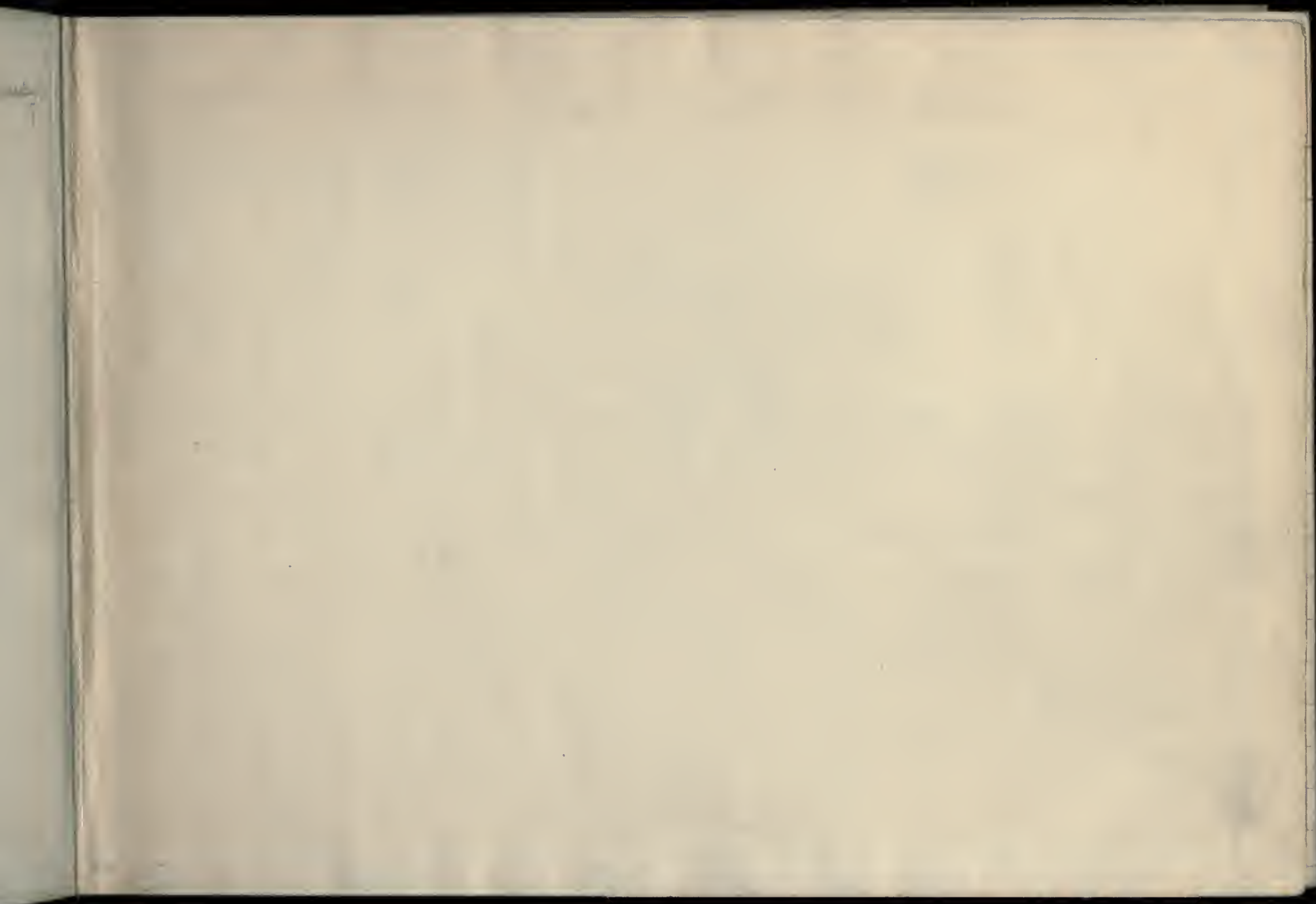
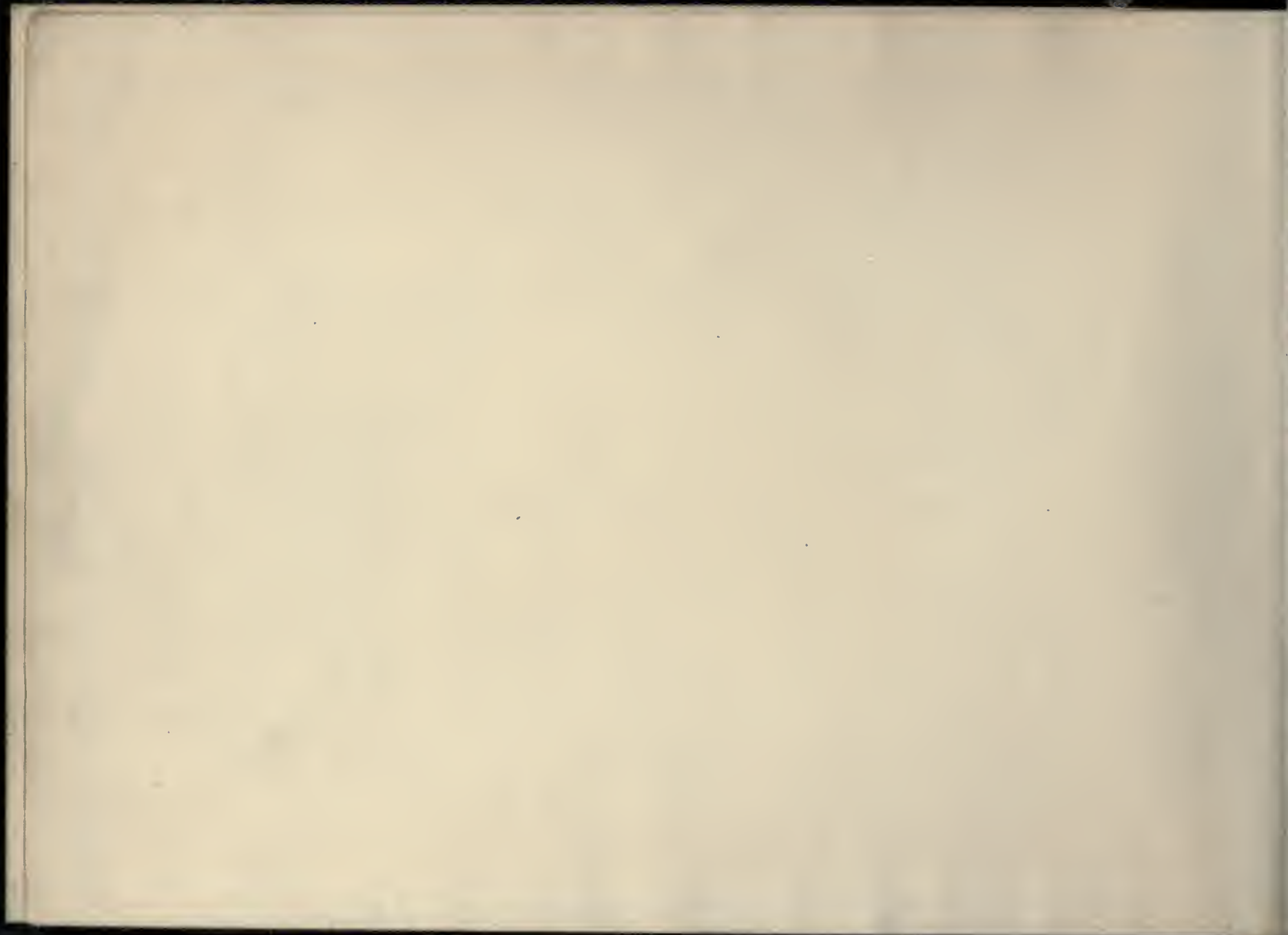


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Focus - Centre to Violet, shorten the focus (increase micrometer reading)





Hour Angle  
End

D





2.

Date Monday, 9 Nov 7-8 1938 L-W 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
15405	H.D. 198313	20 44.4	28 26	I-122	E-103a0	Set 008	+10.0	18 02	18 55 3	11 W
15406	" 207319	21 43.4	29 16	"	"	"	+10.0	19 00	19 34 5	4 W
15407	" 215956	22 43.8	28 12	"	"	"	+10.0	19 40	20 12 4	W
15408	HD 217351 <del>AS 15621</del>	55.0 22 53	32 29 33	"	"	"	+9.9	20 16	20 58 9	W
15409	H.D. 223054	23 41.5	28 09	"	"	"	+9.9	21 04	21 32 1	40
15410	" 2315	00 21.9	25 02	"	"	"	+9.9	21 36	22 08 1	21
15411	" 3385	00 52.5	28 59	"	"	"	+9.9	22 13	22 37 1	4
15412	" 10981	01 42.8	30 17	"	"	"	+9.9	22 41	23 21 3	W
15413	" 12232	01 55.0	25 27	"	"	"	+9.9	23 25	00 01 3	W
15414	" 18554	02 35.9	36 12	"	"	"	+9.9	00 05	00 45 3	W
15415	" 24201	03 46.9	26 22	"	"	"	+9.9	00 50	01 24 4	29 W
15416	" 26710	04 08.4	26 00	"	"	"	+9.9	01 27	01 45 4	W
15417	" 32211	04 29.6	28 30	"	"	"	+9.9	01 48	02 14 1	W
15418	" 32963	05 01.8	26 12	"	"	"	+10.0	02 17	02 51 1	03 W
15419	" 39919	05 50.8	27 18	"	"	"	+10.0	02 54	03 38 2	17 W
15420	" 45441	06 31.0	25 03	"	"	"	+9.9	03 41	05 01 2	12 W

Nov 3 MC SC  
+077. +416

11-4-1

STU  
+10°2  
+08°4

STU  
+0.0  
0.0

3.

Wind had stopped, L.

Ring Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
00:56	101 N	28 37	0	8.65 G5	1-1-1	AG. 25 } 2.5 Seeing poor !!
01:04	0 40 W	29 28	0	8.51 K0	1-1-1	" " } 7.5 Seeing better
01:12	0 17 W	28 27	0-1	8.54 G0	1-1-1	" " } 2.5
01:20	0 52 W	29 47	0	<del>8.4</del> <sup>8.4</sup> A2 8.72 G5	1-1-1	" " } 7.5
01:32	0 40 W	28 24	0-1	8.30 K2	1-1-1	" " } 2.5
01:40	0 35 W	25 17	0-1	8.51 K0	1-1-1	" " } 7.5
01:57	0 34 W	29 14	0-1	8.22 K0	1-1-1	" " } 2.5
02:04	0 27 W	30 30	0-1	8.72 G5	1-1-1	" " } 7.5
02:11	0 55 W	29 41	0-1	8.65 G0	1-1-1	" " } 2.5
02:19	0 41 W	30 24	0-1	8.60 G5	1-2-1	" " } 7.5
02:27	0 27 W	26 31	0-1	8.11 G0	1-2-1	" " } 2.5
02:35	0 26 W	26 07	0-1	7.83 G5	1-2-1	" " } 7.5
02:43	0 24 W	28 34	0-1	8.26 G5	1-2-1	" " } 2.5
02:51	0 39 W	26 16	0-1	8.50 G5	1-2-1	" " } 7.5
03:00	0 37 W	27 19	0-1	8.61 G5	1-2-1	" " } 2.5
03:08	1 20 W	28 01	0-1	8.90 G5	1-2-1	" " } 7.5





ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
5:35	0 22W	25 42'	0-1	8.54 K21-2-1	A. G. 25 } 2.5
6:11	0 32W	28 37'	0-1	8.53 G51-2-1	} 7.5
6:31	0 19W	25 11	0-1	7.99 K. 1-2-1	} 2.5
4	O.T.B.			6/4	} 7.5
					3 P.H. + 4

6

Date 27 Nov 48

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
15424	HD 207770	21 49.1	+28° 15'	T 1028	103AD	0.0001	9.40	1854	1930	1
15425	AG 13568	22 07.7	+25 09	"	"	"	9.00	1935	2015	2
15426	46 9763	22 46.5	+27 13	"	"	"	9.90	2153	2235	3
			9 30	T 1028						



Don't know if it's +17

Jan 12. 1970

7

ing Time  
I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
31 <sup>m</sup> W	28 28	1	8 <sup>m</sup> .79 KO 1-2-1 AG 25	Hazy															
31 <sup>m</sup> W	25 19	0-1	8 <sup>m</sup> .77 KO 1-2-1 "	Group / Visitor arrived. 11:45 AM															
43 <sup>m</sup> W	27 32	0-1	8 <sup>m</sup> .62 65 1-2- "	Variable Haze, Haze Shaking															
CTR			1/4		5 8														
4 FH contd.																			
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Nov. 10</td> <td>+06.2</td> <td>+58.3</td> <td>+01.0</td> <td>-0.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2">(adv. 1 min)</td> </tr> </table>						MC	SC	MTW	STW	Nov. 10	+06.2	+58.3	+01.0	-0.4				(adv. 1 min)	
	MC	SC	MTW	STW															
Nov. 10	+06.2	+58.3	+01.0	-0.4															
			(adv. 1 min)																

8

Date 10/11 Nov 23 Ba/W.

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
15427	HD 220529	23 20.6	25° 27	12"	103 HD	208 <sup>50</sup>	+ 6.8	2024	2059 3	40° W
15428	AL 431	00 08.3	26° 30	"	"	"	+ 6.5	2105	2135 8	27° W
15429	HD 3746	00 35.3	29 28	"	"	"	+ 6.0	2141	2217 4	42° W
15430	HD 9269	01 26.1	30 06	"	"	"	5.9	2222	2242 1	26° W
15431	HD 11680	01 49.5	26 47	"	"	"	5.3	2258	2328	37° W
15432	AL 1429	02 30.9	27 01	"	"	"	5.1	2332	2400	34° W
15433	HD 19079	02 59.1	29 48	"	"	"	5.0	00 07	00 17	149° W
15434	" 24728	03 51.2	25 00	"	"	"	5.0	00 50	01 10	120° W
15435	" 26126	04 03.0	28 24	"	"	"	5.0	01 14	01 44 1	146° W
15436	" 30945	04 46.8	26 37	"	"	"	5.0	01 47	02 15 1	119° W
15437	" 33822	05 00.9	26 52	"	"	"	5.0	02 02	02 30 2	100° W
15438	" 38261	05 39.4	25 01	"	"	"	5.0	02 32	02 58 2	120° W
15439	" 41708	06 01.7	27 27	"	"	"	5.0	03 01	03 39 5	109° W
15440	A.G. 5401	06 36.0	29 32	"	"	"	5.1	03 42	04 14 2	119° W
15441	H.D. 57470	07 16.3	30 01	"	"	"	5.1	04 17	04 29 4	014° W



138  
 + 35 0000  
 +

Form 12970

9

ing Time  
L.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

2033

40<sup>m</sup> W

+25 55

1

8<sup>m</sup>.77 KO

2.5

1-2-1

AE-25

Not circled, W. P.D.

2135

27<sup>m</sup> W

26 47

1-2

8<sup>m</sup>.79 KO

7.5

1-2-1

"

50 w. b. for front W. P.D. circle

2271

42<sup>m</sup> W

29 45

1-2

8<sup>m</sup>.91 EO

2.5

1-2-1

"

2521

26<sup>m</sup> W

30 23

1-2

8<sup>m</sup>.96 KO

7.5

1-2-1

"

2321

39<sup>m</sup> W

27 01

2-3

8<sup>m</sup>.98 G5

2.5

1-2-1

"

Thursday Nov. 11-12 1948

240

34<sup>m</sup> W

27 15

2-3

8<sup>m</sup>.96 G5

7.5

1-2-1

"

Considerable error

247-

0 49 W

30 00

2

8.75 G5

1-2-1

A.G. 25

2.5

cloud - midnight &

110

0 30 W

25 07

2

8.41 G5

1-2-1

" "

7.5

for some time, front

141

0 12 W

28 30

2

8.70 G5

1-2-1

" "

3

haze till 0500;

215

0 19 W

26 41

2-3

8.44 K2

1-2-1

" "

8

closed up beautifully

230

0 30 W

26 56

2-3

8.51 AG

1-2-1

" "

3

then closed about 0600

252

0 20 W

25 05

2-3

8.58 K2

1-2-1

" "

8

no comet again! W.

2339

0 39 W

27 26

2-3

8.58 G5

1-2-1

" "

3

field sketch (not drawn)

44

0 39 W

27 27

2-3

8.86 G5

1-2-1

" "

8

2429

0 14 W

29 55

2-3

8.89 K2

1-2-1

" "

8

power out 4:30 AM

Please close up!



O'cast at sunset; started to clear  
 abt 1915. 11.

FOCUS: 12.970

ing Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS				
121	0 <sup>w</sup> 53	+26 <sup>o</sup> 05	0	8.84 K5	1-1-1	2.5	AG 25	Lost abt 4 m of exp. time near 2050 due to passing cloud.	
+6)				8.62 G5	1-	7.5	"	Clouds, more and more frequent. << 1/2 time later	

Nov. 15      ME      SC<sup>3</sup>      MTW      STW<sup>m</sup>  
 +07:30      +1:09.8      -0:10      -0:15

Tuesday Nov 16/17. Overcast; showers - Wuv



12

Date Wed. Nov. 17-18/48 L.V.

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
15444	11D. 210783	22 07.7	24 59	I-12 $\frac{1}{2}$	E-103a-0	set 008	+6.9	18 49	19 17 2	31 W
15445	" 215944	22 43.7	27 36	"	"	"	+6.9	19 22	19 48 2	32 W
15446	" 218880	23 06.4	29 31	"	"	"	+6.8	19 53	20 03 3	25 W
15447	" 220285	23 17.5	25 22	"	"	"	+6.8	20 07	20 21 3	31 W
15448	" 224085	23 49.9	28 06	"	"	"	+6.7	20 25	20 41 4	19 W
15449	" 1406	00 13.1	29 49	"	"	"	+6.8	20 44	21 02 4	17 W
15450	" 3333	00 31.2	29 18	"	"	"	+6.7	21 06	21 28 1	25 W
15451	" 6274	00 58.6	26 03	"	"	"	+6.7	21 32	22 02 1	32 W
15452	" 10829	01 41.0	30 19	"	"	"	+6.7	22 07	22 27 0	4 W
15453	AG. 977	01 42.0	27 59	"	"	"	+6.6	22 32	22 54 2	40 W
15454 <sub>A</sub>	11D. 17396	02 42.3	29 56	"	"	"	+6.6	22 59	23 09 3	
15454	H.D. 24505	03 45.8	27 54	"	"	"	+6.6	00 25	00 57 3	36 W
	30427	04 29	26 50	"	"	"				
15455	32447	04 32.2	30 14	"	"	"	7.1?	01 13	02 05 4	15 W
15456	38750	05 11	28 36	"	"	"	7.1	02 02	02 40 2	25 W

Clouds at sunset, clearing shortly after.

Nov 12. 270

ng Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
17 8	0 37 W	25 15	1-2	8.75 K <sub>0</sub>	1-1-1	A.G. 25 } set 2.5
4 2	0 32 W	27 51	1-2	8.62 G <sub>0</sub>	1-1-1	" " } " 7.5
0 03 5	0 25 W	29 46	1-2	7.77 K <sub>0</sub>	1-1-1	" " } " 2.5
0 21 5	0 31 W	25 38	1-2	7.99 K <sub>2</sub>	1-1-1	" " } " 7.5
0 41 4	0 19 W	28 21	1-2	8.12 K <sub>0</sub>	1-1-1	" " } " 2.5
1 02 4	0 17 W	30 06	1-2	8.23 K <sub>0</sub>	1-1-1	" " } " 7.5
1 23 1	0 25 W	29 34	1-2	8.44 G <sub>5</sub>	1-1-1	" " } " 2.5
2 02 1	0 32 W	26 17	1-2	8.77 G <sub>0</sub>	1-1-1	" " } " 7.5
2 27	0 14 W	30 33	1-2	8.30 G <sub>0</sub>	1-1-1	" " } " 2.5
2 52	0 40 W	28 14	1-2	8.40 G <sub>5</sub>	1-1-1	" " } " 7.5
2 55		30 07	1-2	8.65 G <sub>5</sub>	1-	" " } " 2.5 <i>Partial cloud, dusky sky</i>
00 57 0	0 36 W	28 02	1-2	8.77 G <sub>5</sub>	1-2-1	" " } " 7.5 <i>Partial cloud, dusky sky</i>
				8.58 G <sub>0</sub>		" " } " 2.5 <i>SET 2.5</i>
2 05	0 35 W	30 19	1-2	8.96 K <sub>7</sub>	1-2-1	" " } " 2.5
2 42	0 25 W	25 38	2	8.91 K <sub>0</sub>	1-2-1	" " } " 7.5

14

Date Wed. Nov. 17-18/48 ✓ ✓ ..... 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
15457	H.D. 43581	06 11.9	26 28	I-12 1/2	E 10320	.008	+6.9	07.44		1
				Focus Test						



ing Time  
L.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

~~26 28~~

O T B

8.90 K21-

~~6/4~~Huge clouds, near total cloudiness <sup>comp WK exp find</sup>~~3~~ P.H. + 5

	MC	DC	MTW	STW
Nov. 22	+09.2	+1 <sup>m</sup> 18 <sup>s</sup> 0	+11.2	-0.3





Don't say 4  
Focus 12.970

17

ing Time  
I.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

7

14<sup>m</sup> W

26 33

2-3

8<sup>m</sup>.69 KO

1-2-7 Hazy. In early evening, cloud clearing → 40 minutes  
AG 25 Set 2.5

OTB

64 Heavy Cloud. Set 7.5

3 Pkt Loaded

3 Plates & Box

Nov 25/26. Overcast, or  $\frac{9}{10}$  cloudy. - W

Nov. 26 MC +10.2 SC +1 22.0

MTW +07.0 STW -0.3

18

Date *Set Nov 27/28, 1948 Wm - L* 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
15459	HD 11781	01 50.5	+26 59	I-12	E103a-0	SET 00B	+5.7	21 49	22 43 2	"00
15460	HD 21451	03 22.4	+25 56	"	"	"	+5.0 (!)	22 48	23 32 2	"17
15461	HD 24365	03 47.5	+27 50	"	"	"	+5.1	23 36	00 10 3	"30 W
15462	" 26081	04 02.6	25 38	"	"	"	+5.1	00 15	00 45 3	"50 W
15463	" 33585	05 06.2	26 21	"	"	"	+5.0	00 52	01 12 7	"4 W
	<i>Grass Test</i>					<i>O.T.L.</i>				

After a couple of tries, really 19  
 began to clear at ~ 20 00. Showed  
 8 Lac to ~ 25 teachers, while  
 weather cleared.

ing Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS						
1 <sup>m</sup> 00	+27° 12'	0-1	8.68 G0	1-1-1	Set 2½	AG 25 Considerable cloud						
0 <sup>m</sup> 17	+26° 06'	1-0	8.65 K0	1-1-1	Set 7½	AG 25 " " "						
0 30 W	28 00	1	8.74 G5	1-1-1	Set 2½	AG 25 " "						
0 50 W	25 44	1	8.56 K0	1-1-1	" 7.5	" " some clouds.						
0 14 W	26 24	1	8.11 G5	1-1-1	" 2.5	" " sky filling in						
				6/4	" 7.5	" " while settling on						
next star. Waited, closed up at 3 00 still stuck!												
				Nov. 29	MC +11.9	<table border="0"> <tr> <td>MTW</td> <td>STW</td> </tr> <tr> <td>-00.6</td> <td>-0.4</td> </tr> <tr> <td colspan="2">rest</td> </tr> </table>	MTW	STW	-00.6	-0.4	rest	
MTW	STW											
-00.6	-0.4											
rest												



20

Date Wednesday Dec. 1-2/48 W. 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
15464	H.D. 33585	05 06.2	26 21	I 12 1/2	E. 103.0	0.008	+2.0	00 47	01 03	1
15465	" 38524	05 41.4	25 31	"	"	"	2.9	01 08	01 20	2
15466	" 40280	05 52.7	25 46	"	"	"	2.5	01 24	01 38	3
15467	" 41994	06 03.2	27 13	"	"	"	2.5	01 41	02 46	4
15468	AG 5828	07 07.6	28 44	"	"	"	2.1	02 46	03 42	1
	H.D. 68784									2
15468F	Focus Test									

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
03	0 20 W	26 24	1-2	8 11 G5	1-2-1	discarded, spoiled in development
120	0 08 W	25 33	1-2	7.85 K <sub>0</sub>	1-2-1	strong
138	0 08 W	25 47	2	7.85 K <sub>0</sub>	1-2-1	strong
24	1 01 W	27 13	2	8.89 K <sub>0</sub>	1-2-1	clouds
34	0 58 W	25 39	2	8.91 G <sub>0</sub>	1-2-1	(number hard to read) I went
2	<del>OTB</del>				*	
	O.T.B.				6/4	(on separate plate)

22

Date Thurs, Dec 2/3, 1948 Wm. - VI Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	How Angle End
15 463	HD 14 256	02 15 0	123 04	I-12	L 10300	SIT CCB	+2.0	22 11	23 01	3
15 470	HD 21 820	03 25 0	+25 12	"	"	"	+2.0	23 06	23 55	4
15 471	HD 30 467	04 12 0	+26 50	"	"	"	2.5	23 50	01 13	1
15 472	" 40 460	05 53.8	27 17	"	"	"	2.2	01 19	01 43	2
15 473	" 44 060	06 14.4	28 39	"	"	"	2.5	01 46	02 28	3
15 474	" 52 765	06 37.4	29 14	"	"	"	2.2	02 32	03 05	4
15 475	" 61 645	07 35.2	26 08	"	"	"	3.0	03 12	04 01	1
15 476	" 73 509	08 30.7	25 51	"	"	"	2.6	04 14	04 58	2
15 477	" 83 324	09 31.0	24 51	"	"	"	2.2	05 03	06 09	3
		<i>Shows East</i>								



CIRCUITS TO SUNSET, OVERCAST, +2000 23

Graded, clean, 10 rev. per min, 1/2 inch, which is very thin at 1000 ft.

HAD TROUBLE W. RUBBER COUPLING ON DRIVING SHAFT MOTOR, REPAIR EFFECTED WITH DAGLOW WIRE

12:37

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3:11	1 <sup>w</sup> 13	+29 17'	0-	8.56 GO 1-1-1	AG 25 Considerable haze & dim
3:54	0 <sup>w</sup> 57	+29 22	0-	8.78 KO 1-1-1	AG 25 " " "
4:13	0 58 W	26 55	0-1	8.53 GO 1-2-1	AG 25 " " "
4:33	0 16 W	27 16	2	8.02 K <sub>0</sub> 1-2-1	" " "
4:53	0 41 W	25 37	2	8.82 K <sub>5</sub> 1-2-1	" " "
5:12	0 35 W	25 10	3	8.86 K <sub>0</sub> 1-2-1	" " "
5:40	0 09 W	25 01	2-3	8.97 K <sub>2</sub> 1-2-1	" " "
6:11	0 53 W	28 11	2-3	8.83 G <sub>0</sub> 1-2-1	" " "
6:42	1 06 W	24 36	1-2?	8.97 G <sub>0</sub> 1-2-1	Seeing was good but transparency of the film was poor
	UTB			6/4	" " "
					4 P.H. + 20

24

Date Friday, December 3-9/48 Hd-L 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
15478	A.G. 2603	05 35.5	29 13	I-12½	E-100-0	set 008	+4.9	00 33	01 19	1
15479	H.D. 41430	06 00.0	29 06	"	"	"	+4.9	01 25	01 47	2
15480	" 45336	06 21.7	29 19	"	"	"	+4.9	01 56	02 26	3
15481	A.G. 3682	06 55.3	26 22	"	"	"	+5.2 ?	02 32	03 02	4
15482	" 4044	07 28.2	28 57	"	"	"	+5.2	03 06	03 36	1
15483	H.D. 70688	08 18.2	29 04	"	"	"	+5.2	03 40	04 14	2
15484	" 77444	08 57.4	27 37	"	"	"	+5.1	04 19	04 53	3
15485	" 83341	09 32.6	25 48	"	"	"	+5.0	05 02	05 36	4
15486	" 88416	10 06.6	27 36	"	"	"	+5.0	05 41	06 15	1
	<i>Faded text</i>									

D.T.B.



Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Found mirror dived over. Applied heat and it cleared up around 00 20
01 19 1	0 15W	29 14	1	8.70 G <sub>0</sub>	1-1-1 A.G. 25 Stage
01 47 2	0 19W	29 06	1-2	8.58 K <sub>2</sub>	1-1-1 " "
02 26 3	0 36W	29 17	1-2	8.84 K <sub>5</sub>	1-1-1 " "
03 02 4	0 39W	26 18	1-2	8.82 G <sub>5</sub>	1-1-1 " "
03 36	0 40W	28 51	1-2	8.86 G <sub>0</sub>	1-1-1 " "
04 14 2	0 27W	28 55	1-2	8.95 G <sub>0</sub>	1-1-1 " "
04 53	0 28W	27 24	1-2	8.93 K <sub>2</sub>	1-1-1 " "
05 44	0 36W	25 36	1-2	8.91 G <sub>5</sub>	1-1-1 " "
06 5	0 41W	27 21	1-2	8.96 K <sub>0</sub>	1-1-1 " "

6/4

Heat on mirror

Date Sept 4-5 Dec 40 B

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
15957	HD 21227	22 <del>18.1</del>	30' <del>20</del> <sup>15</sup>	T. 12 $\frac{1}{2}$	103A0	.00 <sup>5</sup>	+2.2	17 57	19 21	2
15958	HD 21240	23 24.3	26 23	"	"	"	+2.3	18 38	19 12	?
15959	AD 14212	23 35.0	40 11	"	"	"	3.0	19 17	20 03	4
15970	HD 2132	00 25.7	29 21	"	"	"	7.7	19 59	20 15	1
15991	HD 5917	00 55.6	28 29	"	"	"	7.9	20 33	21 15	1
15972	HD 11130	01 47.3	29 15	"	"	"	7.9	21 21	21 59	1
	FRANKLIN							21 59		

Trans. 12970  
 Dec. Trip 43

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Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	48° W	30 30	0-1	8.62 K2	1-2-1 AG25 <sup>number illegible</sup> used lot of pins <i>poorly guided</i>
	43° W	25 39	1	8.83 K0	1-2-1 " Considerable interaction <i>focus</i>
	49° W	30 28	1-2	8.93 G0	1-2-1 " " " <i>focus</i>
	35° W	29 15	1-2	8.77 K0	1-2-1 " <i>number illegible</i> " " <i>focus</i>
1:15	49° W	28 45	1	8.88 G5	1-2-1 " " <i>poorly guided</i> " " <i>focus</i>
2:00	26° W	21 13	0	8.54 G5	1-2 Very Hazy. Strong light <i>focus on</i>
					$\frac{1}{4}$ Heat on Mirror 2PA loaded.
					Sec. 6 $\overbrace{\begin{matrix} MC & SC \\ +17.6 & +1^{m} 22.6 \end{matrix}} \begin{matrix} MTW \\ +05.4 \\ STW \\ -04 \end{matrix}$



Date Mar 6-7 1942 W

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
15493	HD 3651	00 49.2	25 12	L 12 <sup>1</sup>	"	"	3.5	20 55	21 45	0 1 W
15494	HD 3791	01 21.6	24 51	"	"	"	3.4	20 51	21 31	
15495	HD 13565	02 08.3	24 06	"	"	"	3.3	21 08	21 52	2 W
15496	HD 17190	02 49.4	25 18	"	"	"	3.2	21 54	22 31	2 W
15497	HD 18129	02 47.6	27 11	"	"	"	3.2	22 25	22 49	3 W
15498	HD 22267	03 30.0	27 11	"	"	"	3.2	22 57	23 23	3 W
15499	HD 22126	04 03.0	28 29	"	"	"	3.1	23 21	23 51	0 4 W
15500	32833-60500.9	26 52		"	"	"	3.1	00 14	00 58	0 4 W
15501	35524-0541.4	25 31		"	"	"	3.1	01 02	01 22	3 0 24 W
15502	43353	06 10.8	25 31	"	"	"	3.1	01 25	02 11	0 3 W
15503	53472	04 00.1	25 01	"	"	"	3.1	02 15	02 51	0 3 4 W
15504	62567	07 39.5	26 14	"	"	"	3.1	02 54	04 04	2 0 W
	7686	08 53.8	25 00	"	"	"				
	<i>Focus Test</i>									

Done Page 23  
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29

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	54° W	26 20	0-	8.89 G5 1-2-1	AGZ5 <span style="float:right">wks</span>
10		25 10	0-1	8.70 K0 1-2-1	" <span style="float:right">very good, fair</span>
12	22° W	25 20	0-1	8.30 G0 1-2-1	" <span style="float:right">very good</span>
2 1	25° W	25 28	0-1	8.27 K0 1-2-1	"
2 10	34° W	27 23	0-1	8.22 K0 1-2-1	"
2 20	36° W	27 24	0	8.19 K0 1-2-1	"
	0 49 W	28 22	0-	8.70 G0 1-2-1	"
0 51	0 43 W	26 56	0-1	8.51 A-G 1-2-1	" Windy
0 1 25	0 24 W	25 32	0	7.85 K0 1-2-1	"
0 2 11	0 13 W	25 30	0	8.77 G0 1-2-1	"
0 3 51	0 34 W	24 56	0	8.29 K2 1-2-1	"
0 4 04	1 08 W	26 07	0-1	8.56 K0 1-2-1	" wind down; haze gathering
				<del>8.74 K0</del>	wind up again; too hazy & windy to carry on.
	O. T. B.			6/4	Tues. Feb. 29 - cloudy to overcast. 60-70% precip.
					3 P.H. + 4.

30

Date Wed 8-9 Dec 92 ..... 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
15504	HD 216331	22 47.0	29 30	E122	103A 0	"	1.9	1757	1827	3" W
15505	HD 220478	22 37.9	25 58	"	"	"	1.1	1835	1903	2" W
15506	HD 223322	22 43.6	27 47	"	"	"	"	1907	1933	3" W
ERROR IN PLATE #										



ading Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

4:55  
30<sup>m</sup> W

29 48

1

8.64 KO 1-2-1

AG 25

(plate numbered same as preceding plate)

9:03  
21<sup>m</sup> W

26 15

1

8.63 GS 1-2-1

"

number hard to read

11:20  
39<sup>m</sup> W

26 06

1-2

8.70 KO 1-2-1

"

Clouding Over film





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp	REMARKS
8 5 2	0 21 W	29 10	2	8.49 G <sub>0</sub>	1-1-1	A.G. 25 strong
8 5 3	0 45 W	28 21	2	8.48 K <sub>2</sub>	1-1-1	" " strong
4 11 1	0 33 W	25 29	2	8.89 G <sub>0</sub>	1-1-1	" " strong stargone at 19.30
19 30 2	0 22 W	26 11	2	8.49 K <sub>0</sub>	1-1-1	" " 8 mins of clear sky then checking
20 16 3	0 30 W	27 15	2	8.89 K <sub>2</sub>	1-1-1	" " Clearing again. good
21 11 4	0 21 W	29 18	2	8.65 K <sub>0</sub>	1-1-1	" " seeding fine
21 13 5	0 27 W	27 27	2	8.72 K <sub>0</sub>	1-1-1	" " 15 mins of fairly clear sky then clouds: worse than
					6/4	
						Focus - centre to sub.

34

UB plate was  
sent to  
this calculator.

Date *Fri Dec 10/11, 1948* *Wm-V*

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
15 515	HD 2732	00 <sup>h</sup> 25.7	+29° 01'	I-12	E103-D	S&T 008	0.0	19 <sup>h</sup> 31 <sup>m</sup>	20 13	1 30 <sup>m</sup> 46
15 516	HD 9984	01 32.4	+25 24	"	"	"	0.0	20 13	21 00	2 0 <sup>m</sup> 25
15 517	HD 13610	02 07.7	+24 55	"	"	"	0.0	21 05	21 45	3 0 <sup>m</sup> 36
15 518	HD 13189	02 50.2	+25 41	"	"	"	0.0	21 50	22 29	4 0 <sup>m</sup> 43
15 519	HD 24399	03 47.8	+26 26	"	"	"	-0.3	22 46	23 22	1 3 <sup>m</sup> 20
15 520	HD 31781	04 53.5	+26 06	"	"	"	-0.2	23 27	24 25	2 3 <sup>m</sup> 11
15 521	" 38574	05 11.4	25 31	"	"	"	0.0	00 29	01 07	5 3 <sup>m</sup> 05 <sup>m</sup>
15 522	" 49749	05 50.8	27 18	"	"	"	0.0	00 50	01 31	4 0 <sup>m</sup> 46 <sup>m</sup>
15 523	" 47536	06 35.5	27 11	"	"	"	0.0	01 42	02 24	1 3 <sup>m</sup> 04 <sup>m</sup>
15 524	" 67625	08 03.8	29 24	"	"	"	0.0	02 53	03 34	2 3 <sup>m</sup> 01 <sup>m</sup>
<i>See list</i>										

Dome Temp. @ +15

23°

July from 12.960

Set Focus 12.960

Cloudy at sunset. 35  
Began to clear at ~ 18:30

Had considerable trouble getting stable bridge setting; pointers seemed to be making satisfactory contact, but pointer oscillated by ~20 small div. T ~ 5°. Finally (3 or 4 m) became stable.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20:13	0 <sup>w</sup> 46	+29 15	0	8.77 K0 1-1-1	AG 25
21:00	0 <sup>n</sup> 26	+25 38	0+	8.96 K0 1-1-1	AG 25 Thin Cloud ~ 21:00 - fairly constant haze
21:53	0 <sup>w</sup> 36	+25 09	0+	8.84 G0 1-1-1	AG 25
22:28	0 <sup>w</sup> 43	+25 53	0	8.82 G5 1-1-1	AG 25 More haze
23:12	0 <sup>n</sup> 33	+26 45	0+	8.77 G5 1-1-1	AG 25
00:25	0 30W	+26 10	0+	8.91 G5 1-1-1	AG 25 still more haze
01:03	0 05W	25 31	1	7.85 K0 1-2-1	AG 25
01:21	0 46W	27 19	2	8.61 G5 1-2-1	AG 25
01:41	1 15W	27 07	1-2	8.22 K0 1-2-1	" " " " " "
02:00	1 12W	29 15	2	8.63 K0 1-2-1	" " " " " "
	0 T D			1/4	

2 P.H. + +?

H. on in.





clouds & haze at sunset - still some haze. 37

Bridge balance seemed ok. but temp rose a bit  
in 1st half-hour.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
000 3	W 1 17	61 55	1	8.2 B3e 1,1,1	Set 9 - wrong * at first. haze
028 4	W 1 32	55 18	1	7.6 B1e 1,1,1	"
012 2	W 0 28	59 29	1	8.2 B3e 1,1,1	" + <u>clouds</u>

Sunday Dec. 12-13/48 0 1:00

Piers & telescope dripping badly,  
water running <sup>under</sup> dome door. I  
very strong wind blowing, some  
haze & clouds; decided not to open.

heat on; mirrors dry! N.





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 17 2	1 30 W	24 56	0	8.26 G5	1-2-1	A.G. 25 too strong
2 5 3	1 07 W	25 31	0	8.65 Mo	1-2-1	some clouds strong
3 4 4	1 11 W	24 58	0	5.84 G5	1-2-1	" " strong
5 12	1 21 W	27 44	0	8.89 G5	1-2-1	" " clouds v poorly guided
6 18	1 05 W	21 52	0	8.79 G5	1-2-1	" " strong
6 55	0 35 W	22 03	0	5.61 K0	1-2-1	" " weak
		O.T.B.			6/4	

1 P.H. + 12

Part on wire



12900

12900

41

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

30° W

30 09

0-1

8.42 KO

1-2-1

AG 25

fine

36° W

26 45

0-1

8.50 KO

1-2-1

"

partly veiled

22 16

1-2

8.51 KO

1-

"

too much; some

31° W

30 1

0-1

8.41 ES

1-2-1

"

part

42° W

30 22

0

8.51 ES

1-2-1

"

Hazy

Circle missing ve rapidly

45° W

28 33

0-1

8.51 KO

1-2-1

"

part

54° W

27 29

0

8.48 ES

1-2-1

"

part

50° W

28 34

0-1

8.47 KO

1-2-1

plate not numbered

fine

37° W

30 14

1-2-1

8.49 KO

1-2-1

partly veiled

27° W

31 13

1

8.42 KO

1-2-1

fine

0025

28 12

0/1

8.44 KZ

1-2-

fine

clouds, clouds, more clouds, bearing current

C.T.B.

0/1

from center of field

1 P.H. + 1/4 in mirror, plate, pilot  
light seen, but in summary, the



\* had night's numbers wrong. This makes them right again.  
42

Date Fri Dec 17-18, 1948 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
15545 *	HD 224882	23 56.4	30 11	I-12	E103aO	008	-2.0	18 41	19 15 4	
Sun Dec 19-20 Hd										
Clearing ~ 2000-2100. Clouds ~ 2200. Decided to try dome opening anyway (snow today). Opened reasonably well but much trouble closing (couldn't get pin back in clutch lever after trying to shift to hand control) Broke my key trying to lock gallery door (key now in lock)										

ain.

43

ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

7 54

30 26

0

8.40 G<sub>0</sub>

1-1-1

Clouds

Dec. 20

MC  
+33.6

SC  
+1<sup>m</sup> 08.7

MTW STW  
+05.6 -0.1  
(adv. 1 min.)

Tues Dec 21/22 '48 Solid overcast early; some breaks  
~2200

ly  
Tst)  
in lock)

Date Thurs Dec 23/24, 1948

Wm - L

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
15545	HD 3714	0132.0	+27 46	I-12	E103a-0	<sup>SET</sup> 003	-2.0	1953	2037	1 15
15547	HD 13139	0250.2	+25 41	"	"	"	-2.0	2105	2209	2 10
15543	HD 24365	0347.5	+27 50	"	"	"	-2.3	2215	2315	3 10
15549	HD 39416	0547.4	+25 03	"	"	"	-2.1	2323	0023	4 20
	Focus Test				O.T.B.					
at	Dec 25-26	Clear and very cold.		Observing cancelled because of temp. N.						
Sun	Dec 26-27	Cloudy at first, clearing briefly, then thick again. Made up at 2200.								



Variable clouds, clearing  
after sunrise. some clouds  
still on horizon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21	1 <sup>m</sup> 15	+28 01	0!	8.88 G5	1-1-1	AG25 2035 clouds clearing 2100 went away
22.0	1 <sup>w</sup> 09	+25.55	0!	8.82 G5	1-2-1	"
23.5	1 <sup>m</sup> 19	+23 00	0!	8.74 G5	1-2-1	"
24	0 30 W	25 04	0	8.75 G5	1-2-1 6/4	" haze - light clouds star gone!

4 plate holders loaded.  
2 plates in one box and 12 in second  
Heat on mirror

	MC	SC	MTW	STW
Jan. 3	+09 <sup>m</sup> 30 <sup>s</sup> .7	+44 <sup>s</sup> .2	- 11 <sup>s</sup> .8	+0 <sup>m</sup> .1
			reset	

46

Date *Apr. 3-4/49 L.V.* 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
15550	HD. 5164	00 48.4	28 02	I-12 $\frac{1}{2}$	E-1200	set 0.028	-2.0	18 18	19 02	1
15551	" 11650	01 49.2	27 20	"	"	"	-2.0	19 25	20 09	2
15552	" 17396	02 42.5	29 56	"	"	"	-2.0	20 15	21 05	3
15553	" 24301	03 46.9	26 22	"	"	"	-2.1	21 10	21 52	4
15554	" 30111	04 39.6	28 30	"	"	"	-2.0	21 57	22 59	1
15555	" 33463	05 05.3	29 48	"	"	"	-2.1	22 34	23 10	2
15556	" 44391	06 16.5	28 02	"	"	"	-2.1	23 15	23 59	3
15557	" 45427	06 22.2	27 42	"	"	"	-2.1	20 03	* gone 22 58	4
	Focus Test									







Cloudy after sunset, then broken & cloudy again 49

Jan 12. 1960

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 43 1	W 1 41	29 54	1	8.82 G0	1-1-1 * looks faint (vis mag 9.0 in list) <span style="color:red">faint</span>
22 24 2	W 1 23	44 46	1	7.8 B32e	1-1-1 <sup>Be prog</sup> finding bad at first - differential gears stopping
23 08 3	W 0 26	-5 39	1	8.2 B52e	1-1-1 Be prog. set R (wrong * set first)
"	W 2 38	46 07	1	8.6 B62e	1-1-1 Be prog. went diff. gear stopping repeatedly
5 1	1 02 W	- 0 15	1	8.3 B(5)2e	1-1-1 " " " " " "
6 1	0 54 W	- 1 28	1	8.1 B(5)2e	1-1-1 " " " " " "
		C.T.B.			6/4
					H. ON M. & P.H. LEAVED TO PLATES
					Check drive needs immediate attention.
					B + H examined clock work; both sticking, fresh with oil.
					Tues, Jan 11/12 - Overcast, clearing 2200-2300 Wm.

50

FRI  
Date Jan 14/15, 1949

Wm W.

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
15564	HD 10236	01 35.6	+27 58	T-12	E103a-0	<sup>SET</sup> 008	-2.0	18 07	19 11	1 0 <sup>m</sup> 17
15565	HD 14 479	02 15.2	+30 14	"	"	"	-2.1	19 18	20 25	2 1 <sup>m</sup> 24
15566	HD 23 169	03 37.9	+25 25	"	"	"	-2.2	20 28	21 35	3 1 <sup>m</sup> 10
15567	HD 33 713	05 43.2	+29 09	"	"	"	-2.2	21 40	22 44	4 0 <sup>m</sup> 02
15568	HD 41 994	06 03.2	+27 13	"	"	"	-2.3	22 41	23 45	1 0 <sup>m</sup> 59
15569	HD 48 008	06 36.2	+25 28	"	"	"	-2.1	23 51	00 59	1 40 <sup>m</sup>
15570 ✓	71 132	08 20.6	+25 23	"	"	"	-2.2	01 53	02 33	2 1 <sup>m</sup> 14
15571 ✓	86 590	09 54.4	+25 08	"	"	"	-2.2	02 35	03 24	2 4 <sup>m</sup> 11
15572	95 064	11 35.5	+24 57	"	"	"	-2.1	03 33	04 20	1 47 <sup>m</sup>
<i>Focus Test</i>										
								Sat, Jan 22/23	Sold at cost Wm	
								Tues, Jan 25/26	"	



FOCUS 12.960

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS		
0 <sup>m</sup> 47	+28°13'	0!	8.85 KO 1-1-1	AG25	A FEW CLOUDS IN EAST, slowly moving away weak		
1 <sup>m</sup> 24	+30°26'	0	8.89 G5 1-1-1	AG25	fine		
1 <sup>m</sup> 10	-25°35'	0	8.84 G0 1-1-1	AG25	A FEW very faint		
0 <sup>m</sup> 02	+29°09'	0	8.57 G5 1-1-1	AG25	strong		
0 <sup>m</sup> 59	+27°12'	0	8.89 KO 1-1-1	AG25	to strong		
1:10 W	25 25	0	8.93 G0 1-2-1	AG25	fine		
1:30 W	28 12	0	8.92 KO 1-2-1	light clouds from SW 0150-0230	strong		
0:54 W	24 45	0	8.40 G5 1-2-1	" "	low		
0:53 W	24 20	0	8.22 G5 1-2-1	no low cloud clearing from E. light cloud	low with 2 miles weak		
	0 T.13.			1/4 - Set. 2	collected		
				S.P.H. 1 +			
				H. OX M.			
				MG	SC	MTW	STW
				Jan 17 +24.0	+29.1	-01.0	0.0
				Tues, Jan 18-19 '49. Solid overcast, drizzle. Wm		1.5 ft	
				1.5 ft	+0.4	-01.5	+0.1



Jan. 26 MC +08.2 SC +23.5 MTW +03.0 STW +0<sup>m</sup>

Clear about 1830. Dome turning frozen. H + Hd freed with alcohol under wheels. O'cast with snow 2000 - 2230. Opening at 2300. had difficulty with differential gears in ~~the~~ drive dragging. billed.

Focus 12.960

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS		
2	1 <sup>w</sup> 01	+26 16	0	8.62 K0	1-1-1	AG 25	some cloud <span style="color:red">fine</span>
2.2	1 <sup>w</sup> 08	+26 34	0	8.96 G5	1-1-1	AG 25	" " <span style="color:red">fine</span>
				8.96 K0	1-	AG 25	*zone 0300 - Solid o'cast <span style="color:red">T. fast</span>
					H on M	-	Need plates in dome.



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1949

Date *Sun Jan 30/51 B.V.*

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
15576	<del>HD 14747</del>	<del>02 115</del>	<del>27 13</del>	<del>E 122</del>	<del>E103A-0</del>	<del>.028<sup>50</sup></del>	<del>-8.2</del>	<del>1213</del>	<del>1318</del>	1
15576	HD 21710	04 08A	26 00	"	"	"	-8.0	1958	2016	1 7 <sup>m</sup> W
15577	HD 32163	05 01B	26 12	"	"	"	-8.0	2021	2051	2 9 <sup>m</sup> W
15578	HD 372	05 361	29 49	"	"	"	-7.9	2123	2157	3 21 W
15579	HD 41456	06 00.2	26 32	"	"	"	-7.7	2145	2217	4 3 W
15580	HL 47836	06 355	27 11	"	"	"	-8.0	2222	2245	1 3 <sup>m</sup> W
15581	HD 56418	07 11.8	26 31	"	"	"	-8.0	2251	2315	2 7 <sup>m</sup> W
15582	HD 65934	07 56.1	26 55	"	"	"	-8.0	2330	2400	3 7 <sup>m</sup> W
15583	HD 71008	08 200	2850	"	"	"	-8.2	0009	0105	4 1.05 W
15584	H.D. 82531	09 26.2	27 16	"	"	"	-8.2	0110	0230	1 1.24 W
15585	" 95978	09 59.3	29 44	"	"	"	-8.2	0234	0400	2 1.22 W
<i>Focus Test</i>										





Date Tues Feb 1-2 1949 Hd. L 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
15586	H D 42454	06 05.7	29 31	I-12	E103.0	008	-5.3	21 27	22 16 1	W 038
15587	H D 50209	06 47.1	-0 10	"	"	"	-5.3	22 20	22 58 2	W 039
15588	HD 52721	06 37.2	-11 09	"	"	"		23 03	23 09 3	W 040
15589	4D 65079	07 51.9	+03 14	"	"	"	-5.4	23 15	23 37 5	W 014
15590	HD 68724	08 08.6	27 01	"	"	"	-5.3	23 42	00 36 1	0 55 W
15591	" 86801	09 55.8	29 02	"	"	"	-5.3	00 44	01 34 2	0 07 W
15592	" 95364	10 55.5	24 37	"	"	"	-5.4	01 38	02 28 3	0 02 W
15593	" 104392	11 56.2	24 47	"	"	"	-5.3	02 33	03 23 4	0 04 E
15594	AG 6249	12 43.4	25 41	"	"	"	-5.3	03 28	04 28 1	0 14 W
15595	H.D. 121184	13 48.8	24 40	"	"	"	-5.3	04 33	05 27 2	0 07 W
15596	" 133922	15 02.0	26 49	"	"	"	-5.3	05 32	06 36 3	0 04 W
	From Star				O.T.B.					



cloudy spells becoming less frequent by 2100

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set focus 12.950  
dome temp +22

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 16.1	W 0 38	29 29	0	8.68 G5	1-1-1 Some clouds. <span style="color:red">lit up</span>
22 58.2	W 0 39	-0 15	0	8.3 B(5)ne	1-1-1 M.W.C. 159 * <span style="color:red">lit up</span>
23 04.1	W 0 40	-11 14	0	6.6 B3e	1-2 " 164 Hard to judge guiding
23 37	W 0 14	<del>3</del> 05	0	7.7 B3ne	1-1-1 " 188 * with a strong wind <span style="color:red">lit up</span>
00 36.1	O 55 W	26 56	0	8.96 G5	1-1-1 AG.25 Strong wind <span style="color:red">lit up</span>
01 34.2	O 07 W	28 48	0	8.93 G0	1-1-1 " " " <span style="color:red">lit up</span>
02 21.3	O 02 W	24 20	0	8.82 G5	1-1-1 " " " <span style="color:red">lit up</span>
07 22.4	O 04 E	24 30	0	8.92 K0	1-1-1 " " " <span style="color:red">lit up</span>
04 25.1	O 14 W	25 25	0	8.99 K2	1-1-1 " " " increasing! <span style="color:red">lit up</span>
05 11.2	O 07 W	24 25	0	8.96 K0	1-1-1 " " " <span style="color:red">lit up</span>
00 33.3	O 04 W	26 58	0	8.92 K2	1-1-1 " wind subsiding, some clouds. <span style="color:red">lit up</span>
					6/4 with white clouds.
					1 plate holder loaded 4 plates in there
					Heat on mirror
					* Cannot read plate nos.; book read 15589

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1949

Date W 1 10 23 P.M.

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
15517	HD 17352	02 422	26 40	"	102A-C	"	-5.5	1820	1846	37° W
15518	HD 20471	03 146	28 27	"	"	"	-5.5	1849	1935	5° W
15599	HD 25081	04 026	25 35	"	"	"	-5.5	1939	2004	3° W
15600	HD 41430	06 000	29 06	"	"	"	-5.5	2016	2046	53° E
15601	HD 40460	05 038	27 17	"	"	"	-5.5	2050	2108	14° E
15602	HD 40220	05 52.7	25 46	"	"	"	-5.5	2113	2127	1° W
15603	HD 41994	06 02	27 12	"	"	"	-5.5	2132	2103	
	Emulsion				OTR					

Per. Temp 10-10 59  
 Feels 12.950

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
194.4	37 <sup>m</sup> W	26 53	0	8.33 KO 1-2-1	AG 25
194.5	51 <sup>m</sup> W	28 38	0	8.89 GO 1-2-1	"
194.6	33 <sup>m</sup> W	25 46	0-1	8.56 KO 1-2-1	"
194.7	43 <sup>m</sup> E	29 08	0-1	8.58 K2 1-2-1	"
194.8	14 <sup>m</sup> E	27 17	0-1	8.02 KO 1-2-1	"
194.9	6 <sup>m</sup> W	25 47	0-1	7.85 KO 1-2-1	" Clouds
195.0		27 13	0-1	8.81 <del>GO</del> 1-2-1 Ko	" Closing Up. Very H. * from <sup>used</sup> <del>well</del>
					6/4
					1 P4 loaded 1 Plate in the box
					Thurs, Feb 3/4 Snow! Wm



Date *Sat., Feb 5/6, 1949* *Wm. W.* 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
15 604	HD 24 505	03 48.8	+27 54	T-12	E102-D	<sup>SET</sup> 00B	-2.3	18 35	19 25	1 0 <sup>m</sup> 19
15 605	HD 25 461	03 57.6	+28 56	"	"	"	-2.4	19 30	20 20	2 1 <sup>m</sup> 06
15 606	AG 2603	05 35.5	+29 13	"	"	"	-2.5	20 27	21 15	3 0 <sup>m</sup> 33
15 607	HD 45 824	06 24.6	+26 43	"	"	"	-2.6	21 32	22 32	4 0 <sup>m</sup> 51
15 608	HD 60235	07 28.4	+28 44	"	"	"	-2.7	22 33	23 30	1 0 <sup>m</sup> 45
15 609	HD 70 178	08 15.5	+29 07	"	"	"	-2.5	23 35	00 27	2 0 <sup>m</sup> 00
15 610	50 819	09 16.9	26 12	"	"	"	-2.4	00 31	02 11	3 13 <sup>m</sup> 00
15 611	96 393	11 01.6	26 17	"	"	"	-2.6	02 15	03 30	4 1 <sup>m</sup> 15
15 612	108 805	12 25.0	26 41	"	"	"	-2.6	03 35	04 23	1 0 <sup>m</sup> 48

*Focus Test*

Focus 12.948 3117

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
09 25	0 <sup>w</sup> 19	+28 01	0	8.77 G5	1-1-1	AG 25
10 20	1 <sup>w</sup> 06	+29 03	0	8.75 K0	1-1-1	AG 25
11 25	0 <sup>w</sup> 33	+29 14	0	8.70 G0	1-1-1	AG 25 Some haze & cloud
12 22	0 <sup>w</sup> 51	+26 41	0	8.72 K0	1-1-1	AG 25 " " " "
13 30	0 <sup>w</sup> 45	+28 36	0	8.60 K2	1-1-1	AG 25
14 27	0 56 <sup>w</sup>	28 56	0	8.65 G5	1-2-1	AG 25
15 11	1 39 <sup>w</sup>	25 57	0	8.85 G5	1-2-1	AG 25 HAZE THICKENING
16 33	1 14 <sup>w</sup>	25 59	0	8.79 G5	1-2-1	AG 25 "
17 33	0 45 <sup>w</sup>	26 24	0	8.79 G5	1-2-1	AG 25 " "
	O. T. B.				6/4	
						4 P.M. + 8
						H. 21 M





Down Temp. 24 - 15 63  
 Force 12.9448

ending Time  
 E.S.T.

