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1

Inside displaced to violet means focus should be made shorter.

Pressing in right hand switch of dome turning relay
moved dome to the east.

Plate No					
End of					
1945	Feb	10923			
	Mar	11010	87		
	Apr	11063	53		
	May	11081	18		
	June	11161	80		
	July	11229	68	68	
	Aug.	11381	152	220	
	Sept	11543	162	382	
	Oct	11626	83	465	
	Nov	11694	68	533	

1945

Date Monday Feb 19-20

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
10917	HD 52554	6 56.6	17 53	I-25	E103a-D	008	-2.5	7 18	8 00
Thursday Feb. 22-23									
High winds; cloudy - H									
Friday February 23-24, 1945									
Cloudy - H									
Sunday February 25-26, 1945									
Clear all day; cloudy late afternoon									

Hour Angle
End

1 26 E +

1 26 E +

Focus 23.81

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 20 E	+17 51	0	7.55 Ma	2-2-2	clouded.
					very faint Feb. 22 MC SC MT ST +59.0 +29.4 +02.2 +0.3 ^m 26 +61.8 +31.1 00 +0.1 ^m real, stopped

cloudy all night

... .. 10

Nov 22 1951

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 25 E	+38 29	0	7.07 K5	2-2-2	weak
0 31 E	+15 57	0-1	7.50 K0	2-2-2	max intensity
0 12 E	+23 43	1-	7.42 K0	2-2-2	seeing variable
0 17 E	+57 50	1	7.72 K5	2-2-2	fine
0 34 W	+05 54	0	7.31 K0	2-2-2	strong
1 49 W	+13 28	1	7.40 K0	2-2-2	windy - seeing variable strong
					4 plates + full exp
					Wed. "Clearish" early evening; cloud spotty, clear etc

11

Date 1945 Thursday, March 1-2 H-U Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10924	HD 61035	07 32.2	+24 36	T-25	E-103a-0	set 008	+1.8	19 36	20 12	0 36
1945 Friday, March 2-3, H-					cloudy with rain					

focus unchanged

Ending Time
I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
34 E	24 31	0	6.60 Fo	2-2-2	clouds & haze, good
9 E	8 48	0	6.90 B5	2-2-2	good
11 W	5 01	0	5.66 A0	2-2-2	Heavy wind, fine
39 W	4 06	0	7.07 B5	2-2-2	fine
1 02 W	10 17	0	6.30 A0	2-2-2	wind bothering, fine
				2-5	center slightly, fine
Plate Box in Dome					

Date Sunday March 4-5, 1945 H-U Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
10930	H.D. 45724	06 24.0	+02 43	I-25	E-103 _n -0	^{set} 008	+1.6	18 52	20 12	1 20	
10931	48348	06 37.9	+03 08	"	"	"	+1.5	20 15	21 45	1 30	
10932	62264	07 38.0	+00 26	"	"	"	+1.5	21 09	21 47	1 38	
10933	69682	08 12.9	+53 53	"	"	"	+1.5	21 55	22 27	1 32	
10934	67224	08 01.9	+58 33	"	"	"	+1.3	22 31	23 01	1 30	
10935	68077	08 05.8	+56 46	"	"	"	+1.4	23 04	23 35	1 31	
10936	77309	08 56.7	+54 41	"	"	"	+1.4	23 24	23 50	1 26	
10937	67827	08 04.7	+39 02	"	"	"	+1.5	23 59	0 27	1 28	
Tuesday, March 6-7, 1945 - 14							Road ploughed out; drove				
cloudy all day & early evening. Partly clearing about 9 ⁰⁰ ; filling in shortly thereafter. Clearing again, but very haze. Spent over 2 hrs up at 10 ³⁰ but thick haze came over much of sky.											

South-east wind,

Clear most of day; clouding in 4-6
then gradually thinning out

Found focussing belt off when I
opened up the telescope.

Focus unchanged

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0	18 W	+02 41	0	7.74 Ma 2-2-2	Light scattered clouds much of upper
0	58 W	+03 08	0-1	7.44 K0 2-2-2	Light clouds - thinning. +
0	41 W	+00 19	0-1	7.14 G5 2-2-2	
0	42 W	+50 47	0	6.64 F0 2-2-2	
1	28 W	+58 28	0-1	7.05 K0 2-2-2	
1	55 W	+56 39	0-1	6.90 K0 2-2-2	Haze increasing
1	28 W	+54 31	0-1	5.74 A2 2-2-2	Get strong.
3	02 W	+38 55	1	7.03 G5 2-2-2	Haze becoming more general. Thick.
Transparency very variable all night.					5 + 12 plates in lower.
+ Aeroplane plane from low plane drifted to T. office, first day since Dec 12, 1944 edge of walk in front of office. Stand, red for some seconds after reaching ground. Came down at high speed, but if it had hit wire?					

1945 Mar 5

MC
-00.7SC
+34.6MTW
+06.0STW
+0.4

18

Focus not changed

Ending Time
E.S.T.Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

1 20 W

+02 19

0

7.09 K5 2-2.2

Hazy. ^{W.S. 11-} ~~Chickens~~ barely visible
last half of exposure.

3-5 mag haze over most of sky at close.

Completely cloudy by time I closed up.

This is known as getting photos the hard way.

Focus 2377

adjusted guiding Tel.

Reading Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
18 22	6 ^m E	11 03	0-1	7.78 Ma	2-2-2	wide
20 37	19 E	22 35	0-1	7.34 KO	2-2-2	very good
21 03	9 ^m W	-19 58	0-1	7.28 KO	2-2-2	very good
21 40	27 W	5 01	0-1	5.66 AO	3-3	fine
22 01	37 W	2 56	1	7.48 KO	2-2-2	good
22 11	1 08 W	1 42	1	7.76 Ma	2-2-2	little work

	MC	SC	MTW	STW
Mar. 8	+01.4	+35.6	+18.2	+0.7

Date 1945 March 8-9 Sunday N.H. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
10945	HD 56541	07 14.0	+22 50	1-25	E-10320	0'008	+0.7	18 46		3	
10946	65757	07 57.7	+23 53	"	"	"	+0.9	19 43	20 25	0 45 E	
	69149	08 10.6	+54 26								
10947	62407	07 38.7	+13 07	"	"	"	+0.9	21 02	21 38	1 0 45 W	
10948	{ focus test	65522	07 54.0	+13 30	"	"	+0.8	21 01	22 18	2 1 0 W	
Friday March 9-10, 1945 - H							cloudy + mild with 1-2" of wet snow				
Sat -							opened up but - clouded				
							Box and dome				
Sunday March 11-12, 1945							17:00 cloudy in afternoon; cleared but haze				

old model

from ...

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Exp.	REMARKS
0 43 E	+12 49	0-1	7.57 K ₀	2-2-1		ring ...!
0 45 E	+23 48	0-1	7.42 K ₀	2-2-2		- some turning releasing to work
			7.58 K₅			R.A. clamp switch came off. Clamping by hand. ↓
0 45 W	+13 03	1-2	7.50 K ₀	2-2-2		still cloud?
1 10 W	+13 24+	1	7.38 K ₅	2-4		Clouds 21.53 - probably ...
						two ...
						+4 + 2 ...
						MTW STW - 23.0 - 0.7 (adv 1 mi)

Apr. 12 MC +04.7 SC +38.0

before sunset, started to ... up (high) before dark but ...

Date Mon. March 12-13

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10945	HD 56941	7 ^h 14.0	+42 50	I-25	E103a-0	008	+3.7	6 52	7 32	3
10946	62407	7 38.7	13 07	"	"	"	+3.8	7 37	8 17	4
10947	65522	7 54.0	13 30	"	"	"	+3.7	8 20	9 00	1
10948	64938	7 51.2	04 44	"	"	"	+3.7	9 04	9 44	2
10949	72208	8 26.5	10 09	"	"	"	+3.7	9 47	10 17	3
10950	99967	11 25.0	47 12	"	"	"				
<p>On setting on 99967 - could not get dec S.M. to work - thought at first it was just at end of its run but on moving telescope down so I could get at it - could not get motor to turn at all</p> <p>Motor gone wrong?</p>										

Date Tuesday, March 13-14, 1945 H Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10950	HD 60654	7 30.5	+40 14	I-25	E-103a-0	^{Set} 008	+06.8	19 00	20 04	4)
10951	65757	7 55.1	+23 53	"	"	"	+6.8	20 07	20 47	0 12
10952	69478	8 12.1	+09 11	"	"	"	+6.8	20 53	21 23	2
10953	69149	8 10.6	+54 26	"	"	"	+6.8	21 27	22 07	3
10954	69682	8 12.7	+53 53	"	"	"✓	+6.7	22 12	22 34	4
10955	73131	8 31.6	+53 16	"	"	"	+6.7	22 37	23 21	7
10956	99967	11 25.0	+47 12	"	"	"	+6.8	23 25	0 17	2
Thursday, March 15-16, 1945-H - Hazy at sunset, to dusk 5:00; bright										

Delay in starting because in setting up first star the wooden hand-wheels (dec motion) dropped off metal rods. Had to bring telescope down and put in a nail. Focus set 23.67

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
4	0 22 E	+40 10	1	7.92 Ma	2-2-2 good										
	0 03 E	+23 47	1	7.42 K0	2-2-2 Seeing variable fine										
	0 16 W	+09 03	1	7.31 K0	2-2-2 fine										
	1 01 W	+54 22	1-2	7.58 K5	2-2-2 fine										
	1 26 W	+53 48	1	6.64 F0	2-2-2 ok temp										
	1 53 W	+53 07	1	7.54 K2	2-2-2 fine										
	0 02 E	+47 00	1-0	7.49 K0	2-2-2 Northcott's binary. ok stars										
Wed.															
filling in artist															
sky thick - south wind not much hope of getting 2 remaining stars															
<table style="margin-left:auto; margin-right:0;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Mar. 15</td> <td>+06.8</td> <td>+39.1</td> <td>+06.8</td> <td>+0.2^m</td> </tr> </table>							MC	SC	MTW	STW	Mar. 15	+06.8	+39.1	+06.8	+0.2 ^m
	MC	SC	MTW	STW											
Mar. 15	+06.8	+39.1	+06.8	+0.2 ^m											

4.5m y. stars.
 Pen. comp. mirror OK.
 Focus set 23.57 ±

Ending Time
 R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 24W	+03 28	0	7.94 Ma	2-2-2 difficulty focusing too much on twilight, tab +25% Too weak
3 06W	+32 11	0	4.66 B1	3-3; 3-3 exposure 4" and 7" ; mirror out 2" 2.1 Too weak
1 24W	+46 07	0	6.61 A3	2-2-2 ← Unclamped by hand! RA clamp refuses to work. Too weak
0 15E	+00 07	0	7.77 K5	2-2-2 done dripping Having seen that mirror being exposed - 3rd up! Too weak
				2 holders loaded, 1 full box of plates
				Sat - too windy up to 11 ⁰⁰ PM.

Date Sunday, March 18-19, 1945 N-U Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
10961	HD 64052	07.46.9	+0.3 32	T-25	E-102a-0	300 ^μ 008	+13.5	19 03½	21 36½

Hour Angle
End

From alt 23.57

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS															
21 11 ³	1 15W	+03:26	1	7.94 Ma	2-2-2	Light haze - increasing. Thicker & thicker & thicker															
						<table border="0"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MT^s</th> <th>SC^m</th> </tr> </thead> <tbody> <tr> <td>Mar. 19</td> <td>+10.0</td> <td>+40.4</td> <td>+26.2</td> <td>+0.1</td> </tr> <tr> <td>Mar. 22</td> <td>+11.4</td> <td>+41.8</td> <td>-27.0^s</td> <td>-0.0^m</td> </tr> </tbody> </table> <p style="text-align: right;">reset.</p>		MC	SC	MT ^s	SC ^m	Mar. 19	+10.0	+40.4	+26.2	+0.1	Mar. 22	+11.4	+41.8	-27.0 ^s	-0.0 ^m
	MC	SC	MT ^s	SC ^m																	
Mar. 19	+10.0	+40.4	+26.2	+0.1																	
Mar. 22	+11.4	+41.8	-27.0 ^s	-0.0 ^m																	

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Date Thursday, March 22-23, 1945 17 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	De
10962	HD 63630	07.44.8	+46 12	I-25	E-103a-0	^{S+} 008	+7.7	20 35	21 35	4	1 21 W +4
10962	99967	11 25.0	+47 12	"	"	"	+7.6	22 00	23 00	1	0 44 E

Thick clouds end of afternoon and early dark; clear down in the 32 west. early evening, but edge of bands not moving off overhead until after 20⁰⁰.

Forams set 23.66

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 35.4	1 30 W	+46 08	0	6.53 A3	2-2-2 ^{Binary} Few light clouds patches. Thick clouds 21 ⁰⁰ ; star gone 21 ⁰³ - 21 ²³ ; due to bright moonlit clouds, the spectrograph slit was protected by putting in the finding mirror. Haze - light clouds
23 41.1	0 44 E	+46 59	0-1	7.49 K0	2-2-2 Clouds 22 ³⁰ - 22 ⁴⁵ ; 22 ⁵⁵ star gone Clouding up completely. Closed up 23 ¹⁵

Date 1945 Mar. 23-24 Friday N-U Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Di
10964	HD 31078 Polaris	05 09.7	+34 12	I 25'	E 103a-0	1M .008	+08.0	19 ^h 10 ^m	19 ^h 17 ^m		
	"					L .005		19 ^h 19 ^m	19 ^h 30 ^m		
10965	HD 36371 X Aur	05 26.2	+32 07	-	-	-	08.0	19 35	20 15	3	57 13
10966	HD 45194	06 21.0	+13 10	-	-	M 0.008	08.1	19 54.5	20 10	4	1424
10967	63630	07 44.8	+46 12	-	-	-	00.1	20 25	20 51	1	2506 4
10968	68461	08 07.4	+16 49	-	-	-	+08.1	20 55	21 21	2	0 00 0
10969	HD 80493 YP 2046; d. Lyne	09 15.0	+34 49	-	-	-	+09.0	21 46	21 43	3	0 00 0
10970	HD 82635 3007; 10 L Mi	09 28.1	+36 50	-	-	-	+08.0	21 48	22 17	4	0 00 0
10971	HD 84441 3058; e Leo	09 40.2	+24 14	-	-	-	+08.1	22 15	22 34	1	0 00 0
10972	HD 86663 3124; n Leo	09 54.9	+08 31	-	-	-	+08.0	22 34	22 52		1424
10973	HD 99967 40000 test	11 25.0	+47 12	-	-	-	09.0	23 11	23 53	3	0 00 0

Cloudy most of day, mostly clear afternoon, but considerable haze.

Form unchanged

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	MTW +23.5	STW -0.3
1 51 W	+34 16	1	5.57 Bo	3-3 7 ^m setting		Binary
2 03 W				3-3 11 ^m setting		
1 59 W	+32 12	1-2	4.66 B1	3-3;3-3 2.5 ^m 4 ^m flipped in last 2 ^m		Weak
1 42 W	+13 11	1-2	7.09 F8	2-2-2 seeing improving		Binary
0 50 W	+46 07	1-0	6.61 A3	2-2-2 seeing deteriorating again		Binary
0 53 W	+16 43	1	6.90 G6	2-2-2		Binary
0 12 W	+34 39	1	5.0 Mo	3-3;3-3 exposures 6 (10 ^m flip in), 11 (8 ^m flip in)		Also binary
0 26 W	36 42	1	5.4 G5	3-3;3-3 8 (10 ^m flip in), 14 (10 ^m flip in)		Also binary
0 37 W	+24 02	1	3.9 eG5	2;6;6 2 ^m (1 ^m 30 ^s in), 2 ^m 30 ^s (1 ^m 34 ^s in), 3 (2 ^m 10 ^s in)		Also binary
0 54 W	08 22	1	6.7 M2	2-2-2 flipped in 2 ^m		Also binary
0 13 W	47 01	1-2	7.49 Ko	2-2-2		Binary

9 stars described as all types.
 11 x 1 of type

Date 1945 Sat. Mar 24-25

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10974	HD 45194 HD52973	6 21.0	+13 10	I-25	E103a-D	008	+13.0	7 12	7 44	1 10 W
10975	YP 2228 S gem HD61421	6 58.2	20 43	"	"	"	+13.0	7 50	8 00	2 50 W
10976	YP 2423 α Can Min	7 34.1	5 29	"	"	"	+12.?	8 15	8 15	3 30 W
10977	HD 63630 HD77912	7 48.8	46 12	"	"	"	+12.8	8 30	8 52	4 55 W
10978	YP 2874, B 2437	9 00.2	38 51	"	"	"	+12.6	8 58	9 20	5 07 W
10979	HD 82780 HD 82308	9 29.1	40 24	"	"	"	+12.9	9 24	9 54	6 13 W
10980	YP 2993 λ Leo	9 26.0	23 25	"	"	"	+12.9	9 59	10 16	7 42 W
10981	HD 99967 HD 95128	11 25.0	47 12	"	"	"	+13.0	10 21	11 01	8 36 E
10982	YP 3370 γ U. May HD 98839	10 53.9	40 58	"	"	"	+12.9	11 10	11 30	9 24 W
10983	YP 3466 δ "	11 17.3	44 02	"	"	"	+12.9	11 34	11 54	10 17 W

Date Sunday March 25-26 H-U Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10984	HD 35468 γ Ori HD 36371	05 19.8	+06 16	F-25"	E1020	.205	14.8	19 ^h 13 ^m 10 ^s	19 1 40	5 ^m
10985	χ Aur HD 34078	05 26.2	+32 07	"	"	"	14.8	19 27	20 07	33 ^m
10986	β Cas 1249 HD 35497	05 09.7	+34 12	"	"	"	14.7	20 12	2 02	4 ^m
10987	β Jan HD 34078	05 20.0	+28 31	"	"	"	14.7	20 45 10 ^a	20 11 00	32 ^m
10988	β Cas 1249 HD 34078	05 09.7	+34 12	"	"	"	14.7	20 52	2 11	31 ^m
10989	HD 63630 HD 85503	07 44.8	46 12	"	"	"	14.5	21 52	23 02	31 ^m
10990	γ P 22 HD 90277	09 41.1	26 29	"	"	"	14.5	22 05 30 ^a	22 31 00	30 ^m
10991	γ P 3216 30 ^a Lulin	10 20.2	34 18	"	"	"	14.6	22 52 50 ^a	23 05 00	30 ^m
10992	HD 82780 HD 97778	09 29.1	40 24	"	"	"	14.6	23 22	0 04	2 20 ^m
10993	γ P 3437 - 72 ^a Lulin	11 09.9	+23 38	"	"	"	14.6	0 07	0 31	30 ^m
10994	Transit - outside the line HD 106760 γ P 3687	12 11.5	+33 37	"	"	"	14.5	0 36	1 00 2	42 ^m 40 ^s

Light haze, strong E wind.

Focus set 23.56

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
0150W	16	19	0	1.51	B2 6,6,6,6	20°, 30°, 50° 100 ²												
0233W	32	11	0	4.66	B1 3-3,3-3,3-	8 ^m ; 12 ^m ; 20 ^m Flipper in 10 ^m												
0319W	34	15	0	5.57	B0 3-3;	20 ^m												
0320W	28	35	0	1.73	B8 6,6,6,	24°; 40°; 100°												
0409W	34	15	0	5.57	B0 3-3	Flipper in 25 ^m Increasing haze. Contact. adj. OK.												
0430W	46	07	0	6.61	F3 2-2-2	Much haze Binary												
0055W	26	19	0-1	5.5	R3 3-3,3-3	9 ^m , 15 ^m Flipper in 2/3 Haze decreasing												
0100W	34	05	0-1	5.1	F0 3-3, 3-3	6 ^m 10 ^m Flipper in 1/2												
0227W	41	15	0	6.90	F2 2-2-2	Binary Delayed. Haze is												
0113W	+23	27	0-1	6.2	Ma 3-3	10 ² /7 ⁵												
0042W	+33	25	0-1	6.1	K0 3-3	Flipper in 2 ^m												
						Increasing haze and light with clouds.												
						3 loaded baskets + 1 box of 12 plates												
						Several Junco birds on dome during night												
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Mar. 26</td> <td>+13.8</td> <td>+43.3</td> <td>-14.2</td> <td>-0.0</td> <td>+03.8</td> </tr> </table>		MC	SC	HTW	STW	SW	Mar. 26	+13.8	+43.3	-14.2	-0.0	+03.8
	MC	SC	HTW	STW	SW													
Mar. 26	+13.8	+43.3	-14.2	-0.0	+03.8													

Date Tuesday March 27-28, 1945 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
10995	HD 34078 X <i>Ans</i> HD 36371	05 26.7	+32 07	I-25	E-103a-0	ST L005	19.2	19 19	20 09	3
10996	HD 34078 Brose 1249	05 09.7	+34 12	"	"	"	19.2	20 11	20 47	4
10997	HD 63630	07 44.8	+46 12	"	"	M 008	19.2	20 51	21 15	1
10998	82780	09 29.1	+40 24	"	"	"	19.2	21 18	21 40	2
10999	99967	11 25.0	+47 12	"	"	"	19.2	21 52	22 40	5
11000	HD 92125 YP3273 = 37 <i>Ans</i>	10 33.1	+32 30	"	"	"	19.1	22 46	23 00	4
11001	HD 94264 YP3341 = 41 <i>Ans</i>	10 47.7	+24 45	"	"	"	19.1	23 06	23 50	1
11002	HD 98230/1 3451 = 57 <i>Ans</i>	11 12.9	+32 06	"	"	"	19.0	23 27	24 45	2
11003	HD 101153 3528 = 65 <i>Ans</i>	11 33.3	+35 41	"	"	"	19.0	23 47	0 30	1
	<i>Focus test</i> - extend the base									
11004	HD 107700 YP3733 12 <i>Ans</i>	12 17.5	+26 24	"	"	"	19.0	0 35	1 57	4

HSH's class, Astronomy 26 visited dome 18⁵⁰-19¹⁵ this night 40
 at 1, 2, 3, 4, 5, 6 to 4. See Orion nebula in Pleiades

Temp in dome 67°F before opening.

