	"	200/100		fine/v sl str
3:15	A	2 01 E	+51 54	"	4.60	A4	8-8-8	"	400/145		v sl str
4:44	B	0 35 E	"	1"	6.61	FO	8-8-8	"	400/180		fine/v sl str
5:55	C	2 40 W	+48 39.9	1-2"	8.7	K2 III	8-6-6	Wide Bin, West	800/405	cloud mostly	fine
							7" D19 68°F 0.18				

357

IIa0-e 14017 - Apr. 1
 098-01e 26046 - 09047
 IIa0-e 14017 - 09047

Date Sun/Mon. Apr 10/11 1977 Observer BB-Tn/Tn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
41448	HD47105 (γ Cen)	6 ^h 31.9	+16°29'	G12	IIa0-e	9/1.9	44°F	19:32	19 52	B	2 14V
41449	"	"	"	"	"	"		19 52	20 04	C	2 26V
41450	"	"	"	"	"	"		20 06	20 14	B	2 33V
41451	"	"	"	"	"	"		20 15	20 20	A	2 42V
41452	"	"	"	"	"	"		20 21	20 23	C	2 45V
41452 T	Strip Cal'n for	41448-52			"	90sec					
41453	HD93033 (TX UMa)	10 ^h 39.5	+46°05'	G65	098-01E	20/1.4		20 47	21 18	A	2 27E
41454	HD117555 (FK Cen)	13 ^h 26.1	+24°44'	G65	"	"		21 25	23 25	B	1:00E
41454 T1	Spot Cal'n for	41453-56			"	15 min @		0315V D1 7V D2 7V 4810 Hx 5450			
41454 T2	Strip Cal'n for	41453-56			"	90sec					
41455	HD136175 (U Cen)	15 ^h 14.1	+32°01'	G65	"	20/1.4		23 29	00 36	C	01 42E
41456	HD139319	15 32.4	+69 14	"	"	"	40°F	00 42	01 31	A	01 04E
41457	HD 170000	18 22.2	+71 17	G12	IIa0-e*	9/1.5		01 44	02 11	B	03 11E
41458	HD 186680	19 40.8	+29 01	"	"	25/1.5		02 18	04 14	C	02 30E
41458 T	Strip Cal'n for	41457-59			"	90sec		7			
41459	HD 170000	18 22.2	+71 17	G12	"	9/1.5		04 30	05 02	A	0 19E

Dome Temp. $+6^{\circ}\text{C}$ H=52%

Focus 60-R

Dome Temp. $+3^{\circ}\text{C}$ H=80%Transparency Conditions *Hazy - some cloud*

354

g Time ST.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Program	Exp. Mtr.	REMARKS	Quality
52	E	2 14W	+16 27.4	2.3"	1.93	A0 IV	^{Filter in} 9-9-9	Std Star-Bln	40/100		Str.
04	C	2 26W			"	"	9-9-9	"	40/50		sl. str.
14	E	2 36W			"	"	13-13	"	40/25	cloud - 2 slow	fine
20	A	2 42W			"	"	13-13	"	40/12		sl. str.
23	C	2 45W					13-13		40/6		wh
18	A	0 27E	+45°40'		7.1v	B8.5	^{Filter in} 8-8-8	BB eclips. bin.	800/62	Yellow written Filter in	
25	A	1 04E	+24°21'	4"	7.9v	g6e	^{Filter in} 8-8-8	Blu " "	800/43	some cloud → lotsa cloud!	
27											4510 sl
36	C	01 42E	+31°45.3	2.4"	7.7v	B5	^{Filter in} 8-8-8	BB eclips. bin	800/65	Flux ~ 0.5-0.6 cloud	
31	A	01 04E	+63 59	3.5"	7.5v	^{AB+} G5	8-8-8	"	800/60	some cloud	
11		03 11E	+71 19	"	4.18	Aps1	9-9-9	SpBin-Lne	200/70	*	fine
14	C	02 30E	+29 12.5	3.5"	^{G.8-} 7.66	^{FO-} G1	6-5-5	Ceph-Rm	800/400	All IIc0's in Exp box #3	fine
										Both Nova Vul & Nova 7 Sgr are very faint (> 9th mag)	
02	A	0 19E	+71 20	8"-no	4.18	Aps1	9-9-9	SPBin-Lne	200/70	over	fine

260

356

anding Time
E.S.T.

357

B
B
B
C
F
H
L
M
M
M

T.H.

HANDBOUND
AT THE



UNIVERSITY OF
TORONTO PRESS

BB = Barrow Baldwin

Blh = Tom Bolton

But = Stewart Button

CM = Cathy Martin "waterloo"

Fgi = Dot Fraguelli

Hu = Roel Hurkins

KK = Karl Kampier

Ly = Ron Lyons

McW = Mac Waters

Mor = Steve Morris

MR = Obviously Dr MacRae

Ri = Archie Ridder

Rm = Nancy Evans

Tms = Dave Toms

Tn = Jim Thomson

Wtn = Mike Workentin

Zd = Donna Zubrod

Tilt G8 - G16 grating (one turn below OB)

G16 - " " 0.7 B