Hour Angle  
 End

Declination

Seeing

Ptg. Mag.

REMARKS

11:0

35<sup>m</sup> W

2' 45

0

8.84

G5

1-2-1

AG 25

arc gap

fine

1:29

28<sup>m</sup> W

25 09

0

8.41

G5

1-2-1

"

good

1:53

48<sup>m</sup> W

28 00

0

8.01

G5

1-2-1

"

arc gap needs to be closed a bit

fine

2:24

47<sup>m</sup> E

27 27

1

3.58

G0

1-2-1

"

fine

2:51

2<sup>m</sup> W

25 17

1

9.3

K2

1-2-1

"

Four vic stars from Dr. Williams

fine

2:59

38<sup>m</sup> W

25 30

1-0

8.77

G0

1-2-1

"

fine

3:06

1<sup>m</sup> 04<sup>m</sup> W

25 18

1-0

9.4

G0

1-2-1

"

fine

High Cirrus Cloud

1 PH loaded

3 plates in the







Date *Wed. Feb. 9/10, 1949* Wm - W. 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
<del>HD 43 581</del>	<del></del>	<del>06 11.9</del>	<del>+26 28</del>	<del>I-12</del>	<del>E103a-O</del>	<del>SCF 008</del>		<del>2023</del>		
15621	H. D. 87804	10 02.4	27 16	I-12	E103a-O	008	-0.2	00 59	02 17	2 15w
15622	99947	11 24.8	25 27	"	"	"	+0.5	02 22	03 26	3 101w
15623	104463	12 29.8	24 47	"	"	"	+0.5	03 29	04 35	4 106w
15624	119748	13 40.0	29 29	"	"	"	+0.5	04 38	05 30	1 051w
15625	131509	14 48.9	28 55	"	"	"	+0.5	05 34	06 08	2 021w
	<i>Focus Test</i>									

Cloudy at sunset; gradually  
clearing from ~1900

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Focus: 12.943

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				8.90 K21-1	AG25 About 2° from <del>l</del> Cloudsw 20 90
02 17	1 15 W	+27 04	0	8.82 K01-2-1	A.G. 25
03 26	1 01 W	25 09	0	8.72 K01-2-1	" "
07 35	1 06 W	24 30	0-	8.86 K21-2-1	" "
05 20 + 9 min	0 51 W	27 12	0-1	8.81 G51-2-1	" HAZE
06 01	0 21 W	28 42	0-1	8.79 G51-2-1	" HAZE INCREASING
	O.T.B.			6/4	
				2 P.M. + 32	
				H. ON M.	
				Feb. 14	MC +10.8 SC +05.0 MTW -0.2 STW -0.1
				Tues. Feb 15/16	- Overcast to cloudy; Wm.







1949  
 Date Fri Feb 18/19 P.M. V.

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
15629	HD 29768	03 51.2	25 00	"	103 AD	CR 2-B	+5	18 44	19 13	2
15630	41708	06 01.7	27 27	"	"	"	+5	19 20	20 02	3
15631	42454	05 05.7	29 31	"	"	"	+6	20 07	20 51	4
15632	AG 4044	07 28.2	28 57	"	"	"	+6.5	20 57	21 43	
15633	HD 6986	08 13.9	27 11	"	"	"	+6.6	21 43	22 22	2
15634	70688	08 18.2	29 04	"	"	"	+6.4	22 25	23 13	3
15635	75 <sup>9</sup> /35	08 47.9	27 18	"	"	"	+6.4	23 19	00 03	5
15636	81058	09 18.3	26 20	"	"	"	6.4	00 05	00 37	1
15637	90442	10 21.4	27 10	"	"	"	6.4	00 40	01 26	2
15638	96234	11 00.7	24 45	"	"	"	6.3	01 30	02 18	3
15639	105964	12 06.6	26 17	"	"	"	6.0	02 21	03 21	4
15640	114636	13 06.7	26 54	"	"	"	6.0	03 23	04 15	7
15641	123877	14 05.1	26 18	"	"	"	6.0	04 18	05 12	2
15642	136231	15 14.4	26 09	"	"	"	6.0	05 16	* gone 06 04	3
		Focus Test								



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1:15	1 <sup>h</sup> 01 <sup>m</sup> W	25 29	0-	8.41 G5	1-2-1 P-25 Air. Wind. Tel. ...
2:00	33 <sup>m</sup> E	27 27	0	8.58 G0	1-2-1 "
2:45	17 <sup>m</sup> W	27 51	0	8.68 G5	1-2-1 "
3:43	45 <sup>m</sup> E	28 51	0	8.86 G0	1-2-1 " thrown away. <u>no</u> ...
4:22	27 <sup>m</sup> E	27 02	0	8.45 K0	1-2-
5:00	30 <sup>m</sup> W	28 55	0-1	8.95 G0	1-2-1 "
5:33	50 <sup>m</sup> E	27 07	0-1	8.97 K0	1-2-1 "
00:17	0 54 <sup>m</sup> W	26 08	1	8.02 K0	1-2-1 " poor guiding
01:44	0 40 <sup>m</sup> W	26 55	1	8.86 G5	1-2-1 " <u>no comp.</u> (1 min)
02:18	0 53 <sup>m</sup> W	24 30	1	8.91 G5	1-2-1 " comp. ... (8 min)
03:22	0 50 <sup>m</sup> W	26 01	1	8.93 G0	1-2-1 " comp. ... (1 min)
04:05	0 45 <sup>m</sup> W	26 39	1	8.96 K0	1-2-1 " comp. ... (1 min)
05:16	0 44 <sup>m</sup> W	26 04	1	8.92 K5	1-3-1 " hot ...
*9 min 06:04	0 26 <sup>m</sup> W	25 57	1	8.96 G0	1-2-1 " Haze & cloud ...
	O. T. B.				6/4
					1 P.H. + 16



Date Sun Feb 20-21/49 Hd-IV. 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
15643	MW 114 HD 37115	5 31.0	-5 41	I-12	E103aD	008	-0.9	19 29	20 53	4 W 05
15644	AG 2606	5 35.6	+26 13	"	"	"	-1.1	20 03	21 03	1 W 109
15645	MW 159 HD 50507	6 47.1	-0 10	"	"	"	-1.0	21 07	21 41	2 W 039
15646	MW 164 HD 52721	6 57.2	-11 07	"	"	"	-1.0	21 46	21 54	3 W 41
15647	MW 189 HD 65079	7 51.9	+3 14	"	"	"	-1.1	22 01	22 17	4 W 09
15648	MW 189 HD 65176	7 52.4	-1 20	"	"	"	-1.1	22 29 <del>22 23</del>	22 57	1 W 47
15649	HD 73509	8 32.7	+28 51	"	"	"	-1.0	23 01	23 41	2 W 50
15650	HD 80919	9 16.9	26 12	"	"	"	-1.1	23 47	00 29	4 0.55 W
15651	89415	10 14.1	29 51	"	"	"	-1.1	00 34	01 28	1 0.67 W
15652	99594	11 22.4	26 59	"	"	"	-1.1	01 32	02 31	2 0.57 W
15653	107725	12 17.6	27 09	"	"	"	-1.1	02 40	03 36	3 1.02 W
	<i>Focus Test</i>									

5.25 = NE

Some Cu clouds at first.

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
05 13	W 05	-5 41	0	8.2 B5ne	1-1-1 Be prog.															
06 11	W 109	+26 14	0	8.3 <sup>7</sup> M <sub>0</sub>	1-1-1															
07 12	W 037	-0 15	0	8.3 B(s)ne	1-1-1															
08 13	W 091	-11 15	0	6.6 B3ne	3															
09 17	W 09	+3 05	1	7.7 B3ne	1-1-1															
10 57	W 47	-1 29	1	8.1 B(s)ne	<del>1-1-1</del> Wrong * on set 5; right one on set 9.															
11 11	W 50	-28 40	1	8.83 G <sub>0</sub>	1-1-1															
12 24	0 55W	25 59	1	8.85 G <sub>5</sub>	1-1-1															
01 22	0 57W	29 37	1	8.98 G <sub>0</sub>	1-2-1															
02 22	0 57W	25 11	1	8.95 K <sub>2</sub>	1-2-1 clouds															
03 22	1 02W	26 54	1	8.93 K <sub>2</sub>	1-2-1 more clouds becoming overcast															
					closed 0430															
					4 P.H. + <del>1/2</del> H. on M															
					center of comp. woods.															
					<table border="0"> <tr> <td>Feb. 21</td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td></td> <td>+10<sup>3</sup>.2</td> <td>-00<sup>3</sup>.8</td> <td>-09<sup>3</sup>.8</td> <td>+0.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>adv 1<sup>m</sup></td> <td></td> </tr> </table>	Feb. 21	MC	SC	MTW	STW		+10 <sup>3</sup> .2	-00 <sup>3</sup> .8	-09 <sup>3</sup> .8	+0.1				adv 1 <sup>m</sup>	
Feb. 21	MC	SC	MTW	STW																
	+10 <sup>3</sup> .2	-00 <sup>3</sup> .8	-09 <sup>3</sup> .8	+0.1																
			adv 1 <sup>m</sup>																	





Quite murky after sunset Improving  
after 2000

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 00	W 0 54	27 20	0	8.26 G5	1-1-1 - Pretty hazy
20 50	W 1 46	27 15	0	8.54 K0	1-1-1
21 40	W 0 59	26 40	0	8.54 G5	1-1-1
01 00	1 33 W	28 10	0	8.32 G0	1-2-1
01 30	1 18 W	28 52	0	8.93 G5	1-2-1
02 00	1 10 W	28 19	0	8.93 K0	1-2-1
02 30	0 55 W	27 19	0	8.82 K0	1-2-1
	O.T.B.			6/4	
					R + 20 - H. ON M.

impr. along

impr. to trans

haze thickening

low

low

low

low

low

low

Date Tues Mar 1-2, 1949 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.	Hour Angle End
15661	HD 26706	4 10.1	+15 58	I-12	Em. 3.0	008	-7.8	18 55	19 53	1 41
15662	HD 37115	5 31.0	-5 41	"	"	"	-7.7	19 42	20 54	1 51
15663	HD 44637	6 07.7	+15 07	"	"	"	-7.6	20 15	20 51	1 35
15664	HD 52721	6 57.2	-11 09	"	"	"	-7.3	20 40	20 45	1 09
15665	HD 57388	7 05.9	-2 15	"	"	"	-7.6	20 53	21 21	1 23
15666	HD 62857	7 41.9	+32 10	"	"	"	-7.5	21 27	21 54	1 54
15667	HD 73160	8 01.6	21 34	"	"	"	-7.5	22 20	21 16	1 02
15668	HD 80331	9 10.2	27 16	"	"	"	-7.6	23 21	03 42	1 30
15669	HD 83224	9 31.8	24 51	"	"	"	-7.6	23 55	00 59	1 36
15670	97777	11 09.9	26 59	"	"	"	-7.4	01 05	02 15	1 44
15671	109823	12 32.7	39 11	"	"	"	-7.4	02 20	03 31	1 54
15672	121149	13 48.6	28 09	"	"	"	-7.3	03 38	04 36	2 04
15673	133922	15 02.0	26 49	"	"	"	-7.4	04 39	05 45	2 14
15674	142404	16 05.7	26 16	"	"	"	-7.4	05 49	06 25	2 24

Focus Test

Very windy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19:45	W 1 41	46 05	0	8.6 B3e	1-1-1 MW 83
19:50	W 0 51	-5 40	0	8.2 B3e2	1-1-1 MW 114
20:05	W 0 35	15 06	0-1	7.7 B3e	1-1-1 MW 139
20:12	W 0 09	-11 14	1	6.6 B3e	1-1-1 MW 164
20:20	W 0 23	-8 19	0	8.1 B3e	1-1-1 MW 174
20:30	W 0 54	26 09	1	8.2 G5	1-1-1
20:35	W 1 02	26 25	1	8.70 K0	1-1-1
20:40	W 0 30	27 58	1	8.05 K0	1-1-1
20:54	1 46 W	24 37	1	8.77 G0	1-2-1 Trouble finding * check procession. Definitely fainter than 8:77
21:00	1 24 W	26 43	1	8.98 K0	1-1-1
21:10	1 20 W	28 53	1	8.93 G5	1-1-1 haze
21:20	1 07 W	27 52	1	8.58 G0	1-1-1 "
21:30	1 04 W	26 36	1	8.92 K0	1-1-1 "
21:45	0 40 W	26 08	1	8.64 G5	1-1-1 " NO COMPARISON ON STAR
	O.T.B.			6/4	

4 P.H + 4 H.O.N.M.











FOCUS 12.948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS		
					Clouds on horiz @ sunset, but not filling in — yet		
20 43	0 <sup>w</sup> 55	+28 04	0	8.91 KO	1-1-1	AG25	Noticeable Haze <span style="color:red">good</span>
21 57	0 <sup>w</sup> 54	+28 49	0+	8.86 GO	1-1-1	AG25	Haze much worse! Exposure merely a <span style="color:red">faded</span> guess.
					Not getting anything much — & rapidly filling in!		
					4PH Loaded + 13		
					H on M		

Date Sun. Mar. 6/17 Pa. W.

Julian Day

1949

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
15678	AG- 2606	05 35.6	26 13	I 12"	103 -0	5k	-1.0	1859	1923	4
15679	HD 43581	06 11.9	26 28	"	"	"	-1.0	1936	2016	1
15680	54370	07 03.5	26 40	"	"	"	-1.0	2019	2055	2
15681	63816	07 45.7	25 05	"	"	"	-1.2	2052	2134	3
15682	71028	08 20.1	28 45	"	"	"	-1.0	2137	2213	4
15683	76332	08 50.4	29 03	"	"	"	-1.0	2216	2254	1
15684	83820	09 35.9	29 20	"	"	"	-1.0	2257	2335	2
15685	90682	10 23.1	27 26	"	"	"	-1.0	2338	0016	3
15686*	98562	11 15.3	24 09	"	"	"	-1.0	0022	0152	4
15687	111842	12 47.0	26 13	"	"	"	-1.1	0156	0258	1
15688	120802	13 46.6	27 37	"	"	"	-1.0	0303	0437	30 W
15689	138156	15 25.2	27 26	"	"	"	-1.1	0440	0544	120 W
15690	150205	16 34.4	29 52	"	"	"	-1.1	0547	0610	116 W
Focus Test										

From 12.948

83

11/11/48

Foot Watch

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
11	34 N	26 14	0	8.30 MO	1-1-1	AG 25 +10 <i>very low at night</i> <i>1-1-1</i>
2	41 W	26 27	0+	8.90 K2	1-1-1	" <i>very much too strong</i> <i>good</i>
2:35	29 N	26 36	1-	8.84 K0	1-1-1	" <i>strong</i> <i>good</i>
34	25 W	24 57	1-	8.84 G5	1-1-1	" <i>strong</i> <i>good</i>
22:13	30 W	28 34	1	8.90 K0	1-1-1	" <i>weak too strong</i> <i>good</i>
2:54	42 W	28 52	1-	8.92 F5	1-1-1	" <i>weak too strong</i> <i>good</i>
23:35	37 W	29 07	1+	8.95 G5	1-1-1	" <i>strong</i> <i>look</i>
00:6	31 W	27 11	1	8.96 K0	1-1-1	" <i>weak too strong</i> <i>look</i>
01:22	1 16 W	23 54	0-1	8.93 G5	1-1-1	" * NUMBERED 15687 ON PLATE <i>look</i>
2:5	0 50 W	25 57	0-1	8.81 K5	1-1-1	" <i>look</i>
04:37	1 30 W	27 26	0	8.82 G5	1-1-1	" <i>strong</i> <i>look</i>
05:4	1 00 W	27 16	0	8.96 K0	1-1-	" <i>strong</i> <i>look</i>
06:10	0 16 W	29 46	0	8.07 G5	1-1-1	" <i>look</i>

O.T.B.

H ON M. 4 P.H. + 12  
 MS +07.6    50 -2.7    MTW +20.0    STW +0.2



84

Date Monday Mar. 7-8/49 L.V. 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
15691	H.D. 46157	06 26.7	29 28	I-12 $\frac{1}{2}$	E-103a-O	set .003	-3.8	19 41	20 27 1	0 42 W
15692	" 55578	07 08.4	28 38	"	"	"	-3.8	20 42	21 26 2	0 50 W
15693	" 70178	08 15.5	29 07	"	"	"	-3.7	21 32	22 02 3	0 28 W
15694	" 74925	08 41.8	28 21	"	"	"	-3.7	22 07	22 49 4	0 49 W
15695	" 83632	09 34.8	26 28	"	"	"	-3.7	22 57	23 <sup>3</sup> 29 1	0 36 W
15696	" 90932	10 24.8	27 51	"	"	"	-3.7	23 33	00 11 2	0 28 W
15697	" 96234	11 00.7	24 45	"	"	"	-3.7	00 15	00 50 3	0 32 W
15698	" 101396	11 35.0	26 42	"	"	"	-3.5	00 54	01 46 4	0 44 W
15699	109212	12 25.5	25 00	"	"	"	-3.4	01 50	03 17 1	1 32 W
<i>Focus Test</i>										

Nov. 12. 1948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Haze and light clouds at sunset, delayed starting.
20 27	0 42 W	29 26	1-	8.70 K <sub>0</sub>	1-1-1	A.G. 25 7 light passing clouds
21 25	0 50 W	28 32	1	8.96 K <sub>0</sub>	1-1-1	" " " "
22 25	0 28 W	28 58	1-2	8.65 G <sub>5</sub>	1-1-1	" " " "
23 49	0 49 W	28 09	2	8.98 G <sub>0</sub>	1-1-1	" " " " haze latter part of exp.
24 29	0 36 W	26 14	2	8.72 K <sub>0</sub>	1-1-1	" " " " haze
00 2	0 28 W	27 35	2	8.95 K <sub>0</sub>	1-1-1	" " " " light haze
00 5	0 32 W	24 29	2	8.91 G <sub>5</sub>	1-1-1	" " " "
01 5	0 54 W	26 25	2	8.82 K <sub>0</sub>	1-1-1	" " " "
03 7	1 32 W	24 46	2	8.70 M <sub>0</sub>	1-1-1	" " " " haze clearing away slowly
	O.T.B				6/4	
						H. on M. 3 P.M. + 4

86

Date Sun Nov 13/14 Ba/L  
1949

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
15700	HD 44030	06 14.4	25 39	12"	103A-0	.005"	0.0	1913	1943	2
15701	49365	06 43.0	28 39	"	"	"	0.0	1946	2016	3
15702	56761	07 13.3	27 00	"	"	"	0.0	2021	2053	4
15703	67709	08 04.2	27 23	"	"	"	0.0	2057	2129	1
15704	79260	08 37.9	27 36	"	"	"	0.0	2132	2212	2
15705	82331	09 00.2	27 44	"	"	"	0.0	2215	2255	4
15706	88532	10 07.5	27 55	"	"	"	0.0	2258	2350	3
15707	92824	10 38.0	26 17	"	"	"	0.0	2334	0004	1
15708	99957	11 24.9	25 52	"	"	"	-0.1	00 22	00 54	2
15709	" 105020	12 00.4	29 04	"	"	"	-0.2	00 57	01 31	3
15710	" 114636	13 06.7	26 54	"	"	"	-0.2	01 35	02 11	4
15711	" 116329	13 17.9	26 22	"	"	"	-0.2	02 15	02 42	1
15712	" 123877	14 05.1	26 18	"	"	"	-0.2	02 53	03 29	2
15713	" 130500	14 43.5	25 53	"	"	"	-0.2	03 35	04 07	3
15714	" 142209	15 48.2	28 54	"	"	"	-0.3	04 14	04 46	4
15715	" 142898	15 52.0	27 20	"	"	"	-0.3	04 51	05 29	1



Focus 12.948

Peak Wavelength

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
9:43	33" W	25 38	1-2	8.92 K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AC 25
20:16	38" W	25 35	1+	8.75 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	"
20:53	45" W	26 55	1+	8.86 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Looks brighter than 8.86 too
21:24	3" W	27 15	1+	8.86 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	"
21:42	37" W	27 24	1+	8.98 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Slow motion in RA. <i>Thick</i>
21:55	34" W	27 03	1	8.96 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	"
22:00	25" W	28 32	1-2	8.92 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	"
22:04	32" W	26 02	2	8.96 G0	$\frac{1}{2} - 1 - \frac{1}{2}$	"
22:12	0 36 W	25 36	2	8.93 K2	1-1-1	"
22:31	0 37 W	28 47	2	8.91 K0	1-1-1	"
22:40	0 11 W	26 38	2	8.96 K0	1-1-1	"
22:45	0 38 W	26 06	2	8.91 G5	1-1-1	"
23:22	0 30 W	26 04	2	8.92 K5	1-1-1	"
04:50	0 31 W	25 40	2	8.96 K0	1-1-1	"
04:54	0 05 W	28 44	2	8.92 K2	1-1-1	"
05:00	0 45 W	27 11	2	8.93 K0	1-1-1	" Same light class (over)



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS										
06 01 E	0 35 W	27 28	2	8.89 G5	1-1-1 A.G. 25	more light clouds. <i>fine</i>										
					6/4	<i>low in K</i>										
						2 RH's loaded plates mudded in dome										
						Heaton mirror.										
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Mar. 14</td> <td>+06.3</td> <td>-21.5</td> <td>-12.7</td> <td>+0.1</td> </tr> </table>		MC	SC	MTW	STW	Mar. 14	+06.3	-21.5	-12.7	+0.1
	MC	SC	MTW	STW												
Mar. 14	+06.3	-21.5	-12.7	+0.1												
						Mar. 17/19 Opened up. then it clouded over. Dk.										





FOCUS : 12.948

few clouds @ sunset low NW  
N wind rather fresh

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 18	0 <sup>w</sup> 58	+28 01	0+	8.90 G5 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	AG 25
21 27	1 <sup>w</sup> 04	+26°00'	0+	8.99 K2 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" Some haze & cloud
(2.45?)				8.92 K0 $\frac{1}{2}$ -	" Clouds @ ~ 21 45 - *down ~ 1 <sup>m</sup>
				4/2 set 8	
					3 PL loaded + 8
					Thurs Mon 17-18 Hd overcast, partly clear
					21-22 to thin clouds





Temp @ END +06 F

Focus 12.948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
22 52	1 11 W	25 38	0	8.89 Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25" Seeing very poor
00 03	1 17 W	27 39	0	8.70 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " " " "
01 08	0 55 W	27 50	0	8.72 Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " " " "
02 15	1 15 W	27 59	0	8.70 G5	$\frac{1}{2}-1-1$	" " " " "
03 36	1 14 W	28 03	0	8.63 Ko	1-1-1	" " " " "
05 03	1 24 W	27 35	0	8.93 Ko	1-1-1	" " " " "
05 51	0 41 W	29 00	0	8.75 Ko	1-1-1	" " " " some clouds + haze
	O. T. E.				$\frac{6}{4}$	

4 P.M. + 12 H. on M

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Date Saturday, March 19-20/49 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Four Angle End
15727	H.D. 76864	08 53.8	29 24	I-12 $\frac{1}{2}$	E-103a-O	set 008	-5.1	21 21	22 21	56 W
15728	" 86680	09 55.0	28 39	"	"	"	-5.1	22 25	23 11	45 W
15729	" 91842	10 31.2	28 18	"	"	"	-5.1	23 15	00 25	23 W
15730	" 104589	11 57.6	25 54	"	"	"	-5.2	00 29	01 29	01 W
15731	" 113242	12 57.3	29 32	"	"	"	-5.2	01 34	02 24	56 W
15732	" 123822	14 09.8	25 54	"	"	"	-5.2	02 29	03 17	43 W
15733	" 143271	15 54.4	27 09	"	"	"	-5.2	03 23	04 11	3E 2
15734	" 143272	15 54.4	26 49	"	"	"	-5.2	04 15	05 03	39 W
15735	{ " 150431	16 35.9	25 44	"	"	"	-5.2	05 07	06 49	44 W
	{ Focus Test					O.T.B.				

Focus 12.948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
22 61	0 56 W	29 12	0	8.56 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	A.G. 25 Seeing poor!
23 11 2	0 45 W	28 22	0	8.26 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Seeing better
00 25 3	1 23 W	28 02	0	8.98 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "
01 29 -	1 01 W	25 37	0-1	8.84 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "
02 24	0 56 W	29 15	0-1	8.86 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "
03 17 -	0 43 W	25 40	0-1	8.91 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "
04 1 3	0 13 E	27 00	0-1	8.98 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "
05 07 -	0 39 W	26 40	0-1	8.96 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "
01 03	0 44 W	25 37	0-1	8.82 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "

 $\frac{4}{2}$ 

3 Plate holders loaded

16 plates in dome H. or M.

	MC	SC	MTW	STW
Mar. 21	+04.2	-29.3	+16.0	+0.6

Tues, Mar 22/3 Rain &amp; drizzle Wm.





Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

W 1 25

28 02

0

8.77 G5

 $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 

Still pretty hazy.

0.58 W

24 35

0

8.15 K2

 $\frac{1}{2} - 1 - 1$ 

Closed up iron are some.

O. T. B.

 $\frac{6}{A}$ 

Haze thickening

1 P. H. + 16

H. ON M.

Fri. Mar 25-86

Sky mostly clear shortly after sunset but air temp much higher than mirror; trial opening of shutter section produced fogging on mirror. No improvement of conditions as night wore on! gave up at 3.00 with sky intermittently cloudy.









June 12, 1936

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
22 43 2	3 11 W	26 14	0-1	9.8? Mo	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25 Clouds at end of exp. Then
22 44 3	1 21 W	28 51	0	8.81 K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " clearing again.
22 58 4	0 47 W	27 10	0-1	8.75 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "
23 43 1	0 07 W	25 23	0-1	8.75 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "
00 31 2	0 22 W	25 07	0-1	8.80 G0	$\frac{1}{2}-\frac{1}{2}-1$	" "
01 15 3	0 54 W	28 00	0-1	8.70 G5	1-1-1	" "
02 11 7	1 03 W	24 52	0-1	8.87 G5	1-1-1	" "
02 55 1	0 31 W	28 41	0-1	8.72 G5	1-1-1	" "
3 25 3	0 10 W	28 16	0-1	8.54 K2	1-1-1	Overcast suddenly around 0525
		O. T. B.			$\frac{5}{4}$	
						2 P.M. + + H. on M.
						Intermittent cloudiness closed 0515
						Tues Mar 29/30 - O'cast; drizzle W.m



1.02

Date Friday, April 1/2, 1949 W.m. - W 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	
15 749	HD 33 535	05 06.2	+26° 21'	I-12	F1030-0	<sup>SET</sup> 008	+5.0	19 51	20 21	3 35	
15 750	HD 75 663	08 46.2	+29 14	"	"	"	+5.0	20 25	21 19	0 <sup>W</sup> 53	
15 751	<del>HD 24 577</del>	<del>09 41.1</del>	<del>+27 38</del>	"	"	"	+5.0	21 23	22 29	1 <sup>W</sup> 08	
15 752	HD 91 855	10 31.3	+26 41	"	"	"	+4.8	22 34	23 38	2 <sup>W</sup> 27	
15 753	HD 106 947	12 12.8	+25 35	"	"	"	+5.0	23 44	00 44	3 <sup>W</sup> 52	
15 754	115 103	13 09.9	29 55	"	"	"	+5.0	00 47	02 01	4 <sup>W</sup> 13	
15 755	129 357	14 37.0	29 30	"	"	"	4.9	02 05	04 55	5 <sup>W</sup> 39	
15 756	139 550	15 33.7	25 57	"	"	"	5.0	02 59	03 55	2 <sup>W</sup> 44	
15 757	147 980	16 19.9	28 37	"	"	"	4.9	03 58	04 34	2 <sup>W</sup> 57	
15 758	156 007	17 10.0	26 56	"	"	"	5.0	04 38	05 24	3 <sup>W</sup> 27	
	<i>Trans Test</i>										







about 35 visitors Partly cloudy. 105  
 Showed by with 74" + 5"  
 " " 4" still

Ending Time  
 E.S.T.