Transit 2349

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 42 W	+32 11	1	4.66 B1	3; 3-3; 3-3	28 ^m (diff in 16 ^m); 14 ^m ; 7 ^m	
3 37 W	+34 17	1	5.57 B0	3-3		
1 29 W	+46 07	1	6.61 A3	2-2-2	Binary	
0 20 W	+40 13	1	6.90 F2	2-2-2	Binary	looked from grass fire.
0 42 E	+47 02	1-0	7.49 K2	2-2-2	Binary	
0 30 W	+32 16	1-0	5.4 G0	3-3; 6	10 ^m ; 6 ^m	(diff in 2/3)
0 39 W	+34 33	0	4.9 K2	6; 6; 6	3 ^m 6 ^m 9 ^m	" " 2/3 (see Orion nebula at 11)
0 31 W	+31 52	0	4.5 G0	6; 6;	120 ^s ; 4 ^m ; 6 ^{1/2} ^m	1/2
0 59 W	+18 30	0-1	6.9 M6	3-3		diff in 1/2
					10 ^s /7 ^s	
0 37 W	+26 11	0	5.2 F5	6; 6	10 ^m ; 8 ^m	diff in 1/2 Light rays

Date Wed Mar 28-29

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11005	HD 68461	8 07.4	16 49	I-25	E103a-0	008	+20.3	7 33	8 05	1 W
11006	82780	9 29.1	40 24	"	"	"	+20.3	8 06	8 36	2 49 E
11007	HD 86728 YP 3125 20 Leo Min HD 39010	9 55.2	32 25	"	"	"	20.4	8 44	9 08	3 41 E
11008	YP 3174 35 Leo HD 89025	10 11.0	24 00	"	"	"	20.4	9 13	9 39	4 28 E
11009	YP 3176 S "	10 11.1	23 55	"	"	"		9 43	9 51	1 16 E
11010	HD 99967	11 25.0	47 12	"	"	"	+20.2	10 01	10 51	30° E
	Focus.									
11011	YP 3582 9.1830	11 47.2	38 26	"	"	"	+20.1	10 58		
	Thurs 1945 Mar 29-30				cloudy with showers					N
	Friday March 30-31				cloudy with showers					H
	Saturday				clear or partly at 9 ⁰⁰ cloudy 10 ⁰⁰ -11 ⁰⁰ did not stay beyond					Y
	Sunday April 1-2				Cloudy sunset on; partly clearing but very hazy					

Focus unchanged.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS															
1:15	1 ^m W.	16 44	1	690 G6	2-2-2	very high wind															
2:20	49 E	40 16	1	690 F2	2-2-2	good															
2:28	41 E	32 13	1	64 G5	3-3 3-3	8 ^m 16 ^m F 1/2															
3:20	28 E	23 48	1	6.5 G0	3-3 3-3	10 16 "															
4:51	16 E	—	1	39 F0	5-5-5	1 ^m 2 ^m 3 ^m F 1/2															
5:51	30 ^m E	47 01	1	749 K0	2-2-2	fine															
	38 10	1	7.3	G5	2-	too many clouds															
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>NTW_s</td> <td>STW_m</td> </tr> <tr> <td>Mar. 29-30</td> <td>+15.5</td> <td>+45.2</td> <td>-03.7</td> <td>+0.2</td> </tr> <tr> <td>Apr. 2</td> <td>+17.2</td> <td>+47.3</td> <td>+24.2</td> <td>+0.1</td> </tr> </table>		MC	SC	NTW _s	STW _m	Mar. 29-30	+15.5	+45.2	-03.7	+0.2	Apr. 2	+17.2	+47.3	+24.2	+0.1
	MC	SC	NTW _s	STW _m																	
Mar. 29-30	+15.5	+45.2	-03.7	+0.2																	
Apr. 2	+17.2	+47.3	+24.2	+0.1																	
						even overhead, 9-10 ³⁰ . Increasing clouds thereafter.															

snowflurries during day and early evening 46
 with very high winds. gradually clearing
 after dark; wind still strong.

LOOKS 28.70

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1	16 E	+ 47 00	0-1	7.70 K ₀	2-2-2 good
1	18 W	+ 40 15	0-1	6.90 F ₂	2-2-2 L. weak
0	54 W	37 02	0-1	5.4 K ₀	2-3, 3-3 8 ^m Hyper m, 12 ^m Hyper m 5 ^m fine
0	38 W	37 05	0-1	7.21 A ₂	2-2-2 fine
					clouds in north.
					3 plates exposed

Found that ① back of holder #4 was not in place; discarded plate
 ② back of holder #2 was inverted; reversed before exposure
 Clouds in afternoon; clearing around sunset. Variable S-SW wind. 48
 Focus set 23.65

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 51	2 23 W	+13 08	1	7.09 F8	2-2-2	Image small but <u>very</u> <u>well</u> steady; little <u>noise</u> <u>good</u>
20 52	0 03 E	+40 14	1	6.90 F2	2-2-2	← Clouds in NE over field of HD 99967 led to <u>preformation</u> <u>of setting</u> on 99967. Light scattered clouds during exposure <u>fine</u>
20 53	1 08 E	+47 02	1-2	7.49 K0	2-2-2	Light clouds occasionally <u>fine</u>
20 54	0 40 W	+23 25	1	6.2 F5	3-3;3-3	10 ^m ; +8-20 ^m Clouds during second exposure <u>good</u>
20 55	0 59 W	+19 44	1	5.4 F5	6;3-3	6 ^m ; 12 ^m 3 flips $\frac{1}{2}$ <u>fine</u>
20 56	0 40 W	+37 05	1-2	7.21 A2	2-2-	Increasing clouds. Star gone 23 ²⁰ . <u>little</u> <u>noise</u> Still think 23 ⁴⁰ - closed up. 2 holders loaded + 8 plates in tray

49

Date Sat Apr 7-8

Y.

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H
11022	HD 82780	9 29.1	40 24	I-25	E103a-0	008	+12.5	7 28	8 08	3
11023	99967	11 250	47 12	"	"	"	+12.5	8 16	9 06	4
11024	99302	11 205	27 19	"	"	"	+12.6	9 15		1

Hour Angle
End

38 E

1 35 E

1

Focus 23.60

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
208	38 E	+40 15	0-1	6.90 F2	2-2-2	Some haze
206	1 35 E	+47 02	0-1-2	749 . K0	2-2-2	clouds & haze.
		+27 05		721 A2	2-	star gone most of time - plate discarded
Plate Box in dome -						

fine
very good

Date Monday, April 8-9, 1945 H-U Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11024	HL 63630	07 51.9	46 12	I-25	L103 ₆₀	M .008	+16.5	14 27	11 40	2
11025	HL 82150	09 29.1	40 24			"	16.4	19 5	20 20	-
11026	HL 99961 HD 95735	11 25.0	47 12		"	"	16.5	20 31	21 15	-
11027	YP 3359 21.1.1945 HD 111812	10 57.9	36 31		"	"	16.5	21 20	22 00	-
11028	YP 3876 = 31 Gma HD 113416	12 46.8	+28 05	"	"	"	16.4	0 23	0 45	2
11029	YP 3936 = 4. 2. 1945	13 02.4	+28 10	"	"	"		0 25	1 13	0
	Focus test		Tide the base							

Focus 23.52

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 5	46 07	1-2	6.61	A3 2-2	slightly heavy
0 14 E	40 13	1-2	6.7	F2 2-2-2	very good
1 21 E	47 10	1-2	7.7	H0 2-2-2	fine
2 11 W	31 24	1-2	9.0	1.6 2-2-2	stopped in at 22 ^h 36 ^m good
3 45 W	+27 52	1-2	5.7	G0 3-3-2	7 ^m 12 ^m 7 fine
4 55 W	+27 56	1-2	6.5	K5 3-3	very good

Date Tuesday, April 10-11, 1945 H

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11035	HD 45194	06 21.0	+13 16	I-25	E-103a-0	^{set} 008	19.6	19 39*	20 39	1 35
11036	82780 HD 89744	09 29.1	+40 24	"	"	"	19.7	20 42	21 42	2 11
11037	YP 3197 HD 89758	10 16.2	+41 44	"	"	"	19.8	21 45	22 11	3 02
11038	3198 ^{21 26.70} HD 96833	10 16.4	+42 00	"	"	"	19.5	22 14½	22 37	4 11
11039	3416 ^{ψ 26.70} HD 98262	11 04.4	+45 02	"	"	"	"	22 39½	22 57	5 09
11040	3452 ^{21 26.70} HD 103095	11 13.1	+33 38	"	"	"	19.5	23 00	23 59	2 11
11041	3582	11 47.2	+38 26	"	"	"	19.7	23 23	24 19	3 02
	} From test - outside lt. line									

Focus set 23.47

Ending Time L.S.T.	Hour:Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3 15 W	+13 11	0	7.09 F5 2-2-2	* Start delayed because telescope so far out of focus had to set on Procyon to find image in bright field.	
1 09 W	+40 14	0	6.90 F2 2-2-2		
0 52 W	+41 32	0	6.4 F6 3-3	Flippers in $\frac{1}{2}$	
1 17 W	+41 48	0	4.8 K5 3-2,3-3,3	4 ^m ; 7 ^m ; 12 ^m ; flippers in $\frac{2}{3}$	
0 4 W	+44 49	0	4.4 K1 6;6;6	3 ^m ; 5 ^m ; 8 ^m " " $\frac{2}{3}$ fine in slit	
1 03 W	33 26	0-1	5.1 K5 6;6	12 ^m ; 6 ^m " " $\frac{2}{3}$ fine, cl. stars	
1 5 W	+38 08	1-1	7.2 G5 3-3	flippers $\frac{2}{3}$ 10/7 ok (centre maybe slightly to red)	

Date Wed Apr 11-12

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11042	HD 82780	9 291	40 24	I-25	E103a-0	008	+20.0	9 44	8 44	4 SW
11043	YP 3140 3120	10 02.6	10 29	"	"	"	+20.0	8 51	9 21	1 19 W
11044	HD 89449 YP 3189 4050	10 14.3	19 59	"	"	"	+20.0	9 24	9 44	2 30 W
11045	HD 96097 YP 3399 X	10 59.9	7 53	"	"	"	+20.0	9 50	10 15	3 15 W
11046	HD 99302	11 20.5	27 19	"	"	"	+20.0	10 20	11 20	4 00 W
11047	HD 108381 YP 3754	12 22.0	28 49	"	"	"	+20.0	11 24	11 46	1 25 W
Thursday April 12-13, 1945 N - Cloudy, breaking somewhat 21:30 H										
Friday April 13-14, 1945 H Cloudy early evening. Clearing with										

Focus unchanged.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
15	W	40 15	0	6.90	F2 2-2-2	thick but getting better Sp 2x0 v. good
19	W	10 19	0	6.2	K5 2-2-2	flapper 1/3 2/3 fine
30	W	19 46	0-1	5.4	F5 3-3 3-3	" 1/2 1/2 8 ^m 12 ^m . v. good fine
15	W	7 40	0-1?	5.0	F0 5-5-5	6 ^m 8 ^m 10 ^m flapper 1/2 f
1 00	W	27 06	0-1	7.27	A2 2-2-2	star looks very ft. v. good
25	W	28 36	0-1	6.0	K3 2-2-2	l. at

	MC	SC	MTW	STW
Apr. 12	+23.0	+53.6	-05.8 reset	+0.5

clouds

high wind 20⁴⁵-21¹⁵ (about 1 mag haze across overhead). Went to open up, but decided wind was too strong for safety. Clouds rising rapidly 21¹⁵. Clearing(?) again, with wind. Point was left indoors.

59

Date *Sat. April 14-15*

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
11048	HD 82780	9 29.1	40 24	I-25	E103a-0	.008	+10.0	7 39	9 09 2	50 W	-
<i>Sunday, April 15-16, 1945 H - Cloudy</i>											
<i>Tuesday, April 17-18, 1945 H - Clear most of afternoon; cloudy</i>											

61

Date Wed. Apr 18-19

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11049	HD 99967	11 25.0	47 12	I-25	E103A-D	008			

Hour Angle
End

Date 1945 Apr. 19-20 Thursday N-U Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11049	HD 82780	09 29.1	+40 24	1-25	E-103a0	0.008	+08.3	20 22	21 22	3
11050	{ 99302	11 20.5	+27 19	"	"	"	+08.3	21 29	22 15	4
	{ focus test									

Hour Angle
End
3
X
4

Hazy clouds over much of sky at sunset. Considerable wind, blowing in north-west.

Focus 23.66 ±

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 23 W	40 15	1	6.90 F2	2-2-2	lunar halo light clouds (Corrected flipper after 1st comp)
0 46 W	27 06	1-0	7.21 A2	2-2-2	sky getting worse - clouded out. ^{2-3 min.} too weak
					4 holders loaded; full box.

Cloudy all day; clearing late afternoon.

Focus 23.65

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 04 W		+40 15	0	6.90 F2	2-2-2	Light scattered clouds 20 ⁻¹⁵ - end. Star at times almost gone. - red Increasing clouds all last half of exp. For clouds fine
1 12 W		+27 06	0	7.21 A2	2-2-2	Light clouds much of exposure. fine Haze rising in west prevented attempt to get second plate on HD 82780. Closed up 23 ³⁰ present still p. clouds + haze thickened again. (3" snow Saturday morning.)

Date Sat Apr 21-22

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11053	HD 82780	9 29.1	40 24	I-26	E103a 0	008	+4.7	7 42	8 30	3
11054	" 99302	11 20.5	27 19	"	"	"	+4.8	8 43	9 39	4
11055	^{HD102212} YP3557 25 Virgo	11 40.7	7 05	"	"	"	+4.7	9 46	10 18	1
11056	^{HD102509} 3565 93 Leo	11 42.8	20 46	"	"	"	+4.5	10 22	10 38	2
11057	^{HD107383} 3721 11 Coma	12 15.7	18 21	"	"	"	+4.6	10 42	11 14	3
11058	[HD 116594 - 70000	13 19.5	12 57	"	"	"	+4.6	11 17	12 17	4

39 W +
2 E
10 W
35 W
37 W
37 W

Sidereal watch 12^h out 68

Focus 23.70

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
8 30	39 W +40 15	0-1	6.00 F2	2-2-2	Trouble getting plate holder out.
9 39	2 ^m E 27 06	0-1	7.21 A2	2-2-2	
10 18	16 W 6 ^h 52'	0-1	5.9 M8	3-3 3-3	Dome turning faster 12 ^m 20 ^m 3/4
10 38	35 W 20 31	0-1	4.9 F4	5-5	6 - 10 1/2
11 1	37 W 18 06	1	5.9 G6	3-3 3-3	12 20 1/3 1/3
11 27	37 W 12 42	0-1	7.3 G7	2-2-2	
				1-5	
					Dome Temp +33 at end.
					Plate Box in dome.

Date Sunday, April 22-23, 1945 H Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11059	HD 82780	09 29.1	+40 24	I-25	E-103a-0	sat 008	+7.5	19 50	21 30	X 371
<p>Friday 1945 Apr. 27-28 N.</p> <p>Snow most of day with high winds. Breaking ~ 21^h but still too cloudy to observe 22:30.</p>										

Clear most of day; clouding end of afternoon.
Partly clearing after sunset.

70

Focus set 23.66

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																				
	X 1 33 W	+40 15		6.90 F 2	2-2-2 Light clouds rising from S.W before start, reaching station 05 Increase in clouds last hour of exposure. Completely cloudy by 21 ³⁰ .																				
					<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Apr. 23</td> <td>+28.6</td> <td>+59.3</td> <td>+18.6</td> <td>+0^m.2</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">reset</td> </tr> <tr> <td>Apr. 25</td> <td>+29.8</td> <td>+61.2</td> <td>+22.8</td> <td></td> </tr> </table>		MC	SC	MTW	STW	Apr. 23	+28.6	+59.3	+18.6	+0 ^m .2					reset	Apr. 25	+29.8	+61.2	+22.8	
	MC	SC	MTW	STW																					
Apr. 23	+28.6	+59.3	+18.6	+0 ^m .2																					
				reset																					
Apr. 25	+29.8	+61.2	+22.8																						

Focus 23.70

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21-5	1 ^h 22 ^m W	40 13	0-1	6.90 F2	2-2-2	windy
20-2	38 W	27 04	0-1	7.21 A2	2-2-2	very good
21-3	20 W	26 12	1	6.77 A3	2-2-2	
19-0	29 W	12 43	0-1	7.3 G7	2-2-	hazy.

Plate Box in dome.

Vel of 99302 indicate that for present
it does not need to be taken only about
once per week.

Date Sunday, April 29-30, 1945 H-U

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Sht	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11-06-3	HD 82780	09 29.1	+40 24	I-25	P-10320	008 ^{set}				2
Tuesday, May 1				Y & H replaced dec hand with repaired motor.						
				In doing this we insulated motor from base, and from shaft coupling, to see if it increased life of motor windings.						
				also replaced broken section of dec slow motor electric wire at hand switch.						

77

Date *Wed May 2-3/45*

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11064	HD 99967	11 25.0	47 12	I-25	E103a-0	.008	+13.0	8 05	10 05	1 02 W
	<i>Thurs. May 3-4.</i>		<i>Rain</i>	<i>N</i>						
1945	<i>Friday May 11-12</i>		<i>N</i>	<i>Clouded over late afternoon. Partly cleared around 21^h, clouded over again.</i>						

Fall of Berlin, announced today and
 as conditional surrender of all German forces 9:00

78

Focus 23.60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
05	1 02 W	47 00	0	749 K0	2-2-2	hazy
						found stopped
					May 5	MTW +24 ^s STW ^m +0.2
					May 7	+29 +0.2 rest - stopped
					1945 May 8	
					Tues. V.E. Day.	No one on duty.
					May 9	MC +34.6 SC +65.1 MTW ^s -0.4 STW ^m -0.1
					Wed -	generally cloudy
					Thursday - H -	cloudy with rain early evening
					Partly clearing 10 ³⁰	but clouds + haze till midnight
					clear at dawn.	

Murros washed by wind. Murros uniform rather badly exposed for focus 80

Focus as is (23.60!)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Exposure	REMARKS										
11.5	01 13 W	47 02	0	7.49 KO	2-2-2	<p>Light clouds. Time lost looking for star through lower lens plug! star looks right in the previous time. Clouds lost 1/2 of exposure. Shot all over again.</p>										
						4+8 plates in lower.										
						<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">MC</td> <td style="text-align: center;">SC</td> <td style="text-align: center;">MTW</td> <td style="text-align: center;">STW</td> </tr> <tr> <td style="text-align: right;">May 14</td> <td style="text-align: center;">+36.6</td> <td style="text-align: center;">+66.9</td> <td style="text-align: center;">+18.6</td> <td style="text-align: center;">+0.0</td> </tr> </table>		MC	SC	MTW	STW	May 14	+36.6	+66.9	+18.6	+0.0
	MC	SC	MTW	STW												
May 14	+36.6	+66.9	+18.6	+0.0												

Focus 2358

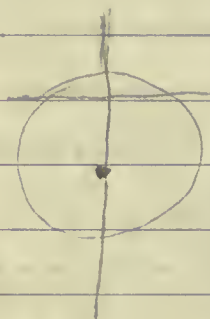
Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
	1 ^h 39 ^m W	27 07.	0	721 A2	2-2-2	very hazy															
	17 ^m E		0	1.2 K0	6-6-6	5, 10: 7, 14: 10, 20: passes.															
	14 W	16 38	0-1	64 K3	3-3	1/3 2/3															
	21 W	26 49'	0-1	67 M3	2-2-2	1/3 2/3															
						Plate Box in Dome.															
						While on archurus did lot experimenting with finder with help of Joe Horns - look out ground glass - finally got it focused. On looking in field you will see small hole in Box which can be illuminated by light we used to use for ground glass - when star is in center of this it will be on ET .															
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MTW</th> <th>STW</th> </tr> </thead> <tbody> <tr> <td>May 21</td> <td>+39.6</td> <td>+70.4</td> <td>+02.8</td> <td>0.8</td> </tr> <tr> <td>22</td> <td>+39.5</td> <td>+68.8</td> <td>+04.8</td> <td>+0.2</td> </tr> </tbody> </table>		MC	SC	MTW	STW	May 21	+39.6	+70.4	+02.8	0.8	22	+39.5	+68.8	+04.8	+0.2
	MC	SC	MTW	STW																	
May 21	+39.6	+70.4	+02.8	0.8																	
22	+39.5	+68.8	+04.8	+0.2																	

Date Wed. May 23-24

Y-D

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	A	Hour Angle End
11070	HD 99302	11 20.5	+27 19	I-25	E103a-0	.008	13.0	8 30	9.30	2	1.5
11071	" 116594 HD 129972	13 19.5	+12 57	"	"	"	12.5	9 36	10 36	3	1.0
11072	YP 4383 α Bootis HD 130817	14 40.6	+17 23	"	"	"	12.8	10 39	11 03	4	0.5
11073	[YP 4402 α Cass 3785 Focus	14 45.2	+38 13	"	"	"	12.7	11 07	11 41	1	4.2 W



Correct position of star
in vision eye-piece

May 23

MC
+39.8

SC
+69.4

MTW
-09.8

STW
-0.1 84

Focus set 2360

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
9:30	1 ^h 54 ^m W	27 07	0-1	7.21 A0	2-2-2	good
10:30	1 ^h 02 ^m W	12 47	0-1	7.30 G9	2-2-2	good
11:30	0 ^h 07 ^m W	17 14	0-1	5.7 K0	2-2-2	flapper 1/3 2/3 fine
12:00	42 W	38 03	0-1	6.3 F0	2-2-2	1/2 1/2 fine
					1-5	
						Focus good
		Plate Box indome				

Focus 23.52 ±

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 42W	+26 17	1-2	6.77 A ₃	2-2-2	Time lost finding star in new eyepiece. strong
	1 54W	+27 38	1-2	7.46 A ₂	2-2-2	Kap. 8" x 8" seeing improving. strong
	1 35W	+12 47	2	7.30 G ₇	2-2-2	fine
23 50	0 51W	+19 23	2	6.8 K ₁	2-2-2	flipper $\frac{1}{2}$ $\frac{2}{3}$ setting 5 strong " 8 Focus table to bracket heat on fall in of plate 3 holes broken + 6

Date Friday May 25²⁶ 194. H. D. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dev
11078	HD 108651	12 23.8	26. 27	1.25	E 103 a	1008	19.4	21 19	21 59	2	29
11079	HD 114988	13 091	33 04	"	"	"	19.5	22 05	22 59	3	4
11080	HD 152224	16 470	+32 44	"	"	"	19.5	23 10	00 10	4	5
	Focus test -	outside through		box							
<p>Sunday, May 27-28, clouds followed by rain</p>											

clouds set in after a while
 being after dark.

Time out 38 47

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21:25	1 ^h 29 ^m W	26 15	1	6.77 A	B2-2-2	Hazy date starting fine
21:28	1 ^h 44 ^m W	32 52	1-2	7.31 G	2-2-2	Seeing improving 12p very good
21:30	43 E	32 40	1-2	7.26 K	2-2-2	fine
					8 ^s 6 ^s	Seeing haze OK
<p>Note:- when clouds came out at 21:30 saw nothing. But at 21:35 the planet at 21:35. The reported starting to recover it again. P.S. - did not see in some of the throw with us as the image was too soft to see.</p>						

	MC	SC	MTW	STW
may 28	+42 ^s		+01 ^s	-0.0 ^m
29	+41.6	+68.9	+02.0	+0.1 ^m
31	+41.5	+68.5	+06.2	+0.1 ^m

Directly at first. Line almost gradually changing

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3 21 W	+26 13	0!	6.77 A3	2-2-2 <i>focus 23.62 ±</i> along very faint image faint.
				<i>first run</i>
				<i>Jun 4</i>
				+42.1 +68.5 +00.3 + 16 +0.3 ^m

93

1945

Date Wed. June 6-7 Y-D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	PH	Hour Angle End
11083	HD116594	13 19.5	12 57	25"	E-103a-0	0.008"	16.1	20 46	22 06	3	1 ^h 21 ^m
11084	^{HD127665} YP 4322 p Bootis	14 27.5	30 49	"	"	"	15.8	22 14	22 28	4	1 ^h 41 ^m
11085	^{HD139641} YP 4659 p Bootis	15 34.2	40 41	"	"	"	15.6	22 41	23 11	1	1 ^h 49 ^m
11086	^{HD141992} YP 4720 p Scorp.	15 46.9	21 17	"	"	"	15.6	23 16	23 52		1 ^h 46 ^m
	Focus test		outside thru	base.							

Focus 23.52 ±

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
22 00 3	1 ^h 27 ^m W	12 45	0-1	7.30 G ₇	2-2-2	
23 08	0 ^h 41 ^m W	30 39	0-1	5.2 K0	3-3	flipper 1/3 2/3 . adjusted light to illuminate cross wires. good
23 1	0 ^h 19 ^m W	40 34	0-1	6.3 G ₅	3-3	1/2 1/2
23 52	0 ^h 46 ^m W	21 10	1	6.5 K5	3-3	" 1/3 2/3 setting 3
					7-5	

Spent $\frac{1}{2}$ hour setting up and examining Jupiter's spots with $10\times$ eyepiece
and with reading lens etc.