22 31	W 1 15 <del>22 31</del>	27 17	0	8.42 Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	1 a.m.
23 20 2	W 1 09	25 58	0	8.33 Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	fine + 1 week
			0	8.75 Gs	$\frac{1}{2} - \frac{1}{2}$ 4/2	about 10 mins of clear sky then cloudy

1 P.H. + 4

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Date See April 24, 1947 P/W

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
15762	HD 68724	08 18.6	27 01	12"	103a-D	"	-7.0	1942	2018	1
15763	HD 76332	08 09.4	29 03	"	"	"	+6.9	2031	2107	1
15764	HC 84168	09 51.7	25 16	"	"	"	+6.8	2111	2147	2
15765	HL 89415	10 14.1	29 51	"	"	"	+6.8	2153	2235	3
15766	HD 97777	11 09.9	26 59	"	"	"	-6.8	2239	2324	4
15767	HD 103614	11 50.8	26 03	"	"	"	+6.8	2328	0008	1
15768	HD 110788	12 39.9	26 32	"	"	"	6.8	0011	0125	2
15769	124019	14 05.9	28 05	"	"	"	6.8	0128	0226	3
15770	135145	15 08.6	28 19	"	"	"	6.8	0231	0329	-
15771	143688	15 36.8	24 44	"	"	"	6.8	0253	0421	1
15772	154760	17 22.5	26 38	"	"	"	6.8	0435	0521	2
Focus Test										

Form 12937

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 00	47° W	26 52	0+	8.96 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ A <sup>9</sup> B5 - Pleiades - fainter 4th star fine
01 07	44° W	28 50	1	8.95 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " " " " fine
01 17	24° W	25 03	1+	8.96 KO	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " " " " fine
01 28	49° W	29 32	1	8.98 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " " " " fine
01 34	45° W	24 43	1-0	8.98 KO	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " " " " <i>doublet</i> fine
01 40	46° W	25 46	0	8.75 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " " " " fine
01 53	115 W	28 15	0	8.95 KO	1-1-1 " " " " " <i>strong</i>
02 20	0 50 W	27 50	0	8.79 G5	1-1-1 " " " " " <i>doublet</i> fine
03 29	0 50 W	27 06	0	8.42 G5	1-1-1 " BRIGHTER OF PAIR <i>doublet</i> fine
04 01	1 05 W	24 35	0	8.91 KO	1-1-1 " " " " " fine
05 21	0 49 W	26 35	0	8.63 G5	1-1-1 " " " " " fine
	O.T.B.				$\frac{6}{4}$ <i>doublet</i>

2 P.M. P.M.

H. A. M.  
 M C SC MTW STW  
 Apr. 4 +03.0 -46.0 +12.0 +0.0



Date *Mon April 4.5/40* L-W. 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	
15773	H.D. 75646	08 46.1	26 05	I-12 $\frac{1}{2}$	E-103a0	SCT 008	+9.5	19 55	20 29	3 01E W	
15774	A.G. 4714	08 46.1	26 06	"	"	"	+9.5	20 31	21 23	4 09W	
15775	H.D. 91950	10 31.9	25 36	"	"	"	+9.4	21 57	22 37	1 037W	
15776	" 99594	11 22.4	26 59	"	"	"	+9.3	22 41	23 17	2 027W	
15777	" 102404	11 42.1	24 59	"	"	"	+9.3	23 20	23 50	3 040W	
15778	" 108675	12 24.0	29 26	"	"	"	+9.2	23 54	00 25	4 037W	
15779	" 115256	13 10.9	29 17	"	"	"	9.4	00 32	01 00	1 026W	
15780	" 117025	13 22.5	29 24	"	"	"	9.5	01 02	01 32	2 043W	
15781	" 125340	14 13.6	27 15	"	"	"	9.2	01 25	02 05	3 025W	
15782	" 130215	14 41.8	27 56	"	"	"	9.2	02 05	02 44	4 036W	
15783	" 139759	15 34.8	26 04	"	"	"	9.1	02 47	03 53	1 022W	
15784	" 149400	16 29.3	25 04	"	"	"	9.2	03 57	04 29	2 024W	
15785	" 154948	17 03.5	28 16	"	"	"	9.2	04 32	04 50	3 021W	
15786	" 161122	17 35.6	26 36	"	"	"	9.2	04 53	05 21	4 017W	
	<i>Focus Test</i>										

Dr Heard's group shown Saturn with  
74" and moon with 5".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
2 29	0 15 W	25 54	0-1	8.51 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25 <sup>T.F.</sup> slit on H.D. 35261 and A.G. 2606
21 23	1 09 W	25 55	1	9.1 <sup>?</sup> G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " but slit was flooded with moon.
22 37	0 37 W	25 20	1	8.84 G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "
23 7	0 27 W	26 44	1-2	8.95 K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "
23 50	0 40 W	24 42	1-2	8.70 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "
00 2	0 37 W	29 08	1-2	8.68 G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-1$	" "
01 11	0 22 W	28 59	2	8.77 K <sub>0</sub>	1-1-1	" "
01 21	0 43 W	29 07	1-2	8.77 K <sub>0</sub>	1-1-1	definitely not as bright as previous ones.
02 5	0 25 W	27 00	2	8.75 G <sub>5</sub>	1-1-1	" "
02 11	0 36 W	27 44	2+	8.55 K <sub>0</sub>	1-1	" "
03 13	0 52 W	25 54	2-3	8.43 G <sub>5</sub>	1-1-1	" "
04 29	0 34 W	24 59	2-3	8.77 G <sub>0</sub>	1-1-1	" "
04 50	0 21 W	23 10	2-3	8.14 K <sub>0</sub>	1-1-1	" "
05 01	0 17 W	26 34	2-3	8.43 K <sub>0</sub>	1-1-1	" "
		O.T.B.			6/4	
					4 P.H. + 0	H. on M.



Date Fri April 8-9, 1949 Hd-L 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
15787	HD 88008	10 03.7	25 02	I-12	E10300	008	+6.0	21 42	22 32	1 W 16
15788	HD 97476	" 07.9	27 43	"	"	"	+6.0	22 35	23 15	2 W 55
15789	HD 105020	12 00.4	29 04	"	"	"	+6.0	23 18	00 10	3 C 58W
15790	" 115613	13 13.2	27 58	"	"	"	+6.0	00 15	01 05	4 C 40W
15791	AG. 6705	14 00.3	26 19	"	"	"	+6.0	01 14	02 20	1 C 19W
15792	H.D. 142418	15 49.4	29 46	"	"	"	+5.9	02 35	03 17	2 C 17W
15793	" 143313	15 54.6	25 52	"	"	"	+5.9	03 20	04 10	3 C 55W
15794	" 160952	17 37.7	29 39	"	"	"	+5.8	04 15	05 07	4 C 15W
	Focus Test					O.T.B.				



cloudy earlier

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 32 1	W 1 16	20 47	0	8.72 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Clouds again
23 15 2	W 5 5	27 27	0	8.63 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ (possibly numbered 11578!)
00 13 3	0 58 W	28 45	0	8.91 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ A.G. 25
01 55 4	0 40 W	27 43	0	8.64 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ A.G. 25
02 5	1 19 W	26 05	0	8.70? K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " Ptg. Mag. 9.5?
3 17 2	0 17 W	29 27	0.1	8.82 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " "
04 0 3	1 05 W	25 43	0	8.91 K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " Wind rising, image unsteady
05 37 4	0 19 W	29 36	0	8.91 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " "

4/2

4 P.H. loaded + 4.

Heat on mirror.

(12)

Date Set April 9/10, 1959 - W<sub>m</sub> - W.

						SET				Hour Angle End
15795	HD 104590	11 <sup>h</sup> 57 <sup>m</sup> .6	+25.00	I-12	E1030.0	008	+4.2	22 59	23 53	0 <sup>m</sup> 54
15796	HD 112 299	12 <sup>h</sup> 50.6	+26 16	"	"	"	+4.5	00 04	00 56	0 58 W
15797	120895	13 47.2	25 11	"	"	"	4.5	00 59	02 11	116 W
15798	136231	15 14.4	26 09	"	"	"	4.5	02 15	03 31	116 W
15799	149803	16 32.0	29 56	"	"	"	4.2	03 34	04 44	103 W
15800	160508	17 35.2	26 49				4.3	04 47	05 13	103 W

*Focus Test*

N eWm Showed about 175 visitors to with 79' 113  
 C with 5"

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
23.5	0 <sup>w</sup> 54	+29 45	0-1	8.73 KO $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ AG25	Shiny
00.86	0 58 W	26 01	0-1	8.78 G0 $\frac{1}{2}-1-1$ AG25	to. Shiny
03.11	1 16 W	24 55	0-1	8.56 K0 1-1-1	v good
06.4	1 10 W	25 52	0	8.96 G0 1-1-1	fine
04.14	1 00 W	29 40	0	8.78 G5 1-1-1	fine
05.13	0 31 W	26 46	0	8.23 G0 1-1-1	fine
	O. T. B.			$\frac{9}{2}$	fine

Z. P. H. + 12





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
20 44	W 1 10	28 37	0-1	8.53 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Fine										
21 47	W 1 09	25 36	0	8.91 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Fine										
22 40	W 1 20	26 59	1	8.65 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Some clouds too strong										
23 54	2 34 W	27 10	1	8.75 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " Fine										
00 34	O 28 W	26 48	1	8.36 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ haze, clouds less										
02 06	O 14 W	28 42	1	8.79 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ more haze, clouds, 4/2 Closed up at 3.00, thick. 4 P.H. loaded +4 H on M.										
					<div style="text-align: center;"> <hr/> <table> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Apr. 11</td> <td>+01.0</td> <td>-51.1</td> <td>-00.8</td> <td>-0.3</td> </tr> </table> </div>		MC	SC	MTW	STW	Apr. 11	+01.0	-51.1	-00.8	-0.3
	MC	SC	MTW	STW											
Apr. 11	+01.0	-51.1	-00.8	-0.3											

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Date *Hydr April 11-12/49* L-W. 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
15807	H.D. 70030	08 14.7	25 39	I-12 $\frac{1}{2}$	E-103 <sub>ro</sub>	set .008	+12.6	19 50	20 30	1 14W
15808	" 78194	09 01.8	28 23	"	"	"	+12.6	20 34	21 24	2 12W
15809	" 90841	10 24.2	29 02	"	"	"	+12.6	21 28	22 08	3 04W
15810	" 95978	10 59.2	29 44	"	"	"	+12.6	22 12	22 44	4 04W
15811	" 104076	11 54.1	25 12	"	"	"	+12.5	22 48	23 22	1 028W
15812	" 107468	12 16.1	26 17	"	"	"	+12.5	23 26	00 12	2 056W
15813	" 114172	13 03.8	29 55	"	"	"	+12.5	00 14	01 04	3 101W
15814	" 126327	14 19.7	26 11	"	"	"	+12.6	01 05	02 06	4 047W
15815	" 136231	15 14.4	26 09	"	"	"	+12.5	02 09	03 49	1 136W
15816	" 153224	16 53.0	29 45	"	"	"	+12.5	03 55	04 33	2 042W
15817	" 161268	17 39.5	27 05	"	"	"	+12.5	04 37	05 11	3 033W

*Focus Test*



Focus 12.937

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
20 31	1 14 W	25 30	0	8.58 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG. 25 light haze
21 24	1 21 W	28 13	0-1	8.91 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "
22 05	0 43 W	28 48	1	8.90 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "
22 44	0 45 W	29 26	1-2	8.84 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "
23 22	0 28 W	24 56	1	8.68 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "
00 12	0 56 W	26 00	1	8.72 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "
01 04	1 01 W	29 38	1	8.77 G <sub>0</sub>	1-1-1	" "
				vis. m.		*YELLOWISH-RED
02 06	0 47 W	25 56	1	7-8 M <sub>8</sub>	1-1-1	" "CHECK MAGS. OF OTHER * <sub>0</sub> IN FIELD
01 49	1 36 W	25 57	1-2	8.96 G <sub>0</sub>	1-1-1	" "
04 52	0 42 W	29 39	1-2	8.70 G <sub>0</sub>	1-1-1	" "
05 11	0 33 W	27 02	1-2	8.27 K <sub>2</sub>	1-1-1	" "
	O.T.B.				$\frac{1}{4}$	
						+ P.H. + +5
						H. ON M <sub>2</sub>

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Date April 13 P.M. W.

Julian Day

1949

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
15818	HD 76010	03 48.4	27 18	C-12"	18a-0	Let .008	#15	1946	2006	4
15819	78967	07 0.0	29 17	"	"	"	15	2011	2101	1
15820	88416	10 06.6	27 26	"	"	"	14.9	2105	2205	1
15821	97658	11 09.2	26 11	"	"	"	14.2	2209	2237	3
15822	114392	11 56.2	24 47	"	"	"	14.0	2241	2327	4
15823	AG 6249	12 43.4	25 41	"	"	"	13.8	2331	0013	3
15824	HD 119944	13 41.3	27 43	"	"	"	13.9	00 33	01 39	102 W
<i>Focus Test</i>										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2001	20" W	27 08	0-1-2	8.38 K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ AG 25
2101	53" W	29 05	1-0	8.96 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " Seeing variable
2205	1 <sup>h</sup> 1" W	27 22	0-	8.96 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " Seeing extremely poor Look for stars - star sail
2237	32" W	26 00	0	8.35 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " Fine Aurora
2329	35" W	24 30	0-1	8.92 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " Seeing variable. Hazy
0013	34" W	25 26	2-1	8.99 K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " HAZE THICKENING CONSIDERABLY
0109	1 03 W	27 28	1	8.76 K0	1-1-1 6/A 2 P.M. + 24 H. ON M.
		O.T.B.			



120

Date Thurs April 19/13 P.M.

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
	H									
15825	HD 81505	09 20.9	26 48	5 1/2"	103-0	1000 <sup>5/8</sup>	13.8	2008	2058	3
15826	90932	10 24.8	27 51	"	"	"	14.2	2102	2152	4
15827	96234	11 00.7	24 45	"	"	"	14.8	2155	2245	1
15828	105964	12 06.6	26 17	"	"	"	14.8	2248	2330	3
	Focus 1st		01B	4/2.	51B					

From 12.937 121

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Clouds have clearing away after sunset
2143	49°W	26 36	0	8.96 E5 $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG-25
2152	39°W	27 37	0	8.95 K0 $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	"
2245	56°W	29 29	0	8.91 E5 $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	"
2300	35°W	26 01	0	8.93 E0 $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Clouds clearing * gone 2320 2 PM + 20 HMM <u>from 12.937 led</u>





p. 123

Plastic field heater  
 missing?  
 OK

about 15 visitors showed, with 7x  
 focus 12.937 - not changed a/c  
 much lower temp.  
 found traps suitable for spec. heating

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 10 1	X 1 05	25 08	0	8.72 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$
00 05 3	0 52 W	28 54	0	8.93 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ set 8 AG 25
01 14 4	1 03 W	25 03	0-1	9.2 ? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " "
01 56	0 46 W	28 36	0-1	8.6 ? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " <span style="color: red;">comp. temp</span>
02 51	0 20 W	25 18	0-1	9.0 ? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " <span style="color: red;">set</span>
03 06 3	0 59 W	29 05	0-1	8.98 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " <span style="color: red;">set</span>
04 52 4	1 03 W	26 13	0-1	8.95 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " <span style="color: red;">set</span>
					4/2 <span style="color: red;">from OK</span> <span style="color: red;">Center exposure <u>improved</u></span>
					2 P.H <sub>2</sub> . loaded + 12, 14 on Mn.

124

Date Sun April 17-18, 1949 Hd - V. 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
15836	HD91366	10 27.8	25 38	I-12	E103a0	008	+6.7	21 31	22 11	1
15837	HD96393	11 01.6	26 17	"	"	"	+6.6	22 13	23 43	2
15838	HD112001	12 48.2	27 20	"	"	"	6.7	23 48	01 40	3

*Focus Test*

W106

W205

W6W

cloudy after sunset.

125

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 11 1	W 1 06	25 25	0	8.40 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
23 43 2 * gone	W 2 05	26 00	0	8.79 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ comp weak
01 40 3	1 16 W	27 04	0	7.91 G0	$\frac{1}{2} - 1 - 1$ haze thickening $\frac{1}{4}$ rate $\frac{1}{4}$ focus on good
	O. T. B.				3 P. H. + 8?



126

Date Tues April 17/20 Ba. - L  
1947

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
15839	H.D. 109392	11 56.2	24 47	5 12"	103a-0	.008	+ 5.8	2220	2300	9
15840	" 109463	12 29.9	24 47	"	"	"	5.8	2302	2342	1
15841	" 115762	13 14.2	25 08	"	"	"	5.8	2346	0026	2
15842	" 125320	14 13.6	27 15	"	"	"	5.8	0029	0103	$\frac{3}{4}$
15843	" 130500	14 43.5	25 53	"	"	"	5.8	0106	0146	$\frac{3}{4}$
15844	" 140385	15 38.2	29 57	"	"	"	+5.8	01 50	02 30	1
15845	" 147487	16 17.2	27 36	"	"	"	+5.8	02 34	03 14	2
15846	AG. 7774	16 38.0	25 37	"	"	"	+5.8	03 20	04 20	3
15847	{ H.D. 164042 Focus Vest	17 54.2	27 23	"	"	"	+5.8	04 23	04 47	4
						07.B.				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
23:00	36 <sup>m</sup> W	24 30	1-0	8.92 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Clouds clearing 2130 AG-25										
00:01	44 <sup>m</sup> W	24 30	0-1	8.86 K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ ..										
00:26	44 <sup>m</sup> W	24 53	0-1	8.87 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ ..										
01:30	21 <sup>m</sup> W	27 02	1	8.75 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Trouble with 19" drive clock. "										
01:40	0 35 W	25 40	1	8.96 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Baglow here while making adj. L "										
02:30	0 24 W	29 47	1	8.91 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ ..										
03:40	0 30 W	27 29	1	8.96 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ ..										
04:20	1 15 W	25 30	1	9.4? G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ ..										
04:47	0 26 W	27 22	1	8.39 K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ ..										
					4/2 2PH's bad, plates needed. <i>for on.</i>										
					4 on M										
					<table 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. 20</td> <td>-01.2</td> <td>-1 02.3</td> <td>+20.8</td> <td>-0.1<sup>m</sup></td> </tr> </table>		MC	SC	MTW	STW	Apr. 20	-01.2	-1 02.3	+20.8	-0.1 <sup>m</sup>
	MC	SC	MTW	STW											
Apr. 20	-01.2	-1 02.3	+20.8	-0.1 <sup>m</sup>											





Focus 12.930 (decreased slightly) 129

Clouds at sunset.

Ending Time E.S.T.	Hour Angle H <sub>mid</sub>	Declination	Seeing	Htz. Mag.	REMARKS	
21 21 1	W 0 42	24 36	0-1	8.47 K <sub>2</sub>	1-1-1	
22 51 2	W 1 06	24 30	0	8.91 G <sub>5</sub>	1-1-1	Some haze. <span style="color: red;">Good</span>
23 24 3	W 59	28 46	0-1	8.91 K <sub>0</sub>	1-1-1	Strong S-W haze - guiding difficult <span style="color: red;">1 week</span>
				<del>8.86 G<sub>0</sub></del>		Thickening. Gave up at 0010.

Thursday April 21-22/49 W-L

15851	HD	83935	09 36.6	26 04	I: 12 1/2 E	103a0	.008	+16.8	<del>07</del> 19 56	20 08 34	1	0 36 W
15852		89629	10 15.5	28 15	"	"	"	+16.6	<del>08</del> 29 36	21 09 12	2	0 36 W
15853		94833	10 51.8	25 49	"	"	"	+16.6	<del>09</del> 21 15	22 18 07	3	0 55 W
15854		102494	11 42.7	27 53	"	"	"	+16.5	22 10	22 38	4	0 36 W
15855		107611	12 17.0	27 51	"	"	"	+16.6	22 41	23 23	1	0 46 W
15856		114636	13 06.7	26 54	"	"	"	+16.5	23 26	00 06	2	0 59 W
15857		120802	13 46.6	27 37	"	"	"	+16.3	00 12	00 42	3	0 36 W
15858		126778	14 22.5	29 02	"	"	"	+16.3	00 46	01 16	4	0 34 W
15859		127386	14 26.0	25 33	"	"	"	+16.3	01 20	01 54	1	0 09 W
15860		138156	15 25.2	27 26	"	"	"	+16.3	02 00	02 34	2	0 49 W
15861		145394	16 05.5	27 14	"	"	"	+16.3	02 38	03 12	3	0 47 W
15862		150799	16 38.2	25 38	"	"	"	+16.3	03 16	04 08	4	1 W
15863	{	163970	17 53.8	27 51	"	"	"	+16.3	04 12	04 48	1	0 33 W
		Trans Test										
								O.T.B.				

20 08 34	0 36 W	25 49	1	8.60?	K <sub>0</sub> 1-1-1	AG 25	Swiss
21 02 12	0 36 W	27 59	1	8.49	K <sub>0</sub> 1-1-1	"	fine
22 07	0 55 W	25 33	1	8.84	G <sub>0</sub> 1-1-1	"	fine
22 38	0 35 W	27 37	1-2	8.60	G <sub>5</sub> 1-1-1	"	fine
23 23	0 46 W	27 35	1-2	8.64	G <sub>0</sub> 1-1-1	"	fine
00 06	0 39 W	26 39	2	8.96	K <sub>0</sub> 1-1- $\frac{1}{2}$	"	fine
0 42	0 35 W	27 23	2	8.82	G <sub>5</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
0 6	0 34 W	28 48	2	8.82	K <sub>0</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
01 54	1 08 W	25 19	2	9.0?	G <sub>5</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
02 34	0 49 W	27 17	2	8.96	K <sub>0</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
03 12	0 47 W	27 07	2-1	8.93	K <sub>2</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
04 08	1 11 W	25 32	1-2	9.4?	G <sub>0</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	fine
04 48	0 33 W	27 51	2	9.0?	G <sub>5</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	Has a fainter reddish comparison

4/2

4 P.H. Contact + 16 H on M.



132

Date Fri April 22/23 Pm - L  
1949

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
15864	HD 95364	10 55.5	24 37	I-12"	103a 0	.008	11.8	2110	2150	2
15865	101396	11 35.0	26 42	"	"	"	11.9	2155	2235	3
	107725	12 17.6	27 09	"	"	"	12.0	2239	2321	4
15866	113242	12 57.3	29 32	"	"	"	12.0	2328	00 12	4
15867	" 124019	14 05.9	28 05	"	"	"	+12.0	00 21	01 05	2
15868	" 132304	14 53.3	25 05	"	"	"	+12.0	01 13	01 41	1
15868 <sup>A</sup> <sub>F</sub>	" 141167	15 42.6	25 23	"	"	"	+12.0	01 45		3
	Focus lost				O.T.B.					

Trouble with setting handset at first from 12.930  
Declination button sticking

133

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
215	38 W	24 20	0-1	8.82 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AC-25 Clouds clearing 2000 fine
2235	44 W	26 37	0+	8.82 K0	$\frac{1}{2}-\frac{1}{2}-1$	" fine
2321	47 W	26 54	0+	8.93 K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Forget to pull slide.
0012	0 59 W	29 16	0+	8.86 F0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Hazy. very poor
0005	0 44 W	27 52	0-1	8.79 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" fine
01 4	0 32 W	24 53	0-1	8.44 K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" very poor
		25 15	0-1	8.84 G5	$\frac{1}{2}-\frac{1}{2}$	" About 15 mins. of clear sky then clouding over. Sky remaining thick. Handswitch now OK. 2 P.H.s Loaded + 12 H on M.

Sol. April 23/24 '99. N & Wm waved 7.4" for ~35 visitors. CLOUDY

134

1949  
Sun April 24/25 Ba -L

15867	<del>BD +27° 18' 11"</del> 11 562	<del>09 42.1</del> 09 41.1	<del>+27 35</del> 27 32	E. 12"	103a-0	10.8	7.2	2002	2102	4	11 W
15870	98152	11 15.3	24 09	"	"	"	7.2	2111	2201	1	57
15871	105020	12 00.4	29 04	"	"	"	7.2	2205	2255	2	46 W
15872	111842	12 47.0	26 13	"	"	"	7.1	2258	2334	3	39 W
15873	119615	13 39.5	25 48	"	"	"	7.1	2338	00 38	4	24 W
15874	AG. 6888	14 29.9	24 51	"	"	"	+7.1	00 44	01 18	1	040 W
15875	H.D. 134282	15 03.9	27 05	"	"	"	+7.0	01 23	01 53	2	04 W
15876	" 141690	15 45.3	25 46	"	"	"	+7.0	01 56	02 32	3	03 W
15877	" 147665	16 18.1	24 59	"	"	"	+7.0	02 36	03 20	4	054 W
15878	AG 8066	17 08.3	29 39	"	"	"	+7.0	03 24	04 08	1	053 W
15879	{ HD 163331 Ficus Sest	17 50.5	27 37	"	"	"	+7.0	04 11	04 37	2	05 W
					O.T. B.						



Watch stopped at 00.10, noticed it at 00.20  
rushed over and started it, may be out a bit.

00.10	1" 11" W	27 24	O-	8.98 <del>G5</del> <sup>K0</sup>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AC 25-		too weak
00.20	37" W	23 54	O	8.93 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		ok
01.55	48" W	29 47	O	8.91 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		weak
03.24	39" W	25 57	O-1	8.81 K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		ok
00.30	O 50 W	25 33	O-1	8.71* G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	9.2? Ptg!	fine
01.18	O 40 W	24 37	O-1	8.68 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		ok
01.53	O 41 W	26 55	1	8.63 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		ok
02.22	O 39 W	25 37	1	8.82 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		ok
07.00	O 54 W	24 51	1-2	9.2? G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		fine
04.40	O 53 W	29 34	2	9.4? K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		fine
04.57	O 39 W	27 36	2-1	8.64 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		fine

4/2

OK

3 PHs Loaded, plates needed H on M

	BC	M BC	MTW 3	STW M
Apr. 25	-1.09.7	-01.9	+01.5	-0.0

136

Date June April 26-27/49 Ba-L Julian Day

Plate No.	Obj. No.	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time EST.	Ending Time EST.	Hour Angle End
	HD 116329	13 17.9	26 22	5 12"	103a 0	Set .008	12°	23 42	23 58 3	
15880	122767	13 58.7	25 05	"	"	"	12°	00 02	01 12 3	3
15881	H.D. 142243	15 48.4	29 13	"	"	"	+11.8	01 49	02 15 4	26 W
15882	" 145890	16 08.3	26 42	"	"	"	+11.8	02 18	02 48 1	40 W
15883	" 151625	16 43.5	28 34	"	"	"	+11.8	02 52	03 20 2	37 W
15884	AG. 8084	17 10.2	29 39	"	"	"	+11.8	03 24	03 58 3	40 W
15885	H.D. 166093	18 04.0	29 48	"	"	"	+11.8	04 02	04 24 4	21 W
	Focus Lost				O.T.B.					

Timing Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Clouds have gradually clearing by 2300
23 18		16 09	0	8.91 G5	$\frac{1}{2}$ Very hazy soon after starting wrong <del>xxx</del> X.
23 21	1 13 W	24 50	0	8.78 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Set 7.5 haze, clouds, weak
02 15	0 26 W	29 03	1-2	8.76 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG 25 " " <i>poorly guided</i>
02 48	0 40 W	26 33	1-2	8.70 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "
03 20	0 37 W	28 29	2	8.85? G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "
03 53	0 48 W	29 37	2	9.02? G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "
04 24	0 21 W	29 48	2	8.40 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "
				$\frac{1}{2}$	1 P.H. load 1 + 3 H. or M.

*from center of the field*



138

Date Wed April 27-28, 1949 Hd - Wm 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
15886	HD 83617	09 34.7	25 29	I-12	E103aO	008	+13.0	19 59	20 53	1
15887	HD 93242	10 40.9	26 08	"	"	"	+13.0	20 57	22 03	2
15888	HD 93215	10 40.7	26 18	"	"	"	+12.9	22 05	22 55	3
15889	HD 113094	12 56.2	24 51	"	"	"	+13.0	22 59	23 39	4
15890	HD 118823	13 34.2	24 45	"	"	"	+12.9	23 42	00 36	1
15891	HD 133922	15 02.0	26 49	"	"	"	+12.8	00 43	01 45	1
15892	HD 142808	15 52.0	+27 20	"	"	"	+12.7	01 48	02 52	1
15893	HD 155839	17 09.0	+25 07	"	"	"	+12.7	02 57	03 31	1
15894	HD 164079	17 54.4	+27 59	"	"	"	+12.7	03 36	04 23	1
	Focus Test				O.T.B.					

Focus 12.930.

139

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 53	W 1 21	25 16	0	8.86 G0	1-1-1 fine
22 02	W 1 25	25 53	0	8.78 G5	1-1-1 fine
22 55	W 2 17	26 02	0	8.28+ G5	1-1-1 fine
23 39	W 46	24 34	0	8.58 K0	1-1-1 fine
00 20	1 <sup>W</sup> 06	24 31	0+	8.68 G5	1-1-1 good
01 45	0 <sup>W</sup> 45	+26 37	1-	8.92 K2	1-1-1 good
02 52	1 <sup>W</sup> 04	+27 11	0+	8.93 K0	1-1-1 fine
03 31	0 <sup>W</sup> 26	+25 03	0+	8.19 K5	1-1-1 good
04 25	0 <sup>W</sup> 39	+23 00	0+	8.60 G0	1-1-1 good
				4/2	APH Loaded + B
					H on M

140

Date Thurs April 28-29, 1949 Hd - L 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
15895	HD 86590	09 54.4	25 02	I-12	E103A0	008	+9.0	19 56	20 46.1	57
15896	HD 91842	10 31.2	28 18	"	"	"	+9.0	20 48	21 48.2	12
15897	HD 91855	10 31.3	26 41	"	"	"	+9.0	21 50	22 50.5	22
15898	HD 109482	12 29.9	29 38	"	"	"	+9.0	22 53	23 17.4	5
15899	HD 116329	13 17.9	26 22	"	"	"	+9.0	23 19	00 01.1	50 W
15900	" 123522	14 04.8	25 54	"	"	"	+8.9	00 05	00 39.2	42 W
15901	" 126991	14 23.8	24 59	"	"	"	+8.9	00 44	01 10.3	54 W
15902	" 142209	15 48.2	28 54	"	"	"	+8.9	01 14	01 34.4	06 E
15903A	{ " 143271	15 54.4	27 09	"	"	"	+8.9	01 38		1
	{ Focus Inst									
						OTB.				



Focus 12.930,

141

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 46	W 57	24 48	0	8.40 G <sub>5</sub> 1-1-1	AG 25 fine
21 48	W 123 <sup>n</sup>	28 01	1	8.78+K <sub>0</sub> 1-1-1	" fine
22 50	W 225	26 25	1	8.92+K <sub>0</sub> 1-1-1	" good
23 1	W 55	29 21	2	8.63 G <sub>5</sub> 1-1-1	" fine
00 2	O 50 W	26 06	2	8.91+G <sub>5</sub> 1-1- $\frac{1}{2}$	" (1/2) trap fine
00 39	O 42 W	25 40	2	9.2? K <sub>2</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" fine
01 0	O 54 W	24 45	2	8.8? K <sub>0</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" fine
01 34	O 06 E	28 45	3	8.92 K <sub>2</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" fine
		26 59	3	9.3? K <sub>0</sub> $\frac{1}{2}$ - $\frac{1}{2}$	" 8 mins. of exp. then thick
			4/2		3 P.H.s. leaked plates needed,
					H on M

focus at 12.930



August 1950

143

SET FOCUS: 12.934

CLOUDS AT STARTING TIME, CLEARING SOON  
SOME HAZE & CIRRUS (?)

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22:16	1 <sup>m</sup> 05	+25° 20'	1	8.56 KO	1-1-1 AG25
23:12	1 <sup>m</sup> 11	+25 00	1	8.84 GO	1-1-1 "
00:05	1 <sup>m</sup> 04 W	24 36	1	8.57 G5	1- $\frac{1}{2}$ - $\frac{1}{2}$ "
00:50	47 <sup>m</sup> W	25 49	2-3	8.02 KO	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " Framing slightly
01:15	45 <sup>m</sup> W	25 56	3	8.96 GO	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " need to stop
02:22	43 <sup>m</sup> W	27 06	3-2	8.93 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " need to stop
03:17	30 <sup>m</sup> W	24 56	2-3	8.85 K5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " stop
04:00	34 <sup>m</sup> W	29 41	2	8.82 M3	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " need to stop
04:24	27 <sup>m</sup> W	26 12	2	7.93 KO	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " stop

Ac M

2 PH

+4



144

Date Sat. 1949 Apr. 30 - May 1 N-L 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
15912	HD 112753	12 53.9	+28 00	1-12 $\frac{1}{2}$	E 103a0	<sup>Set</sup> 0.008	+18.7	23 12	23 40	3
15913	" 114037	13 02.7	+27 03	"	"	"	+18.6	23 46	00 18	4
15914	" 126598	14 21.4	+26 43	"	"	"	+18.7	00 37	01 07	1
15915	" 143271	15 54.4	+27 09	"	"	"	+18.5	01 23	02 23	2
15916	" 151256	16 41.2	+24 46	"	"	"	+18.6	02 26	03 32	3
	<i>Focus Test</i>					O.T.B.				

About 100 visitors; Cirrus clouds. Demonstrated 74-in.  
 Showed C (and  $\eta$ ) with 4-in. Gradually clearing.

145

Finder light found on.

Focus unchanged 12.935

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
23 46 3	1 01 W	27° 45'	0	8.26 G5	1 - $\frac{1}{2}$ - $\frac{1}{2}$	AG 25
00 5 4	1 30 W	26 47	0-1	8.36 K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
0 07 1	1 01 W	26 30	0-1	8.51 K5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
02 23 3	0 44 W	27 00	0-1	9.37 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
03 32 3	1 07 W	24 39	0-1	8.86 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" clouds <sup>02 34</sup> - <sup>03 05</sup> haze, gone at 32

$\frac{4}{2}$

1 P.H. loaded plates needed in d.m.s.  
 H. on M.

Min May 2. Haze and broken clouds  
 gone up at 2.00 A.M. L

	MC	SC	MTW	STW
May 2	-03° 0'	-1 <sup>m</sup> 17.3	+04° 5'	-0.1

146

Date *Tues May 3<sup>-4</sup> 1949*, Hd *L*, Julian Day  
Lea

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
15917	HD 91545	10 29.2	28 30	I-12	E103a0	008	+21.8	20 26	20 50	W 47
15918	HD 91348	10 27.7	28 18	"	"	"	22.0	21 08	21 54	W 152
15919	HD 97777	11 09.9	26 59	"	"	"	21.9	21 57	22 47	W 203
15920	HD 114636	13 06.7	26 54	"	"	"	22.0	22 50	23 40	W 101
15921	AG 6705	14 00.3	26 19	"	"	"	+21.9	23 45	00 49	W 16
15922	H.O. 133459	14 59.5	27 28	"	"	"	+21.9	00 52	01 10	W 38
15923	" 140913	<sup>5</sup> 14 41.4	28 47	"	"	"	+21.9	01 16	01 38	W 24
15924	" 149067	16 27.3	26 04	"	"	"	+21.8	01 42	02 14	W 14
16925	" 152264	16 47.3	29 45	"	"	"	+21.8	02 18	02 50	W 3
15926	" 155675	17 08.0	25 22	"	"	"	+21.8	02 54	03 38	W 5
	Focus Test						O.T.B.			



Focus 12.933

147

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 50	W 47	28 12	0	7.66 K0 1, 2	AG25
21 54	W 1 52	28 01	0-1	8.77 G5 1, 1, 1	"
22 47	W 2 03	26 44	1	8.98 K0 1-1-1	Bright aurora
23 40 3	W 1 01	26 38	1	8.96 K0 1-1-1	"
00 49	1 16 W	26 05	1	8.70+ K0 1- $\frac{1}{2}$ - $\frac{1}{2}$	"
01 01	0 38 W	27 16	1-2	8.27 K0 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
01 38 2	0 24 W	28 37	1-2	8.49 G0 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
02 14 3	0 14 W	25 58	1-2	8.63 K0 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
02 50 4	0 31 W	29 37	1-2	8.7? G5 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" Wind rising, seeing <sup>on target</sup> unsteady
03 38 1	0 58 W	25 17	1-0	8.8? G0 $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" Sky hazy over.
				6/4	3 P.Hs. loaded plates needed H. or M.
					from 10:30 to 11:30 - 1 hour adjustment
					Wed Mag 4/5 kg Clouds! W.m

148

Date *Sunday May 5-6 1949 N-L* 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 Ang End
15927	HD 116 232	13 17.2	+26 31	I-12 $\frac{1}{2}$	E103a0	.008	+24.0	23 03	23 55 2	4
15928	121319	13 49.7	+28 50	"	"	"	+24.0	23 39	00 19 3	04
15929	127093	14 24.3	+26 18	"	"	"	+24.0	00 25	00 55 4	041
15930	142053	15 47.3	+25 37	"	"	"	+23.7	00 56	01 32 1	020
15931	A.G. 7420	15 54.6	+28 02	"	"	"	+23.7	01 36	02 12 2	053W
15932	H.D. 152748	16 50.1	+27 45	"	"	"	+23.7	02 16	03 06 3	05W
15933	163969	17 53.8	+28 15	"	"	"	+23.7	03 12	03 58 4	043W
	Focus Test					O.T.B.				

Adjust focus. Try 12.943?

Set Focus 12.943

Cloudy early in evening;

lightning in south-east.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
00:53	0 41W	+26 17	0-1	8.0? Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 seeing variable
01:03	1 04W	+28 33	1	8.8? Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
02:53	1 04W	+26 06	1	7.79 Mo	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
01:32	0 20W	25 27	1	8.8? Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
02:23	0 53W	27 53	1	8.8? Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
03:06	0 51W	27 39	1-2	9.4? Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Haze
03:53	0 40W	28 15	1-2	9.0? G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"
					4/e	4 PHo. loaded + 4, 14 on M.
						center to magnet
						Tri, May 6/7 '49. - Clouds & some haze, generally un. eth'd. Wm





About 80 visitors. Showed by C with 74" + 5"  
 Lea showed C with 4"

p151

Focus 12.943.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 31	1 05	28 03	0	8.30+ G5	1-1-1
00 27	1 <sup>h</sup> 21 <sup>m</sup> W	29 25	0	8.96 K0	1- $\frac{1}{2}$ - $\frac{1}{2}$ Set 9. Hazy. Thin Cirrus cloud
01 21	52 <sup>m</sup> W	28 17	0	8.54 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ notes variable haze
02 35	1 <sup>h</sup> 13 <sup>m</sup> W	26 07	0	8.69 G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ Hazy, thickly, thin cirrus
03 35	1 <sup>h</sup> 08 <sup>m</sup> W	26 14	0-1	8.95 G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$
04 22	56 <sup>m</sup> W	21 40	1	8.60 G0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$
					no center exposure
					Sunday 1949 May 8-9.
					Variable cirrus clouds. H-L.

152

Date Tues May 10/11 Pa - Mc L Julian Day  
1947

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
15940	Hc 11957	11 24.9	25 52	E 12"	F1030-0	10-8	10.9	2017	2107	2
15941	105964	12 06.6	26 17	"	"	"	11.0	2111	2201	4
15942	113242	12 57.3	29 32	"	"	"	10.9	2204	2254	3
15943	123822	14 04.8	25 54	"	"	"	10.9	2258	2348	1
15944	131509	14 48.9	28 55	"	"	"	+10.9	2356	00 46	2
15945	" 143272	15 54.4	26 49	"	"	"	+10.9	00 53	01 47	3
15946	" 151369	16 41.9	26 13	"	"	"	+10.8	02 09	02 59	4
15947	" 163949	17 53.7	28 00	"	"	"	+10.8	03 03	04 09	1
	Focus Test						O.T.B			



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 07	36 <sup>m</sup> W	25 37	0	8.93 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG-25 1 wk
22 01 <sup>A</sup>	49 <sup>m</sup> W	26 01	0	8.93 G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 1 wk
22 55	53 <sup>m</sup> W	29 16	0	8.86 G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 1 wk
3 01	3 <sup>m</sup> W	25 40	0	8.91 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 1 wk
00 46 2	0 52 W	28 42	0	8.79 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 1 wk
01 47 3	0 48 W	26 41	0	8.96 K6	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " v good
02 57	1 12 W	26 07	0	8.84 G5	$1 - \frac{1}{4} - \frac{1}{4}$ " v good
04 22	1 11 W	27 59	0	9.27 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 1 wk
					$\frac{4}{2}$



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 02	1 41	25 00	0.	8437K <sub>0</sub>	1- $\frac{1}{2}$ -1 Thickening from 20 40 Cloud 23 00. 4 PH loaded Plates needed
Thurs May 12-13					Thick wisps haze all evening - Hd.

good



156

Date Saturday, May 14/15, 1949 Wm - L  
(MC?) 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
15 949	HD118658	13 <sup>h</sup> 33 <sup>m</sup> .2	+27°18'	T-12	E103a-O	SET 00B	+16.7	22 22	23 22	0 <sup>m</sup> 5
15 950	HD 132 737	14.55.6	+27°33'	"	"	"	+16.6	23 29	00 17	02
15951	" 143688	15 56.8	24 44	"	"	"	+16.6	00 51	02 55 3	149
15952	" 166683	18 06.7	29 04	"	"	"	+16.6	02 40	03 32 4	136
	Grass Sat					O.T.B.				

L, W & MC showed ~75 <sup>permanent</sup> visitors to thru 74",  
 misc views thru 4"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 22	0 <sup>W</sup> 59	+27 03	0 !	8.61 G5	1-1-1	AG25 <span style="color:red">too weak</span>
00 7	1 02 W	27 21	0	8.61 K0	1- $\frac{1}{2}$ - $\frac{1}{2}$	AG25 <span style="color:red">good</span>
02 15	1 49 W	24 36	0	9.7? K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" <span style="color:red">fine</span>
07 10	0 36 W	29 03	0-1	8.9? G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" <span style="color:red">clouds</span>
					4/2	4 PHs loaded + 8 <span style="color:red">head on mirror</span>

158

mon  
Date <sup>✓</sup> May 16 - 17 1949

L

Mc

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	How Long End
15953	HD 109292	12 25.5	25 00	I-12-	E103a0	0.008	+20.7C	21 17	22 01	1 0 50
15954	HD 117555	13 26.4	25 44	"	"	"	+20.7	22 17	23 01	2 0 33
15955	HD 126970	14 23.7	29 43	"	"	"	+20.6	23 13	23 35	3 0 23
15956	HD 142419	15 49.4	29 46	"	"	"	+20.6	23 58	00 32	4 0 01
15957	HD 143705	15 56.9	29 13	"	"	"	+20.4	00 36	01 16	1 0 36
15958	HD 150431	16 35.9	25 44	"	"	"	+20.4	01 29	02 13	2 0 56
15959	HD 163077	17 49.2	25 01	I-12 <sup>+</sup>	"	"	+20.6	02 27	03 07	3 0 36
<del>15960</del>	<del>AG 9236</del>	<del>18 43.3</del>	<del>28 19</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>+20.4</del>	<del>03 22</del>		<del>4</del>
	Focus Test						O.T.B.			



start delayed

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
26 0	0 50W	24 44	1	8.70 MO	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG 25 = H121	weak
27 0	0 53W	24 10	1-2	8.9? G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "	fine
28 13	0 29W	29° 19'	1-2	8.17 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "	fine
00 32	0 01W	29 36	2	8.92 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "	good
01 0	0 36W	29 04	2	8.9? G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "	fine
02 0	0 56W	25 37	2	8.82 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "	good
	0 36W	25 00	2	8.8? K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " "	weak
			2	9.3 G0	" " " "	fine
					$\frac{1}{2} - \frac{1}{2}$ 4 plate holders loaded - plates not heat on mirror.	OK

160

Tues

Date

May 17-18, 1949

Hd

Mi - Ba

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 Angl End
15960	100993	11 32.3	25 58	I-12	E10300	.008	+23.3	20 30	21 54	1
15961	114037	13 02.7	27 03	I-12	E10300	.008		22 20		2
	hour test								OTB	2
	114037	13 02.7	27 03	I-12	E10300	.008	23.1	23 33		2
15962	HD 139550	15 33.7	25 57	"	"	"	23.1	00 57	01 00	3
15963	147487	16 17.2	27 36	"	"	"	23.1	01 04	01 48	4
15964	151538	17 13.2	25 07	"	"	"	23.1	01 53	02 35	5
15965	163949	17 53.8	25 15	"	"	"		02 39	03 09	6

Focus 12.945

161

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2157	1 43 W.	25° 44'	0	8.49 G <sub>0</sub>	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ Clouds and haze
				8.36 K <sub>0</sub>	$\frac{1}{2}$ set 5 Clouds between plates + after
073					4/2 set 9
	2 <sup>h</sup> 29 W	26 48	1	8.36 K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ Set 1
	43 W	25 47	1	8.84 G <sub>5</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ Sp. ...
01 48 A	53 W	27 28	1-2	8.96 G <sub>0</sub>	Haze, ...
02	43 W	25 05	2-	8.81 G <sub>5</sub>	Occasional cirrus cloud.
03		29 15	1	8.81 G <sub>5</sub>	Haze & Cloud.
					2 PH Horiz

Very weak  
Focus Ch. L. L. Visible  
Weak  
guiding!  
fine  
guiding!  
good



162

May

Date

Fri <sup>✓</sup> 3/20 - L En

Julian Day

1942

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
15966	4C 104589	11 57.6	25 54	"	103-D	.008	16.0	20 30	21 30	4
15967	115103	13 09.9	29 55	"	"	"	16.0	21 34	22 24	1
15968	123877	14 05.1	26 18	"	"	"	16.0	22 27	23 22	2
15969	134680	15 06.1	27 48	"	"	"	16.0	23 26	00 20	3
15970	" 143313	15 54.6	25 52	"	"	"	15.8	00 43	01 37	4
15971	" 156454	17 12.6	26 41	"	"	"	15.8	01 51	03 03	1
15972	AG 8898	18 21.9	29 21	"	"	"	15.8	03 17	04 07	2
	June Test									
					O.T.B.					

Sat

Mon

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 <sup>h</sup> 06 <sup>m</sup> W	25 37	0	8.84 K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ AC-25
222	47 <sup>m</sup> W	29 40	0	8.79 G0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ "
2322	46 <sup>m</sup> W	26 05	0	8.92 K5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ "
00 29 <sup>7</sup>	0 48 W	27 36	0	8.93 K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ "
01 37 <sup>4</sup>	1 17 W	25 42	0	8.91 K5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ "
03 03 <sup>1</sup>	1 25 W	26 37	0-1	9.4? G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ "
04 07 <sup>2</sup>	1 20 W	29 22	0-1	9.0? K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ "
					4-2 $\frac{1}{2}$
<p>3 PHs loaded box of plates needed. H on mirror.</p>					
<p>Sat May 21-22, 1949 About 40 visitors Hd. Mt. showed by with 74" Thickening up.</p>					
<p>Mon? (April 23. <math>\overline{MTW}</math> <math>\overline{STW}</math> -0.30 -0.7</p>					
<p>Mon May 23-24 Some breaks in evening but mostly cloudy</p>					

lt weak

good

weak

lt weak

good

fine

lt strong

few OK





Passing clouds earlier in wake of  
cold front.

165

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2303	<del>26</del> 45	24 35	0	7.56 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ - forget to pull slide just time <sup>fully guided!</sup> to pull
2307	28	24 36	0	8.16 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
0002	40 W		0	8.22 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
0007	54 W	26 34	0	8.70 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
0012	1 12 W	29 13	0	8.84 K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
0017	1 14 W	30 57	0	8.84 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
0024	20 W	30 12	0	7.77 K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
					4 RH + +      Focus test.
					May 26      MW STW +0.55 -0.7
					May 26-27 Sky overcast with rain.



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS								
2-2		+28 11	0-	7.58 K <sub>0</sub>	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	Clouds, a few stars								
6-6	0120 W	+26 11	0-	8.72 G <sub>5</sub>	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	0200 stars								
								<p>Yr. Ch. slightly red 2 P H. +4</p> <p>May 27</p> <table style="display: inline-table; vertical-align: middle;"> <tr> <td>MC</td> <td>-5C</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>-18.15</td> <td>+0243</td> <td>+09.15</td> <td>0.0</td> </tr> </table>	MC	-5C	MTW	STW	-18.15	+0243	+09.15	0.0
MC	-5C	MTW	STW													
-18.15	+0243	+09.15	0.0													



168

L - Gr Mc

Date Friday May 27-28 1949 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
15982	HR 107725	12 17.6	+ 27 09	T. 12 $\frac{1}{2}$ "	E 103a-D	SET .008	+ 11.5	20 53	21 43	27 W
15983	" 118658 118825	13 33.2 <del>34.2</del>	27 18 <del>24 45</del>	"	"	"	+ 11.6	21 46	22 30	53 W
15984	" 130766	14 44.9	25 35	"	"	"	+ 11.6	22 33	22 53	10 W
15985	" 132524	14 54.5	25 27	"	"	"	+ 11.6	22 56	23 18	25 W
15986	" 142929	15 52.2	25 28	"	"	"	+ 11.6	23 33	00 19	9 W
15987	" 150087	16 33.7	27 35	"	"	"	+ 11.6	00 29	01 15	W
15988	BD 26° 3039 <del>159979</del>	17 28.8 <del>29.9</del>	+26 50 <del>26 46</del>	"	"	"	+ 11.6	01 35	02 24	17 W
15989	172132	18 33.4	28 58	"	"	"	+ 11.5	02 31	03 05	3 W
15989F				Focus test						
				OTB.						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 43	1 27 W	26 54	0	8.93 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25 Wash
22 30	0 53 W	27 03	0	8.8? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Wash
22 53	0 10 W	25 22	0-1	8.06 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" fine
23 8	0 25 W	25 15	0-1	8.19 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" good
0 9	0 29 W	25 19	0-1	8.97 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" behind Me accidentally marked 15987 on plate next marked (15987 ←) on plate in case
0 5	1 44 W	27 28	0-1	8.89 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" poorly guided
0 26	1 57 W	26 41	0-1	9.7 G <sub>0</sub> <del>2.96 K<sub>0</sub></del>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" many stars in field. too weak
1 5	2 34 W	29 00	0-1	8.37 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" haze. too weak
						clouding up rapidly at 03 00. Me
						0 ph. loaded focus OK
						heat on mirror first focussed no good
						there was sparking from the bridge cot. during unloading of some of the plates Me







172

Date Sunday May 29-30/49 L-Ma-Gr 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 Ang End
15991	HD. 109012	12 26.5	27 38	I-12 $\frac{1}{2}$	F1080-D	set .008	+13.4	20 48	21 56	3
15992	" 122796	13 58.9	27 58	"	"	"	+13.4	21 59	22 23	4
15993	" 129357	14 37.0	29 30	"	"	"	+13.3	<sup>22</sup> 21 28	23 00	1
15994	" 135145	15 08.5	28 19	"	"	"	+13.2	23 06	23 40	5
<del>15995</del>	" 139007	15 30.5	25 20	"	"	"	+13.3	23 44	00 30	09
15996 <sup>5</sup>	" 150889	16 38.8	+26 02	"	"	"	+13.3	00 37	00 57	0 28
15997 <sup>6</sup>	" 155678	17 09.2	28 04	"	"	"	+13.3	01 01	01 43	6 43
15998 <sup>7</sup>	" 162901	17 48.3	25 00	"	"	"	+13.2	02 05	02 43	7 4
15999 <sup>8</sup>	AG 9449	18 55.5	29 28	"	"	"	+13.0	02 52	03 30	10 4 6
	{ Focus Test			OT 5						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 56	1 38W	27 21	0	9.3? K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25 seeing improving <span style="color:red">too strong</span>
22 23	0 33W	27 44	0-1	8.2? G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">strong</span>
23 00	0 33W	29 17	0-1	8.3? G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">strong</span>
23 47	0 41W	28 07	0-1	8.6? G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">fine</span>
00 21	1 09W	25 09	0-1	8.9? G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" slide not closed when hot lens closed <span style="color:red">strong</span>
00 57	0 28W	25 54	0-1	8.0? K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">good</span>
01 4	0 43W	27 59	0-1	8.8 G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">fine</span>
02 13	1 07W	24 52	0-1	8.7? K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">no strong</span>
02 50	1 09W	29 31	0-1	9.2? G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <span style="color:red">strong</span>
					4 - 2 $\frac{1}{2}$	<span style="color:red">strong OK</span>

4 PR. + 4

4 on 1)





Focus 12.944

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Declination clamp sticking at first

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 05	1 16 W	28 00	2-1	9.1? E5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ ACIS
22 05	1 00 W	28 00	2-1	8.91 E5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Excellent source. The amount of data is not too good
22 05	1 41 W	28 05	2	8.92 K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ working slightly
22 05	1 47 W	27 42	2-1	8.77 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Aurora very bright in field
22 05	0 37 W	27 16	2-1	8.78 K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
22 05	0 48 W	26 33	2-1	9.0? K <sub>1</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
22 05	0 49 W	25 34	1-0	8.8 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 1st exposure = 37 good
22 05	1 1 W	27 02	1-0	8.9 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
22 05	0 44 W	28 35	0	8.7 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
22 05	0 20 W	27 36	0-1	7.6 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
					2 P.H. loaded. Fine OK
					H.O.M. Good work.



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Date *Tues May 31 June 1 / 49* S-L-Gr Julian Day

Plate No.	Object	R.A.		Declination		Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
		1900	1950	1900	1950							
16009	NGC 5272	13	39.9	+28	38	NEWT	103aD			21 17	21 20	1 00 E
16010	" 5024	13	10.5	18	26	"	"			21 24	21 27	2 035 V
16011	" 4147	12	07.6	18	49	"	"			21 31	21 43	1 54 W
16012	" 6229	16	45.6	47	37	"	"			21 52	21 54	2 233 E
16013	" "	"	"	"	"	"	"			21 56	22 00	1 216 E
16014	" "	"	"	"	"	"	"			22 12	22 24	2 02 E
16015	" 5634	14	27.0	-5	45	"	"			22 52	22 40	1 50 W
16016	" 5904	15	16.0	+2	16	"	"			22 54	22 50	2 00
16017	" 6229	16	45.6	47	37	"	"			23 04	23 10	2 15 E
16018	" "	"	"	"	"	"	"			23 20	23 22	2 14 E
16019	" 6205	16	39.9	+36	33	"	"			23 35	23 37	2 10 E
16020	" 6229	16	45.6	47	37	"	"			23 44	23 50	2 10 E
16021	" "	"	"	"	"	"	"			23 50	00 10	2 06 E
16022	" 5634	14	27.0	-05	41	"	"			00 21	00 35	2 00 W
16023	" 3897	15	14.6	-20	49	"	"			00 39	00 49	1 54 W
16024	" 6218	16	44.6	-1	52	"	"			00 59	01 02	1 52 W



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 27	0 01 E	28 42	<i>fair</i>		<i>Focused on ε Virginis.</i>
21 27	0 35 W	18 30			
21 47	1 54 W	18 54			
21 47	2 33 E				
21 47	2 16 E				
22 11	2 02 E				
22 11	3 39 W	-05 39			<i>Focused on δ Serpentis</i>
22 11	0 00	102 21			<i>Exposed through glass!</i>
22 11	1 08 E	+47 41			
22 11	0 54 E	+47 41			<i>Exposed through glass!</i>
22 11	0 43 E	+36 57			
22 11	0 30 E	147 41			
0 1	0 16 E	"			
0 1	2 28 W	-05 39			
0 1	1 54 W	-20 44			
0 1	0 37 W	-01 47			<i>Focused on δ Ophiuchi</i>



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 08	0 33 W	-03 58			
01 18	0 21 W	-18 23			
01 34	0 33 W	-17 41			
01 43	1 48 W	-22 45			
01 58	0 56 W	-18 24			
02 02	1 29 E	+18 43			
02 04	0 44 E	+30 11			
02 39	0 51 W	-07 12			
02 53	0 22 W	-08 42			
03 01	0 30 E	+18 42			
03 08	2 02 E				1 min. unguided
03 15	1 13 W	-24 52			1 min unguided
					Jewel
					MTC STC
					-21.3° -00.9°
					<u>MW STW</u>
					-8.8° +0.1 <sup>m</sup>



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Date Wed. June 1-2, 1949 S-L-Gx Julian Day

Plate No.	Object	R.A. 1900 <sup>50</sup>	Declination 1900 <sup>50</sup>	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour And End
16037	NGC 5272	13 39.9	+28 38	HEWT	103 <sub>20</sub>			21 20	21 22	1 0 25
16038	" 5024	13 10.5	+18 26	"	"			21 25	21 27	2 0 40
16039	" 4147	12 07.6	+18 49	"	"			21 30	21 38	1 0 33
16040	" 5634	14 27.0	-05 45	"	"			21 44	21 56	2 0 08 E
16041	" 6229	16 45.6	+47 37	"	"			22 06 <sup>30</sup>	22 18	1 2 4 E
16042	" "	"	"	"	"			22 20	22 21	2 0 54 E
16043	" 5904	15 16.0	+2 16	"	"			22 33	22 55	1 0 8 E
16044	" 5634	14 27.0	-05 45	"	"			22 59	22 51	3 47 W
16045	" 5024	13 10.5	+18 26	"	"			22 55	22 57	1 0 W
16046	" 6229	16 45.6	+47 37	"	"			23 05	23 17	2 0 5 E
16047	" "	"	"	"	"			23 18	23 24	1 0 58 E
16048	" "	"	"	"	"			23 26	23 28	2 0 54 E
16049	" 6205	16 39.9	36 53	"	"			23 32	23 33	1 2 3 E
16050	" 6229	16 45.6	47 37	"	"			23 39 <sup>30</sup>	23 49 <sup>30</sup>	2 0 2 E
16051	" 6218	16 44.6	01 52	"	"			00 00 <sup>30</sup>	00 02 <sup>30</sup>	1 0 9 E
16052	" 6234	16 51.5	-04 02	"	"			00 06	00 08	0 2 4 E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 22	0 05 W	28 44	fair		Some Focused on $\epsilon$ Virginis
2 27	0 40 W	18 30			light
2 37	1 53 W	18 53			series
2 56	0 08 E	-05 42			clouds
2 15	2 04 E	+47 42			← Focused on $\zeta$ Herculis
2 20	1 54 E	+47 42			
2 25	0 18 E	+02 20			
2 30	0 47 W	-5 35			
2 57	2 10 W	18 32			
3 07	1 05 E	+47 42	good		
3 11	0 58 E	"			
3 16	0 54 E	"			
3 23	0 43 E				
3 30	0 32 E	47 42			Focused on $\kappa$ Ophiuchi
3 37	0 19 E	-01 48			
3 43	0 24 E	-03 53			

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Date June 1-2 Cont.