Trans set 23.48

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21 45 8	2 ^h 06 ^m W	26 14	0	6.77 A3	2-2-2	Binary good
23 2	2 ^h 29 ^m W	14 43	0-1	7.36 F0	2-2-2	8 \times 8 Seeing improving steadily. very good
17		+ 33 33	0-1	4.5 K0	6; 6	Jupiter in $\frac{2}{3}$; Expires 5 ^m , 9 ^m . very good, fine
20	0 ^h 58 ^m W	+ 18 18	0-1	6.1 M1	3-3	Jupiter in $\frac{2}{3}$ (?) [Probably in only $\frac{1}{3}$] very good
22	1 19 W	+ 35 53	0-1	6.0 K0	3-3	" " $\frac{2}{3}$ fine
25	1 34 W	+ 32 40	1	7.26 K0	2-2-2	Binary fine
27	0 37 W	+ 20 48	0-1	6.59 G5	2-2-2	" fine, good
28	1 05 W	+ 43 12	1	6.26 A5	2-2-2	" fine
						Light clouds during last appearance.

97

Date 1945 Friday, June 8-9 N-D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dist
11095	HD131156 YP 4422, ϵ Boo	14 46.8	+ 19 31	1-25	E 1034-D	008	20.8	22 10	22 32		
11096	HD134083 YP 4492, δ Boo	15 02.9	+ 25 16	"	"	"	+20.8	22 34	22 56		c. 43W
11097	HD141714 YP 4714, δ Boo	15 45.4	+ 26 22	1-25	"	"	+20.8	22 59	23 27		
11098	HD150997 YP 4754, ϵ CrB	15 53.4	+ 27 10	"	"	"	+20.7	23 30	23 54		c. 49W
11099	YP 4993, η Her	16 39.5	+ 39 07	"	"	"	+20.7	23 56	00 11	3	c. 21W
	focus test										

Late start because of clouds,
 Clouds bank still in north

98

Total = 23.46

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	0 ^h 34 ^{min} W	+19 21	0	5.5 G5	2-2-2	brighter + of two, flipper $\frac{1}{2}$ l weak
	0 43 W	25 08	0	5.4 F4	2-2-2	flipper $\frac{1}{2}$ good
	/	+26 16	0	5.6 G4	2-2-2	flipper $\frac{1}{2}$ Light clouds fine
	0 49 W	+27 06	0	5.5 K2	2-2-2	flipper $\frac{2}{3}$ l weak
	0 21 W	+39 03	0	4.5 G4	3-3; 3-3	flipper $\frac{1}{2}$; exposures 5 ^m , 9 ^m sky hazy even
					7-5	setting 10. weak & weak
						holder loaded + 8 plates

Sky very hazy - gradually clearing

Focus unchanged.

Ending Time
L.S.T.

Hour: Angle: End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
27 W	+8 26	0	5.9 G5	3-3	Flapper 2/3															
27 W	40 38	0	4.4 G5	6-6	" 2/3 6 ^m 9 ^m															
24 W	47 02	0	6.2 F1	3-3	" 1/2															
37 W	33 30	0	6.0 G0	3-3	" 1/2															
34 W	34 10	0	6.2 F2	3-3	" 1/2 hazier															
<p>Dome humidity relay needs cleaning.</p> <p>No plates in dome. 4 loaded.</p> <p>Plate 1000 in dome.</p> <p>Heat not put on.</p>																				
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Jan. 11</td> <td>+43.8</td> <td>+68.8</td> <td>-01.6</td> <td>+0.2</td> </tr> <tr> <td>Jan. 12</td> <td>+45.0</td> <td>+66.6</td> <td>-02.8</td> <td>+0.2 W.B.F.N.</td> </tr> </table>							MC	SC	MTW	STW	Jan. 11	+43.8	+68.8	-01.6	+0.2	Jan. 12	+45.0	+66.6	-02.8	+0.2 W.B.F.N.
	MC	SC	MTW	STW																
Jan. 11	+43.8	+68.8	-01.6	+0.2																
Jan. 12	+45.0	+66.6	-02.8	+0.2 W.B.F.N.																

Clouds most of day, clearing up at sunset,
 Very hazy but slowly improving.

Focus set 23.45+

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
11:45	1 ^h 05 ^m W	18 42	0-1	3.4 G0	6-6-6	flipper 1/2 in 2, 4, 8 min exp. vs. film, 1 t.
12:17	0 ^h 52 ^m W	30 02	0-1	4.9 F ₂	6-3-3	" " 6, 12 " " " "
12:57	0 ^h 44 ^m W	30 31	0-1	5.7 G ₀	3-3-3-3	" " 12, 20 " " " "
1:28	1 ^h 04 ^m W	29 21	0-1	4.0 Fop	6-6-6	" " 3, 6, 12 " " " "
1:52	1 ^h 25 ^m W	32 41	0-1	7.26 K ₀	2-2-2	10 minute wait for * cross meridian.
2:18	1 ^h 10 ^m W	29 28		6.69 A ₅	2-	Clouding up again; impossible to routine by 1330
						all ph-? loaded
						6 plates in box
						Heat for mirror on
						m.c. s.c. m.T.W. S.T.W.
						June 13. +42.6 +66.6 -0.1 +0.3 W.B.E.N.

sky hazy at sunset

Focus set 23.40±

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS												
1 10W	+27 48	1	6.2	K5 2-2-2	Flipper 2/3 times in haze												
1 56W	+36 55	1+	7.2	K0 2-2-2	" 2/3 " "												
0 60W	+39 53	1-2	5.8	F2 3-3	" 1/2 " "; 20,26 min												
0 21E	+43 13	1-2	6.4	A5 2-2-2	haze												
0 40E	+45 00	1	6.2	A2 2-2-2	hazy much thicker; ha, g, p, 2, 10												
1 02W	+19 23	1	4.9	K5 3-3	Flipper 2/3 times in; 16, 36 min - sky getting progressively worse												
					Heat on mirror												
					Box of plates in dome.												
					<table border="0"> <tr> <td></td> <td>mc</td> <td>sc</td> <td>mw</td> <td>S.W.</td> <td></td> </tr> <tr> <td>June 15</td> <td>+44.0</td> <td>+67.8</td> <td>+02.5</td> <td>+0.3+min</td> <td>CBL</td> </tr> </table>		mc	sc	mw	S.W.		June 15	+44.0	+67.8	+02.5	+0.3+min	CBL
	mc	sc	mw	S.W.													
June 15	+44.0	+67.8	+02.5	+0.3+min	CBL												

109

1945

Date Tues June 19-20

D

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	CH	Hour Angle End
T20	YP4583 461	16 16.5	39 57	25	E 10"200	lot 79					
<p>Wednesday June 20-21 No - clear during afternoon, filling in at dusk. Partly clear (could see 1-2 magnitudes) at 3:15 AM.</p>											

Hazy

Temperature 23.9°C

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS										
		C	58 F ₂		flipped 1/2 in Exposures 10-w, 20 min. not worth going on haze we bring again too late (11:30 EST) for it to be good enough in time even if it clears soon again.										
					Mirror Heat on										
					Plate box (with unphotographed) in dome										
					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">MC</td> <td style="width: 20%; text-align: center;">SC</td> <td style="width: 20%; text-align: center;">MTW</td> <td style="width: 20%; text-align: center;">STW</td> </tr> <tr> <td style="text-align: left;">Jun. 20</td> <td style="text-align: center;">+43.9</td> <td style="text-align: center;">+68.6</td> <td style="text-align: center;">+14.6</td> <td style="text-align: center;">+0.4</td> </tr> </table>		MC	SC	MTW	STW	Jun. 20	+43.9	+68.6	+14.6	+0.4
	MC	SC	MTW	STW											
Jun. 20	+43.9	+68.6	+14.6	+0.4											

Rain in far con; gradually clearing before sunset.

Focus 23.46 ±

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 0 W	+10 23	0	6.2	G5	2-2-2 flipper 1/2 I weak
	2 03 W	+13 16	0	5.7	F1	2-2-2, 2-2-2 flipper 1/2 ; exposure 36 + 22; ^{m w} fine, good. Requiring imp wing
	1 28 W	+13 24	0-1	6.7	F9	2-2-2 flipper 1/2 fine
	0 00	+20 49	1-2	7.37	G5	2-2-2 seeing improving fine
	0 33 W	+43 14	1	6.40	A5	2-2-2 fine light clouds rising

	mc	S.C.	S.W. (Ranch)	MTW S	STW m	WREN
Jan 28.	+430	-69.4	-191	+17.5	+0.5	

1 full hour plot +4
2 holders loaded

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus	23.34	REMARKS
1 ^h 38 ^m W	34 46	1+	6.8 M ₂	2-2-2	flipper in $\frac{2}{3}$	seeing	good (g. seeing)	
1 ^h 40 ^m W	35 48	1+	6.0 K ₁	2-2-2	"	little weak with air	fine	
2 ^h 38 ^m W	36 55	1	7.2 K ₀	2-2-2	"	few minutes	fine	
1 ^h 49 ^m W	42 39	0-1	5.1 F7	3-3-3-3	flipper in $\frac{1}{2}$	8, 14 min exp	clouding a little instability (quivering) good	
2 ^h 05 ^m W	15 54	1	4.3 F ₅	6-6-3-3	"	2, 5, 8 min	weak, overex, fine	
0 ^h 50 ^m W	37 17	0-1	5.2 K1	3-3-3-3	flipper $\frac{2}{3}$ in	9 15 min exp	weak, fine	
1 ^h 02 ^m W	43 13	1+	6.40 A5	2-2-2	BINARY	seeing improved	strong!	
1 ^h 37 ^m W	16 26	1	7.34 F5	2-2-2	BINARY	few clouds	weak	
				7-5			fine	
0 ^h 54 ^m W	30 14	1	4.5 F4	6-3-3-3	flipper $\frac{1}{2}$ in	3.5 min exp	fine, strong	
						image oscillating		
						8+3 plate in dome		
						Plate box in dome		
						Heat off		

clouds coming in from west at 10:30 -
 decided to try for binary. Trouble with
 declination guiding & setting.

Focus 23.30±

Ending Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																				
2 29 E	+43 13	0-1	6.40 - A5	2-2-2	Binary, 21-22	<p>Let clouds intermittent till <u>11:50</u> - <u>12:05</u> - <u>Declination</u> guiding and setting fixed by Mr. Hoag 11:30 - 12:30 E.W.T. - still light scattered clouds - cloud up temporarily (?) - reopened 1:50 E.W.T. Focus <u>23:34</u></p>																				
2 46 W	+16 24	0-1	7.34 F7	2-2-2	Binary. In γ band, -hazy																					
0 32 E	+32 54	1	48 F5	2-2-2	Fly per $\frac{1}{2}$. Exposures 8-12																					
				7-5																						
						4+2 plates in dome																				
						<table border="0"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MTW.</th> <th>STW</th> </tr> </thead> <tbody> <tr> <td>Jun. 25</td> <td>+42.0</td> <td>+68.8</td> <td>+25.6</td> <td>+0.4^m</td> </tr> <tr> <td>26</td> <td>+04.4</td> <td>+68.8</td> <td>+26</td> <td>+0.3^m (reset)</td> </tr> <tr> <td></td> <td>reset</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		MC	SC	MTW.	STW	Jun. 25	+42.0	+68.8	+25.6	+0.4 ^m	26	+04.4	+68.8	+26	+0.3 ^m (reset)		reset			
	MC	SC	MTW.	STW																						
Jun. 25	+42.0	+68.8	+25.6	+0.4 ^m																						
26	+04.4	+68.8	+26	+0.3 ^m (reset)																						
	reset																									

make
 for focus
 focus 23:34

Cloudy most of day. Thinning out around dusk. 122
 Still 1-2 mag haze, and scattered thick clouds coming
 over from bank in NW.

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
				Focus set 23.38										
0 W	+11 38	0-1	6.6 MO	3-3 Flicker in 3/2										
1 47 W	+32 40	0-1	7.26 K0	2-2-2 Binary - Light scattered cloud										
0 37 W	+43 12	1	6.40 A5	2-2-2 Binary										
1 39 W	+17 51	1	6.5 K2	3-3 Cloud 1 ¹⁵ - 1 ¹⁵ 20 Flicker in 1 ³⁰ - 1 ³⁰ cloud interference Star gone most of the exposure and sky completely dark by end. 3 + 12 flat in low. Next out in series										
				<table border="0"> <tr> <td></td> <td>MC</td> <td>S.C.</td> <td>MTW</td> <td>S.W.</td> </tr> <tr> <td>June 29</td> <td>+03.2^s</td> <td>+71.3^s</td> <td>+38.2^s</td> <td>+0.4^m</td> </tr> </table>		MC	S.C.	MTW	S.W.	June 29	+03.2 ^s	+71.3 ^s	+38.2 ^s	+0.4 ^m
	MC	S.C.	MTW	S.W.										
June 29	+03.2 ^s	+71.3 ^s	+38.2 ^s	+0.4 ^m										

checked on 5 Bortins

July 2 (G.C.T.) ^{m.T.W.} +2.2 ^{ST.W.} +0.7 W.B.E.N.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
02	16 E	+43 13	0	A5	b.40	2-2-2	focus at 23.33T no number
01	13 W	+15-12	0	K0	b.6	2-2-2	Found flipper in at 21:07 plate developed
01	21 W	+17 13	0	F5	L.0	²⁻² 2-2-2	Flipping; and now in commenced, weak 42-35? Fl ₁ ^{m m} 1/2 - light clouds filling in slowly 00:15 - 00:30 - star gone for good by 01:30
							The focus should be too short on these plates
							Computed setting for Temp 27° = 23.38

Feb 23 1948

Ending Time
L.S.T.

Hour Angle End Declination Seeing Ptg. Mag. *Con* REMARKS

640 AS

opening up - but some clouds on floor

July 3 MC. SC MTW S.W W.B.E.N 150
 +02.0^s +75.5^s +08.0^s +15^s (43)

Jul. 9 MC -02.7 SC +84.1 MTW -02.6 STW -0.1
 July 10 -04.2 +85.0 +02.4 reset -0.1

Foggy & high wind out due to weather

Trouble with RA lamping gear not working for more than 1 operation at a time. Put back on, worked OK after 10 min.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus at 2350	REMARKS
01 ^h 52 ^m W	+10 45	0	7.19 A0	3-3-3	V ₁	Had seeing - was out along edge
01 ^h 53 ^m W	+32 40	0-1	7.24 K0	3-3-3	Binary	Tried to improve focussing with finder but without noticeable improvement. slide not completely track.
01 ^h 56 ^m W	+16 42	0	7.24 A0	3-3-3	V ₁ & X	
02 ^h 45 ^m W	+20 49	1	7.37 G5	3-3-3	Binary	
02 ^h 58 ^m W	+43 13	1	6.40 A5	3-3-3	Binary	
—	+16 25	0-1	7.34 F5	3-3-3	Binary	Terrible diff. in guiding
03 ^h 16 ^m W	+45 02	1	6.62 A2	3-3-3	Binary	
—	—	—	—	9-7	—	under light, 1.0
—	+09 54	1	6.0 G2	4-4-4-4	—	flipped in 1/2 exp 9, 15 min
01 ^h 04 ^m W	+22 08	1	7.11 K4	3-3-3	—	flipped in 2/3
02 ^h 30 ^m W	+47 00	1-2	7.52 K0	3-3-	Binary	

July 11 MC -04.7 SC +86.6 MTW +09.8 SW +0.0

longer exp. because are somewhat a little out of alignment

4+12 plates in drawer
Mirror heat on

Date Monday, July 16-17, 1945 H-5h Julian Day 2431653.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11185	HD 172187	18 33.7	+43 08	I-25	E-103a-0	^{Set} 0.08	+24.1	20 47	21.13	2
11186	HD 164898	17 58.3	+45 28	I-25	E-103a-0	.008	+23.9	21 21	22.19	3
11187	HD 170829	18 26.4	+20 46	I-25	E-103a-0	.008	+23.6	22 34	23.20	4
11188	HD 161464	17 40.6	+33 17	I-25	E-103a-0	.008	+23.7	23 33	00 03	1
	Lens test - outside through base									
11189	HD 181144	19 14.2	+16 19	I-25	E-103a-0	.008	+23.7	00 16	01 50	2
11190	176969	19 52.6	+42 07	"	"	"	+23.8	00 53	01 30	3
11191	194133	20 30.3	+44 50	"	"	"	+23.7	01 33	01 50	4
11192	YP 6253	20 12.8	+45 16	"	"	"	+23.7	02 01	02 21	1
11193	HD 209813	22 01.0	+46 45	"	"	"	+23.6	02 28	03 08	2
11194	HD 172187	18 33.7	+43 08	"	"	"	+23.6	03 26	03 50	3

Tuesdays July 17-18 1945 D-5h

Clouds about 15.00. Quite clear by 20.00 but clouded in quickly by 9 20.00. Thick uniform cloud at midnight.
 Still hopeless at 1.30 - D goes home. (E. wind). Clear overhead and to E by 02.50 - decided not to open up by myself
 - went home

Focus set 23.45 (tel. + 0.25)

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 02 E	+43 13	0	6.40 A5	3-3-3	Seeing very bad. Binary. <i>fine</i>
	0 20 E	+45 27	0	7.42 A0	3-3-3	Seeing still Very poor. <i>plate not numbered weak.</i>
	0 12 W	+20 49	0	7.37 G5	3-3-3	" <i>image very unsteady. good</i>
	1 41 W	+33 16	0-1	6.99 B8	3-3-3	Velocity for image unsteady. Seeing very bad <i>fine</i>
					9-7	Binary. <i>Four Excellent</i>
	0 54 W	+16 26	1	7.34 F5	3-3-3	Binary <i>fine</i>
	1 45 W	+42 13	1	7.20 F8	3-3-3	8"x8" zone <i>plate not numbered fine</i>
	0 4 W	+45 01	0	6.62 A2	3-3-3	Binary " " " <i>fine</i>
	1 26 W	+45 26	1	6.3 F5	4-4	Flipper in 1/2 up <i>fine</i>
	0 26 W	+46 59	1	7.52 K0	3-3-3	Binary <i>fine</i>
	4 37 W	+43 12	1-2	6.40 A5	3-3-3	Binary <i>Seeing unsteady all evening. Fine</i>
Wednesday July 18-19, 1945 H-5h.						<i>Found plate-box had not been emptied</i>
Heavy clouds all evening. Clear somewhat after						<i>midnight after 11192. Box was in sub-lens.</i>
midnight but completely clouded in again by 0100 EST.						<i>Heat - still on in 72 hours</i>
Still hopeless at 0300 EST. - Rain						<i>NOT 11192</i>
						<i>3 + 2 feet in lens.</i>

July 17 MC -07.5^s SC +96.9^s MW +023.5^s SW +0.4^m
 19 -08.3^s +99.9^s +09.7^s +0.5^m