Julian Day

Plate No.	Object	R.A. 1900 <sup>50</sup>	Declination 1900 <sup>50</sup>	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16053	NGC 5897	-15 19.6	-20 49	Newt	E-103a-0			00 13	00 51	1 30W
16054	" 6426	17 42.4	+03 12	"	"			00 27	00 51	2 15E
16055	" 6333	17 16.2	-18 28	"	"			00 55 <sup>30</sup>	01 01	0 09W
16056	IC 1276	18 08.4	-07 15	"	"			01 07	01 27	2 08E
16057	NGC 6779	19 19.6	+30 05	"	"			01 32	01 35	1 15E
16058	" 6838	19 51.3	+18 38	"	"			01 39	01 42	2 15E
16059	" 6093	16 14.1	-22 52	"	"			01 50	01 53	1 08W
16060	" 6333	17 16.2	-18 28	"	"			01 55 <sup>30</sup>	02 01 <sup>30</sup>	2 08W
16061	" 6235	16 50.4	-22 06	"	"			02 05	02 29	1 24W
16062	" 6287	17 02.0	-22 40	"	"			02 34	02 44	2 00W
16063	" 6712	18 50.3	-08 47	"	"			02 47	02 55	1 29W
16064	" 6838	19 51.3	+18 38	"	"			02 59	03 02	2 18E
16065	" 7089	21 30.9	-01 03	"	"			03 02 <sup>15</sup>	03 05 <sup>15</sup>	1 01E
16066	" 6626	18 21.5	-24 54	"	"			03 13 <sup>30</sup>	03 15 <sup>30</sup>	1 15W
16067	" 6656	18 33.3	-23 58	"	"			03 17 <sup>15</sup>	03 18 <sup>15</sup>	2 08W



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
00 00	1 30 W	-20 45			
00 50	0 28 E	+03 16			
01 00	0 09 W	-18 22			
01 30	0 18 E	-07 10			<u>R.A. 18 07.5</u>
01 35	1 16 E	+30 10			
01 42	1 45 E	+18 42	poor		7 crossed on 5 Ophiuchi
01 55	2 02 W	-22 44			possibly numbered 16060
02 00	1 08 W	-18 21	poor		number followed by *
02 05	2 02 W	-21 58			20 <sup>5</sup> Dec trail
02 44	2 06 W	-22 34			
03 55	0 29 W	-08 42	poor		
04 02	0 26 E	-18 44			
04 00	1 57 E				unguided
03 00	1 15 W				
03 00	1 08 W				unguided

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Date Thursday 7/3 Pa - Mc

Julian Day

1949

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
16068	HD 115762	13 14.2	25 08	T 12"	100-0	"	23.0	20 42	21 38 <sup>3</sup>	12
16069	124019	14 05.9	28 05	"	"	"	23.1	21 41	22 27 <sup>4</sup>	13
16070	133459	14 59.5	27 28	"	"	"	23.1	22 30	23 00 <sup>1</sup>	20
16071	136274	15 14.7	26 04	"	"	"	23.1	23 03	23 29 <sup>2</sup>	4
16072	142578	15 52.0	27 20	"	"	"	23.1	23 34	00 16 <sup>3</sup>	50
16073	147774	16 30.0	25 41	"	"	"	23.1	00 19	00 59 <sup>4</sup>	30
16074	159479	17 29.9	26 46	"	"	"	23.2	01 13	01 51 <sup>1</sup>	11
16075	169819	18 21.4	25 56	"	"	"	23.2	01 06	02 11 <sup>1</sup>	10
16076	180502 <sup>2</sup>	19 11.7	28 58	"	"	"	23.0	02 51	03 20	14
	188258	19 42.2	27 50	"	"	"				
				Focus test					O.T. B.	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:26	48° W	24 53	0-	8.97 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Arc 25 RA <sup>fine OK</sup> guiding not working.
21:27	46° W	27 53	0	8.79 G5	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ good
23:0	26° W	27 17	0	8.27 K0	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ good
23:29	4° W	25 52	0-1	8.30 G0	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Seeing variable good
23:41	50° W	27 12	0-1	8.92 K0	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ AF 25 guiding! good
00:59	54° W	25 35	1-2	8.84 K2	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ work
	1° W	26 43	1-2	8.96 K0	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ work
	4° W	25 50	1-2	8.72 K0	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ work
01:00	34° W	29 03	1-2	8.33 G0	" $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ haze " poor guiding!
			1-2	7.79 K2	" haze " "
					plate not kept. 2 p.h. loaded + 8 from Red NG.











Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2234	0143	24 35	0	9.2 <sup>through</sup> GS	<p>Hazy &amp; cloudy (light cirrus) Clouds gone by 2000 but still hazy  <math>\frac{1}{2} - \frac{1}{2}</math> <math>\frac{1}{2} - \frac{1}{2}</math>  Fore exposure for post, 0.2 mag. added due to  because of haze; periodically bright <sup>W. side</sup>  Focus test in view at night, failure to move <sup>sp. cl. v. l. early?</sup>  prisms northward  Clouding over, sky generally cloudy  4 P.M. loaded 9 in ref. eq.  H. ON M. Closed down 2250.</p>
					<p>June 6      M.C.    S.C.      M.T.W.    S.T.W.                   -25.0<sup>s</sup> -14.4<sup>s</sup>    -29.8<sup>s</sup>    0.0</p>

Date Monday June 6-7 1949 Ma - Gr 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
16079	H.D. 115929	13 15.2	+28 38	I 12 1/2"	103a-0	008	22.0	20 48	21 19	1 14 W
16080	" 121844	13 52.9	+25 31	"	"	"	22.0	21 23	22 07	2 55 W
16081	" 127045	14 29.9	+28 55	"	"	"	22.0	22 13	22 35	3 06 W
16082	H.D. 140383	15 35.2	+29 57	"	"	"	21.8	22 59	23 39	4 24 W
16083	" 147980	16 19.9	+28 37	"	"	"	21.7	23 42	24 19	5 04 W
16084	" 154183	16 58.8	+25 48	"	"	"	21.8	00 00	00 54	6 36 W
16085	" 160678	17 36.2	+29 18	"	"	"	21.5	00 59	01 37	7 24 W
16086	" 168622	18 15.6	+27 28	"	"	"	21.4	01 42	02 32	8 58 W
16087	" 182056	19 17.8	+30 11	"	"	"	21.4	02 39	03 10	10 34 W
16088	" 190605	20 00.7	+25 47	"	"	"	21.4	03 14	03 50	12 31 W
	Focus test			O.T.B.						



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Try increasing focus to 12.954 (from 12.944)

Focus set at 12.354

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 19	0 44 W	+28 22	0-1	8.5? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ seeing variable good
22 07	0 55 W	+25 15	0-1	8.9? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " improving slightly (extra 16" or so)
22 51	1 06 W	+28 43	0-1	8.9? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ RA clamp didn't work - clamping hard good
23 39	0 42 W	+29 47	1	8.9 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ RA clamp O.K. weak
23 50	0 19 W	+28 30	0-1-2	7.8? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ weak
00 54	0 36 W	+25 43	0-1	9.1? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
01 37	0 42 W	+29 15	0-1	8.7 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ good
02 32	0 58 W	+27 29	0	8.9 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ weak
03 10	0 34 W	+30 15	0	8.4 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ weak
03 59	0 31 W	25 50	0	8.7? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine

2 P.H. loaded + 4 In refrig  
M. or M





From 12.954

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 52	0 56 W	27 29	0-	8.76 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ A.G. 25	Seeing poor! H. on M.
23 06	1 21 W	24 36	0-	8.68 G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "	Lost time in mistaking the star. weak
01 03	1 19 W	25 15	0	8.84 G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "	good
01 08	1 01 W	28 11	0	8.8 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Seeing 0+ for short time. 10 min added exp. because of drifting closed. good
02 05	1 00 W	25 38	0-	8.8 G	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	good
03 05	0 50 W	29 13	0-1	8.9 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Exposure too strong!
03 05	0 46 W	27 56	0	8.7 K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Exposure too strong!

H. on M. focus slightly weak

2 P.H. loaded + 8 plates in refrig.

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Date *Wed June 8-9/49 L-Mc*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16096	H.D. 121184	13 48.8	24 40	I-12 $\frac{1}{2}$	E-103a-0	Set .008	+15.9	21 00	22 00 5
16097	" 134282	15 03.9	27 05	"	"	"	+15.9	22 04	23 04 4
16098	" 149132	16 27.7	29 49	"	"	"	+15.8	23 08	23 56 1
16099	" 154049	16 58.1	25 17	I-12	"	"	+15.9	00 03	00 58 2
16100	165473	19 21.1	29 04	"	"	"	+15.7	01 17	01 59 3
16101	<del>AG 9236</del>	18 43.3	28 19	"	"	"	+15.8	02 14	03 40
	Wrong star - close companion to AG 9236			<i>new test</i>				O.T.E.	



Focus 12.954

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2200	1 00 W	24 26	0	8.96 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ A.G. 25	Seeing poor! H weak
2200	0 50 W	26 55	0	8.63 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "	H strong
2200	0 19 W	29 44	0	8.70 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "	fine
2200	0 52 W	25 06	0	8.70 K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "	fine
2200	0 44 W	29 04	0	8.4 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " "	mag. from chart. haze fine
2200	1 15 W	28 21	0	9.5 G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ H-2 $\frac{1}{2}$	" " " " " " " " very faint, sh. hard to guide.

H P.H. loaded, plates needed.

H on mirror no fuse wire.



Focus

12.955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:00	0 55 W	+26 11	0-1-2	8.8? G <sub>5</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ A few thin cirrus overhead - bank moving in <sup>good</sup>
21:00	0 56 W	+28 36	1-2	8.6? G <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ from western horizon. 21:00 clouds passed <sup>fine</sup>
23:00	1 04 E	+27 20.	2-3	8.5? K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ over from 21:38. To 21:50 - 21:10 haze <sup>fine</sup> clouds at 22:40 clear spaces. 23:30 clouds solid! Forgot to take focus test. 1 P.H. Loaded in refrig. with one opened box of plates (12)



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Date Friday June 10-11, 1949 HL-GY Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16105	HD 119944	13 41.3	27 43	I-12	E103a0	008	23.0	20 51	21 45 4
16106	HD 131509	14 48.9	28 55	"	"	"	23.0	21 48	22 28 1
16107	HD 136274	15 14.7	26 04	"	"	"	22.8	22 30	23 06 2
16108	HD 136231	15 14.4	26 09	"	"	"	22.0*	23 08	23 46 3
16109	HD 150567	16 36.8	29 06	"	"	"	21.8	23 48	00 09 4
16110	" 155675	17 08.0	25 22	"	"	"	22.8	00 20	00 50 1
16111	" 163331	17 50.5	27 37	"	"	"	22.8	00 54	01 44 2
16112	AG 8824	18 16.1	26 28	"	"	"	22.8	01 18	01 48 3
16113	HD 175036	18 48.4	26 24	"	"	"	22.8	01 51	02 23 4
16114	" 183753	19 25.9	28 31	"	"	"	22.8	02 27	03 00 5
16115	190630	20 00.8	30 14	"	"	"	22.8	<sup>03</sup> 04 <sup>03</sup> 04	<sup>03</sup> 04 <sup>03</sup> 41
	Focus Test		O.T.B.						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:45	W 1 00	27 29	0-1	8.76 K <sub>0</sub>	1-1-1 Haze good
22:21	W 0 36	28 41	1	8.79 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ guiding lt string
23:06	W 0 48	25 54	1-2	8.30(+.4) G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ string
23:46	W 1 29	25 57	3	8.96+ G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Temp. control closed working and for slide need cleaning to maintain balance. Difficult
00:09	O 31 W	29 00	3	8.75 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ slide closed then opened for best comp. No
00:50	O 39 W	25 18	2	8.9? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ string
01:14	O 21 W	27 37	2-3	8.64 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ lt string
01:41	O 30 W	26 29	3	9.3? K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ lt weak
02:23	O 32 W	26 28	2	8.77 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ fine
02:58	O 32 W	28 36	2	9.0? K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ possibly numbered 160119 fine
03:09	O 39 W	30 22	2-3	9.3? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ focus OK fine

2. P.H. loaded. Platea needed!  
(in Refrig)

Heat on Mirror



200

Date Saturday, Dec 14/12 Pa-L

1942

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
16114	AD 137689	15 22.3	28 27	" 12"	1030-0	"	27	22 33	22 47	3
16117	141697	15 45.3	25 46	"	"	"	27	22 52	23 20	4
16118	145399	16 05.5	27 14	"	"	"		23 27	00 03	1
16119	" 151780	16 44.4	26 46	"	"	"	+27.2	00 06	00 28	2
16120	" 159608	17 30.5	29 49	"	"	"	+27.1	00 32	01 10	3
16121	" 166070	18 03.9	27 23	"	"	"	+27.1	01 18	01 56	4
16122	AG. 9486	18 57.3	26 15	"	"	"	+27.0	01 59	02 53	1
	Grassfield				O.T. B					



100 miles  
 200 miles  
 500 miles  
 NCC 5194 "with 74"  
 "4"  
 201

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:45	26° W	28 17	2-3	9.59 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ AG25 slight K <sub>2</sub> in haze good
2:52	36° W	25 39	2-3	8.82 C5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " good
3:01	0 59 W	27 06	2-3	8.93 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " good
3:08	0 45 W	26 41	2-3	8.83 K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " haze lt weak
3:13	0 41 W	29 47	2-3	9.4? M0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " lt weak
3:18	0 54 W	27 23	2-3	9.2? K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " some light clouds good
3:25	0 57 W	26 19	3-2-1	9.5? K0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ " wind rising, sky thickening, good $\frac{4}{2\frac{1}{2}}$ centre slightly de K <sub>2</sub> light
					3 FHs L <sub>2</sub> +4 in refrigerator no heat in mirror.

202

Date 1949 June 12/13 Mi-Mo  
Sunday

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16123	HD 122693	13 58.3	+25 03	F-12	E703a0	.008	28.2	2050	2102
16124	124019	14 05.9	28 05	"	"	"	28.2	2110	2126
16125	127357	14 37.0	29 30	"	"	"	28.3	2131	2143
16126	131509	14 18.9	28 58	"	"	"	28.2	2149	2205
16127	134680	15 06.1	27 48	"	"	"	28.0	2209	2233
16128	137550	15 23.7	25 57	"	"	"	28.1	2243	2301
16129	140272	16 38.0	25 41	"	"	"	28.0	2325	2351
16130	153698	16 55.9	27 29	"	"	"	28.0	2355	2421
16131	" 158521	17 24.7	26 49	"	"	"	28.0	00 25	00 55
16132	164079	17 54.4	27 59	"	"	"	28.0	00 59	01 41
16133	AG 96119	18 33.5	26 06	"	"	"	28.0	01 44	02 20
16134	HD 185782	19 36.7	27 29	"	"	"	27.9	02 32	02 56
16134P	{ 189796 Ferrostat	19 51.7	29 33	"	"	"	27.1	03 00	03 46
								O.T.B.	



Monday June 13 : 50 vicinas (cluster group)  
Griffin

Set slit .008 203  
Micr. setting 12.955

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21.2	0 09 W	24 46	3	7.9 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Trouble with focus. E. pr. <i>too wide</i>
21.26	0 25 W	27 51	3	5.7 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>too wide</i>
21.3	0 11 W	29 16	3	8.3 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>lt wide</i>
22.5	0 21 W	23 42	3	8.7 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>lt wide</i>
22.32	0 32 W	27 36	3-2	8.9 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>wide</i>
22.6	0 53 W	25 41	2-1	9.0 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>good</i>
23.9	0 26 W	25 52	2-1	8.6 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>being almost focus, lt wide</i>
24.2	0 31 W	27 23	2-3	8.7 M <sub>3</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>lt wide</i>
24.5	0 36 W	26 45	2	8.7 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>Some haze, good</i>
24.11	0 51 W	27 59	2	9.0? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>fine</i>
24.22	0 51 W	26 09	2-3	9.1? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>good</i>
24.5	0 25 W	27 37	3	8.8? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ <i>good</i>
25.1	0 56 W	29 42	2-3	9.4? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Put focus test on top of star spectrum 4-2 $\frac{1}{2}$ <i>focus OK</i>
					<i>4 P.H. Local in ref. New box of, later needed 2 black cross in ref.</i>



204

Date *Sat June 18-19, 1949 142-14C*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16135	HD 43313	15 54.6	25 52	I-12	E103a0	008	+23.0C	22 32	23 01
16136	HD 15720	15 49.2	25 15	"	"	"	+26.3C	00 17	00 52
16137	HD <u>167781</u>	15 46.8	11.7 +27 09 21 04	"	"	"	+26.0C	01 13	01 37
16138	HD 168030	18 12.0	21 08	"	"	"	+26.0C	01 51	02 27
16139	HD 170737	18 25.9	26 33	"	"	"	+26.0C	02 32	03 03
16140	AE 11546	20 33.4	29 50	"	"	"	+26.0C	03 16	03 40
	<i>W. side of</i>								
							<i>Outside Thru</i>		<i>Phase</i>

949 June 16-17 Thursday Ga-Ma  
 Generally cloudy all night  
 with shower at 24.00

Jun. 16 MC -33.2 SC -28.3

MTW +06.6 STW -0.7

205

Sat June 18-19 50 Visions. Max 17C  
 showed M5 with 74" h with 5"  
 h + doubles with 4" + milku way

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2.1	5 W	-25 45	1	8.91 + K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG 25 clouded out about 3.00. <i>l. weak</i> 23.45 intermittent loads. Holes in cloud. 23.55 clear. trouble with dome turning.
6.0	0 25 E	-25 28	0-1	8.56 G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG 25 <i>poor guiding</i>
1.1	2 50 W	+27 10	0-1	8.4 F5 8.8 G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " wrong star! <i>very poor guiding</i>
1.0	1 14 W	+27 05	1	8.8 G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " <i>l. weak</i>
13.0	11 W	+26 38	1-2	8.75 G5	$2 \frac{1}{2} - \frac{1}{2}$ " <i>too weak</i>
2.0	0 37 W	-30 01	1-2	8.73 G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " very light when finder chart made $4 \frac{1}{2} - \frac{1}{2}$ <i>circle sl. to violet</i> <i>too weak</i>







Focus 12.955  
Slit -008

207

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 52	0 58 W	+25 21	0-1	8.7? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25 too weak
22 24	0 38 W	+28 14	0-1	8.4? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" weak
23 03	0 29 W	+26 08	0-1	8.64 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" weak
23 36	0 32 W	+27 08	0-1	8.42 M <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" weak
00 15	0 45 W	+26 35	0	8.63 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" too weak
01 05	0 59 W	+24 47	0	8.68 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Hazy too weak
02 04	1 03 W	+28 15	0	8.91 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" weak
02 50	0 51 W	+27 18	0-1	9.0? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" l. weak
03 44	0 45 W	+29 19	0-1	8.7? K <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" l. weak

focus 12.955

4 P.H. loaded +9.















slit .008 213  
 focus 12.964

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 53	0 53 W	+25 28	0	7.7? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG 25. Added 1 mag for size.
23 01	1 18 W	+25 56	0	8.8? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " 0.5 " " "
23 42	0 39 W	+28 12	0	7.8? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " 0.5 " " " " " " " "
00 41	1 03 W	+26 50	0	8.7? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " 0.2 " " " "
01 51	1 15 W	+26 18	0	9.0? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " 0.2 " " " "
02 57	1 04 W	+26 57	0	9.0? G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " 0.2 " " " "
03 41	2 48 W	+28 04	0-1	8.8? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " " " " " "

3 P.H. loaded. Box of plates needed

Jan. 23      MC      SC      MTW      STW  
 -41.6      -28.0      +20.4      +0.3









Check if desk light turned out on switch  
downstairs. Desk light OK.

217

Mer. obj. 12.962

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0315	2 04	30 00	0	8.0 K <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Add 2 mag. for large effect. Obscured by haze for part of the time. Finally completely obscured by cloud. Motion in R.A. by hand wheel somewhat stiff. 1 P.R. loaded. Plates needed
					Check if correct star







220

Date Sunday June 26-27 1949 Mi - Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure hr
16162	HD 152035	16 45.9	+26 23	T 72	F 103a0	-008	+29.0°C	2 25 1	2 35 31	7
16163	152035	16 44.6	+29 27	"	"	"	+29.1°C	2 35 7	0 41 7	3
16164	170737	15 21.7	26 36	"	"	"	+27.0°C	0 32	1 40	-
16165	168038	18 12.8	27 04	"	"	"	+29.0°C	1 49	2 39	-
16166	178470	19 03.6	30 05	"	"	"	+29.0°C	2 53	3 55	-
	Focus lost				Outside	thru' base				

Nov. 12. 1962

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:53	07	26 18	0	<sup>graph</sup> 7.8 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Add 1.5 mag. for haze effect. <sup>no comparison</sup> AG 25
3:00	08W	25 49	0	8.40 KL	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 5.15 0.30 " "
3:02	14W	26 38	0-1	8.75 55	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 0.2 " "
3:08	26W	27 04	1-0	<sup>graph</sup> 8.8 50	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 0.2 " "
3:15	33W	30 10	1-0	8.15 65	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 0.4 " "
					$4/2\frac{1}{2}$
					3 p. h + 4.



222

Date Monday June 27/28 - 49 S-Ma-LG Julian Day

Plate No.	Object	R.A. 1900 <sup>50</sup>	Declination 1900 <sup>50</sup>	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16167	N.G.C. 5904	15 16.0	+2 16	Newt.	E-103a-0			21 24	21 25	15 W
16168	" 5024	13 10.5	+18 20	"	"			21 29	21 30	12 15 W
16169	" 4147	12 07.6	+18 49	"	"			21 34	21 42	10 40 W
16170	" 6229	16 45.6	+47 37	"	"			21 49	21 51	10 49 E
16171	" 6229	16 45.6	+47 37	"	"			21 54	22 06	10 33 E
16172	" 6205	16 39.9	+36 33	"	"			22 13	22 14	10 24 E
16173	" 6205	16 39.9	+36 33	"	"			22 16	22 18	10 16 E
16174	" 5634	14 27.0	-5 45	"	"			22 31	22 43	10 32 W
16175	" 5897	15 14.6	-20 49	"	"			22 46	22 56	10 12 W
16176	" 6254	16 54.5	-04 02	"	"			23 00	23 02	10 03 W
16177	" 6218	16 41.6	-1 52	"	"			23 10	23 11	10 02 W
16178	" 6638	19 51.3	+18 38	"	"			23 15	23 17	10 02 E
16179	" 6333	17 16.2	-18 28	"	"			23 23	23 29	10 09 W
16180	IC 1276	18 07.5	-07 15	"	"			23 36	23 56	10 05 E
16181	N.G.C. 6093	16 14.1	-22 52	"	"			00 09	00 13	10 01 W
16182	" 6235	16 51.4	-22 06	"	"			00 16	00 32	10 02 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 25	15 W	+2 17			Focused on $\beta$ Librae
21 30	25 W	+18 27			
21 42	340 W	+18 52			
21 51	49 E	+47 38	Poorish		20 sec. "S"-trail
22 06	33 E	+47 38			
22 14	22 E	+36 37	fair		
22 18	18 E	36 37			← Kapteyn area 61. sequence { 22 20 to Hours < 0.33E
22 23	22 W	-5 46	10		Focused on $\alpha^2$ Librae
22 36	47 W	-20 48	25		
23 02	13 W	-04 02			3 Kapteyn area 109 2' { 23 05 to 23 07 0.30E
23 11	32 W				"
23 17	29 E				
23 27	0 19 W	-18 28			
23 36	0 05 E	-7 12			20 sec "S"-trail Refocused on $\eta$ Ophiuchi
23 48	2 05 W	-22 49			4 min. Seeing better
23 50	1 47 W	-22 04			11 min Kapteyn 133 16' { 23 36 to 00 52 41



224

Date <sup>cont'd</sup> Monday June 27/28 -49 S-M-a-l-G-p Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Filter Angle Incl
16183	N4C 6333	17 16.2	-18 28	NewT	E103a-0			00 55	01 01	SW
16184	" 6838	19 51.3	+12 38	"	"			01 08	01 10	SE
16185	" 6779	19 14.6	+30 05	"	"			01 14	01 17	SW
16186	" 6712	18 50.3	-08 47	"	"			01 22	01 30	SW
16187	" 6544	18 04.3	-25 01	"	"			01 33	01 49	SW
16188	6626	18 21.5	-24 54	"	"			01 52	01 55	SW
16189	6656	18 33.3	-23 58	"	"			01 58	02 00	SW
16190	6638	18 27.9	-25 32	"	"			02 03	02 13	SW
16191	6838	19 51.3	+12 38	"	"			02 23	02 25	SW
16192	7089	21 30.9	-01 03	"	"			02 30	02 31	SW
16193	6717	18 52.1	-22 47	"	"			02 35	02 51	SW
16194	" 6712	18 50.3	-08 47	"	"			02 53	03 01	SW
16195	" 6732	19 51.3	+12 38	"	"			03 05	03 07	SW



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 01	1 51 W	-18 28			
01 10	2 35 E	+18 38	0.20		
01 17	2 09 W	+30 07			
01 30	0 46 W	-08 44			
01 40	0 52 W	-25 02			20" "8" Trail
01 55	1 40 W	-24 53			
02 00	1 33 W	-23 57			} Focused on 5 Agullas.
02 03	1 52 W	-25 30		10' 12"	
02 20	2 38 W	+18 40		2' 37"	
02 31	2 05 W	-22 44		1'	
02 51	2 18 W	-8 46		16' 43"	
03 01				8' 16"	
03 07	1 22 W	+18 38		2' 48"	
					<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>ME.</p> <p>12</p> </div> <div style="text-align: center;"> <p>MC</p> <p>-48.8</p> </div> <div style="text-align: center;"> <p>SC</p> <p>-25.9</p> </div> <div style="text-align: center;"> <p>MTW</p> <p>+04.8</p> </div> <div style="text-align: center;"> <p>STW</p> <p>-0.1</p> </div> </div>

226

Date Tuesday June 28-29, 1949 - S - Ma - Gr Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16196	NGC 5904	15 16.0	+2 16	Newt.	E 103a-0			21 30 <sup>12</sup>	21 32	122
16197	" 5024	13 10.5	+18 26	"	"			21 37 <sup>06</sup>	21 39	
16198	" 4147	12 07.6	+18 49	"	"			21 43 <sup>7</sup>	21 51	53.4
16199	" 6229	16 45.6	+47 37	"	"			21 58 <sup>22</sup>	22 00	35E
16200	" 6229	16 45.6	+47 37	"	"			22 02 <sup>15</sup>	22 14	22E
16201	" 6205	16 39.9	+36 33	"	"			22 21 <sup>05</sup>	22 23	07E
16202	" 6254	16 54.5	-0 02	"	"			22 33 <sup>05</sup>	22 35	06E
16203	" 6218	16 44.6	-1 52	"	"			22 39 <sup>00</sup>	22 41	07W
16204	" 6779	19 14.6	+30 65	"	"			22 55 <sup>7</sup>	23 01	23E
16205	" 6838	19 51.3	+18 38	"	"			23 02 <sup>05</sup>	23 12	29E
16206	" 6366	17 25.1	-5 02	"	"			23 18 <sup>25</sup>	23 28	14W
16207	" 6093	16 14.1	-22 52	"	"			23 35 <sup>05</sup>	23 43	39W
16208	" 6535	18 01.3	-0 18	"	"			23 47	00 11	20W
16209	" 6838	19 51.3	+18 38	"	"			00 15 <sup>05</sup>	00 21	30E
16210	" 6712	18 50.3	-8 47	"	"			00 28 <sup>20</sup>	00 44	04W
16211	" 6838	19 51.3	+18 38	"	"			00 52 <sup>45</sup>	00 56	45E



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 32	0 22W	+2 20	poor		Focused on $\beta$ Librae
21 39			"		
21 51	3 53W	+18 54	better		
22 01	0 35E	+47 40	not good		
22 14	0 22E	+47 40	"		
22 23	0 07E	+36 36			Focused on $\alpha^2$ Librae
22 35	0 10E	- 3 58			
22 41	0 07W	- 1 47			
23 01	2 03E	+30 10			Numbered 161203 and 161204
23 12	2 29E	+18 44			
23 28	0 14W	+5 02			
23 38	1 39W	-22 47			
00 01	0 20W	- 0 14	Seeing better		
00 21	1 20E	+12 44			Focused on $\eta$ Serpentic
00 44	0 04W	- 8 44			Heavy haze
00 56	0 15E	+18 42			





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 21	1 10 W	-24 50	poor		
01 30	1 08 W	-23 54	better		
01 40	2 00 W	+18 42	poor		Falling in solids.
01 50	1 30 E	- 0 59	"		Very poor night. Took the clusters we could get - not the ones we wanted most.

230

Date Wed. June 29-30, 1949 S-Ma - Gr Julian Day

Plate No.	Object	R.A. 1900 <sup>50</sup>	Declination 1900 <sup>50</sup>	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16216	NGC 6254	16 54.5	-4 02	Newt.	E 10320			23 22 <sup>45</sup>	23 25
16217	" 6218	16 44.6	-1 52	"	"			23 29 <sup>15</sup>	23 31
16218	" 6838	19 51.3	+18 38	"	"			23 36 <sup>15</sup>	23 40
16219	" 6779	19 14.6	+30 05	"	"			23 46 <sup>40</sup>	23 50
16220	" 6093	16 14.1	-22 52	"	"			23 56 <sup>50</sup>	00 02
16221	" 6235	16 50.4	-22 06	"	"			00 07 <sup>40</sup>	00 19 <sup>15</sup>
16222	" 6712	18 50.3	- 7 47	"	"			00 25 <sup>40</sup>	00 33
16223	" 6838	19 51.3	+18 38	"	"			00 43 <sup>35</sup>	00 49
16224	IC 1276	18 07.5	- 7 15	"	"			00 55 <sup>50</sup>	01 15
16225	NGC 6535	18 01.3	- 0 18	"	"			01 20 <sup>00</sup>	01 40
16226	" 6626	18 21.5	-24 54	"	"			01 43 <sup>50</sup>	01 49
16227	" 6656	18 33.3	-23 58	"	"			01 53 <sup>33</sup>	01 56
16228	" 6838	19 51.3	+18 38	"	"			02 01 <sup>05</sup>	02 07
16229	" 7089	21 30.9	-01 03	"	"			02 12 <sup>45</sup>	02 13
16230	" 6981	20 50.7	-12 44	"	"			02 18 <sup>00</sup>	02 34
16231	" 6981	20 50.7	-12 44	"	"			02 36 <sup>45</sup>	02 54



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 25	2 46 W	- 3 58			← Focussed on $\beta$ Ophiuchi
23 31	1 00 W	- 1 48			thick haze
23 40	1 58 E	+18 42			
23 50	1 10 E	+30 09			
00 02	2 03 W	- 22 47			
00 10	1 43 W	- 22 04			Guide star fading at 7 minutes — app. cut off short
00 33	0 03 E	- 08 43			Focussed on $\eta$ Serpentis
00 40	0 48 E	+18 42			Dr. Coffey of Indiana guiding.
01 10	1 20 W	- 07 14			
01 42	2 22 W	- 0 14			Very thick sky
01 44	1 43 W	- 24 49			Fog
01 50	1 38 W	- 23 52			
02 00	0 30 W	+18 43	Steady		
02 00	1 02 E	- 0 58			
02 30	0 03 E	- 12 40			A poor night, but getting some light through
02 50	0 18 W	- 12 40			

232

Date July 27 1917 Par. Mc Julian Day 191

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
16232	HD 133922	15 02.0	26 44	"	"	"	29	2052	2230	43
16233	151625	16 43.5	28 34	"	"	"	28	2237	2332	
16234	161712	17 39.5	27 05	"	"	"	28.1	2336	0046	234
16235	HD 178450	19 03.6	30 05	"	"	"	28.2	0051	0133	54
16236	189087	19 53.2	29 33	"	"	"	28.2	0137	0241	55
16237	AG 11970	20 54.2	30 14	"	"	"	29.1	0246	0340	56
16238										
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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
225	43 W	26 37	0	8.92	G <sub>2</sub> 1-1-1	AC 25 <sup>comp. used</sup> Hazy
232	5 W	13 29	0	8.50	G <sub>5</sub> 1-1-1	Disruptive in <sup>at least 2</sup> spots also are wa struck a few times!
004	1 23 W	27 01	0	<sup>8.9</sup> 8.9	K <sub>2</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	<sup>guides</sup> <sup>002</sup> <sup>comp. used</sup> Allowing 4 mag. for haze
123	0 45 W	30 09	0	<sup>8.3</sup> 8.3	G <sub>5</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Do.
124	1 05 W	29 40	0-1	<sup>8.4</sup> 8.4	G <sub>5</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Do.
125	1 08 W	30 24	0-3	<sup>8.9</sup> 8.9	G <sub>0</sub> $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Dr. From 1/4 g. will be used

1 P.P. loaded

Plates needed.

center exposure of focus test must be used











Micr. setting 12.96 =

237

Overcast, clearing about 2330

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0300	0 44W	+30 06	3-2	8.9 K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Add 0.4 mag. for haze.
0301	1 15W	28 32	2	9.3 <sup>ph</sup> K <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 0.2 " " " 10 min. (at 1000 ft) securing test
0303	0 26W	26 11	2-1	8.4 <sup>ph</sup> K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Do.
0302	0 26W	28 35	2	8.3 <sup>ph</sup> K <sub>3</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Add 0.4 mag. for haze. → being varying from 3 to 0 during gap.

1 P.H. loaded = 4:

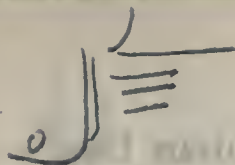
Letting go of the battery is not working on occasion.  
 Raising the main cable into the handle but seemed  
 to be steady this, there indicating a loose connection this  
 larger wire.

238

Date Monday, July 4/5, 1949 Wm - Mc

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
16 245	AG 7774	16 <sup>h</sup> 38 <sup>m</sup> .0	+25°37'	I-12	E103a-0	SET 000	+28.8	21 56	23 46	4
16 246	HD 167 782	18 11.7	+25 46	"	"	"	+28.8	23 50	01 10	1
16247	HD 169797	18 21.3	+26 01	"	"	"	+28.5	01 20	03 10	0
	<i>W. Mc</i>			<i>Outside King's Base</i>						



SETTING & GUIDING NOW REQUIRE 239  
 2 HANDS - ONE FOR BUTTON, ONE TO FIDDLE  
 WITH CABLE.

Overcast, clearing 2100-2130

FOCUS 12.963

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 46 4	1 W 40	+25° 30'	0	9.4 <sup>DDO</sup> 30	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25 SOME HAZE
01 10	1 30 W	+25° 47'	0	8.91 KO	$\frac{1}{2} - \frac{1}{2} \frac{1}{2}$	" "
03 08	3 20 W	+26 03	0	9.0 <sup>grapl</sup> KO	$\frac{1}{2} - \frac{1}{2} \frac{1}{2}$	" "
2 p.h. loaded. plates needed.						





Mier. sat. 12.962

Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

mag  
8.5K<sub>0</sub> $\frac{1}{2}$ 

Open id up when thin clouded, propitious  
overcast in SW + NE breeze. However, became  
solid overcast about 21:00 and had to  
1 P.H. loaded. Plate needed.





Focus 12.963

STW had to be reset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22	14W	+29 05	1-2	9.1? G <sub>5</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ clouds overhead - clearing? seeing variable 4-2 $\frac{1}{2}$ clouds passing over every few minutes. solid! 4 P.M. Loaded open-box of plates with 8 P.
					- hrs. July 7/5 1 <sup>st</sup> Half overcast W m

244

Date Friday July 8-9, 1949 GY- 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
16249	HD 136274	15 14.7	+26 04	I-12 $\frac{1}{2}$	E 103 $\alpha$	.008	+25.8	20 54	21 54	1 27
16250	" 150889	16 38.8	+26 02	"	"	"	+25.8	22 30	23 00	1 08
16251	" 162901	17 48.3	+25 00	"	"	"	+25.8	23 03	24 05	1 05
	Focus test		OTB.							

7 ours 12.964

245

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 54	1 27W	+25 53	0-1	8.6? G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ AG 25 Haze & light clouds
23 00	1 08W	+25 58	0-1	8.0? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " Forget to open P.H. & delayed 30 m
24 05	1 05W	+24 59	0-1	8.7? K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " Haze & light clouds (considerable during last 20 min of exp.) Exp cut short as clouds moved over solid. Closing up! 4 P.H. loaded +5





Mier set 12.462

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	0 41 W	25 37	1	<sup>graph</sup> 8.5 G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Old 0.2 mag. for range. AG 25
2217	0 41 W	25 56	0	<sup>graph</sup> 8.7 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Do. "
237	1 25 W	29 33	0-1	<sup>graph</sup> 9.5 K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Do. "
0023	0 58 W	26 36	1	<sup>graph</sup> 8.9 G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Do. } fogged in "
154	0 52 W	29 40	1-2	<sup>graph</sup> 9.2 G <sub>0</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Do. } development Gr. "
3 14	1 15 W	29 25	0-1	<sup>graph</sup> 9.5 K <sub>0</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Do. "
	1 35 W	27 37	0-1	8.12 G <sub>0</sub>	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Do. "
					H/2

flashlight batteries weak.  
2 P.H. loaded - plates needed





About 60 visitors ; Showed 2 Here with 71  
 2 with 5 - inch

14-14-

249

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 48 W	+27 22	1	8.5 Mo	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ } set 5.0 allowed 1.6 mag. for mirror
00 04	1 13 W	+27 58	1	9.4? Mo	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ } " 5.0 " about 0.4 for haze
0 30	1 04 W	+28 15	2	9.5? G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ } set 2.5 Moon covered by clouds - spreading over $4/2\frac{1}{2}$ } set 7.5 sky - more haze allow 0.6 - filling in solid from south slowly. Solid about 1:30 There was a good deal of scattered light with it, at 1 whether it was due to the haze or mirror I don't know. 4 P. H. loaded in 'frig. Box has 8 1/2 lbs left. Mon, July 13/19. Cloudy at sunset, becoming overcast by abt. 2200

250

Date Tues July 19/20 Ba - Mi

Julian Day

1949

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
16262	HD 147655	16 18.1	24 57	5 1/2"	1032 Q	.008	27.8	2142	2118	1
16263	163969	17 53.8	28 75	"	"	"	27.2	2143	2226	2
16264	166730	18 15.7	27 17	"	"	"	27.9	2230	2308	2
16265	174764	15 47.1	29 36	"	"	"	27.9	2317	2350	2
16266	AG 10154	19 31.9	26 10	"	"	"	28.0	0006	0018	1
16267	HD 194071	20 18.5	27 55	"	"	"	28.0	0051	0111	1
16268	197615	20 39.7	27 06	"	"	"	28.0	0115	0157	1
16269	204079	21 21.1	26 46	"	"	"	27.9	0200	0246	1
16270	212289	22 18.1	30 15	"	"	"	28.0	0249	0315	1
16271	215944	22 17.0	27 36	"	"	"	28.0	0318	0348	1
16272	220288	23 17.5	25 22	"	"	"	28.0	0351	0359	1
} New Field										
UTB										

From 251  
12.76 Z

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2112	29 <sup>m</sup> W	29 52	0+	8.91 G5	1-1-1. AC 25 Altitude <sup>m</sup> 1.6
2113	30 <sup>m</sup> W	28 15	0	8.81 G3	1-1-1 " Teacher's log 4-M 13 125
2114	32 <sup>m</sup> W	27 57	0+	8.84 K0	1-1-1 " numbered 1624 SE 25
2115	42 <sup>m</sup> W	27 43	0+	8.98 K2	1-1-1 " This * not double as shown on BD 7.5
2116	0 47 W	26 22	1-2	9.3 <sup>graph</sup> K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 2.5
0111	0 28 W	28 03	2-3	8.8 <sup>graph</sup> K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 7.5
0112	0 45 W	27 15	2-1	9.3 <sup>graph</sup> K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 2.5
0113	0 56 W	27 00	1-0	9.1 <sup>graph</sup> G <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 7.5
0114	0 28 W	30 30	1-0	8.4 <sup>graph</sup> K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 2.5
0115	0 35 W	27 52	1-0	8.7 <sup>graph</sup> G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 7.5
0116	0 13 W	25 30	2	7.5 <sup>graph</sup> K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 2.5
					2 P.H. + 4
					1 rubber strap on 2 in. diameter hole





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
13 21	10 2 W	+27 50	0	9.0? G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ * triple clouds slowly cleared from N-W. <i>c. wk</i> set 2.5
15	3 30 W	+29 13	0.4	8.8? K0	$\frac{1}{2} - \frac{1}{2}$ clouds passing over (adj 10 min) - clouds forming in S. load at 23:35 <i>from gunning</i> set 7.5 (23:00)
					Plate in P.H. #1 was spotted through glass. <i>center all to v</i>
					4 P.H. loaded 1 plate in box





CLOUDY, BEGINNING TO CLEAR ~ 2130

255

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 21	0 <sup>w</sup> 53	+25° 21'	0	8.84 GO	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ SET @ 2 $\frac{1}{2}$ } AG 25 Some Haze Exp calculated as $-1.8 + 0.2 = -1.6$ <i>l. with</i>
20 10	0 52 W	+26 19	0	8.98 KO	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ SET @ 7 $\frac{1}{2}$ } AG 25 <i>good with</i>
00 41	0 28 W	+25 12	0	9.2? K3 $\frac{1}{2}$	Set at 2 $\frac{1}{2}$ " More haze Exp $-1.8 + 0.5 = -1.3$ Haze thick and clouds closing in! <i>Center of star.</i>
					2 P.H. loaded (HJ181460 $\alpha$ 11 45.0 S+2938 (1900) not circled so with)
					Try from microstar 12.970







Date Sat July 22<sup>nd</sup> 1949 Baerle - Mi

Julian Day

1949

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
16287	HD 164923	17 53.9	24 59	E 17"	10320.	0.02	23.3	2207.	2253	46"
16288	PS V <sub>1</sub> p	19 13.4	22 16	"	"	"	23.2	2300	2320	9"
16289	Z Hare	17 53.9	15 09	"	"	"	23.2	2325	2343	35"
16290	AG 10077	19 29.2	25 13	"	"	"	23.2	2345	0043	100
16291	AG 11233	20 19.2	28 26	"	"	"	23.2	0046	0116	43
16292	HD 201626	21 05.7	26 13	"	"	"	23.2	0119	0143	23"
16293	204921	21 26.7	29 50	"	"	"	23.2	0140	0204	23"
16294	208276	21 50.1	29 47	"	"	"	23.2	0209	0235	23"
16295	212567	22 02.2	28 11	"	"	"	23.2	0238	0310	23"
16296	216723	22 50.1	27 28	"	"	"	23.2	0313	0337	22"
16297	219538	23 11.4	30 07	"	"	"	23.1	0330	0350	11"
16298	HD 14110	23 33.8	25 23	"	"	"	23.1	0352	0410	22"
16299	HD 223211	23 42.5	25 01	"	"	"	23.0	0313	0320	11"
From Book										
O.T.B.										

h 1<sup>m</sup> fast

Form 12-970

200 visitor found Me 13 and 74'  
4 with 5'

259

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0253	40 <sup>m</sup> W	24 59	0+	9.2? K2	1-1-1 MAG 2.5 2.5
0300	9 <sup>m</sup> E	22 22	0+	8.0 A2	1-1-1 Eclipsing Variable 7.5
0303	34 <sup>m</sup> W	15 04'	1	8.0 F2	1-1-1 " " " 2.5
0303	1 00 W	25 18	1-0	9.9? G0	1/2 - 1/2 - 1/2 7.5
0316	0 43 W	28 37	2	9.1 K <sub>0</sub>	1/2 - 1/2 - 1/2 being varying 1-3 2.5
0317	0 23 W	26 25	2	8.9 K <sub>2</sub>	1/2 - 1/2 - 1/2 7.5
0324	0 23 W	30 02	2	8.6 K <sub>0</sub>	1/2 - 1/2 - 1/2 2.5
0335	0 36 W	29 59	2+	9.1 K <sub>0</sub>	1/2 - 1/2 - 1/2 7.5
0340	0 36 W	25 24	2-1	9.0 K <sub>0</sub>	1/2 - 1/2 - 1/2 2.5
0345	0 22 W	27 42	2+	8.4 G <sub>5</sub>	1/2 - 1/2 - 1/2 7.5
0351	0 24 W	30 23	2+	8.8 K <sub>0</sub>	1/2 - 1/2 - 1/2 2.5
0352	0 22 W	25 40	2+	8.8 K <sub>0</sub>	1/2 - 1/2 - 1/2 7.5
0352	0 24 W	25 16	3	7.8 K <sub>0</sub>	1/2 - 1/2 - 1/2 2.5

3 P.H. Photo coded

Jul. 25	}	MC	SC	MTW	STW
		-1 <sup>m</sup> 30 <sup>s</sup>	-0 <sup>m</sup> 9 <sup>s</sup>	-18 <sup>s</sup>	-0 <sup>m</sup> 1 <sup>s</sup>
		+02 <sup>s</sup>		reset	

RESET



260

Date *Mon. July 25-26, 1949* *Gr-Gu-M<sup>o</sup>* 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 Ang End
16300	149241	16 28.4	+27 55	I-25	103a-0	-008	+26.5	20 57	21 56	21
16301	Z Herc.	17 52 <sup>6</sup> / <sub>A</sub>	+15 09	"	"	"	+27.0	22 00	22 22	0 37
16302	RS Vulp.	19 13.8	+22 16	"	"	"	+27.0	22 47	23 09	1 10
16303	AG <sup>36</sup> 41-4	18 51.3	+26 52	"	"	"	+27.0	23 15	00 21	23
16304	Z Herc.	17 53 <sup>6</sup> / <sub>A</sub>	+15 09	"	"	"	+26.9	00 29	00 55	5.
16305	RS Vulp.	19 13.8	+22 16	"	"	"	+26.9	01 00	01 22	03
16306	HP 20162E	20 05.7	+26 13	"	"	"	+26.9	01 25	02 31	8.
16307	} 20162E	20 05.7	+26 13	"	"	"	+26.9	02 32	03 04	13
	} Focus Test						O.T.B			



July 25, - Installed 25" camera

Focus 15.766

Focus test O.T.B. for 3 settings of micr.

Focus setting 15.746  
 " " 15.786 temp. +25.1  
 " " 15.766 - OK. tilt 23.15

261

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	1 21W	+27 49	2-3	9-1 K <sub>5</sub>	1-1-1 AG 25 fine 2.0
22 22	0 37W	+15 09	3	8.0 F <sub>2</sub>	1-1-1 eclipsing variable v good 7.5
23 23	0 10E	+22 21	3	8-0 A <sub>2</sub>	1-1-1 " " strong 7.5
00 21	1 23W	+26 56	3	9-2 K <sub>0</sub>	1-1-1 AG 25 fine 2.0
00 55	2 55W	+15 06	3	8.0 F <sub>2</sub>	1-1-1 0.2 mag for haze. Eclipsing Var. good 7.5
01 01	2 03W	+22 22	3	8.0 A <sub>2</sub>	1-1-1 " strong 2.5
01 01	1 18V	+26 25	3+	9.0? K <sub>2</sub>	1-1-1 0.2 mag for haze. AG - 25 v good 7.5
01 01	2 43W	+26 25	3	9.0? K <sub>2</sub>	1-1-1 0.2 " " " AG 25 v good 2.5
<p>10/7 focus centre to violet (sl.) <sup>actual exp. strong</sup> centre exp. weak. 7.5 5.0</p> <p>4 P.H. loaded &amp; in ref. ig. <sup>plunger</sup></p> <p>4 plates in Box.</p>					

Jul. 26

MC	SC	MTW	STW
+00.4	-01.2	-18.9	+0.3 <sup>m</sup>
		-11 <sup>s</sup>	+0.1 <sup>m</sup>

Rest



Temp +29°C  
 Focus stat 15.930

lose connection in focussing switch

263

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03:30	033 <sup>h</sup> E	+28 23	2	7.8 G <sub>0</sub>	1-1-1 4625 <i>Mon is 24 mag to p.m.c.</i> set <i>very strong</i> 2.5
03:40	0 12 E	+28 32	3	graph 8.0 K <sub>0</sub>	1-1-1 " " 0.2 <i>partly guided</i> set 7.5 <i>good</i>
03:50	2 36 W	+27 04	3	graph 8.9 G <sub>0</sub>	1-1-1 " <i>Do. partly guided</i> set 2.5 <i>good</i>
01:59	0 47 W	25 35	3	graph 8.4?? G <sub>5</sub>	1-1-1 <i>Do.</i> " 7.5 <i>fine</i>
02:14	0 48 W	26 11	3	graph 8.4 K <sub>2</sub>	1-1-1 <i>Do.</i> " 2.5 <i>good</i>
02:20	1 13 W	26 00	3	graph 9.2 G <sub>5</sub>	1-1-1 <i>Do.</i> 7.5 <i>useful</i>

*focus a. sl to violet*

*Just set on Baglow's R.S. Vulp. when field obscured by cloud. Suggest an earlier time anyway as telescope just clearing camera screen.*

*H.P.H. +1*



264

Date *Wed. July 27-28* *Gr - Mc* 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 Ang End
16314	H.D. 184538	19 29.9	+25 <sup>36</sup> 42	I-25	103 <del>2</del> 0	.008 <sub>M</sub>	+30.3	23 39	00 27	00
16315	" 192892	20 12.2	+26 11	"	"	" <sub>S</sub>	+30.0	00 51	01 31	04
16316	" 20626	21 57	26 13	"	"	" <sub>M</sub>	+30.0	01 43	02 13	3.0
	Focus test			outside		through	122			

Cloudy - clearing at 2300 EST Try increasing micrometer reading +0.020  
 compared with graphs of temperature vs microm

p265

temp 30.3 focus 15.855 + 0.020  
 = 15.875

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
00 27	1 00 W	+25 42	1-2-3	<sup>graph</sup> 7.9 K <sub>0</sub>	1-1-1 0.5 mag or less 4.1 at 2.5
01 31	1 21 W	+26 18	2-3	8.2 G <sub>5</sub>	1-1-1 1 mag 5 mag set on B egg to see in parallel with 7.5
02 00	3 10 W	+26 25	1-2-3	9.0 K <sub>2</sub>	1-1-1 2.5
				10/7	
					3 p.h. loaded plates needed
					short bit length, S, was taken with focus shared north to 3rd notch.

p266

Date Thursday July 27/29 Ma-Mc. 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 Ang End
16317	H. 0156652	17 13.7	+29 02	J-25	1030-0	002	30.4	21 41 <sup>4</sup>	22 32	25
16318	170614	17 25.3	+29 30	"	"	"	30.4	22 40	23 10	26
16319	182617	17 20.4	+28 22	"	"	"	30.3	22 13	00 01	27
16320	190605	20 00.7	+25 17	"	"	"	30.3	00 04	01 14	28
16321	199163	20 54.1	30 00	"	"	"	30.3	01 22	01 52	29
16322	210925	22 8.6	25 26	"	"	"	30.0	02 01	02 29	30
16323	203517	22 7.5	26 03	"	"	"	29.7	02 36	03 12	31
16324	218356	23 22	24 46	"	"	"	29.1	03 17	03 27	32
16325	222350	23 35.0	26 59	"	"	"	29.0	03 33	03 52	33
<i>Focus Test - Outside through base</i>										
<i>Nothing on plates - slit not open</i>										



An 25-inch camera was combined from  
 in S position, etc. about 11:00, 7:24  
 focus 15.879 Temp. 30.5°C. 267

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 25W	+28 56	2-1	8.5? M0	1-1-1 AG25 seeing variable allow 0.2 for haze 2.5
	5 50W	+29 31	1-2	7.6? G5	1-1-1 focus changing rapidly. AG25 7.5
	0 48W	+28 25	2-3	8.4? K0	1-1-1 AG25 0.4 for haze 2.5
	1 20W	+25 55	2-3	8.6? G5	1-1-1 AG25 0.4 for haze 7.5
	1 04W	30 12	2-3	7.7 K0	1-1-1 AG25 0.4 for haze { 2.5
	0 58W	25 40	3	7.6 G5	1-1-1 AG25 0.2 for haze 7.5
13:00	0 48W	26 20	2-3	7.9 K2	1-1-1 AG25 0.2 " " temp 29.0 at end of exp { 5.5
13:00	0 31W	25 12	2	6.0 K0	1-1-1 AG25 0.2 " " 7.5
14:00	0 24W	27 13	2	7.3 K0	1-1-1 AG25 0.2 " " { 2.5
				10/7	7.5
				2 p.h. loaded. + 8	

Jul. 29 MC +07.8 SC +12.2 MTW +05.8 STW<sub>mm</sub> +0.6

Friday July 29/30 Mi-Ma.

clouds mainly clearing at 10:30 but about 2 magnitudes extinction and cirrus  
 clouds passing over head regularly - solid in N.W. + N.W. wind 12:30

268

Date July 30/31 Bar - Gr

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 Ang End
16317	AG 923 <sup>6</sup> / <sub>7</sub>	<del>18 43.3</del> 18 43.3	<del>28 18</del> 28 19	125"	10B-23	Sak	29.8	22 23	23 53	4
16318	HP 19425	20 24	30 15	"	"	"	+25.0	23 59	00 35	127
	Focus test - O.T.B.									