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	Focus 23.44	REMARKS
2:5	0 40 E	+20 49	0-1	7.37 G5	3-3-3	Haze.	Seeing variable. Binary fine
2:1	0 40 E	+43 12	0-1	6.40 A5	3-3-3	Seeing Variable.	Binary fine
2:3	0 33 E	+16 24	1	7.34 F5	3-3-3	Binary. Haze.	(not a binary) fine
2:55	0 38 W	+45 04	1-2	7.20 B9	3-3-3	Seeing variable: Velocity star	fine
2:18	0 18 E	+49 06	2-3	7.52 K0	3-3-3	Binary. Seeing variable.	fine
					9-7		OK (sl. t. star)
1 57 E	+44 43	2-3	7.12 A	3-3-3	Binary - ground fog in valley		sl. t. star
0 45 W	+27 53	2-3	6.4 K5	3-3-3	Superficial tension; approx 18, 26, 34, 42, 50, 58, 66, 74, 82, 90, 98, 106, 114, 122, 130, 138, 146, 154, 162, 170, 178, 186, 194, 202, 210, 218, 226, 234, 242, 250, 258, 266, 274, 282, 290, 298, 306, 314, 322, 330, 338, 346, 354, 362, 370, 378, 386, 394, 402, 410, 418, 426, 434, 442, 450, 458, 466, 474, 482, 490, 498, 506, 514, 522, 530, 538, 546, 554, 562, 570, 578, 586, 594, 602, 610, 618, 626, 634, 642, 650, 658, 666, 674, 682, 690, 698, 706, 714, 722, 730, 738, 746, 754, 762, 770, 778, 786, 794, 802, 810, 818, 826, 834, 842, 850, 858, 866, 874, 882, 890, 898, 906, 914, 922, 930, 938, 946, 954, 962, 970, 978, 986, 994, 1002, 1010, 1018, 1026, 1034, 1042, 1050, 1058, 1066, 1074, 1082, 1090, 1098, 1106, 1114, 1122, 1130, 1138, 1146, 1154, 1162, 1170, 1178, 1186, 1194, 1202, 1210, 1218, 1226, 1234, 1242, 1250, 1258, 1266, 1274, 1282, 1290, 1298, 1306, 1314, 1322, 1330, 1338, 1346, 1354, 1362, 1370, 1378, 1386, 1394, 1402, 1410, 1418, 1426, 1434, 1442, 1450, 1458, 1466, 1474, 1482, 1490, 1498, 1506, 1514, 1522, 1530, 1538, 1546, 1554, 1562, 1570, 1578, 1586, 1594, 1602, 1610, 1618, 1626, 1634, 1642, 1650, 1658, 1666, 1674, 1682, 1690, 1698, 1706, 1714, 1722, 1730, 1738, 1746, 1754, 1762, 1770, 1778, 1786, 1794, 1802, 1810, 1818, 1826, 1834, 1842, 1850, 1858, 1866, 1874, 1882, 1890, 1898, 1906, 1914, 1922, 1930, 1938, 1946, 1954, 1962, 1970, 1978, 1986, 1994, 2002, 2010, 2018, 2026, 2034, 2042, 2050, 2058, 2066, 2074, 2082, 2090, 2098, 2106, 2114, 2122, 2130, 2138, 2146, 2154, 2162, 2170, 2178, 2186, 2194, 2202, 2210, 2218, 2226, 2234, 2242, 2250, 2258, 2266, 2274, 2282, 2290, 2298, 2306, 2314, 2322, 2330, 2338, 2346, 2354, 2362, 2370, 2378, 2386, 2394, 2402, 2410, 2418, 2426, 2434, 2442, 2450, 2458, 2466, 2474, 2482, 2490, 2498, 2506, 2514, 2522, 2530, 2538, 2546, 2554, 2562, 2570, 2578, 2586, 2594, 2602, 2610, 2618, 2626, 2634, 2642, 2650, 2658, 2666, 2674, 2682, 2690, 2698, 2706, 2714, 2722, 2730, 2738, 2746, 2754, 2762, 2770, 2778, 2786, 2794, 2802, 2810, 2818, 2826, 2834, 2842, 2850, 2858, 2866, 2874, 2882, 2890, 2898, 2906, 2914, 2922, 2930, 2938, 2946, 2954, 2962, 2970, 2978, 2986, 2994, 3002, 3010, 3018, 3026, 3034, 3042, 3050, 3058, 3066, 3074, 3082, 3090, 3098, 3106, 3114, 3122, 3130, 3138, 3146, 3154, 3162, 3170, 3178, 3186, 3194, 3202, 3210, 3218, 3226, 3234, 3242, 3250, 3258, 3266, 3274, 3282, 3290, 3298, 3306, 3314, 3322, 3330, 3338, 3346, 3354, 3362, 3370, 3378, 3386, 3394, 3402, 3410, 3418, 3426, 3434, 3442, 3450, 3458, 3466, 3474, 3482, 3490, 3498, 3506, 3514, 3522, 3530, 3538, 3546, 3554, 3562, 3570, 3578, 3586, 3594, 3602, 3610, 3618, 3626, 3634, 3642, 3650, 3658, 3666, 3674, 3682, 3690, 3698, 3706, 3714, 3722, 3730, 3738, 3746, 3754, 3762, 3770, 3778, 3786, 3794, 3802, 3810, 3818, 3826, 3834, 3842, 3850, 3858, 3866, 3874, 3882, 3890, 3898, 3906, 3914, 3922, 3930, 3938, 3946, 3954, 3962, 3970, 3978, 3986, 3994, 4002, 4010, 4018, 4026, 4034, 4042, 4050, 4058, 4066, 4074, 4082, 4090, 4098, 4106, 4114, 4122, 4130, 4138, 4146, 4154, 4162, 4170, 4178, 4186, 4194, 4202, 4210, 4218, 4226, 4234, 4242, 4250, 4258, 4266, 4274, 4282, 4290, 4298, 4306, 4314, 4322, 4330, 4338, 4346, 4354, 4362, 4370, 4378, 4386, 4394, 4402, 4410, 4418, 4426, 4434, 4442, 4450, 4458, 4466, 4474, 4482, 4490, 4498, 4506, 4514, 4522, 4530, 4538, 4546, 4554, 4562, 4570, 4578, 4586, 4594, 4602, 4610, 4618, 4626, 4634, 4642, 4650, 4658, 4666, 4674, 4682, 4690, 4698, 4706, 4714, 4722, 4730, 4738, 4746, 4754, 4762, 4770, 4778, 4786, 4794, 4802, 4810, 4818, 4826, 4834, 4842, 4850, 4858, 4866, 4874, 4882, 4890, 4898, 4906, 4914, 4922, 4930, 4938, 4946, 4954, 4962, 4970, 4978, 4986, 4994, 5002, 5010, 5018, 5026, 5034, 5042, 5050, 5058, 5066, 5074, 5082, 5090, 5098, 5106, 5114, 5122, 5130, 5138, 5146, 5154, 5162, 5170, 5178, 5186, 5194, 5202, 5210, 5218, 5226, 5234, 5242, 5250, 5258, 5266, 5274, 5282, 5290, 5298, 5306, 5314, 5322, 5330, 5338, 5346, 5354, 5362, 5370, 5378, 5386, 5394, 5402, 5410, 5418, 5426, 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6762, 6770, 6778, 6786, 6794, 6802, 6810, 6818, 6826, 6834, 6842, 6850, 6858, 6866, 6874, 6882, 6890, 6898, 6906, 6914, 6922, 6930, 6938, 6946, 6954, 6962, 6970, 6978, 6986, 6994, 7002, 7010, 7018, 7026, 7034, 7042, 7050, 7058, 7066, 7074, 7082, 7090, 7098, 7106, 7114, 7122, 7130, 7138, 7146, 7154, 7162, 7170, 7178, 7186, 7194, 7202, 7210, 7218, 7226, 7234, 7242, 7250, 7258, 7266, 7274, 7282, 7290, 7298, 7306, 7314, 7322, 7330, 7338, 7346, 7354, 7362, 7370, 7378, 7386, 7394, 7402, 7410, 7418, 7426, 7434, 7442, 7450, 7458, 7466, 7474, 7482, 7490, 7498, 7506, 7514, 7522, 7530, 7538, 7546, 7554, 7562, 7570, 7578, 7586, 7594, 7602, 7610, 7618, 7626, 7634, 7642, 7650, 7658, 7666, 7674, 7682, 7690, 7698, 7706, 7714, 7722, 7730, 7738, 7746, 7754, 7762, 7770, 7778, 7786, 7794, 7802, 7810, 7818, 7826, 7834, 7842, 7850, 7858, 7866, 7874, 7882, 7890, 7898, 7906, 7914, 7922, 7930, 7938, 7946, 7954, 7962, 7970, 7978, 7986, 7994, 8002, 8010, 8018, 8026, 8034, 8042, 8050, 8058, 8066, 8074, 8082, 8090, 8098, 8106, 8114, 8122, 8130, 8138, 8146, 8154, 8162, 8170, 8178, 8186, 8194, 8202, 8210, 8218, 8226, 8234, 8242, 8250, 8258, 8266, 8274, 8282, 8290, 8298, 8306, 8314, 8322, 8330, 8338, 8346, 8354, 8362, 8370, 8378, 8386, 8394, 8402, 8410, 8418, 8426, 8434, 8442, 8450, 8458, 8466, 8474, 8482, 8490, 8498, 8506, 8514, 8522, 8530, 8538, 8546, 8554, 8562, 8570, 8578, 8586, 8594, 8602, 8610, 8618, 8626, 8634, 8642, 8650, 8658, 8666, 8674, 8682, 8690, 8698, 8706, 8714, 8722, 8730, 8738, 8746, 8754, 8762, 8770, 8778, 8786, 8794, 8802, 8810, 8818, 8826, 8834, 8842, 8850, 8858, 8866, 8874, 8882, 8890, 8898, 8906, 8914, 8922, 8930, 8938, 8946, 8954, 8962, 8970, 8978, 8986, 8994, 9002, 9010, 9018, 9026, 9034, 9042, 9050, 9058, 9066, 9074, 9082, 9090, 9098, 9106, 9114, 9122, 9130, 9138, 9146, 9154, 9162, 9170, 9178, 9186, 9194, 9202, 9210, 9218, 9226, 9234, 9242, 9250, 9258, 9266, 9274, 9282, 9290, 9298, 9306, 9314, 9322, 9330, 9338, 9346, 9354, 9362, 9370, 9378, 9386, 9394, 9402, 9410, 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12930, 12938, 12946, 12954, 12962, 12970, 12978, 12986, 12994, 13002, 13010, 13018, 13026, 13034, 13042, 13050, 13058, 13066, 13074, 13082, 13090, 13098, 13106, 13114, 13122, 13130, 13138, 13146, 13154, 13162, 13170, 13178, 13186, 13194, 13202, 13210, 13218, 13226, 13234, 13242, 13250, 13258, 13266, 13274, 13282, 13290, 13298, 13306, 13314, 13322, 13330, 13338, 13346, 13354, 13362, 13370, 13378, 13386, 13394, 13402, 13410, 13418, 13426, 13434, 13442, 13450, 13458, 13466, 13474, 13482, 13490, 13498, 13506, 13514, 13522, 13530, 13538, 13546, 13554, 13562, 13570, 13578, 13586, 13594, 13602, 13610, 13618, 13626, 13634, 13642, 13650, 13658, 13666, 13674, 13682, 13690, 13698, 13706, 13714, 13722, 13730, 13738, 13746, 13754, 13762, 13770, 13778, 13786, 13794, 13802, 13810, 13818, 13826, 13834, 13842, 13850, 13858, 13866, 13874, 13882, 13890, 13898, 13906, 13914, 13922, 13930, 13938, 13946, 13954, 13962, 13970, 13978, 13986, 13994, 14002, 14010, 14018, 14026, 14034, 14042, 14050, 14058, 14066, 14074, 14082, 14090, 14098, 14106, 14114, 14122, 14130, 14138, 14146, 14154, 14162, 14170, 14178, 14186, 14194, 14202, 14210, 14218, 14226, 14234, 14242, 14250, 14258, 14266, 14274, 14282, 14290, 14298, 14306, 14314, 14322, 14330, 14338, 14346, 14354, 14362, 14370, 14378, 14386, 14394, 14402, 14410, 14418, 14426, 14434, 14442, 14450, 14458, 14466, 14474, 14482, 14490, 14498, 14506, 14514, 14522, 14530, 14538, 14546, 14554, 14562, 14570, 14578, 14586, 14594, 14602, 14610, 14618, 14626, 14634, 14642, 1465		

Thunder Showers in early evening. Cloudy with showers until 23.0¹³⁸
 Fairly clear but hazy by midnight, clear except to S. by 00.45; ~~had~~ began to
 open up.

Watch set approximately from standard clocks - MW -1.6 sec, SW +0.1 min

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus Set 23.44 (Tabular + .05)	REMARKS															
				95 7.37		Replaced overloaded Shutter fuse.															
						Increasing haze and light clouds. By 01.15 when I had set on HD170829 (setting three checked) star was not visible in finder. At sight of ominous clouds to S.W. (01.25), closed up immediately. At 01.55 Shutter showed first signs of sweating; by 02.05 all stars and in obscured, strong ^{Wet} wind from E - much ground mist (H). Sky still completely overcast at 03.00															
						Heat on Mirror. 2 + 8 plates in dome. Empty plate box in dome.															
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>ME</td> <td>SE</td> <td>MW</td> <td>SW</td> </tr> <tr> <td>July 23</td> <td>-11⁵.2</td> <td>+106³.8</td> <td>-01³.2</td> <td>+0³.3</td> </tr> <tr> <td></td> <td></td> <td></td> <td>reset</td> <td>reset</td> </tr> </table>		ME	SE	MW	SW	July 23	-11 ⁵ .2	+106 ³ .8	-01 ³ .2	+0 ³ .3				reset	reset
	ME	SE	MW	SW																	
July 23	-11 ⁵ .2	+106 ³ .8	-01 ³ .2	+0 ³ .3																	
			reset	reset																	

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comparison	REMARKS.
						Switch for visitors eyepiece from light broken and unusable - used flash light
12	00 03 W.	+ 20 49	0 ⁺	7.37	G5 3-3	From Sel 23.39 (tabular + 5). Very hazy 22.40 Ground fog moving in from S.W. <i>good</i>
					9-7	
12	00 52 E	+ 45 00	0	6.62	A2 3-3-?	Continued Haze. Ground fog blown away by 23.15. Num. <i>fine</i> 23.15. Num. 11203
12	01 10 E	+ 12 54	1 ⁺	6.0	F2 3-3-3	Seeing Variable. Haze cleared somewhat. Exposures 32-20 min. Flipper in 2.
12	01 11 W	+ 14 24	1 ⁺	6.6	F5 3-3-3	<i>Some sweating slightly</i> Nothing on 1120546. <i>5</i> plates discarded. <i>bit</i>
12	01 47 W	+ 05 34	1-2	6.1	F0 3-3-3	Haze in <i>number</i> retained. Flipper in 1/2. <i>last crop</i>
12	01 43 W	+ 23 24	2 ⁺	6.0	K5 4-4-4	Haze. Exposures 22-14 min. Flipper in 3/4. <i>good, 1. several</i>
12	02 04	+ 19 14	2.	6.1	F0 4-4-4	Shutter sweating worse, no resolution at all in proper Haze. Exposures 26-20 min. - <i>fine, fine</i> Flipper in 1/5 Heat on Interior 0 + 3 plates in dome.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Exposure	Focus Set	REMARKS
	08 ^m W	+20 38	0	6.2 64	4-4-4	23.37	plate not kept too weak
	12 ^m W	+21 05	0-1	6.5 67	4-4	"	too weak
	16 ^m W	+16 47	1	5.7 68	4-4-4-4	"	too weak
	50 ^m W	+20 49	0-1	7.37 65	3-3-3	"	too weak
	26 ^m W	+16 25	C-	7.34 65	3-3-3	"	focus good
	51 ^m W	+4 01	C	6.2 64	3-3	"	shutter

MC MW SC SW
July 25. -10.4^s +4.2^s +112.2^s +0.4^m

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Date Wednesday July 25-26, 1945.Sh Julian Day 2431662.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Time
11215	HD 170829	18 26.4	+20 47	I-25	E-103a-0	Set .008				
11215	{ HD 170829 { Focus Test	18 26.4	+20 4 ⁶	I-25	E-103a-0	.008	+27.1	00.17	01.20	IV
			9 Outside through base.							

50% clouded during early evening, getting worse toward 20.00. 144
 Strong NE wind. Clear slowly 21.00 on. open up 22.05 despite light
 clouds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus Set 23.36.	REMARKS
				G5 7.37.		Set on binary by 22.30. Clouding up rapidly from N - not worth starting exposure. Close up temporarily. Only isolated patches of clear sky by 22.50. Somewhat clearer by 0.00. Heat lightning.
					COMP. Opened up 00.05.	Focus Reset 23.37
	02.48W	+20 48	0 ⁻	G5 7.37.	3-3-3.	Light Clouds ⁰⁰²⁵ Seeing <u>Very</u> bad. ^{Binoculars} Visitor's eyepiece cross-wire light
					7-5	Switch unusable - needs attention. Seeing improving after 00.30. SW wind. More clouds 01.10. No light reaching slit by 01.20 - unusable uniform light cloud cover sky - take few test and close up. Plate will be broken only underexposed. Heat on Mirror. 4+3 + plates in dome
					July 26	Repaired switch on visitor's eyepiece light.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus set 23:43
0	19 E	+20 49	0	7.37 G5	3-3-3	Binary - thin clouds + haze! - clearing <small>in late</small> <small>for 60 min</small> somewhat = 1:15; murky clouds 21:50 cloud up temporarily 22:10(?). clouds - clouds - clouds until dawn (oh yes! rain about 3 AM)
						Saturday - cloudy w. light E wind

Hour Angle End	Declination	Seeing	Ptg. Mag.	Fcomp.	Remarks										
					Fewis' Set 23.40										
00 03E	+20 49	0	7.37 G5	3-3-3	BINARY. Clouds slowly moving in from N. Seeing improving. Clouds on horizon. Light haze. Image unsteady. Haze clearing off. <i>focus good</i>										
00 54W	+46 24	0-1	7.46 F0	3-3-3	Velocity * Seeing variable. Clouds steady. <i>focus good</i>										
				7-5"											
01 16W	+43 13	1	6.40 A5	3-3-3	BINARY. Seeing very variable 0-2+ <i>focus good</i>										
01 21W	+16 25	1	7.34 F5	3-3-3	Binary. Clouds gone. Amazingly smooth. Image of still to 4 min. <i>focus good</i>										
02 04W	+41 57	1-2	7.11 B9	3-3-3	Velocity * Seeing variable. <i>weak</i>										
00 27E	+49 06	1-2	7.52 K0	3-3-3	Binary. Seeing again very variable (0-3). Image unsteady. <i>good</i>										
00 42W	+46 49	2	7.52 K0	3-3-3	Binary. Delay in setting due to trouble keeping tube clear of debris. <i>good</i>										
00 33W	+44 44	2-3	7.26 A2	3-3-3	Binary. Seeing variable. <i>good</i>										
00 36W	+49 46	2-3	5.9 K0	4-4-4-4	Flapper in $\frac{2}{3}$ of time. Exposures 12-6 min. <i>not near ideal</i> <i>strong, fine</i>										
01 02W	+25 12	2-3	6.0 K0	4-4-4-4	Flapper in $\frac{2}{3}$ of time. Exposures 14-8 min. Image unsteady. <i>strong, fine</i>										
					Abandoned under the sun star was beyond limit. <i>not</i>										
00 14W	+37 42	2-3	5.6 F5	4-4-4-4	Exposures 8-4 min. Flapper in $\frac{1}{2}$ of time. <i>strong, fine</i>										
					Heat NOT on Meas. 4+3 plates on floor.										
					<table border="0"> <tr> <td></td> <td>m.c.</td> <td>s.c.</td> <td>m.T.W.</td> <td>S.T.W.</td> </tr> <tr> <td>Jul.30</td> <td>-160</td> <td>+124.1</td> <td>+20.0</td> <td>+0.6</td> </tr> </table>		m.c.	s.c.	m.T.W.	S.T.W.	Jul.30	-160	+124.1	+20.0	+0.6
	m.c.	s.c.	m.T.W.	S.T.W.											
Jul.30	-160	+124.1	+20.0	+0.6											

Date Sunday July 30-31/45 No. Julian Day 2431667.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
11228	H.D. 170829	18 26.4	+20 46	1-25"	F-103.0	²⁴ .000	26.8 °C	22 21	23 15		
11229	Y.P. 6280	20 18.2	+14 16	"	"	"	26.6	00 26	01 26		
	Focus test outside these hours 7 ^p -6 ^s										
<p>Tuesday - Wednesday - Damaged dome trolleys and wires repaired by H. No.</p> <p>As an experiment to cut down wear & tear (!) on trolleys, swing lower two trolleys clear of wires, then neutralising upper</p>											

Cloudy most of day. slowly clearing
 sunset on. start delayed by heavy haze.

Temperature unchanged (23-10) ✓

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	28 W	+20 49	0-1	7.37 G5	3-3-3	Binary Heavy haze over most of sky. In foreground
	29 W	+43 12	1-2	6.40 A5	3-3-3	Binary, light haze fine
					8/6 ³	light haze centre in slightly to right
	13 W	+16 26	1-2	7.70 F5	3-3-3	Binary, light haze * weak
	54 W	+26 19	1	4.9 K0	6, 6	Triple in 2 nd of upper; size 4" 9" strong
	28 W	+28 21	1	5.9 K0	6, 6	" 2/3 " " " " fine
	28 W	+41 21	2-3	6.62 A2	3-3-3	Binary, light haze good
	50 W	+16 58	2-3	7.52 K0	3-3-3	Binary, light haze linear
						Ground fog rising, and Dome becoming very wet
						Too wet to continue
						* note added Aug 4. I think this star seemed fainter at magnitude.
						Handy bright star with star 22". Same as before, but size 22
						ME SC MW SW _m Aug 2 -17.3 +122.9 +32.0 +0.7

Focus Set 2337 ± 00.01

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	ZOMP	REMARKS
22	00 16 W	+ 20 48	0	7.37 G5	3-3-3	BINARY. Seeing very poor. Light haze. Lightning on E. Horizon. ^{fine} Haze pretty well cleared by 21.30. Seeing improving to 0.5
22 28	00 32 W	+ 43 13	0-1.	6.40 A5	3-3-3	BINARY ^{good}
23 28	01 21 W	+ 41 16	0-1	6.86 A0	3-3-3	Velocity* ^{east} Double Star. Magnitude of Component 7.4. Set on component with ^{Seeing variable. weak} clouds to N - strong wind. ^{larger declination}
01 22	01 34 W	+ 16 23	0+1	7.34 F5	3-3-3	Binary. ^{good} Strong wind. Seeing variable. Image very poorly defined. ^{kind as if clouds were present. by 01 20 image Co. hardly distinguishable although 7.1 class. were present - abandoned exposure - probably useless.} ^{NOTE below}
00 57	01 37 W	+ 10 17	0-1.	5.8 G0	4-4-4	Flipper in $\frac{1}{2}$ time. Exposure 10-15 min. ^{fine weak} Slide may not have been drawn for first exposure
	01 21 W	+ 45 01	1.	6.62 A2	3-3-3	Binary ^{fine}
	02 00 W	+ 38 30	0-1.	7.5 K5	3-3-3	Fainter component of double star. Flipped in $\frac{2}{3}$ time. ^{good}
01 24	00 17 E	+ 19 54	0-1	6.2 Ma	4-4-4	Flipper in $\frac{2}{3}$ time. Exposure 20-15 min. ^{shift in spectrograph} ^{weak}
01 11	00 15 W	+ 09 54	0-1.	6.3 F2	4-4-4	Flipper in $\frac{1}{2}$ time. Exposures 24-14 min. ^{fine}
01 01	00 21 W	+ 30 36	0-1	4.6 K2	4-4-4-4-4	Flower in $\frac{2}{3}$ time. Exposures 6-4 $\frac{1}{2}$ -3 min. ^{fine} ^{weak} ^{good} ^{slight spectrograph}
						11240 was numbered 11241 by me take.
						Accordingly 11241 was numbered 11241X.
						* Dome moves very sluggishly.
						Light illuminating settings on camera P. ^{used 4+ used} 1120 - had to use flashlight. Light suddenly came on during 11241 exposure (10) - washed O.K. thereafter.

Hart NOT on Merid.

8+4 plates in dome.

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Date Friday Aug. 3-4/45 No. Julian Day 24316.715

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
11247	H.D. 170829	18 26.4	+20 46	1-25"	E-103a-O	^{set} .008	+22.9°C	20 21	21 43	4	3.1
11248	172187	18 33.7	+43 08	"	"	"	22.8	22 08	22 30	1	27W
11249	164-898	17 58.3	+45 21	"	"	"	22.8	22 34	23 54	4	17.5
11250	196 133	20 30.3	+44 50	"	"	"	22.6	00 00	00 26	3	2.0
11251	Y.P. 6416	20 43.2	+34 00	"	"	"	22.8	00 29	00 59	4	4.0
	Focus test - outside thru base			7 ^S -6 ^S							
11252	Y.P. 6668	21 21.7	+46 17	"	"	"	22.6	01 05	01 39	1	1.0
11253	Y.P. 6918	22 07.4	+57 42	"	"	"	22.6	01 44	02 14	2	1.0
11254	Y.P. 6926	22 08.4	+69 38	"	"	"	22.8	02 18	02 58	3	2.0
11255	H.D. 214946	22 36.7	+44 29	"	"	"	22.7	03 03	04 03	4	3.0
11256	Y.P. 162	00 33.3	+28 46	"	"	"	22.7	04 07	04 25	4	3.0

Aug 3. BC MC MW SW
 +134^{5.9} -18^{3.9} +36⁶ +0.2^m ?

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Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
						Focus set 23.46±	
0	13E	+20° 49	0-1	7.37	G ₅	3-3-3	Binary telescope very hard to ^{fine} see in R
0	27W	+43 13	1 ⁺	6.26	A ₅	3-3-3	" trouble finding star - check ^{H.D. 164822} clock ^{strong}
2	27W	+45 22	0-1	7.44	A ₀	3-3-3	" took brighter* ^{fine} in 5 B Lyrae (+0.5?) - path of ^{fine}
0	27W	+45 00	0-1	6.62	A ₂	3-3-3	wanted for* to cross meridian trouble found to ^{fine}
0	47W	+34 12	0-1	6.2	K ₀	3-3-3	flipper 2/3 in condenser H.D. 164818 ^{strong} focus v slightly to ^{fine} not properly corrected ^{fine}
0	48W	+46 30	0-1	5.8	F ₀	4-4,4-4	flipper in 1/2; exposures 12, 28 min. ^{fine} ^{strong}
0	38W	+57 56	0-1	4.6	K ₀	4-4,4-4,4-4	flipper in 2/3; exposures 8, 10, 12 min. ^{strong, very strong} (compensating) ^{fine}
1	22W	+69 51	0	5.8	F ₂	4-4,4-4	flipper in 1/2; exposures 16, 24 min. ^{strong} bright ^{strong}
1	58W	+44 45	0	7.26	A ₂	3-3-3	Binary following* of pair ^{fine}
0	23W	+29 03	0	5.3	G ₅	4-4	flipper in 1/2 ^{strong}
							.8+4 plates in home

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Date Sat Aug 4-5 1945 D Julian Day 242.6725

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11257	HD 152137	16 41.1	+26 37.	20	E 10310	set	22 0	20 25	21 03
11258	HD 157255	17 01.1	+32 47				21 9	21 08	21 27
11259	HD 164752	17 58.3	+45 21				21 7	21 32	22 06
11260	HD 170829	18 26.4	+30 46				21 5	22 10	22 50
11261	HD 172187	18 32.7	+32 02				21 6	22 54	23 06
11262	HD 181144	19 42	+16 19				21 5	23 12	23 44
11263	YPC280 ^{B3} 7793	20 19.2	+14 13				21 4	23 47	00 11
11264	YPC346 ⁹⁴⁴	20 31.9	+14 15				21 4	00 22	00 32
11265	HD 196153	20 30.3	+44 50				21 4	00 35	00 58
	For Test								
11266	YPC501	21 13.2	+47 15				21 4	01 03	01 23
11267	HD 209813	22 01.0	+46 45				21 6	01 26	01 55
11268	HD 213349	22 25.9	+48 51				21 6	02 07	02 37
11269	HD 214946	22 36.7	+44 29				21 6	02 41	03 01
11270	YP 7117 Reg	22 41.7	+11 40				21 4	03 07	03 18
11271	YP 71580 Reg	22 47.3	+9 18				21 2	03 21	03 43

New batteries needed
for flashlight

checked self correction
N. finder rheostat noticed
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Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Remarks
05 ^h 56 ^m W	+28 28	1+	7.09 F ₅	3-3-3	Binary* Breaks up 2 v close together fine
05 ^h 03 ^m W	+33 45	1-2	6.83 F ₆	3-3-3	" = 11 (faded) good
05 ^h 43 ^m W	+45 23	1-2	7.44 A ₂	3-3-3	Binary (bright) fine
05 ^h 58 ^m W	+20 49	1+	7.37 F ₅	3-3-3	" fine
05 ^h 08 ^m W	+43 13	1-2	6.20 A ₅	3-3-3	" fine
05 ^h 04 ^m W	+16 26	2-	7.34 F ₅	3-3-3	" fine
05 ^h 27 ^m W	+14 25	1-2	6.6 F ₅	3-3-3	flapper in 1/2 (Throttle setting 10-10-10) strong
05 ^h 34 ^m W	+17 26	1-2	4.1 F ₃	5-8-4-4	" 1/2 2 4 min strong
05 ^h 00 ^m W	+45 00	1+	6.62 A ₂	3-3-3	Binary strong
				97	11266 faded whole star 11277 faded whole star
05 ^h 55 ^m W	+47 27	1-2	6.1 K ₅	3-3-3	flapper in 1/2 // keep only (possibly) strong
05 ^h 32 ^m W	+47 01	2+	6.57 K ₆	3-3-3	Binary // more favorable with plate // plate probably copied strong
05 ^h 46 ^m W	+49 05	2+	2.52 K ₆	3-3-3	" strong
05 ^h 10 ^m W	+44 44	2+	7.12 A ₂	3-3-3	" E
05 ^h 10 ^m W	+11 56	2	4.7 F ₅	8-8-4-4	flapper in 1/2 // 2 3 5 min // too strong, too strong, too strong
05 ^h 30 ^m W	+9 34	2	5.7 F ₅	4-4-4-4	" // 9-13 min // strong, v. strong

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																				
0	28W	-03 01	1-2	4.8 K ₀	8-8-4-4	flipper in $\frac{1}{2}$ up 2:45 min <i>finer fins, strong</i>																				
1	26W	+05 21	1	4.9 F ₈	8-8-4-	3:58 min <i>strong, too strong, large lip, small</i>																				
						last four plates packed in small box - also in packages of 2 facing with 1 separate																				
						Microvent off 3+4 plates in down																				
						Plate box full! + 6 in box																				
						Heat on Micro - Aug. 6/45 - 1400 No																				
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>SW</td> </tr> <tr> <td>August 7.</td> <td>-20.4^s</td> <td>+149.2^s</td> <td>+54.0^s</td> <td>+1.1^m</td> </tr> <tr> <td></td> <td colspan="2">M.TW</td> <td colspan="2">S.TW.</td> </tr> <tr> <td>Aug 7</td> <td>-04.8</td> <td>+0.1</td> <td colspan="2"><u>Result</u></td> </tr> </table>		MC	SC	MTW	SW	August 7.	-20.4 ^s	+149.2 ^s	+54.0 ^s	+1.1 ^m		M.TW		S.TW.		Aug 7	-04.8	+0.1	<u>Result</u>	
	MC	SC	MTW	SW																						
August 7.	-20.4 ^s	+149.2 ^s	+54.0 ^s	+1.1 ^m																						
	M.TW		S.TW.																							
Aug 7	-04.8	+0.1	<u>Result</u>																							

Scattered clouds at sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS	
						23:43 E.S.T.	
20	01 44 W	+45 06	0 ⁺	7.27	A0	3-3-3	Velocity * light haze at ; transparency very poor. Seeing variable. Haze cleared by 21:00, transparency much better, seeing improving
24	00 55 W	+33 17	1-2	6.99	B8	3-3-3	Velocity * fine
28	01 01 W	+20 49	1-2	7.37	G5	3-3-3	BINARY. Clouds to N. fine
35	01 20 W	+17 59	1-2	6.51	B9	3-3-3	Velocity * weak
38	01 53 W	+13 50	1-2	7.23	F2	3-3-3	Velocity * increasing scattered clouds. Marine clouds moving in from overhead. focus good
				7.54			
				7.34	F5		Clouding in rapidly while setting on star. Not worth starting exposure. Close up "temporarily" at 23:40 E.S.T.
							Clouds clear somewhat after 00:30, reopen 00:50. Focus unchanged!
	01 39 W	+45 01	1-2	6.62	A2	3-3-3	Binary.
				7.52	K0		Binary. More clouds scattered over sky with some clear patches.
							No prospect of any real improvement - Close up finally 01:40 E.S.T.
	* Note - Last plate will probably be useless - Found when closing up that focus test diaphragm had not been returned to its normal position.						
							Heat NOT on Minor.
							Aug 9 MC SE MW SW -23 ³ .5 +154 ³ +07 ³ .5 +0.3
							Aug 10 8+4 plate in dome. -20 ³ .3 +158 ³ +07 ³ .2 +0.3

Date Friday August 10-11/45 No Julian Day 2431678.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
11280	H.D. 170829	18 26.4	+20 46	1-25"	F-103a-O	^{sub} .008	+27.6°C	20 10	21 06	1	22° -
11281	H.D. 166621	18 06.4	+18 28	"	"	"	+27.4	21 10	21 46	2	23° -
11282	167135	18 08.8	+11 51	"	"	"	+27.3	21 50	22 14	3	23° +
11283	168131	18 13.2	+11 51	"	"	"	+27.4	22 16	22 38	4	22° -
11284	168498	18 ^{14.9} 14.5	+11 50	"	"	"	+27.3	22 40	23 24	1	22° W +
11285	181144	19 14.2	+16 19	"	"	"	+27.4	23 31	00 09	2	22° W +
11286	196133	20 30.3	+44 50	"	"	"	+27.5	00 14	00 38	3	22° W +
	Flourescent - outside of new base 7 ^s - 6 ^s										
11287	Y.P. 6445	20 47.2	+27 53	"	"	"	+27.4	00 36	01 06	4	21° W +
11288	H.D. 209813	22 01.0	+46 45	"	"	"	+27.5	01 12	01 50	1	20° W +
11289	213389	22 25.9	+48 51	"	"	"	+27.5	01 54	02 26	2	20° W +
11290	214946	22 36.7	+44 29	"	"	"	+27.3	02 30	02 59	3	20° W +
11291	Y.P. 48	00 09.4	+19 39	"	"	"	+27.3	02 59	03 31	4	20° W +
11292	Y.P. 169	00 34.7	+20 53	"	"	"	+27.3	03 35	03 51	1	20° W +
11293	H.D. 3264	00 30.7	+45 00	"	"	"	+27.3	03 57	04 23	2	19° W -

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Focus set 23.39 \pm
0 23E	+20 49	1-2	7.37	G ₅ 3-3-3	Binary large fine
0 37W	+18 33	1-2	7.26	A ₂ 3-3-3	Velocity * l. weak
0 63W	+11 55	2-1	6.76	A ₀ 3-3-3	" * (brighter m.f.) good
1 22W	+11 55	2	6.97	B ₈ 3-3-3	" * fine
2 09W	+11 55	1-2	7.34	A ₀ 3-3-3	" * l. weak
1 53W	+16 25	2	7.34	F ₅ 3-3-3	Binary fine
0 56W	+45 02	2-3	6.62	A ₂ 3-3-3	" fine
1 17W	+28 05	2	5.9-6.8	F ₈ 3-3-3	3-3-3 3-3-3 Jupiter in 1/2; exposures 18, 12 min. focus good biting fine
0 47W	+47 02	2-3	7.52	K ₀ 3-3-3	Binary l. strong
0 58W	+49 07	2-3	7.52	K ₀ 3-3-3	" strong
1 16W	+44 45	3	7.26	H ₂ 3-3-3	" strong
0 20W	+19 65	2-3	6.2	M ₀ 4-4:4-4	Jupiter in 2/3 exposures 12, 20 min fine
0 15W	+21 10	2-3	6.6	K ₀ 3-3-3	" " 2/3 (brighter m.f. *) fine
0 51W	+48 17	3	7.42	B ₂ 3-3-3	Binary fine 3+6 pl. the m. d. d.

Date Saturday Aug 11-12 1945 No. D Julian Day 2431679.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
11294	HD 170829	18 26.4	+20 47	25"	E 103a-D	^{at} 008	28.5	20 28	22 28	3	
	Focus Test										
11295	HD 175132	18 48.9	+41 16				28.2	22 36	23 14	4	
<p>Sunday Aug 12-13/45 No</p> <p>Scattered clouds at sunrise continuing till 10 P.M. (O.S.T.) - somewhat clearer 10:00 - 10:20 - filled in completely 10:30 Light showers 11:30 (O.S.T.) - sky much improved at 12:00 which time dome was dripping badly - filled in again 2 P.M.</p> <p>Monday Aug 13-14 1945 Sh.</p> <p>Cloudy all day; scattered clouds and thick haze during early part of evening; clearing somewhat after 22:30. Opened up 23:10 and set on HD 196133 - image barely visible in finder. Closed up again 23:40. Fokulation unchanged at 00:10. Heat on Mirror - Plate Box</p>											

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	Focus Set 23.87	REMARKS															
1 ^h 03 ^m W	+20 49	0-1	7.35 G5	3-3-3	Binary	Hazy															
				9-7		good focus good															
1 ^h 27 W	+41 22	1-2	6.18 B9	3-6	Vely *	Very Hazy															
						* gone after 10 min not worth continuing															
						3+16 plates in down															
						mirror heat off															
						<table border="1"> <thead> <tr> <th></th> <th>m.c. S</th> <th>s.c. S</th> <th>m.T.W. S</th> <th>s.T.W. m</th> </tr> </thead> <tbody> <tr> <td>Aug. 13</td> <td>-26.7</td> <td>-14.4</td> <td>+13.5</td> <td>+0.4</td> </tr> <tr> <td>Aug 14</td> <td>-26.8</td> <td>-19.1</td> <td>+15.8</td> <td>+0.4</td> </tr> </tbody> </table>		m.c. S	s.c. S	m.T.W. S	s.T.W. m	Aug. 13	-26.7	-14.4	+13.5	+0.4	Aug 14	-26.8	-19.1	+15.8	+0.4
	m.c. S	s.c. S	m.T.W. S	s.T.W. m																	
Aug. 13	-26.7	-14.4	+13.5	+0.4																	
Aug 14	-26.8	-19.1	+15.8	+0.4																	

Tuesday Aug 14-15 D

Cloudy during day with heavy rain in late afternoon. Intermittently clear with SW→W wind during early evening, followed by heavy cloud

Surrender of Japan announced at 7 PM EDT Tomorrow is V-J day.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS										
						Focus Set 23.48 ± 00.02										
02 18W	+15 16	0 ⁻ → 0 ⁺	7.57	A3.	3-3-3	Velocity Star. <i>weak</i>										
02 08W	+17 36	0 ⁻	7.28	F5	3-3-3	Velocity Star. <i>numbered 11297 l. weak</i>										
02 23W	+20 48	0	7.37	G5	3-3-3	BINARY.										
01 34W	+33 36	0	5.4	F5.	4-4-4-4	Exposures 12-8 min. Flipper in $\frac{1}{2}$ time. <i>good; l. weak</i>										
01 45W	+24 48	0-1	5.6	F0	4-4-4-4.	Exposures 12-8 min. Flipper in $\frac{1}{2}$ time. <i>Following brighter star. weak</i>										
00 23W	+17 04	0 ⁻	5.6	F2.	4-4-4-4	Exposures 10-14 min Flipper in $\frac{1}{2}$ time. <i>Hi 1899H weak; weak</i>										
01 18W	+46 59	0 → 0 ⁻	7.52	K0	3-3-3	Binary. <i>weak</i>										
					7-5 sec	<i>No focus test?</i>										
01 56W	+44 44	0 ⁻	7.52	K0	3-3-3	Binary. <i>l. weak</i>										
01 02W	+48 17	0 ⁻	7.42	B2	3-3-3	Binary. <i>weak</i>										
00 23W	+42 22	0 → 1	5.7	F8.	4-4-4-4	Exposures 14-8 min. Flipper in $\frac{1}{2}$ time. <i>fine l. weak</i>										
						<table border="0"> <tr> <td></td> <td>m.c.</td> <td>S.C.</td> <td>m.P.W.</td> <td>S.T.W.</td> </tr> <tr> <td>Aug. 16</td> <td>-28.8</td> <td>-12.8</td> <td>+24.2</td> <td>+0.5</td> </tr> </table>		m.c.	S.C.	m.P.W.	S.T.W.	Aug. 16	-28.8	-12.8	+24.2	+0.5
	m.c.	S.C.	m.P.W.	S.T.W.												
Aug. 16	-28.8	-12.8	+24.2	+0.5												
						440 plates in dome. Heat NOT on Mirror.										
						Catch seeing cover for plates came loose while										
						spotting two different plates and plates came										
						loose - plates rejected.										
						Fresh flashlight batteries needed.										
						Dome moves unsmoothly slowly but going W. with										
						shutter spring breaking										

Date 1945 August 16-17, Thursday N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11305	HD 170829	18 26.4	+20 46	1-25	E ₁₀₃₀₀	008	+21.9	21 49	22 49	1
11306	181144	19 14.2	+16 19	"	"	"	+21.9	22 54	23 44	2
11307	196133	20 30.3	+44 50	"	"	"	+21.9	23 49	00 11	3
11308	213389	22 25.9	+48 51	"	"	"	+21.8	00 18	01 08	4
11309	YP 7425; v And	23 41.1	+45 52	"	"	"	+21.8	01 13	01 49	1
11310	HD 5638	00 53.0	+46 31	"	"	"	+21.8	01 54	02 16	2
11311	3264	00 30.7	+48 00	"	"	"	+21.9	02 21	02 57	3
	} focus test									

Considerable cirrus cloud at sunset.
 Opened up at 20.00 but delayed exposing because of
 clouds. Finally clearings 21 45
 Focus 23.47 ±

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 44 W	+20 48	1	7.37 G5	3-3-3	binary seeing variable fine
1 51 W	+16 23	0-1	7.34 F5	3-3-3	binary fine
1 02 W	+35 01	1	6.62 A2	3-3-3	binary l. strong
0 04 W	+49 06	1	7.52 K0	3-3-3	binary fine
0 31 E	+46 09	1	6.1 CG5	3-3-3; 3-3-3	Exposures 14 ^m , 22 ^m flipper $\frac{1}{2}$ v. strong
1 16 E	+46 46	1	6.56 B2	3-3-3	binary strong
0 12 E	+48 17	1	7.23 B2	3-3-3	binary setting 3 l. strong
				7-7	setting 8 focus w. slightly to violet

(After setting on HD 213389 the dome was not moved until closing up!)

3 holders loaded; + 6 plates.
 Aug 17 MC SC MW SW
 -28°8 -9°4 +32°2 +0°7

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Date 1945 Aug 18-19 Saturday D Julian Day 2431681.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11313	HD 153601	16554	+17 57	"	"	Set 009	25.5	20 02	21 52	
11314	HD 164615	17569	+11 17	"	"		25.6	21 00	21 36	
11315	HD 181144	19142	+16 19				25.5	21 41	22 21	
11316	HD 190243 Sag. Boys	19366	+17 ¹⁵ 15				25.2	22 23	22 43	
11317	YP 6001 5012	19335	+44 28				25.5	22 47	23 27	
11318	YP 6022 5021	19375	+45 17				25.6	23 31	23 51	
11319	HD 196133	20703	+44 50				25.3	23 51	00 11	
	HD 196133									
11320	YP 6001 5012	21081	+40 42				25.4	00 16	00 59	
11321	HD 209913	22010	+46 45				25.3	01 01	01 39	
11322	HD 217399	22219	+44 51				25.4	01 36	02 02	
11323	HD 214946	22367	+44 29				25.5	02 06	02 30	
11324	YP 214	^{41.8} 00448	+11 26				25.3	02 37	03 03	
11325	YP 227	00437	+16 24				25.4	03 07	03 23	
11326	HD 3264	00307	+48 00				25.4	03 28	03 52	
11327	HD 5638	00530	+46 31				25.4	03 55	04 11	

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 ^h 30 ^m W	+7 56	0→	7.88 F ₀	3-3-3	Field of finder ⊕ 4/4.5 light blue <i>l. weak</i>
1 ^h 09 ^m W	+11 20	1	7.70 F ₂	3-3-3	" " <i>l. weak</i>
1 ^h 16 ^m W	+16 25	1	7.34 F ₅	3-3-3	Binary " <i>good</i>
0 ^h 26 ^m W	+17 24	1+	5.4 G ₇	4-4-4-4	Slipper in 2/3 sep 12-min clouds <i>good</i>
1 ^h 24 ^m W	+44 37	1+	6.0 G ₂	4-4-4-4	" 1/2 34-min <i>fine fine</i>
1 ^h 31 ^m W	+45 26	2-	5.3 F ₂	4-4-4-4	6.15 min <i>fine fine</i>
1 ^h 41 ^m W	+45 01	2-	6.62 A ₂	3-3-3	Binary <i>good</i> <i>good</i>
				3-7	
0 ^h 45 ^m W	+40 56	2-	6.9 A ₂	3-3-3	Flipped <i>fine</i>
0 ^h 57 ^m W	+47 00	2	7.52 G ₀	3-3-3	Binary <i>fine</i>
1 ^h 06 ^m W	+49 07	2-3	7.77 K ₀	7-3-3	<i>good</i> <i>too strong</i>
1 ^h 24 ^m W	+44 45	2	7.26 A ₂	3-3-3	" <i>good</i> <i>fine</i>
0 ^h 08 ^m E	+11 43	1-2	6.5 G ₅	3-3-3	Slipper in 2/3 <i>strong</i>
0 ^h 09 ^m W	+16 41	1-2	5.6 F ₅	4-4-4-4	" <i>good</i> <i>fine fine</i>
0 ^h 50 ^m W	+48 17	2	7.23 B ₂	3-3-3	Binary <i>309 pairs in line</i>
0 ^h 47 ^m W	+46 47	2	6.56 B ₂	3-3-3	" <i>309 pairs in line</i>

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Date.....1945 August 19-20, Sunday No..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	f	Hour Angle End
11328	H.D. 170829	18 26.4	+20 46	1-25"	E-103a-D	^{alt} .008	+26.9°C	19 50	20 44	1	0 05
11329	164898	17 58.3	+45 21	"	"	"	26.9	20 48	21 48	2	1 24
11330	172187	18 33.7	+43 08	"	"	"	26.8	21 51	22 14	3	1 50
11331	179367	19 07.2	+44 22	"	"	"	26.9	22 18	23 34	4	2 20
11332	196133	20 30.3	+44 50	"	"	"	26.7	23 38	00 18	1	1 20
11333	Y.P. 6766	21 40.4	+5 8 19	"	"	"	26.8	00 22	01 36	2	1 50
11334	H.D. 214946	22 36.7	+44 29	"	"	"	26.7	01 40	02 14	3	1 40
	Focus test - outside focus base $7^s.6^s$										
11335	Y.P. 7372	23 35.2	+77 04	"	"	"	26.7	02 29	02 40	1	1 50
11336	Y.P. 7468	23 49.4	+56 57	"	"	"	26.7	02 48	03 08	1	1 50
11337	H.D. 3264	00 30.7	+48 00	"	"	"	26.7	03 12	03 40	1	1 50
11338	5638	00 53.0	+76 31	"	"	"	26.7	03 49	04 11	1	1 50
11339	10588	01 38.2	+31 43	"	"	"	26.7	04 16	04 48	1	1 50

17

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					Focus set 23.40±
0 01E	+20 49	1-2-3	7.37	G ₅ -3-3-3	Binary haze seeing variable <i>little too strong</i>
1 24W	+45 24	1-2	7.44	A ₀ 3-3-3	" " " " <i>strong</i>
1 15W	+43 13	1-2	6.40	A ₅ 3-3-3	" " " " <i>strong</i>
2 01W	+44 30	0-1	7.31	A ₅ 3-3-3	Vel. * haze getting thicker? <i>good</i>
1 22W	+45 00	1-2	6.62	A ₂ 3-3-3	Binary <i>fine</i>
1 30W	+58 34	1-2	5.8-6.6	M ₀ 3-3-3	Flipper in 3/4 exposures 4.6, 2.8 <i>strong + variable *</i>
1 12W	+44 45	3	7.26	A ₂ 3-3-3	Binary <i>too strong</i>
					OK
0 39W	+77 21	2-3	4.4	K ₀ 7-7-7	Flipper in 2/3 exposures 2.0, 2.5, 3.0 min <i>fine</i>
0 51W	+57 13	2	5.1-5.8	F ₈ 4-4-4	Flipper in 1/2 exposures 12, 8 min <i>fine</i>
0 50W	+48 18	3	7.23	B ₂ 3-3-3	Binary haze <i>fine</i>
0 52W	+46 46	3	6.56	B ₂ 3-3-3	" " " <i>too strong</i>
0 34W	+31 56	3	7.20	G ₅ 3-3-3	" " " <i>fine</i>
x 7					3+2 photos in dome
					Set by full + 5 in small Eastman box
					ME SC MTW STW
					-31.2 -06.8 +39.8 +0.8

Date Monday August 20-21, 1945Sh Julian Day 2431688.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11340	HD 170829 Fours Test	18 26.4	+20 46	E-25	E-1030-0	Set .008	+27.7	21.43	23.37	I
		Outside	through	Base						
11341	HD 196133	20 30.3	+44 50	E-25	E-1030-0	.008	+27.6	23.48	00 10	II
11342	YP 6724, 4 Peg	21 33.5	+05 19	E-25	E-103a-0	.008	+27.6	00.18	00.46	III
11343	Y1 6872, V Peg.	22 00.6	+04 34	E-25	E-1030-0	.008	+27.5	00.51	01.23	IV
11344	HD 212442	22 19.2	+14 46	E-25	E-103a-0	.008	+27.4	01.27	01.43	I
11345	HD 214946	22 36.7	+44 29	E-25	E-1030-0	.008	+27.3	01.50	02.14	II
11346	HD 216608	22 49.2	+44 13	E-25	E-103a-0	.008	+27.3	02.18	02.24	III
11347	HD 224801	23 55.7	+44 42.	E-25	E-1030-0	.008	+27.3	02.30	02.42.	I
11348	HD 5638	00 53.0	+46 31	E-25	E-103a-0	.008	+27.3	02.47	03.03	I
11349	HD 3264	00 30.7	+48 00	E-25	E-1030-0	.008	+27.3	03.08	03.34	II
11350	YP 405 S And.	01 16.4	+45 00	E-25	E-103a-0	.008	+27.3	03.38	04.04	III
11351	HD 10588	01 38.2	+31 43	E-25	E-103a-0	.008	+27.3	04.11	04.35	IV
11352	YP 472, V And.	01 30.9	+40 54	E-25	E-1030-0	.008	+27.3	04.40	04.54	I
	Tuesday Aug 21		D	Rain at 10 PM,	still cloudy at 01					hr. Waited

Clouds in early evening. Sky 60% overcast by 20:00. T. Op 21:20 despite several light clouds.