Feb 15-878

50 Visitation  
 showed Moon with 4" 269  
 M13 with 79

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2300	124 W	+28 22	0	<del>10.4</del> K 8.61 60	AG25 - Wrong star too weak 2.5
0035	0 27 W	+30 23	0	8A2 Q5 1-1	Intermittent clouds after 20 minutes - closing in solid by 0035. too weak 7.5

7 P.M. loaded +4

Sun. July 31/49 Showed 30 visitors  
 through dome and showed sun with "5 inch"



270

Date July 31/Aug 1 1949 Gr - 11c 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 Ang End
16319	HD 153224	16 53.0	+29 45	I-25	10370	<sup>set</sup> .008	+23.4	20 51	22 21	46
<u>16320</u>	" 171232	18 28.5	+25 25	"	"	"	+23.2	22 24	23 50	40
16321	" 189884	19 57.2	+26 54	"	"	"	+23.0	23 53	01 23	44
16322	" 204540	21 27.2	+25 31	"	"	"	+23.0	01 28	02 08	07
16323	" 213947	22 29.9	+26 05	"	"	"	+23.0	02 13	02 53	41
16324	" 222317	23 31.4	27 41	"	"	"	+23.0	02 51	03 21	50
16325	" 111	0 0.9	27 43	"	"	"	+23.0	03 25	04 11	2
	<i>Down test -</i>			<i>Outside lens base</i>						

Watch stopped - Reset

Focus 15-760

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 2	1 46 W	+29 40	< 0	8.70 G <sub>0</sub>	1-1-1 2.5
23 51	1 40 W	+25 27	< 0	graph 8.3 G <sub>5</sub>	1-1-1 " 1/2 mag for haze 7.5
01 33	1 44 W	+27 02	< 0	8.5 K <sub>2</sub>	1-1-1 " " 2.5
02 1	1 07 W	+25 42	0	graph 7.6 K <sub>2</sub>	1-1-1 " " 7.5
02 32	0 41 W	26 19	0	graph 7.9 K <sub>2</sub>	1-1-1 " " 2.5
03 21	0 5 W	27 57	0	graph 7.4 G <sub>0</sub>	1-1-1 " " 7.5
04 1	0 28 W	27 58	0	8.1 K <sub>2</sub>	1-1-1 " " 2.5
					10/7 7.5

4 plate holders loaded - plates needed.

0110 meter.  $\downarrow$  .7 about as bright as  $\alpha$  Argil. trail lasting a sec. or two. <sup>ends of path uncertain. Mc</sup>

272

Monday  
Date Aug 1/2 Ba - Mi ..... Julian Day  
1949

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang. End
16326	HD 156077	17 10.4	42 15	I 25"	103a-C	008	24.2	2123	2309	22 W
16327	180501	19 11.7	28 58	"	"	"	24.2	2316	00 16	27 W
16328	199375	20 51.7	27 12	"	"	"	24.2	0019	0055	27 W
16329	201669	21 06.0	26 53	"	"	"	24.2	0058	0306	27 W
16330	212280	22 18.0	29 51	"	"	"	24.2	0209	0300	25 W
16331	222033	22 32.1	30 07	"	"	"		0303		
<p>Forecasted set at 5 O.T.S.</p>										
<p>Tuesday Aug 2-3 1949 About 200 visitors from Normal School. Cloudy. N &amp; G demonstrated telescope.</p>										
<p>Wednesday Aug 3-4 1949 Hd - Ma cloudy - a few breaks but not clearing until ~03:00.</p>										



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2300	222 W	42 10	0	8.8 R)	1-1-1 Fran 15.760 Start delayed by cloud Exposure interrupted cloud 2235-2240
1010	1 27W		0-1	8.5 GO	1-1-1 AG 25 Reset focus 15.77
0555	0 25W	27 21	2-3	8.1 <sup>Graph.</sup> K <sub>0</sub>	1-1-1 Allow .2 mag for haze. Allow .6 mag for 2.5 cloud & haze.
0524	1 22W	27 05	2	8.8 <sup>Graph.</sup> K <sub>0</sub>	1-1-1 Allow .2 mag for haze.
0300	1 05W	30 05	1	8.1 <sup>Graph.</sup> G <sub>0</sub>	1-1-1 D <sub>0</sub>
				8.3 <sup>Graph.</sup> G <sub>0</sub>	1- Closing in solidly from North. obliterated, knocked off exposure. i.p.H. Plates needed.

Aug. 3

MC	SC	MTW	STW
-11.8	+03.8	+02.2	-0.0



Overcast or Cloudy, becoming clear ~ 2215

275

FOCUS  $15.768 + 0.020 = 15.788$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
00 31	0 07W	+27°36'	0	8.12 G0	1-1-1 AG25 - double lines? Set 2.5 } sand
01 2	0 14E	+25 40	0-1	7.6? G5	1-1-1 " variable velocity? Set 7.5 } fine
02 5	1 41W	+29 06	1	8.6? G0	1-1-1 <i>numbered</i> " - double lines Set 2.5 } fine
03	0 44W	+49 54	1	6.8 Ave	1-1-1 <i>16335-6</i> Be program. Set 7.5 } fine
03 39	0 33W	+03 11	1-2	6.8? Na	1-1-1 had trouble binding* used G.F. = 1.5 Mo. Special star. Set 2.5 } w. spec
04 13	0 35W	+25 16	1	8.1? K0	1-1-1 A.G. 25 Set 7.0 } low
				10/7	Set 10.0 } c.

2 P.H. Loaded in Refrig. 8 plates in Box.

	MC	SC	MTW	STW
Aug. 5	-15.0	+05.7	+07.0	+0.1



276

Date *Friday, August 5-6* Hd (6<sup>h</sup>) - McJulian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16338	HD 156079	17 10.4	+42 15	I-25	E10320	008	+26.8	20 58	22 48
	Focus test								15/8
16339	HD 199763	20 54.1	30° 00'	"	"	"	+27.4	01 46	02 30
16340		21 30 25	22 23 5	26° 31'	"	"	+26.8	02 40	03 32
16341	<sup>8747</sup> 8747	1 21.2	26 43	"	"	"	+26.8	03 42	
	Focus test								Outside through panel

Set focus 15.813.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 15	+42 09	0	8.8 R <sub>1</sub>	1-1-1	Normal slit, Checked field. <sup>clouds</sup> long time wait 2.5
	0.773				
					Set focus at 15.804
2 18	30 10	0	<sup>graph</sup> 7.7 KO	1-1-1	AG 25 } light cloud 02 #5
03 32	26 54	1-0	<sup>graph</sup> 7.8 KO	1-1-1	a } comp. completely overlap. 2.5
	1 E 26 58	1-0	<sup>graph</sup> 7.9 KO	1-1-1	" } Neither plate good for radial vel. 6
				10/8	forget to look at hr v. 6
					2.5
					7.5

3 p.l. loaded +

Field drifts very rapidly <sup>at times</sup>. Star in 74" field moved to edge from crosshairs while loading plate in spotting arm on one occasion.

278

Date Saturday, August 6/7, 1949 Wm - Mi ..... 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 Ang End
16342	HD 190 228	19 58.3	+28 02	T-25	E1030-0	<sup>SET</sup> CC8	+26.4	23 12	3 56	
16343	HD 197 514	20 37.1	+26 54	"	"	"	26.5	00 01	01 11	
16344	HD 213 178	22 24.5	28 32	"	"	"	26.4	01 47	02 27	
16345	HD 219 393	23 02.6	49 40	"	"	"	26.4	02 35	02 49	
16346	HD 222 033	23 32.1	30 07	"	"	"	26.4	02 55	03 45	
16347	HD 2215	00 21.9	25 02	"	"	"	26.4	03 49	04 29	

Focus

1.4

O.T.B. Lt 9.0



P. 279

showed ~50 visitors & thru 5 in at ~2300 EDT  
 Previously cloudy, abt 100 visitors show telescope by Mi & Wm.

SET FOCUS 15.787 + .020 = 15.807

P.H. #1 would not go to spectrograph OK

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
02:55	0 <sup>h</sup> 39	+28° 11'	2	7.72 G5	1-1-1 RA Planetary at chng bad; tried to watch it with P.H. #1 AG25 Narrow Window Set 2.5 <i>much too strong</i>
01:41	1 45W	+ 27 03	2-3	9.3 <sup>rough</sup> M <sub>3</sub>	1-1-1 " " " " " 7.5 <i>fine</i>
02:27	0 45W	+ 28 45	2-3	8.0 <sup>rough</sup> K <sub>0</sub>	1-1-1 AG25 Allow. 6 mag. for haze. Using #1 P.H. fine 2.5 <i>plate scratched.</i>
02:49	0 29W	+ 49 52	3-2	6.8	1-1-1 Be prog. " No filter in v. poorly guided 7.5
03:45	0 55W	+ 30 22	3-2	8.3 <sup>rough</sup> G <sub>0</sub>	1-1-1 AG25 Allow. 6 mag. for haze. <i>much too strong</i> 2.5
04:29	0 51W	+ 25 17	3	8.2 <sup>rough</sup> K <sub>0</sub>	1-1-1 " " " " " fine 5.5 <i>fine on</i>

!! P.H. Graded. Plates needed.

R.A. planetary gear must be started in motion, as by always after working the R.A. setting, especially when driving them a gear from the wheel.

280

Date Sunday Aug 7/8 1949 L: Gu - G: Julian DayShort length

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour End
16348	HD. 159948	17 32.3	25 41	I-25"	E-10300	set .008	+28.0	20 47	21 23	36
16349	" 166181	18 04.4	29 39	"	"	"	+28.0	21 28	22 34	15
16350	" 182617	19 20.4	28 22	"	"	"	+28.0	22 42	23 24	49
16351	" 189943	19 57.5	29 56	"	"	"	+28.0	23 32	00 42	31
16352	" 203288	21 16.2	+25 <sup>49</sup> <del>4</del>	"	"	"	+28.0	00 45	01 45	15
16353	" 214023	22 30.4	+30 17	"	"	"	+28.0	01 57	02 53	19
16354	" 219800	23 13.6	+27 04	"	"	"	+28.0	02 56	03 22	54
16355	{ " 224882	23 56.4	+30 11	"	"	"	+28.0	03 24	04 24	3
	Found Test		O.T.B.		10/8					



Focus set at 15.815

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 27	0 36 W	25 38	2	8.18 K <sub>0</sub>	1-1-1 } set 2.5 AG. 25 guiding poor v good
22 34	1 15 W	29 39	2	8.9? G <sub>5</sub>	1-1-1 } set 7.5 " " <u>too strong</u>
23 24	0 49 W	28 28	2	8.22 K <sub>0</sub>	1-1-1 } set 2.5 " " 1 weak
00 42	1 31 W	30 04	2	8.8? K <sub>0</sub>	1-1-1 } set 7.5 " " fine
01 45	1 15 W	+26 03	2-3	8.65 K <sub>5</sub>	1-1-1 } set 2.5 " " Light cloud over most of sky at 0057. Focus reset at 15.833. good (i.e. 15.813 + 0.020)
02 53	1 09 W	+30 32	2	8.16 K <sub>2</sub>	1-1-1 } set 7.5 " " Still some light cloud 1 weak
03 22	0 54 W	+27 17	2-3	7.91 K <sub>0</sub>	1-1-1 } set 2.5 " " " " " " v good
04 24	1 13 W	+30 28	2	8.40 G <sub>0</sub>	1-1-1 } set 7.5 " " " " " " gently guided

focus OK

4 P.H. loaded + 8 in log

	MC	SC	MTW	STW
Aug. 8	-20.0	+09.9	-02.5	+0.1





Set focus.

15.8.72

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
20 56	E 33m	25 01	1	6.9 Bse	1-1-1 Be Set 2.5	
21 38	W 38m	27 24	2	8.39 K <sub>2</sub>	1-1-1 AG " 7.5	
00 15	0 01 E.	26 25	2	8.85 ?	1-1-1 " " 2.5 Trouble with the Quich 7m	
01 21	0 47 W	30 10	2-3	<sup>8.7</sup> 8.7 G <sub>0</sub>	1-1-1 AG 2.5	Set 7.5
01 5	0 50 W	29 28	2-3	<sup>8.9</sup> 8.9 K <sub>5</sub>	1-1-1 AG 2.5	Light cloud. Set 2.5
02 28	0 10 W.	+29 53	3-2	6.8	1-1-1 Be Prog.	Allow .5 mag for cloud. Set 7.5
04 27	2 00 W	+29 06	3-2	9.1 G <sub>5</sub>	1-1-1 AG 2.5	(Light scattered cloud). Set 2.5

4 P.H. + 4



Date Tuesday August 9-10, 1949, L-Gu/Mc 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 And End
16363	HD 154049	16 58.0	+25.10	I-12 $\frac{1}{2}$	E103c0	.008	+32.6	20.21	20 51	0 47
16364	" 156774	17 14.4	+27 03	"	"	"	+32.5	20 53	21 23	1 01
16365	" 167132	18 08.8	+25 37	"	"	"	+32.5	21 27	21 53	1 39
16366	" 169245	18 18.7	26 10	"	"	"	+32.5	21 56	22 26	01 W
16367	" 184719	19 30.7	28 56	"	"	"	+32.2	22 31	22 55	1 18 W
16368	" 187460	19 45.0	+29 38	"	"	"	+32.0	23 05	23 39	1 47 W
16369	AG 11579	20 35.2	+26 17	"	"	"	+32.0	23 45	00 37	1 59 W
<del>16370</del> 16369A	HD 202521	21 11.3	27 35	"	"	"	+32.0	00 51		
16369F	Focus test									Outside through base



Tues. Aug. 9. Changed to 12 $\frac{1}{2}$ " Camera P285  
 Focus set 18.970 Tilt 20.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
20 51	0 47 W	+25.07	0	8.70 K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ comp too strong AG 25 { set 2.5 fine															
21 23	1 01 W	+27 00	0	8.72 K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ not guided to" escape { " 7.5 l. strong															
21 53	0 39 W	+25 36	1-2	9.0? K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " { " 2.5 fine															
22 26	1 01 W	+26 12	2	9.3? G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " { " 7.5 fine															
22 55	0 18 W	29 01	2	9.1? K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " { " 2.5 strong															
23 30	0 47 W	29 45	2	9.1? K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " " { " 7.5 l. strong															
00 37	0 59 W	26 27	2	9.7? K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ light cloud from " NW 0020 { " 2.5 fine															
		27 47	2	9.2 K <sub>2</sub>	$\frac{1}{2}$ graph partly guided { " 7.5															
					heavy clouds coming up in N W. at 00 55. - solid by 01 00 $4\frac{1}{2}$ set 5.0 more to violet 4 plate holders loaded + full box															
					<table border="0"> <tr> <td></td> <td>ME</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Aug. 10</td> <td>-23.0</td> <td>+11.5</td> <td>+0.02</td> <td>+0.2</td> </tr> <tr> <td>12</td> <td>-26.6</td> <td>+12.8</td> <td>-02.6</td> <td>+0.1</td> </tr> </table>		ME	SC	MTW	STW	Aug. 10	-23.0	+11.5	+0.02	+0.2	12	-26.6	+12.8	-02.6	+0.1
	ME	SC	MTW	STW																
Aug. 10	-23.0	+11.5	+0.02	+0.2																
12	-26.6	+12.8	-02.6	+0.1																

Date *Fr 12/13 Pa* / *Mc* 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 And End
16370	<i>Nova Sculpt</i>	18 50.9	-04 16	I-12	E10340	008	+29.2C	20 15	20 35	2
16371	"	"	"	"	"	"	29.2	20 35	21 15	2
16372	HD 170737	18 25.9	+25 36	"	"	"	29.2	21 24	21 58	2
16373	NG 9585	19 02.5	+28 34	"	"	"	29.0	22 03	23 02	2
16374	HD 193011	20 12.9	+27 49	"	"	"	29.2	23 26	00 01	2
16375	AG 10838	20 1.8	+29 26	"	"	"	29.0	00 33	01 11	2
16376	AG 10837	20 1.8	+29 36	"	"	"	29.0	01 18	02 09	2
16377	HD 213177	22 24.5	+29 18	"	"	"	29.0	02 28	03 02	2
16378	HD 222390	23 35.0	26 59	"	"	"	29.0	03 07	03 15	2
16379	HD 222391	23 35.0	26 17	"	"	"	29.0	03 18	03 34	2
16380	HD 3590	0 33.7	25 47	"	"	"	29.0	03 38	03 48	2
16381	HD 4686	0 43.8	28 11	"	"	"	29.0	03 51	04 25	2
	Focus Test									
					Outside	through				



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 5	12E	-4 15	0	8.2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Set 2.5
21 15	0 31E?	"	1	"	$1-1-1$ Set 2.5
22 0	0 30W	+26 38	1	8.75 G5	1-1-1 AG25 7.5
23 0	0 24W	+28 38	1-0	(9.60) G0	1-1-1 " 2.5
	1 19W	+29 57	0-1-2	graph 9.3 K2	$1-\frac{1}{2}-\frac{1}{2}$ " comp. heavy 7.5
	2 21W	+29 36	2	graph 9.7 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " 2.5
	3 20W	+29 36	0-1-2	graph 9.6 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " 0.3 mag for haze 7.5
	1 43W	+29 33	1	graph 9.0 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " plate fogged 2.5
03 15	0 46W	26 14	0	graph 7.3 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " in one corner 7.5
03 30	1 05W	26 32	0	graph 8.2 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " 2.5
03 45	0 20W	26 02	0	graph 7.5 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " 7.5
04 15	0 45W	28 25	0	graph 8.5 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ " 2.5
					4-3 7.5
					1 plate holder loaded + 0 focus ok





75 Viscosa observed p. Cyg west 79"  
 4 west 5"

Mic. set 12.9.71

289

\* ?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2212	30 W	-4 12 ?	0-2-	?	1/2-1-1 . Flaring up low wind set. set 2.5
				9.9 GO	<del>AE 25</del> Closed up at 2212 7.5
				4/3	set 7.5
					4 P.H. + 4

290

Date Sunday Aug 14/15 1949 Ma-Mi Julian Day  
Ba

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Min Sec
16383	Nova Scuti	18 50.9	-04 16	F-12	103a-0	008	+29.0	20 14	21 14	20 14
16384	" "	"	"	"	"	"	+29.0	21 15	21 45	21 15
16385	H.D. 174104	18 43.8	+28 37	"	"	"	+29.1	22 00	22 38	22 00
16386	188259	19 49.2	+26 15	"	"	"	+29.0	22 42	23 08	22 42
16387	194510	20 20.9	+25 24	"	"	"	+29.0	23 12	23 50	23 12
16388	202365	21 10.2	+27 45	"	"	"	+29.0	23 55	00 45	23 55
16389	209858	22 01.3	+27 29	"	"	"	+29.0	00 49	01 17	00 49
16390	214202	22 31.6	+29 14	"	"	"	+29.0	01 19	01 55	01 19
16391	219 418	23 10.5	+25 08	"	"	"	+29.0	01 59	02 13	01 59
16392	221469	23 27.3	+26 00	"	"	"	+29.0	02 16	03 00	02 16
16393	1406	00 13.1	+29 49	"	"	"	+29.0	03 03	03 33	03 03
16394	4795	00 11.9	+27 50	"	"	"	+29.0	03 36	03 58	03 36
16395	7026.	01 09.3	+25 54	"	"	"	+29.0	04 01	04 39	04 01
	Foot at Peak } C.T.B.		Set 7.5							



18 visitors Sunday afternoon - shown  
sunspots (lots of them). Ma.

Fours set 12.980

291

watch wound 23:45 E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	0 24E	-4 18	0-1-2	? ?	$\frac{1}{2}-1-\frac{1}{2}$ think it is getting fainter. } (Set 2.5
21 45	0 07W	-4 18	2	" "	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ } (Set 7.5
22 38	1 08W	+28 38	2	9.2? G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ light clouds & haze } (Set 2.5
23 08	0 32W	+26 21	2-3	8.7? K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ blew dec guiding & setting, fine } (Set 7.5
23 50	0 42W	+25 32	3-2-1	9.2? G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ more fuses needed! From arc } (Set 2.5
00 45	0 45W	27 55	2-1	9.4? K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ difficult to strike } (Set 7.5
01 7	0 30W	27 41	0-1-2	8.6 G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Allow 1 mag. for haze. } (Set 2.5
01 55	0 37W	29 27	1	9.0 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ seeing variable } " 7.5
02 11	0 17W	25 22	1	8.6 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ comp. weak } " 2.5
02 0	0 47W	26 16	1-0	9.0 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ } " 7.5
02 30	0 34W	30 05	2-	9.0 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ heavy comp. too strong } " 2.5
02 58	0 27W	28 04	2-1	8.6 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ } " 7.5
03 1	0 45W	26 08	2	9.4 K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ } " 2.5
					4-3
					4 P.H. +9.

292

Date Monday Aug 15/16 1949 L-Mc 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
16396	Nova Scuti	18 50.9	-04 16	I-12 $\frac{1}{2}$	E-103a <sup>0</sup>	set 008	26.7	20 54	22 26	3
16397	HD. 187565	19 45.5	29 08	"	"	"	26.7	22 33	23 15	3
16398	AG 11546	20 33.4	29 50	"	"	"	26.7	23 19	23 57	4
16399	HD 198238	20 43.9	26 02	"	"	"	26.7	00 02	00 48	1
16400	HD 209543	21 59.1	26 28	"	"	"	26.5	00 54	02 00	1
16401	HD 209745	22 0.6	29 24	"	"	"	26.5	02 05	02 49	1
16402	H.D. 664	0 5.8	29 01	"	"	"	26.4	02 55	03 41	1
<del>16403</del>	<del>H.D. 5585</del>	<del>0 52.5</del>	<del>28 59</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>26.4</del>	<del>03 45</del>	<del>04 25</del>	<del>1</del>
Focus test - Outside through lens										



Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 20	0 52W	-04 17	1	8.7? Vis.	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ { Sect 2.5 ok
23 15	0 47W	+29 15	1	9.3? G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ { " 7.5 A.G. 25' <i>weak</i>
23 57	0 41 W	30 00	1	9.1? G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ { " 2.5 AG. 25' <i>fine</i>
00 43	1 23 W	26 13	1-0	<sup>graph</sup> 9.3 K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ { " 7.5 AG 25' <i>fine</i>
02 00	1 19W	26 43	0-	<sup>graph</sup> 9.5 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ { " 2.5 AG 25' <i>1 strip</i>
02 57	2 08W	29 36	0	<sup>graph</sup> 9.6 G.5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ { " 7.5 AG 25' <i>weak</i>
03 41	0 53W	29 17	0	<sup>graph</sup> 9.2 G0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ { " 2.5 AG 25' <i>fine</i>
04 25	0 49W	29 15	0	<sup>graph</sup> 9.0 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ { " 7.5 AG 25' focus overlaps this exposure
					5.0

plate in holder #1 believed to be spotted without ground glass. It was.

4 plate holders loaded +8.





Focus 12.982

295

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 16 2	W 46 <sup>m</sup>	-4 17	1	8.8 (est) $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 4/3	Clouds most of time. Call end 21 Set 2.5 10 Set 7.5

3 PH loaded but see note re #1; do not use for N. Sec.

	MC	SC	MTW	STW
Aug. 17	-36.0	+17.6	+21.0	+0.5 <sup>m</sup>





Cloudy, clearing by about 02:00 EST.

Focus at 12.980

297

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0300 3	0 23W	26 10	3	<sup>8.2</sup> K <sub>0</sub> $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Exposure doubled to allow for light cloud. Set 2.5
03A3 3	1 04W	30 09	3-2	<sup>9.2</sup> G <sub>5</sub> $\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ 4/3	Hazy cloud driving over from N.W. "7.5" Closed down.

	MC	SC	4 PM	+8.
Aug. 18	-37.4	+20.2	MTW	STW
			+22.8	+0.1
				(rest)

298

Date Thursday August 18-19, 1949 Hd. - Mf Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16406	Nova Senti	18 50.9	-4 16	I-12	E103.0	008	23.3	20 03	22 13
16407	QY 10133	19 31.0	+28 52	"	"	"	23.3	22 20	23 20
16408	HD 195667	20 27.6	+26 42	"	"	"	23.2	23 24	00 16
16409	HD 195712	20 27.8	+26 44	"	"	"	23.2	00 18	01 28
16410	HD 195790	20 28.3	+27 10	"	"	"	23.0	01 33	02 19
16411	HD 218153	23 0.6	25 29	"	"	"	23.0	02 24	02 54
16412	HD 223869	23 48.1	25 44	"	"	"	23.0	02 58	03 12
16413	HD 5092	00 47.7	29 48	"	"	"	23.0	03 27	03 51
16414	HD 12029	01 53.0	28 54	"	"	"	23.0	03 56	04 38
	Focus Test - Outside through base								

Focus at 12.980

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 59	0 51	-4 16	0.	9.0 (ext)	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Set 2.5
23 20	W 1 19	28 55	0	(9.6) G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 7.5
00 16	1 18 W	26 54	0	(9.3) K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 2.5
01 4	2 30 W	26 55	0	graph 9.6 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ " 7.5
02 15	3 21 W	27 21	0	graph 9.2 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ 2.5
02 52	1 22 W	25 43	0	graph 8.7 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ 7.5
	1 03 W	25 43	0	graph 8.5 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ 2.5
	0 33 W	30 02	0	graph 8.5 K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ 7.5
	0 15 W	29 07	0	graph 9.0 K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$ 2.5
					$4 / \frac{1}{2}$ 7.5

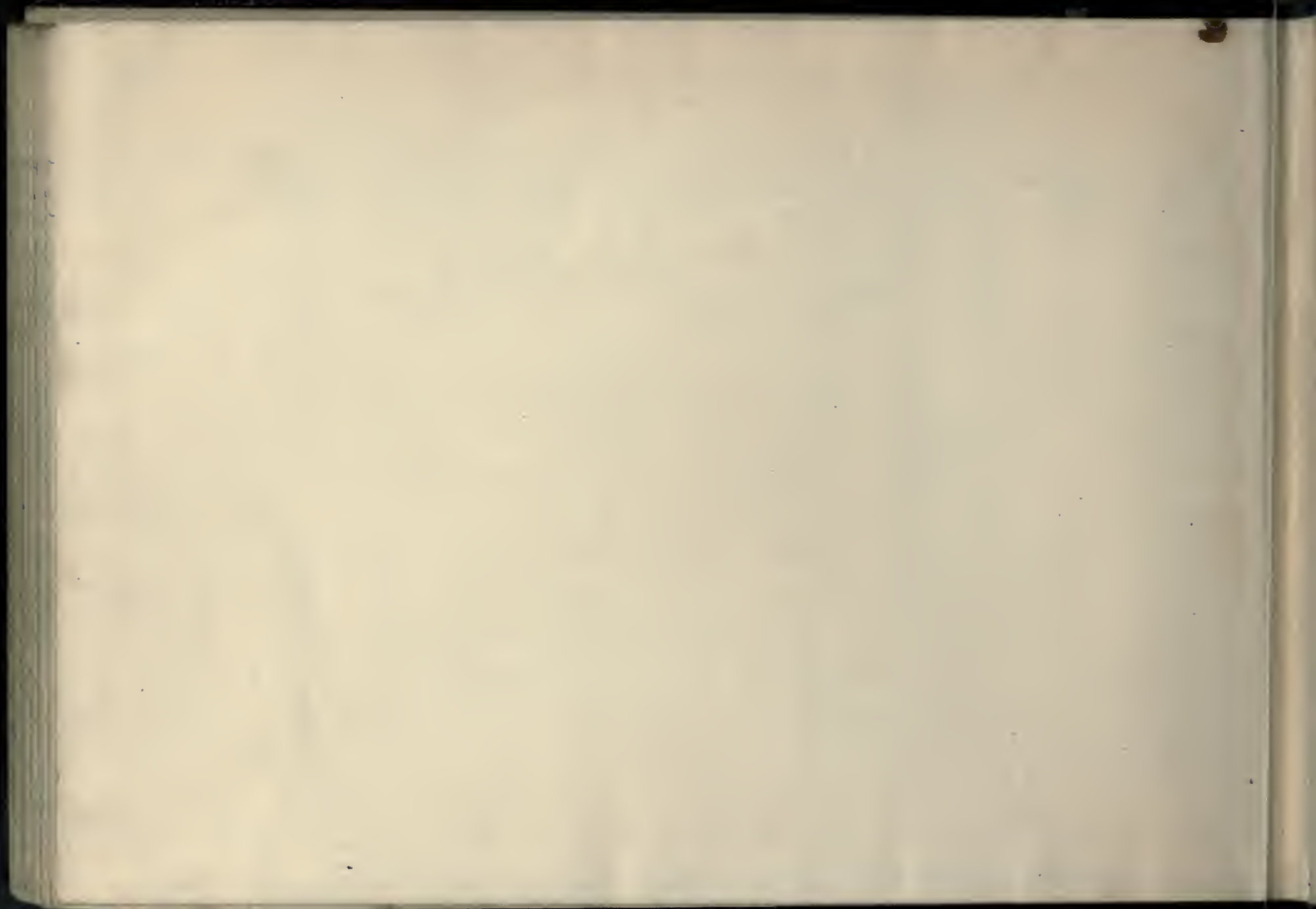
field does not look right to me. d.m scale = 1" 55.9  
dec. 2' min. out.

1 p.h loaded + 4.





Ending Time  
E.S.T.





1871  
1872