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISON	REMARKS
02 49 N	+20 48	0-1	7.37 G5	3-3-3	Haze and fog in valley. BINARY. Increasing light clouds. Seeing with clouds. Focus Set 23.38 ± 00.0
				7-5	On the comp. <u>very weak</u> in the light. Fine
01 18 W	+45 02	1-2	6.62 A2	3-3-3	Binary. Haze. Fine
00 50 W	+05 34	1-2	6.1 F0	4-4-4-4	Light haze. Flipper in 1/2. Exposures 16-12 min. Fair
01 00 W	+04 49	1-2	6.1 K5	4-4-4-4	Flipper in 2/3. Exposures 20-12 min. " "
01 02 W	+15 02	2	6.73 B8	3-3-3	Binary. Weak
01 14 W	+44 45	2 ⁺	7.26 A2	3-3-3	Binary. Good
01 14 W	+44 29	2 ⁻	5.75 A4	3-3-3	Binary. L. strong
00 24 W	+45 00.	1-2.	6.23 A0p	3-3-3	Binary. Good
00 12 E	+46 47	1-2	6.56 B2.	3 3 3	Binary. Fine
00 41 W	+48 17	1-2	7.23 B2	3-3-3	Binary. Fine
00 27 W	+45 17	1-2	6.0 K0	4-4-4-4	Flipper in 2/3 Exposures 16-10 min. Fine. L. strong
00 35 W	+31 57	1-2	7.20 G5	3-3-3	Binary. Good
01 02 W	+41 09	1-2	5.0 F0	4-4-4-4-4-4	Flipper in 1/2 Exposures 6-4 1/2 - 3 min. L. strong. Fair
					3+0 plates in low but NOT on film.
					August 22 - 334 ^{MC} 5 ^{SC} +03:2 ^S 1404 ^{NW} 10.5 ^{SW}

Clouds at sunset, strong NW wind, clearing slowly at 00:00
21:30 despite light clouds to get in way.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARIS	REMARKS
						Focus Set 23:49 F00.01
03 16 W	+20 49	0-1	7.37	G5	3-3-3	BIFFY. Light clouds down most of exposure.
01 18 W	+04 07	1-	5.7	F5	4-4-4	Flipped in $\frac{1}{2}$. Exposures 14-8 min Composet. Light clouds. ^{double star - set on built-in properly} _{good}
					7-5 ^s	focus OK
			6.68	- B8		Delay start because of large cloud patch;
						Outlook unchanged at 01:45 E.S.T. - thickly scattered light
						nebulae - not worth going on - close up.
						3 + 10 plates in dome heat not on Mirror.
						<div style="text-align: right; margin-right: 50px;"> $\overbrace{\hspace{10em}}$ </div> <div style="display: flex; justify-content: space-between;"> Aug. 23 MC SC MTW STW </div> <div style="display: flex; justify-content: space-between;"> -33.5 +06.1 +47.5 +0.9 </div>

Found dome not changed.

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Focus unchanged

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS								
20 43	42 E	+43° 13'	1	6.40	A5	2-2-2 Bin								
20 54	21 W	20 49	0-1	7.37	G5	2-2-2 " (Holder discarded)								
20 54	20 W	16 25	0-1	7.34	F5	2-2-2 "								
20 54	54 W	27 54	0-1	6.57	B5	2-2-2 " (dec (45) wrongly computed)								
20 54	5 ^m W	45° 01	1	6.76	A2	2-2-2 "								
20 54	40 ^m E	47 00	1	7.53	K0	2-2-2 "								
					7-5									
20 54	36 E	44 45	1	7.26	A2	2-2-2 "								
						4 + 12. + 1 plates in dome.								
						Watch adv. 1 min.								
					Aug. 24	<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>-34.8</td> <td>+09.0</td> <td>-06.8</td> <td>0.0</td> </tr> </table>	MC	SC	MTW	STW	-34.8	+09.0	-06.8	0.0
MC	SC	MTW	STW											
-34.8	+09.0	-06.8	0.0											

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Date Sunday August 26-27, 1945Sh Julian Day 2431694.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Filter	Hour Angle End
11362	HD 170829	18 26.4	+ 20 46	I-25	E-103a-0	^{set} .008	+17.5	19.45	20.41	IV	
11363	HD 164898	17 59.6	+ 45 21	I-25	E 103a-0	.008	+17.5	20.47	21.41	I	
11364	HD 179394	19 07.3	+ 42 26	I-25	E 103a-0	.008	+17.5	21.46	22.36	II	
11365	HD 181144	19 14.2	+ 16 19	I-25	E 103a-0	.008	+17.4	22.42	23.36	V	
11366	HD 196133	20 30.3	+ 44 50	I-25	E 103a-0	.008	+17.3	23.43	00 07	II	
11367	HD 209813	22 01.0	+ 46 45	I-25	E 103a-0	.008	+17.3	00.11	01.45	I	
11368	HD 213389	22 25.9	+ 48 51	I-25	E 103a-0	.008	+17.2	00.49	01.24		
11369	{ HD 214946	22 36.7	+ 44 29	I-25	E 103a-0	.008	+17.2	01.32	02 12	III	
	{ Focus Test	Outside	through (Ba)								
11370	HD 224801	23 55.7	+ 44 42	I-25	E 103a-0	^{set} .008	+17.1	02.26	02 38	I	
11371	HD 3264	00 30.7	+ 48 00	I-25	E 103a-0	.008	+17.0	02.45	03.09	I	
11372	HD 5638	00 53.0	+ 46 31	I-25	E 103a-0	.008	+17.0	03.14	03.28	II	
11373	YP 443, 449 Andr	01 24.1	+ 46 29	I-25	E 103a-0	.008	+17.0	03.32	03.56	II	
11374	HD 10588	01 38.2	+ 31 43	I-25	E 103a-0	.008	+17.1	04.01	04.23	I	
11375	YP 660, 8 Tr	02 10.9	+ 33 46	I-25	E 103a-0	.008	+17.1	04.27	04.51	I	

Clear all day, clouding in from W 18:30-21:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	Focus Set 23.54 ± 0.02	REMARKS
00 14W	+20 49	0-1	7.37 G5	3-3-3		BINARY. fine
01 45W	+45 22	0	7.42 A0	3-3-3		Binary (1 star only in finder field). Light clouds 21:35 L. weak
01 30W	+42 31	0	7.33 B8	3-3-3		Velocity star Light clouds (scattered) 21:45-22:15 weak
02 24W	+16 24	0-1	7.34 F5	3-3-3		Binary Light clouds (scattered) 22:40-23:20 L. weak
01 38W	+45 01	0-1	6.76 A2	3-3-3		Binary. little weak
00 45W	+46 59	1-2	7.52 K0	3-3-3		Binary good
01 04W	+49 06	1-2	7.52 K0	3-3-3		Binary. Light clouds 01:15. good
01 37W	+44 46	0-1	7.26 A2	3-3-3		Binary good
				7-5		seeing good Delayed by trouble with flashlight. Found battery too loosely connected.
00 43W	+44 57	1-2	6.25 A0p	3-3-3		Binary. Light clouds 02:30. fine
00 40W	+48 16	2	7.23 B2	3-3-3		Binary. good fine
00 35W	+46 46	2	6.56 B2	3-3-3		Binary. good fine
00 32W	+46 45	2	6.1 G5	4-4-4-4	Exposure 16-8 min. Flipper in 1/2 time. Scattered light clouds 02:00-04:00	fine
00 46W	+31 57	2	7.20 G5	3-3-3		Binary. good good
00 41W	+33 59	2	5.7 G0	4-4-4-4-4-4	Exposure 10-8-8 min Flipper in 1/2 time. Heat not on Mirror. 0 + 2 plates in dome. not too strong	good

Date Monday August 27-28/45 No. Julian Day 243169.55

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11376	H.D. 170829	18 26.4	+20 46	I-25"	E-103-0	^{set} .008	+20.3°C	19 39	20 27	2
11377	181144	19 14.2	+16 19	"	"	"	20.3	20 32	21 16	3
11378	164898	17 58.3	+45 21	"	"	"	20.3	21 21	22 15	4
11379	180316	19 11.0	+27 46	"	"	"	20.3	22 19	23 13	1
	Focus test outside phase base				7 ^s -6 ^s					

August 28. ^{MC} -38.0^s ^{SC} +18.7^s ^{MTW} +06.2^s ^{SW} -0.1^m

clouding in from West at beginning of night!

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						Focus set 23.50 ±
0 06 W	+20 49	3	7.37	G _s	3-3-3	Binary - haze - cirrus clouds 19.47 - clearer 20.05 ^{l. stars}
0 06 W	+16 25	3	7.34	F _s	3-3-3	" thick haze ^{fine}
2 22 W	+45 24	2-1	7.42	A ₀	3-3-3	" haze - clouds 22.03 ^{fine}
2 07 W	+27 53	1	6.57	B _s	3-3-3	" " main clouds 22.30 and 22.40 - 22.50 stellar image barely visible thick haze and clouds 22.55 - star gone 23:13 Endless clouds 00.30 - cloud up - solid 2+8 plates in dome. cloud 0225

Date Tuesday August 29 1945 D Julian Day 2421025

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11380	HD 194131	20 303	+44.50	2"			21.5	19 52	20 24	
11381	HD 164898	17 573	+45 21				21.8	20 47	21 15	
11382	YF 5639	19 401	+31 50				22.0	21 54	22 05	
11383	HD 190716	19 11.0	+57 46				22.0	22 06	22 21	
11384	YF 5925	19 222	+42 12				21.9	22 29	23 17	
	YF 6417	20 473	+61 27							
11384F	Focus Test									
Wednesday August 29-30 1945 Ch										
Thurs. Morn. 18-00. Heavy clouds and s. th. sl. - till 00:00 E.S.T.										
Friday August 30/31 No - sky clear during early evening but clouded in at dusk. Scattered clouds plus two to three magnitudes of haze (at dusk), up to 01.00 E.S.T. when the situation was still hopeless.										

clouds at dusk - W wind 192

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Remarks																												
1 ^h 50 ^m E	+45 01	1-2	6.76 A ₂	3-3-3	bag																												
1 ^h 50 ^m W	+45 22	1	7.42 A ₀	3-3-3	along in nothing																												
1 ^h 53 ^m W	+31 54	1-2	5.5 F ₀	4-4-4	flipped in up. 8-12 min																												
1 ^h 20 ^m W	-21 54	1-2	6.58 D ₀	3-3-3																													
2 ^h 01 ^m W	+43 20	1-2	6.8 G ₀	3-3-3	clouds																												
			4.3 G ₇		not in the - nothing fiber, clouds																												
				9-7																													
					cloudy at 01 hrs.																												
					4 + 1/2 plates in dome																												
Friday August 31 - September 1. Sh																																	
Think did not start on Friday				F.T.																													
Rain 00 15																																	
Saturday Sept 1-2 D																																	
mm!																																	
cloudy at half.																																	
opened up a bit on 224 101 at 02 ^h																																	
but filled in soon again																																	
- r.g. at 03 ^h Plate box in dome																																	
					<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>M.H</td> <td>SW</td> </tr> <tr> <td>August 29 -38.6^s</td> <td>+214</td> <td>+112^s</td> <td>+2.2^m</td> </tr> <tr> <td colspan="2">Reach Aug. 29</td> <td>S.T.W. +00.1</td> <td>M.T.W. +0.3</td> </tr> <tr> <td colspan="2">Aug 30</td> <td>MC -39.3</td> <td>SC +23.7</td> </tr> <tr> <td colspan="2"></td> <td>MTW +03.5</td> <td>STW 0.0</td> </tr> <tr> <td colspan="2">31</td> <td>-39.7</td> <td>+26.4</td> </tr> <tr> <td colspan="2"></td> <td>+06.8</td> <td>+0.1</td> </tr> </table>	MC	SC	M.H	SW	August 29 -38.6 ^s	+214	+112 ^s	+2.2 ^m	Reach Aug. 29		S.T.W. +00.1	M.T.W. +0.3	Aug 30		MC -39.3	SC +23.7			MTW +03.5	STW 0.0	31		-39.7	+26.4			+06.8	+0.1
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31		-39.7	+26.4																														
		+06.8	+0.1																														

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Date Sund. September 2-3 1945Julian Day 2487.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11385	H ₁ 15224	16 47.0	+32 44	E-25	F1100-0	.008	+20.7	19.55	20.45	
11386	H ₁ 1648.8	17 58.3	+45 21	E-25	F920-0	.008	+20.7	20.1	21.05	
11387	H ₁ 17	18 24	+47	E-25	F1020-0	.008	+20.6	21.12	22.0	
11388	H ₁ 196133	20 23	+42 5	E-25	F1100-0	.008	+20.5	21.0	22.0	
11389	H ₁ 154270	17 58.3	+45 21	E-25	F1100-0	.008	+20.5	21.35	22.05	
11390	H ₁ 209813	21 10	+46 45	E-25	F1100-0	.008	+20.2	20.01	21.0	
11391	H ₁ 213337	21 51	+48 51	E-25	F1030-0	.008	+20.1	20.41	21.35	
11392	H ₁ 21444	21 51.7	+48 29	E-25	F1100-0	.008	+19.9	21.10	21.55	
11393	H ₁ 215242	22 38.7	+41 00	E-25	F1100-0	.008	+19.1	21.34	22.10	
11394	H ₁ 205955	21 53.7	+46 21	E-25	F1020-0	.008	+19.9	01.49	02.13	
11395	H ₁ 214501	21 55.7	+44 40	E-25	F1000-0	.008	+19.9	22.20	23.00	
11396	H ₁ 3214	00 17	+45 00	E-25	F1100-0	.008	+19.9	02.35	03.10	
11397	H ₁ 5632	00 50	+41 31	E-25	F1100-0	.008	+19.9	02.58	03.40	
	for T. 1100	1, 100	42, 100							
11398	H ₁ 1158	01 30.2	+31 43	E-25	F1100-0	.008	+19.9	03.21	03.57	
11399	Y - 1100	01 51.9	+17 20	E-25	F1100-0	.008	+19.9	03.30	03.55	

12:47 ± 00.01

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMP. MAG.	REMARKS	
01 01W	+32 21	1 1-2	7.26	ko	3-3-3	Berary Lighter Sun good
01 37W	+45 24	0-1	7.42	A0	3-3-3	comp. shift too weak
02 14W	+20 41	1	7.27	G5	3-3-3	too weak
02 34W	+45 01	1-2	6.76	A2	3-3-3	Berary good
02 54W	+45 23	1-	7.42	A0	3-3-3	Berary l. weak
03 14W	+47 00	2	7.5	ko	3-3-3	Pro. - Tall wall v. good
03 08W	+44 06	2-3	7.52	ko	3-3-3	Berary guiding! weak
03 21W	+44 46	3	7.26	A2	3-3-3	Berary good
03 32W	+46 54	2-3	6.42	A.5	3-3-3	Berary guiding! weak
03 42W	+46 35	2-3	7.34	B	3-3-3	Berary " weak
03 02W	+44 51	3	6.25	Amp	4 4	Berary fine
03 51W	+48 16	2-3	7.2	v	3-3-3	Berary guiding v good
03 44W	+46 47	3	6.56	B2	3-3-3	Berary guiding good
				7 5		
03 17W	+3 57	3	7.20	G5	3-3-3	Berary fine
03 36W	+17 37	3	6.0	T5	4-4-4	Berary v good

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	+16 54	3	6.74 110	3-3-3	B. mag. guiding! good
	+16 06	3	1.4 45	4-4-4	Flare in $\frac{1}{2}$ hr. E. of 12. fine, good
x	+15 04	3	6.1 45	4-4-4	Flare in $\frac{2}{3}$ hr. E. of 12. guiding! fine & weak
					2+3 min in line.

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Developed Sunday's plates.

Date 1945 Sep. 3-4 Monday N - H Julian Day 1702.5


Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11403	HD 164898	17 58.3	+45 21	1-25	E103a0	.008	+21.2	19 39	20 57	3
11404	170829	18 26.4	+20 46	"	"	"	+21.1	21 07	22 07	2
11405	180316	19 11.0	+27 46	"	"	"	+20.9	22 13	22 55	1
11406	196133	20 30.3	+44 50	"	"	"	+20.9	23 01	23 55	2
11407	209813	22 01.0	+46 45	"	"	"	+20.9	23 40	23 52	3
11408	213389	22 25.9	+48 51	"	"	"	+20.9	0 33	1 17	4
11409	215242	22 38.7	+46 38	"	"	"	+20.9	1 21	1 47	1
11410	216608	22 49.2	+44 13	"	"	"	+20.9	1 49	2 01	2
11411	224801	23 55.7	+44 42	"	"	"	+20.9	2 04	2 13	3
11412	3264	00 30.7	+48 00	"	"	"	+20.9	2 22	3 02	4
11413	5638	00 53.0	+46 31	"	"	"	+20.9	3 06	3 52	1
11414	10588	01 38.2	+31 43	"	"	"	+20.7	3 32	3 53	1
11415	14688	02 17.1	+16 25	"	"	"	+20.7	4 02	4 26	2
11416	27483	04 15.2	+13 38	"	"	"	+20.7	4 31	4 53	2
11417	YP427 31 Arcturus	02 42.0	+28 50	"	"	"	+20.9	4 57	5 17	2
	Sprocket - outside the box.									

First set on HD 196133, but found I could not clamp by hand in this position.

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focus 23.48 ±

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 32 W	+45 23	0	7.42 A0	3-3-3	image very weak  ; image improving towards end of exposure. good
2 12 W	+20 48	0-1	7.37 G5	3-3-3	seeing variable cloud rising from west
2 17 W	+27 53	0	6.57 B5	3-3-3	light clouds L. weak in K good fine
1 37 W	+45 01	0-1	6.76 A2	3-3-3	Remain Binary
1 02 W	+47 00	0-1	7.52 K0	3-3-3	Light clouds [Patch stopped for a few minutes. Point from sidereal circle. did this 22 ^h 22 ^m -8 good
1 17 W	+49 07	1	7.52 K0	3-3-3	Binary good
1 40 W	+46 57	1	6.42 A0s	3-3-3	" fine
1 46 W	+44 30	1	5.73 A4	3-3-3	" fine
0 51 W	+44 58	1-2	6.25 A0p	3-3-3	" fine
1 05 W	+48 17	1-2	7.23 B2	3-3-3	" fine
1 08 W	+46 47	1-2	6.56 B2	3-3-3	" Light clouds fine
0 53 W	+31 57	1-2	7.20 G5	3-3-3	" L. weak
0 42 W	+16 39	2	6.78 A0	3-3-3	" [found flip/see partly in at end of exposure] fine
0 40 E	+13 47	1-2	6.57 F4	3-3-3	" fine
0 58 W	+24 03		5.8 K1		Flip/see 2 fine

(on ...)

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Date 1945 Sep 4-5 Tuesday D Julian Day 1703.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11418	HD 209813	22 01.0	+46 45			let 008	22 6	23 33	00 43	2
11419	216608	22 49.2	+44 13				22 9	00 47	00 57	3
11420	219634	23 12.2	+61 25				22 3	01 02	01 16	4
11421	224801	23 55.7	+44 42				22 3	01 21	01 33	1
11422	YP 7496 WPrisc	23 54.2	+06 19				22 3	01 39	01 52	3
11423	{ HD 2229 { Focus Test	00 30.7	+48 00				22 2	01 55	02 19	2
11424	HD 5638	00 52.0	+41 31				22 4	02 25	02 43	4
11425	YP 346 ^{beta} Prisc	01 04.1	+35 05				22 4	02 49	03 06	1
11426	HD 10588	01 38.2	+31 43				22 3	03 00	03 24	2
11427	YP 509 ¹⁰⁷ Prisc	01 37.1	+19 47				22 3	03 28	04 00	3
11428	HD 14685	02 17.1	+16 25				22 2	04 04	04 22	3
11429	HD 19473	02 53.1	+59 17				22 2	04 31	04 51	1
11430	YP 878 ⁴⁷ Prisc	02 52.4	+20 14				22 2	04 56	05 08	3

September 11 1954 4.8 7.28 4.72 4.08 200
 clouds and haze until 23.00
 September 11 1954 -43.1 8.3 -18.85 -0.7
 Watch out
 focus set 23.46

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
20:43	1 ^h 19 ^m W	+47 01	2-	7.52 K ₀	3-3-3	Haze fine
20:57	0 ^h 45 ^m W	+44 30	2+	5.73 A ₄	3-3-3	fine
21:10	0 ^h 41 ^m W	+41 50	2	6.34 B ₄	3-3-3	weak
21:23	—	+44 59	2+	6.25 A _{0p}	3-3-3	too strong
21:44	0 ^h 37 ^m W	+46 30	2	4.4 F ₅	8-8-8	flipper in 1/2 exp 2.5-4 min strong, too li
21:54	0 ^h 25 ^m W	+48 18	3+	7.29 B ₂	3-3-3	fine
					9-7	ok
22:10	0 ^h 27 ^m W	+46 47	2	6.56 B ₇	3-3-3	too strong
22:23	0 ^h 28 ^m W	+35 22	2	3.7 Ma	8-8-8	flipper in 2/3 exp 1.5-2-3 min
22:42	0 ^h 22 ^m W	+31 57	2+	7.20 G ₅	3-3-3	too strong
22:52	0 ^h 01 ^m W	+20 03	2	6.1 G ₅	4-4-4-4	flipper in 2/3 exp 20-22 min
23:00	0 ^h 42 ^m W	+16 40	2-3	6.78 K ₀	3-3-3	strong
23:10	0 ^h 22 ^m W	+59 27	2-3	7.35 A ₀	3-3-3	strong
23:16	0 ^h 53 ^m W	+20 30	2	6.2 F ₅	3-3-3	flipper in 1/2 too strong

Date.....1945 Sep. 5-6 Wednesday.....No..... Julian Day.....2431704.5.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
11431	H.D. 181144	19 14.2 1945	+16 19 1945	1-25"	E-103a-0	^{sub} .008	+26.1°C	19 22	20 12	5	2 21:1
	Nova Aquilae 19 16.0 +00 35 - identification uncertain - probably too										
11432	170829	18 26.4	+20 46	1-25"	E-103a-0	.008	26.1	20 43	21 37	4	5:11
11433	164898	17 58.3	+45 21	"	"	"	26.1	21 41	22 31	1	2:10 W
11434	196133	20 30.3	+44 50	"	"	"	26.1	23 35 ²	23 23	2	3:10
11435	209813	22 01.0	+46 56	"	"	"	26.1	23 27	00 29	2	1:56 W
11436	213389	22 25.9	+48 51	"	"	"	26.1	00 33	01 41	4	1:10 W
	Focus tank - outside thru base 7 ^h -6 ^s										
11437	215242	22 38.7	+46 38	"	"	"	26.0	01 47	02 31	1	2:10 W
11438	216608	22 47.2	+44 13	"	"	"	26.0	02 25	02 43	2	2:30 W
11439	224801	23 55.7	+44 42	"	"	"	26.0	02 47	03 23	3	3:50 W
11440	5638	00 53.0	+46 31	"	"	"	26.0	03 06	03 24	4	1:10 W
11441	10588	01 38.2	+31 43	"	"	"	26.0	03 28	04 12	1	1:40 W
11442	17688	02 17.1	+16 25	"	"	"	26.0	04 15	04 45	2	1:50 W
11443	Y.P. 870	02 50.8	+17 37	"	"	"	25.9	04 48	05 16	3	2:10 W


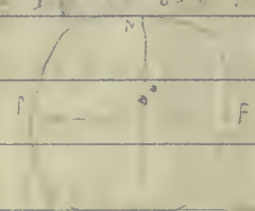
Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Focus set 23.41±
	0 23E	+16 26	1-2	7.34	F ₅	3-3-3 Binary image unsteady - haze fine
						haze
	1 50W	+20 48	2	7.37	G ₅	3-3-3 Binary thick haze fine
	3 13W	+45 22	2-3	7.42	A ₀	3-3-3 Binary fine
	1 33W	+46 01	1	6.76	A ₂	3-3-3 Binary fine
	1 08W	+47 01	1	7.52	K ₀	3-3-3 " haze v. good
	1 56W	+49 06	1	7.52	K ₀	3-3-3 " haze v. good
						OK
	2 23W	+46 55	1	6.42	A ₀₃	3-3-3 " thick haze good
	2 35W	+44 30	2	5.73	A ₄	3-3-3 " 1.5" fine
	1 48W	+45 00	2	6.25	A _{0p}	3-3-3 " fine
	1 11W	+46 48	2-3	6.56	B ₂	3-3-3 " fine
	1 14W	+31 58	2-3	7.20	G ₅	3-3-3 " 1.5" fine
	1 08W	+16 40	2-3	6.78	A ₀	3-3-3 " fine
	1 06W	+17 51	2-3	6.0	F ₅	4-4-4 flipper in 1/2 exposure 18 10mm fine fine 3+0 plates in 1/2

Sep 5 MC SC MTW STW
 -44.6 +42.0 -16.1 ~~-0.5~~ -05
 Correction 204 wrong.

Focus - 2338 1:00-02

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS
02 16 E	+45 02	3	6.76 A2	3-3-3	Binary. Light haze } Trouble with RA clamp motor; when unclamping motor runs for and clamps telescope again. trouble unclamping by hand so for last Motor clamps ok. } <i>good</i>
01 09 W	+45 23	2-3	7.42 A0	3-3-3	Binary
01 19 W	+20 49	2-3	7.37 G5	3-3-3	BINARY } ^{RA} Clamp working fine - motor switched off - <i>good</i>
01 21 W	+48 24	1-0	7.24 A2	3-3-3	Velocity Star. Semi variable. <i>good</i>
02 16 W	+43 13	1-2	6.40 A5	3-3-3	Binary <i>fine</i>
02 23 W	+42 13	1 ⁺	7.20 F8	3-3-3	Velocity Star <i>good</i>
03 02 W	+45 06	1-2	7.20 B9	3-3-3	Velocity Star. Semi variable. <i>good</i>
03 18 W	+41 21	2	6.18 B4	3-3-3	Velocity Star <i>fine</i>
03 32 W	+16 26	2	7.34 F5	3-3-3	Binary. Seeing variable. <i>w. weak</i>
01 13 W	+47 01	3	7.52 K0	3-3-3	Binary. Inscr. var. (unsteady). <i>fine</i>
03 05 W	+45 01	3	6.76 A2	3-3-3	Binary. RA clamp motor would not close at all at <i>guiding</i> <i>fine</i>
01 38 W	+49 05	3	7.52 K0	3-3-3	Binary. Inscr. var. (unsteady). RA clamp motor would not close at all at <i>l. strong</i>
01 49 W	+44 46	3	7.26 A2	3-3-3	Binary. Inscr. var. (unsteady). RA clamp motor would not close at all at <i>fine</i>
02 00 W	+46 05	3	6.42 A05	3-3-3	Binary <i>good</i>
02 56 W	+44 59	3	6.25 A0p	3-3-3	Binary. Inscr. var. (unsteady). RA clamp motor would not close at all at <i>guiding</i> <i>l. strong</i>
				7-5	<i>fine O.K.</i>

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Remarks	REMARKS
.. 5 W	+ 48 17	3	7.23 B2	3-3-3	Binary l. weak
00 45 W.	+ 46 47	3	6.56 B2	3-3-3	Binary fine
00 19 W	+ 31 57	3	7.20 G5	3-3-3	Binary fine
00 21 E	+ 18 09	3	7.3 M6	3-3-3	Flapper on $\frac{2}{3}$ line. fine
00 32 W	+ 16 39	3	6.78 A0	3-3-3	Binary fine
01 06 E	+ 13 47	3	6.57 F4	3-3-3	Binary strong
01 56 E	+ 32 48	2-3	6.56 A2	3-3-3	Binary Furder F  l. strong
01 35 E	+ 30 53	2-3	7.35 B3	3-3-3	Binary Seen as double star in Vande's l. weak
					Light large. L. in at 0.5 85-10
					Vande's F 
<u>(NB)</u>	From box 22 plates only in plate box (1144-11465).				
	Plate no 11466 is wrapped in a label plate				
	wrapped with a dust & plate as protective.				4+0 plate in don. H-11 NOT
	Separated from it by a paper				
	Separator.				

Date Tuesday Sept 7-8/45 No. Julian Day 243.17065

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End	D
11467	H.D. 164898	17 58.3	+45 21	1-2.5"	E-103:0	^{sub} 0.008	+28.5°C	19 19	20 29	1	11 14	14
11468	172187	18 33.7	+43 08	"	"	"	28.7	20 32	21 00	2	14N +	
11469	136133	20 30.3	+44 50	"	"	"	28.5	21 04	21 40	3	22.5	
11470	180316	19 11.0	+27 46	"	"	"	28.5	22 04	22 38	1	2.5N +2	
11471	181144	19 14.2	+16 19	"	"	"	28.6	22 42	23 34	2	3.0N +2	
11472	209813	22 01.0	+46 45	"	"	"	28.4	23 38	00 50	3	31W +2	
11473	213389	22 25.7	+48 51	"	"	"	28.5	00 53	01 31	1	1.5N	
	Focus test outside thru base					7 ^s - 6 ^s						
11474	216608	22 49.2	+44 13	"	"	"	28.4	01 37	02 01	1	2.0N	
11475	224801	23 55.7	+44 42	"	"	"	28.5	02 04	02 44	2	1.7N	
11476	3264	00 30.7	+48 00	"	"	"	28.5	02 48	04 16	3	1.3W +2	
11477	27483	09 15.2	+13 38	"	"	"	28.3	04 21	04 41	1	4.1E +2	
	412 972	03 14.1	+03 00	"	"	"						

cloudy at dusk

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	P.M.S.	REMARKS
	1 ^h 07 ^m W	+30 49	1-2	7.27 A ₁	3-3-3	cloudy
21:50	1 ^h 37 ^m W	+27 55	0-1	6.76 A ₂	3-3-3	cloudy at 21:50
22:00	0 ^h 55 ^m W	+45 01	1+	6.76 A ₂	3-3-3	fine
22:02	1 ^h 44 ^m W	+63 12	1	7.40 A ₅	3-3-3	lightning & 5 too weak clouds
						star gone after 15 min weather ng closed up.

Date Friday September 1 - 1905 Sh Julian Day 215.755

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11482	HD 164898	17 58.3	+45 21	E-25	F13	.008	+25.9	19.21	20.07	
11483	HD 170710	18 25.0	+46 22	E-25	F13	.008	+25.9	20.11	20.41	
11484	HD 172487	18 33.7	+46 08	E-25	F13	.008	+25.9	20.45	20.57	
11485	Y1 5435, P1 4589	18 04.5	+43 27	E-25	F103a-0	.008	+25.9	21.04	21.26	
11486	Y1 5407, P1 4751	18 10.5	+23 56	E-25	F103a-0	.008	+25.8	21.31	21.53	
11487	Y1 5155, P1 4611	18 06.5	+41 27	E-25	F103a-0	.008	+25.8	21.59	22.17	
11488	HD 181144	19 14.2	-16 19	E-25	F103a-0	.008	+25.8	22.25	22.47	
11489	P1 17133	20 30.3	+44 50	E-25	F103a-0	.008	+25.8	23.07	23.27	
11490	HD 209813	22 01.0	+46 45	E-25	F103a-0	.008	+25.8	23.51	24.05	
	Focus Test	Outside	Th. of Box							
11491	HD 213389	22 25.9	+45 51	E-25	F103a-0	.008	+25.8	00.17	00.51	
11492	HD 214941	22 36.7	+44 29	E-25	F103a-0	.008	+25.8	00.41	01.15	
11493	HD 208535	21 53.9	+46 23	E-25	F103a-0	.008	+25.7	01.09	01.31	
11494	HD 215245	22 38.7	+41 27	E-25	F103a-0	.008	+25.7	01.36	01.57	
11495	HD 224801	22 55.7	+41 42	E-25	F103a-0	.008	+25.7	01.52	02.07	
11496	HD 224801	22 30.7	+47 00	E-25	F103a-0	.008	+25.7	02.00	02.27	

Clouds most of day with scattered rain clouds
 probably with some showers when passing in front of clouds
 contacts to be made

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	From Feb 22 14-17 20	REMARKS
	01 07W	+45 24	1	7.42	A0 3-3-3	Bina y Seens vs. variable 0-2+	<u>flexure</u> good
	01 11W	+46 26	1	7.46	F0 3-3-3	Velocit's Str	good
	01 27W	+43 12	1-2	6.40	A5 3-3-3	Binary	Winn's contact 1000 strong
	02 17W	+43 28	2	5.9	F5 4-4-4	Expans 14-18 min. Flap in 1/2	mi. contact fine (Number 1450X) strong
	02 49W	+23 59	2	6.5	F0 4-4-4	Expans 4-8 min Flap in 1/2	weak, to weak
	03 07W	+36 29	2	6.7	G5 3-3-3	Flap in 1/2 line . . . Lyl from to E	l weak
	03 44W	+16 25	1-2	7.34	F5 3-3-3	Binary	l weak
	01 57W	+45 01	2+	6.71	A2 3-3-3	Binary	strong
	01 59W	+46 59	2-3	7.52	K0 3-3-3	Binary	good
					7.5		center slightly to right
	01 07W	+49 07	2-3	7.52	K0 3-3-3	Binary	fine
	01 19W	+44 4	2-3	7.26	A2 3-3-3	Binary	l weak
	02 31W	+46 38	2-3	7.34	F5 3-3-3	Binary	good
	01 14W	+46 54	2-3	6.42	A.5 3-3-3	Binary	strong
	01 02W	+47 59	2-3	6.25	A.1 4-4		good
	01 53W	+45 15	2-3	7.23	A.2 3-3-3		good

Cloudy most of day. Clearing around sunset, but clearing again before dark.

218

Focus set 23.53

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 47 W	+20 49	0	7.37 G5	3-3-3	A few light clouds at first. fine
2 52 W	+16 25	0-1	7.34 F5	3-3-3	good
2 06 W	+45 01	0-1	6.76 A3	3-3-3	Light clouds at end. fine
			7.52 K0		Clouded over completely just before the exposure was ready to start.
					Sept 13 RR SC MM SW -49.3° +5.7° +08.7° -0.1 ^m
					Sept 14 -50.2° +58.8° +11.2° -0.1 ^m
					Thurs Sept 14, 1945 S.
					...

219

Date Saturday September 15-16/45 No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
11512	H.D. 181144	19 14.2	+16 19	1-25"	E-103a-O	^{set} .008	+17.7°C	20 04	21 52	1	51
11513	180316	19 11.0	+27 46	"	"	"	17.2	21 51	22 39	2	24 W
11514	Y.P. 6408	20 42.0	+15 46	"	"	"	17.2	22 44	23 22	3	3 W
11515	Y.P. 6408	" "	" "	"	"	"	17.2	23 04	23 32	3	3 W
11516	H.D. 209813	22 01.0	+46 45	"	"	"	17.2	23 36	00 52	1	1 W
	Focus test - outside these boxes					7 ^s -6 ^s					
	H.D. 221501	23 55.9	+44 42	"	"	"	17.1	00 38		2	

cloudy during afternoon and early evening. Cleared 19:45 E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Fluores set 23.5-3±
	1 59W	+16 26	0-0	7.34	F ₇	3-3-3	Binary was good
	2 48W	+27 54	0	6.51	B ₅	3-3-3	hazy
	1 41W	+15 59	0	4.5	K ₁	8;8;8	} Filter in 2/3 exposures 4, 6, 8 min good luck, etc
	2 10W	+15 59	0	5.5	F ₅	4-4;4-4	
	2 11W	+47 01	0	7.52	K ₀	3-3-3	Binary haze 0007
		+44 59		6.25	A _{0p}	3-	OK Clouded in 3 min after beginning exposure - decided to close shutter for fear of rain scattered clouds: 1:15-12:00. Filled in solid by 02:30 - back up

221

Date Sunday September 16-17, 1945 Solar Julian Day 2431715.5

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11517	{ HD 164898 } Focus Test	17 58.3	+45 21	I-25	E 103a-0	⁵²¹ .008	+14.2	19.10	21.10	1
		Outside	through base							
11518	HD 213389	22 25.9	+48 51	I-25	E 103a-0	⁵²¹ .008	+12.2	23 50	01.10	3
11519	HD 209813	22 01.0	+46 45	I-25	E 103-0	.008	+12.2	01.13	02.19	3
11520	{ HD 3264 } Focus Test	00 30.7	+48 00	I-25	E 103a-0	.008	+12.5	02.25	03.15	4
		Outside	through base							
11521	HD 5638	00 53.0	+46 31	I-25	E 103a-0	.008	+12.6	03.24	03.46	1
11522	HD 10588	01 38.2	+31 43	I-25	E 103a-0	.008	+12.7	03.50		2
Monday Sep 17-18/45 No - cloudy during afternoon and evening. Rain 23.45-										
Heat on meridian 08.00 Sep. 18 (N)										
Tuesday Sept 18-19/45 (Y) H cloudy with rain 2P. Cloudy Sept 19-20 H - cloudy light rain										

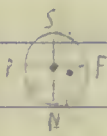

Open up dome & collect J at 20.30 and set on HI
 Start of report delayed by wind - 424 visible up limit of Mt 222

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp. Az. S	REMARKS																				
						Focus Set 23 57 ± 0.0																				
02	35W	+45 23	0-1	7.44 A0	3-3-3	Binary. Light clouds large barely visible at from 20.30 7-5 ^s - Uniform light clouds v. st. y. - outlook very poor Close up temporarily 21.20																				
						Clouds clearing somewhat after 23.00. Reopen 23.30 Focus <u>Reset</u> 23.6 ± 00.02																				
02	08W	+49 05	0-1	7.55 K1	3-3-3	Binary. Light clouds 23.55. 00.15 Slight haze																				
03	43W	+47 00	0-	7.52 K0	3-3-3	Binary. Haze.																				
02	08W	+48 17	0-	7.14 B2	3-3-3	Binary. Haze. Had to undamp in R by hand but mirror clear & v.h. J 7-5 ^s c. d. to mirror																				
02	17W	+46 46	0	6.47 B2	3-3-3	Binary.																				
		+31 57	0-	7.20 G5	3-	Binary. Clouding rapidly at 04.00 Star lost by 04.05 heavy clouds with little part of their clearing. Some showers - Close up. 04.10 4+12 plates in dome. Heat off Mirror																				
						<table border="1"> <thead> <tr> <th></th> <th>m.c.</th> <th>S.C.</th> <th>m.t.w.</th> <th>S.T.W.</th> </tr> </thead> <tbody> <tr> <td>Sep. 17/45</td> <td>-52.2</td> <td>+1 06.3</td> <td>+23.6</td> <td>+0.2</td> </tr> <tr> <td>Sep 18/45</td> <td>-52.8</td> <td>+69.3</td> <td>+29.2</td> <td>+0.3</td> </tr> <tr> <td>Sep 19/45</td> <td>-53.6</td> <td>+71.0</td> <td>+33.2</td> <td>+0.4</td> </tr> </tbody> </table>		m.c.	S.C.	m.t.w.	S.T.W.	Sep. 17/45	-52.2	+1 06.3	+23.6	+0.2	Sep 18/45	-52.8	+69.3	+29.2	+0.3	Sep 19/45	-53.6	+71.0	+33.2	+0.4
	m.c.	S.C.	m.t.w.	S.T.W.																						
Sep. 17/45	-52.2	+1 06.3	+23.6	+0.2																						
Sep 18/45	-52.8	+69.3	+29.2	+0.3																						
Sep 19/45	-53.6	+71.0	+33.2	+0.4																						

September 1955 -577^s +74.5 + 787^s +0.4

Found declination - as usual - enough way out, to have

Cloud all day with rain, clear in hour before sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMPARISONS	REMARKS										
01 51 W	+25 24	0	7.44	A0 3-3-3	Binary  Polar field										
01 52 W	+17 59	0+	6.51	B9 3-3-3	Velocity star Polar field										
02 07 W	+16 25	0	7.34	F7 3-3-3	Binary - Don Sullivan - 110										
02 17 W	+07 18	1	5.6	h0 4-4-4	Eclipse 12-8 min Flip + 2 to guiding										
02 21 W	+09 40	1-2	5.7	F5 1-4-4-4	Eclipse 12-8 min Flip + 2 to guiding										
02 22 W	+14 13	1-	6.91	A05 3-3-3	Binary. Fit - P. ... 										
<p>Don turning next ...</p> <p>Contacts to no avail. Finally ... at ...</p> <p>position at 23:55 by which time don and ...</p> <p>... - closed up with ...</p>															
2 + 8 plates in done. lost on floor															
<table border="0"> <tr> <td></td> <td>m.T.W.</td> <td>S.T.W.</td> <td>S.C.</td> <td>m.C.</td> </tr> <tr> <td>Sep. 21</td> <td>+43.1</td> <td>+0.5</td> <td>+1.18</td> <td>-54</td> </tr> </table>							m.T.W.	S.T.W.	S.C.	m.C.	Sep. 21	+43.1	+0.5	+1.18	-54
	m.T.W.	S.T.W.	S.C.	m.C.											
Sep. 21	+43.1	+0.5	+1.18	-54											

Date 1945 Sep. 21-22 Friday N Julian Day 1720-

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
11528	HD 164898	17 58.3	+45 21	1-25	E 103e0	.008	+15.5	18 58	20 18	1	
11529	180316	19 11.0	+27 46	"	"	"	+15.5	20 22	20 55	2	170-
11530	176133	20 30.3	+44 50	"	"	"	+15.4	21 01	21 27	3	50 w-
11531	215242	22 38.7	+46 38	"	"	"	+15.3	21 24	22 12	4	143 T-
11532	216608	22 49.2	+44 13	"	"	"	+15.3	22 16	22 30	1	100 E-
11533	212442 focus test	22 19.2	+14 46	"	"	"	+15.3	23 12 (22 37)	0 01	5	100 w-
+15.1											
				1945 Sep. 22-23 Saturday No - cirrus clouds during afternoon and early evening. Sky then grew progressively worse. No signs of improvement by 00:30 E.S.T.							
				1945 Sunday Sept 23-24 1945 H - cloudy with light rain							
				1945 Tuesday Sept 25-26 H - cloudy							
				1945 Sep. 27-28 Thu. Cloudy all day; stars visible at 20:30 but still hazy and cloudy. Still too poor 23 ^h N							
				1945 Friday Sept 28-29 H - cloudy with rain							

Focus unchanged

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS															
2 04 W	+ 45 22	0	7.44	A0	3-3-3																
1 27 W	+ 27 53	0	6.51	B5	3-3-3	← dome refuses to turn															
0 50 W	+ 45 01	0-1	6.68	A2	3-3-3	} too strong dome not - moved															
0 43 E	+ 46 56	0	6.42	A0s	3-3-3																
0 36 E	+ 44 29	0	5.74	A4	3-3-3	← dome refuses to turn															
1 25 W	+ 15 02	0-1	6.71	B8	3-3-3	clouds 22.42; enter moon 22.54 because of moon clouds 7-6 3 exposures remained 23.13; more clouds 24.5 dome slipping															
						4 + full box of plates in heat or minor (drying agent put in F. is)															
						Saturday H + No clean contacts, oiled pivots - removed with specimens done turning. Lens OK.															
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Sep. 24</td> <td>-55.8</td> <td>+123.5</td> <td>-0.2</td> <td>-0.1</td> </tr> <tr> <td>27</td> <td>-57.0</td> <td>+131.8</td> <td>too 2</td> <td>-0.3</td> </tr> </table>		MC	SC	MTW	STW	Sep. 24	-55.8	+123.5	-0.2	-0.1	27	-57.0	+131.8	too 2	-0.3
	MC	SC	MTW	STW																	
Sep. 24	-55.8	+123.5	-0.2	-0.1																	
27	-57.0	+131.8	too 2	-0.3																	

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
						Focus set 23.64"
3 07W	+20 49	○	7.59	G8	3-3-3	Binary haze fine
3 06W	+27 54	○	6.51	B ₅	3-3-3	" fine
2 35W	+45 01	○	6.68	A ₂	3-3-3	" watering
2 17W	+47 00	0-1	7.52	K0	3-3-3	" fine
2 07W	+46 55	0-1	6.42	A0:	3-3-3	" watering
						from OK
1 19W	+45 00	0-1	6.25	A0p	3-3-3	" watering
1 46W	+48 18	0-1	7.14	B ₂	3-3-3	" watering
1 57W	+46 46	○	6.47	B ₂	3-3-3	" watering
1 14W	+16 39	0-1	6.78	A _{1.5}	3-3-3	" watering
0 13E	+13 46	○	6.56	F ₄	3-3-3	" watering

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Set Focus 23.68	REMARKS
193-	W 12 ^m	47 00	0	6.90 A4	3, 3, 3		weak
200	W 11 ^m	45 00	1	6.68 A2	3, 3, 3		l. weak
210	W 23	44 11	1	6.69 B8	3, 3, 3		l. weak
215	W 12 ¹⁶ m	48 00	1	7.56 A0	3, 3, 3		weak
2202	W 14	42 35	0	7.04 B9	3, 3, 3		weak
2309	W 19	44 30	0	7.02 B8	3, 3, 3	Discovered top of ladder wet after this exposure.	{condensation? l. weak
242	W 21 ^m	48 16	1	7.14 B2	3, 3, 3	Focus plate	l. weak
110	E 03 ^m	43 47	1	6.54 B9	3, 3, 3		l. weak

Plates fogged in spots - possibly from plate
Box heavy left out in light.

Hypso discarded.

Date 1945 Thursday, October 4-5 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec	
11 552	HD 175743	18 51.7	+17 59	I-25	E-103a-0	^{set} 008	+10.6	18 38	19 12	3	54W +19	
11 553	176053	18 53.3	+31 52	"	"	"	+10.7	19 15	20 15	4	56W +21	
11 554	190658	20 00.9	+15 13	"	"	"	+10.7	20 17	21 37	1	11W +15	
11 555	208 174	21 49.4	+27 53	"	"	"	+10.6	21 43	22 19	2	14W +28	
11 556	213389	22 25. ⁹ 8	+48 51	"	"	"	+10.6	22 22	22 48	3	57W +29	
11 557	215242	22 38.7	+46 38	"	"	"	+10.7	22 52	23 12	2	19W +4	
11 558	219675	23 12.6	+17 45	"	"	"	+10.6	23 16	23 50	1	20 + 8	
} focus test - outside thru' base												
11 559	HD 2019	00 19.4	+30 49	"	"	"	+10.4	23 55	0 31	2	6W +3	
11 560	2767	00 26.1	+33 02	"	"	"	+10.5	0 34	1 06	3	11 + 23	
		1945 Oct. 5-6		Friday	Cloudy with some breaks			N-H				
					Becoming progressively worse			lots rain				
		1945 Oct 6-7		Saturday	cloudy; rain 21:30-23:00			no				
					signs of clearing 01:00							

Light clouds late afternoon. SW + W wind.

Focus set 23.64

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 2	0 54W	+18 04	1	6.80 K2 3-3-3	Binary Light clouds delayed start + persisted. <i>fine</i>
20 5	1 56W	+31 58	1	7.20 A3 3-3-3	" Poor lines. Clouds, but improving. <i>fine</i>
21 35	2 11W	+15 22	1-2-0	8.00 M1 3-3-3	" Light haze. <i>fine</i>
22 1	1 04W	+28 06	1	6.85 A5 3-3-3	" " " <i>fine</i>
22 8	0 57W	+49 06	1-2	7.55 K1 3-3-3	" Clearing + wind decreasing <i>fine</i>
23 1	1 09W	+46 54	1-2	6.42 A05 3-3-3	" <i>little strong fine</i>
23 31	1 12W	+18 02	1-2	7.00 A8 3-3-3	" <i>fine</i>
				10/7	<i>fine</i>
0 2	0 46W	+31 05	1-0	6.78 B9 3-3-3	" <i>fine</i>
1 1	1 15W	+33 17	1	7.08 K0 3-3-3	" Light haze <i>fine</i>

Date Monday Oct 8-9

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End	Decl.
11562	HD. 196133	20 30.3	+44 50	I-25	E103a D	008	+11.6	7 33	8 23	2	-- W --	+
11563	208174	21 49.4	+27 53	"	"	"	+11.7	8 28	9 18		9 W	+2
11564	209813	22 01.0	+46 45	"	"	"						
							Tuesday October 9-10, 1945					
							H - cloudy all night					

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Date 1945 Wed Oct 10-11 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
11564	HD 10588	01 38.2	31 43	I-25	E103a-0	008	+7.7	00 28	01 28	50	3
11565	HD 16855	02 37.1	43 07	"	"	"	+7.0	01 36	02 15	45	45
1945 Oct. 11-12 Thu. H - Clouds and rain											
1945 Fri Oct 12-13 Hd Clouds and rain at night											
Saturday Oct. 13-14, 1945 Sh. Cloudy all day, clearing toward sunset. Clear overhead by 18:00, clouded in by 19:00. Still hazy at 00:50.											
Sunday, Oct 14-15, 1945 H - cloudy all night.											

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Date 1945 Tracer 16-17 Ad Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
11566	HD 130316	19 11.0	+27 46	I-25	S.1039-C	Set 008	+11.2	18 10		
				"			+11.6	18 20	18 5	
11567	HD 196133	20 30.5	+22 50	"	"	"	+11.5	18 59	19 29	c 20
11568	HD 199479	20 52.4	+43 59	"	"	"	+11.4	19 32	20 02	0.2
11569	HD 208835	21 58.9	+46 23	"	"	"	+11.6	20 06	21 20	X 0.49
11570	HD 214946	22 36.7	44 29	"	"	"	+11.5	21 24	22 11	1.01 X
11571	HD 14688	02 17.1	+16 25	"	"	"	+10.8	00 09	00 49	0.9
11572	HD 15814	02 27.5	+14 36	"	"	"	+10.8	00 52	01 12	0.6

Set Focus 23.57

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2	W 1 19	+ 16 25	1	7.34 F7 3,3,3	fine
3	W 0 36	+ 45 00	2	6.68 A2 3,3,3	strong
4	E 0 09	+ 47 00	2	7.52 K0 3,3,3	fine
11	W 0 17	+ 49 05	2	7.55 K1 3,3,3	good
2	W 0 44	+ 44 46	2	7.18 A2 3,3,3	Focus Test o.f.b. (my little telescope)
3	W 0 37	+ 61 33	2	6.47 B4m 3,3,3	fine
4	W 0 51	+ 72 53	1-2	7.58 A2 3,3,3	good
11	W 1 01	+ 31 06	1	6.78 B9 3,3,3	fine
11	E 0 27	+ 16 40	2	6.78 A15 3,3,3	l. strong
11	E 0 11	+ 14 50	1	6.57 F8 3,3,3	l. "

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Focus 23 54 ±	REMARKS
1	21 W	+27 53	1	6.51 B5	3-3-3	
0	44 E	+49 05	1-2	7.55 K1	3-3-3	set. 5; reset 8
0	44 ⁺ W	+44 59	1-2	6.68 A2	3-3-3	Reset focus 23.52±
1	19 W	+46 37	1-2	7.37 B8	3-3-3	light clouds
2	05 W	+47 00	1	7.52 K0	3-3-3	
0	32 W	+44 58	1-2	6.25 A0p	3-3-3	
0	41 W	+48 17	1-2	7.14 B2	3-3-3	cloud bank rising in N.W.
0	28 ⁺ E	+16 37	2	6.78 A1s	3-3-3	
1	11 W	+46 45	2	6.47 B2	3-3-3	light clouds.
					6-7	light clouds scattered over most of sky. heat on mirror
						full box of plates + 4 loaded slides

Date Saturday Oct. 27-28/45 No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End	Dec
11606	H.D. 215566	22 41.0	+44 14	1-25"	E-103a0	^{sub} .008	+07.3°C	20 19	21 49	2	13W	+4
11607	224801	23 55.7	+44 42	"	"	"	7.1	21 54	22 22	3	0.0W	+4
11608	201900	19.4	+30 49	"	"	"	7.1	22 26	23 06	4	0.2W	+3
11609	326400	33.2	+48 00	"	"	"	7.0	23 10	00 14	1	16.9W	+4
Focus test - outside thru lens 7 ^s - 6 ^s												

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Date Sunday, October 28-29, 1945 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Decl
11610	HD 180316	19 11.0	+27 46	I-25	E-163a-0	set 008M	+8.2	17 51	18 23	2	1 21 W +23
11611	181144	19 14.2	+16 19	"	"	"	+8.2	18 26	19 22	3	2 14 W +16
11612	196133	20 30.8	+44 50	"	"	"	+8.2	19 25	19 59	4	1 38 W +4
11613	208174	21 49.4	+27 53	"	"	"	+8.3	20 01	20 37	1	0 56 W +2
	} Focus test outside the base										
11614	209813	22 01.0	+46 45	"	"	"L?	+8.1	20 41	21 37	2	1 45 W +
11615	215242	22 38.7	+46 38	"	"	"	+8.1	21 39	22 09	3	1 39 W +
11616	219675	23 12.6	+17 45	"	"	"	+8.1	22 12	23 08	4	2 04 W +
11617	201900	19.4	+30 49	"	"	"	+8.1	23 10	23 56	1	1 45 W +
11618	276700	26.1	+33 02	"	"	"M	+8.1	23 58	0 42	2	2 25 W +
11619	14688	02 17.1	+16 25	"	"	"	+8.2	0 46	1 30	3	1 2 W +

Strong SE wind.

256

Focus set 23.67

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 2	1 21 W	+27 53	0	6.51 B5	3-3-3	Light clouds at start, clearing fine
22 3	2 16 W	+16 26	0-1	7.34 F7	3-3-3	very good
1 57 4	1 38 W	+45 02	0	6.68 A2	3-3-3	Light clouds. fine
20 5	0 56 W	+28 07	0-1	6.85 A5	3-3-3	Setting 3 fine
					7 ^s /5 ^s	" 8
2 35 2	1 45 W	+47 00	0-1	7.52 K0	3-3-3	very good
23 13	1 39 W	+46 54	0	6.42 A0	3-3-3	very good
23 11 4	2 04 W	+18 02	0-0	7.00 A8	3-3-3	Image becoming very large & unsteady. Good
21 51	1 45 W	+31 06	0	6.78 B9	3-3-3	seeing improving a bit. fine
2 5 2	2 25 W	+33 17	0-1	7.08 K0	3-3-3	Light clouds. fine
3 3	1 21 W	+11 38	1	6.78 A15	3-3-3	Increasing clouds. Star frequently above zone. fine

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Date Wed Oct 31 - Nov 1, 1945 Ad Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour End	Angle Dec
11622	HD 193349	20 14.7	-14 04	I-25	E 1032-0	008	+9.1	17 47	18 27	2	10 32 +
11623	HD 199140	20 50.1	+28 08	"	"	"	+9.1	18 30	18 52	3	10 22 +
11624	HD 208174	21 09.4	+27 53	"	"	"	+9.1	18 55	19 35	4	10 06 +
11625	HD 209205	21 56.5	+31 03	"	"	"	+9.1	19 ⁴⁷ 38	20 57	1	1 21 -
11626	HD 221114	23 24.1	+15 28	"	"	"	+9.0	21 00	21 50	2	10 46 +
	Focus.										outside
	Thursday	1945	Nov 1-2	N.				cloudy - light			

Left focus at 23.67.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 27	W 0 32	+ 14 12	0	6.81 A05	3,3,3
18 52	W 0 22	+ 28 21	0	6.20 B25	3,3,3
19 35	W 0 06	+ 28 07	0	6.85 A5	3,3,3
20 57	W 1 21	+ 31 ¹⁹ / ₅	0	7.47 B9 _n	3,3,3 set on wrong star at first.
21 50	W 0 46	+ 15 44	0	7.04 A2	3,3,3
	outside this base			10-7	Suddenly thick at 2200. Breaking at 2300 but thick again at 2320.

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Date Saturday Nov 3-4 1945 D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
11630	HD 181144	19 14.2	+16 19		103a-0	slit 1008	+07.2	17 40	18 44	02	-
11631	HD 196133	20 30.3	+44 50				+06.9	19 19	19 47		
11632	HD 208835	21 53.9	+46 23				+06.8	19 50	20 54		
11633	HD 215242	22 38.7	+46 38				+07.0	20 58	21 14		
11634	HD 224801	23 55.7	+44 42				+07.1	21 14	21 34		
11635	HD 225093	23 58.3	+72 36				+07.0	21 41	22 31		76
11636	HD 5638	00 53.0	+46 31				+06.9	22 36	22 54		3
11637	HD 5862	01 22.3	+43 32				+07.0	23 02	23 23		
	Focus Test	outside this class									
11638	HD 14688	02 17.1	+16 25				+06.8	23 37	00 07		
11639	HD 16814	02 27.5	+14 36				+06.8	00 11	00 37		93

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus Set 23.67	REMARKS
	2 ^h 02 ^m W	+16 25	0	7.34 F ₇	3-3-3		Hazy
	1 ^h 49 ^m W	+45 02	1-	6.68 A ₂	3-3-3		Trouble with RA fast motion - set screw in clock loose Fixed by De Hogg
	1 ^h 33 ^m W	+46 39	1	7.37 B ₈	3-3-3		Clouds 20 05 for 10 min
	1 ^h 05 ^m W	+46 55	1+	6.42 A ₅	3-3-3		
	0 ^h 16 ^m W	+45 00	1+	6.25 A _{6p}	3-3-3		
	1 ^h 06 ^m W	+72 55	1+	7.58 A ₂	3-3-3		
	0 ^h 37 ^m W	+46 47	1	6.47 B ₂	3-3-3		
	0 ^h 26 ^m W	+43 48	1+	6.54 B ₉	3-3-3		
					10-8		
	0 ^h 22 ^m W	+16 40	0	6.78 A ₅	3-3-3		
	0 ^h 43 ^m W	+14 49	0	6.57 F ₈	3-3-3		
							6+3 plates in dome

Partly cloudy much of day. clouds at sunset.

Focus set 23.73

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
8 34 4	0 40 W	+45 02	0-1	6.68 A2	3-3-3	a few light clouds. fine												
4 2 1	2 00 W	+46 58	0-1	6.90 A4	3-3-3	Light clouds. Filter in? fine												
5 2 2	1 41 W	+44 12	0-1	6.69 B8	3-3-3	Light clouds fine												
2 3 3	1 26 W	+28 07	0-1	6.85 A5	3-3-3	[Plateholder hard to get out] fine												
2 3 4	1 58 W	+49 06	0-1	7.55 K1	3-3-3	fine												
					8 ³ / ₆	West filling in solid.												
11 37	0 45 W	+31 07	1	6.78 B9	3-3-3	fine												
11 4 2	0 35 E	+16 39	0-1	6.78 A15	3-3-3	fine												
11 3 7	0 47 W	-03 12	0-1	6.77 M	3-3-3	Clouds shortly after start (23 ¹⁵ - 23 ³⁰); 0 ²⁴ thick												
						1 + 12 plates in drawer												
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>-71.8</td> <td>+01.7</td> <td>-16.8^S</td> <td>-0.47^N</td> </tr> <tr> <td></td> <td></td> <td colspan="2">(adv 1 min)</td> </tr> </table>	MC	SC	MTW	STW	-71.8	+01.7	-16.8 ^S	-0.47 ^N			(adv 1 min)	
MC	SC	MTW	STW															
-71.8	+01.7	-16.8 ^S	-0.47 ^N															
		(adv 1 min)																

Clear all day. Clouding over just before dark.
 Clouds breaking away 21³⁰ - slowly. 270

Focus set 23.65

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23	1 36 W	+33 18	0-1	7.08 K0	3-3-3	Improving transparency.
23 23	-	+16 39	1	6.78 A13	3-3	Filling in rapidly from NW 23 ³³ Thick by 23 ⁴⁵
						Trouble with dome turning - everything on wet on ground floor. - pipes wet and observing floor - rest dry.
						2-12 plates - 1
						Reset from clocks. Approx. corrections: MTW -01 ^s , STW -0.1 ^m

Date Saturday November 10-11/45 No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
11659	HD. 196133	20 30.3	+44 59	1-25"	E-103-D	^{slit} .008	+04.7°C	20 52	21 48	3	4 19 W +4
11660	209813	22 01.0	+46 45	"	"	"	4.6	21 54	23 00	4	4 04 W +4
11661	213389	22 27.8	+48 51	"	"	"	4.4	23 04	00 28	5	5 03 W +4
11662	27483	04 15.2	+13 38	"	"	"	4.6	00 35	01 11	7	7 04 E +3
	Focus tank - outside three base 7 ^s -6 ^s										
11663	36 484	05 26.9	+32 44	"	"	"	4.5	01 18	02 04	8	8 22 W +3
11664	47395	06 33.3	+28 21	"	"	"	4.6	02 07	02 29	9	9 15 W +2
	Sunday, Nov. 11-12, 1945 H - Clouds with rain										
	Tuesday Nov. 13-14 Hd cloudy										
	Thu. 1945 Nov. 15-16 Clear most of day; cloudy at										
	Fri Nov 16-17 Hd cloudy with rain.										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
							Focus set 23.71±
2:11	4 18 W	+45 01	0-1	6.68	A ₂	3-3-3	
2:20	4 00 W	+47 00	1-2	7.52	K ₀	3-3-3	R.A. clamp worked by hand!
2:23	5 03 W	+49 06	1	7.55	K ₁	3-3-3	" " " " "
2:41	0 04 E	+13 46	1	6.56	F ₁	3-3-3	R.A. clamp O.K.
2:41	0 23 E	+32 48	1-0	6.56	A ₂	3-3-3	H.O. 36506 south + east in finder
2:42	1 04 E	+28 19	1	5.80	B ₇	3-3-3	
							2+12 plates in dome
							No. - mostly clear
							sunset. Some breaks ~ 23.30

Cloudy at sunset - breaking intermittently
 Set MTW and STW to clocks without corrections

Set focus 23.68

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
20 03	E 0 23	45 00	0	6.25 A0/p	3,3,3															
20 02	W 2 16)*	49 05	0	7.55 K1	3,3,3 Some clouds 2040 - 2055. * Thick at 2105 - call end then															
				Nov. 19	<table border="0"> <tr> <td></td> <td>MCs</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td></td> <td>-69.8</td> <td>-02.2</td> <td>-08.8</td> <td>-0.2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>reset</td> <td></td> </tr> </table>		MCs	SC	MTW	STW		-69.8	-02.2	-08.8	-0.2				reset	
	MCs	SC	MTW	STW																
	-69.8	-02.2	-08.8	-0.2																
			reset																	

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Date Tuesday Nov 20-21 Hd - N Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	P4
11667	AD 213389	22 25.9	+48 51	I-25	E1034-0	008	0.0	1908	20 30	3
11668	224801	23 55.7	+44 42	"	"	"	+0.2	20 35	21 11	4
11669	5638	00 53.0	+46 31	"	"	"	+0.2	21 16	22 00	1
11670	10588	01 38.2	+31 43	"	"	"	+0.2	22 05	23 09	2
11671	15814	02 27.5	+14 36	"	"	"	+0.2	23 13	23 53	3
} focus test		outside through base								

Hour Angle
End

1420 -

1440 -

1450 -

1460 -

1470 -

Clouds at sunset.

276

Focus set 23.77.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3:00	1 42 W	49 06	0	7.55 K1	3, 3, 3	
3:04	1 44 W	+44 59	0	6.25 Aop	3-3-3	hazy sun, fairly clear over sun
3:08	0 45 W	+46 47	0	6.47 B2	3-3-3	" "
3:12	1 10 W	+31 56	0	7.20 G5	3-3-3	" "
3:16	1 04 W	+14 48	0	6.57 F8	3-3-3	" " halo and corona around sun
					7-6	
						very uncertain of exposures.
						3+ 4 plates in dome heat on mirror

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Date Friday Nov 23-24 1945 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Decl.
11676	HD 222207	23 33.5	+41 57	I-25	E103a-0	^{cut} 008	-17.27	19 39	20 48 ²⁵ 2	1) 041	42
11677	HD 224801	23 55.7	+44 42	"	"	"	-18.28	20 29	20 53 3	2) 048	4
11678	HD 3264	00 30.7	+48 00	"	"	"	-18.28	20 58	21 50 4	3) 110	4
11679	HD 15814	02 27.5	+14 36	"	"	"	-2.7	21 57	22 23 1	4) 014	14
11680	HD 15138	02 21.2	+50 07	"	"	"	-2.8	22 29	23 16 2	5) 045	5
	Focus cut										
	Saturday Nov. 24-25 / 45 No										
	Light snow clearing early evening (9:30 P.M.) Clearing somewhat 11-12, but only three magnitudes visible when thickening circumsolar clouds.										
	Sky still very poor 12:50.										

Hour Angle
End

Decl.

1) 041 42

2) 048 4

3) 110 4

4) 014 14

5) 045 5

outside

Set focus at 23.77

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Partly cloudy at sunset, clear at 18.45 opened up, sky clouded over again, repaired rheostat on finder, sky clearing
21 12	0 21 W	46 47	1	6.47 B2	3, 3, 3
21 55	0 35 W	43 47	1	6.54 B9	3, 3, 3 <i>fringe</i>
22 39	1 04 W	31 57	1-2	7.20 G5	3, 3, 3
23 54	0 40 W	14 50	1-2	6.57 F8	3, 3, 3
					10, 7 <i>Light clouds.</i>
					Stopped clock, shut off heat, took a nap, sky quite cloudy but 5.30, not able to get Miss Northcott's Binary.
					Nov. 28 MC +66° SC -08° MTW +10° STW 0.0

Date Friday, Nov. 30 - Dec. 1, 1945 H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dist
11685	HD 196138	20 30.3	+44 50	I-25	E-1030-0	set 008	-0.9	17 78	17 54	3	30
11686	209813	22 01.0	+46 45	"	"	"	-0.9	17 56	18 56	4	40
11687	210334	22 04.6	+45 15	"	"	"	-0.9	18 58	19 33	1	52
11688	222207	23 33.5	+41 57	"	"	"	-0.9	19 41	20 17	2	52
11689	2019 00	19.4	+30 49	"	"	"	-1.0	20 20	20 54	3	52
11690	2767 00	26.1	+33 02	"	"	"	-0.9	20 56	21 30	4	52
11691	0 Cti	02 14.3	-03 26	"	"	"	-1.0	21 37	22 37	1	24
	} For run test		outside the box								
11692	HD 27483	04 15.2	+13 38	"	"	"	-1.0	22 43	23 09	2	19
11693	23626	03 41.5	+31 54	"	"	"	-1.0	23 12	23 36	3	17
11694	23838	03 43.1	+44 40	"	"	"	-1.0	23 39	0 03	4	19
11695	29104	04 29.8	+19 41	"	"	"	-1.0	0 08	0 22	4	19
	0 Cti	19451	02 16.7	-03 13							

Focus out 23.78

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 5-	1 48 W	+45 01	0	6.68 A2 3-3-3	a few light clouds.
19 12	1 14 W	+47 01	0-1	7.52 K0 3-3-3	
19 17	1 52 W	+45 31	0-1	7.10 G5 3-3-3	
20 05	1 22 W	+42 14	0-1	6.77 B9 3-3-3	Light scattered clouds.
20 54	0 53 W	+31 06	1	6.78 B9 3-3-3	
21 01	1 23 W	+33 18	1-2	7.08 K0 3-3-3	Light clouds.
21 07	0 42 W	-03 12	0-1	5 ¹⁻⁶ _{2.00} M 3-3-3	Trouble with dome turning
					Sky falling in front after first few minutes of this exposure. Star barely visible end of exposure.
21 09	0 48 E	+13 48	1-2	6.56 F4 3-3-3	Clearing.
21 14	0 12 W	+32 04	1-2	6.65 F6 3-3-3	
21 15	0 39 W	+44 51	1-2	6.57 G0 3-3-3	
21 20	0 33 W	+19 48	1-2	7.06 F8 3-3-3	
					3 plates in dome.

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Date Friday, December 7-8, 1945 H Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dist
11712	HD 210 334	22 04.6	+45 15	I-25	E-103a-0	^{set} 008	+3.4	17 14	17 44	2	2.5 H +4
11713	213 389	22 25.9	+48 51	"	"	"	+3.4	17 47	18 37	3	2.5 H +4
11714	208 606	21 52.3	+61 04	"	"	"	+3.4	18 41	19 13	4	2.5 H -
11715	22111 4	23 24.1	+15 28	"	"	"	+3.5	19 17	19 59	1	2.5 H -
11716	276 7	00 26.1	+33 02	"	"	"	+3.4	20 01	20 31	2	2.5 H -
11717	2453	00 23.2	+31 53	"	"	"	+3.5	20 34	21 14	3	2.5 H -
	Focus test - outside the box										
11718	o Ceti	02 14.3	-03 13	"	"	"					
hd	Sat Dec 8-9	Gradually thickening from sunset on. Then reasonably clear at 2000, but, on preparing to open, found water dripping off shutters. Decided against									

SW wind; piers wet, mirrors OK.

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Frames set 23.73:

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
7:43	0 26 W	+45 30	1-2	7.10 G0	3-3-3	Light haze fine
7:47	0 58 W	+49 07	1-2	7.55 K1	3-3-3	Thicker haze - clearing fine
8:13	2 07 W	+61 19	1-2	7.30 K0	3-3-3	good
1:51	1 21 W	+15 45	1	7.04 A2	3-3-3	Haze fine
2:24	0 50 W	+33 19	1	7.08 K0	3-3-3	fine
2:50	1 37 W	+32 09	1	6.71 A0s	3-3-3	Heavy haze most of exposure; star frequently invisible. center very slightly to west?
					9 ^s /7 ^s	
						At 21 ³⁵ sky cleared fairly well. Set on mirror, but star vanished just before exposure was to start. Sky completely filled in!!!
						4 + 24 1/2 hrs in dome
						ME SC MTW STW Dec. 10 -58.9 -16.4 +02.8 +0.1 reset

but
water
again

Focus set at 23.85

Ending Time R.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 15 3	2 51 W	45.02	0	6.68 A ₂	3-3-3
19 06 4	0 38 W	42.14	0	6.77 B ₉	3-3-3
20 12 1	0 47 W	48.18	0+	7.14 B ₂	3-3-3
21 19 2	0 46 W	31.58	0	7.20 G ₅	3-3-3 Light clouds
22 07 3	0 35 W	43.21	0+	6.72 A ₂	3-3-3
					10-7
22 56 4	0 20 W	32.04	0	6.65 F ₆	3-3-3 Light clouds, more clouds Sky filling in.

cloudy most of day. When clouds do - 302
 amount? Gradually clearing at last.
 strong NW wind? From set 23.81

Ending Time
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
2 15 W	+45 31	0	7.10 G0 3-3-3	Light clouds Exp 2x table.										
1 47 W	+42 14	0	6.77 B9 3-3-3	Clouds delayed start. Increasing wind making it hard to hold stars in field. Clouded over towards end, and wind increased so much that, on moving down to south, to close up, wind would carry some faint tying places before I could tie it up. Wind hurled two bunches of agassizae, apparently from upper platform, to main floor. Light snow later, should never have formed up in first place.										
				<div style="text-align: right;"> <table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Dec. 17</td> <td>-54.2</td> <td>-24.8</td> <td>+23.8</td> <td>+0.4</td> </tr> </table> </div>		MC	SC	MTW	STW	Dec. 17	-54.2	-24.8	+23.8	+0.4
	MC	SC	MTW	STW										
Dec. 17	-54.2	-24.8	+23.8	+0.4										

304

Ending Time
E.S.T.

305

