

1.







5

Date

Monday Nov 18-19/40 M-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
6327	H.D. 36104	05 24.2	12 12	I-12 $\frac{1}{2}$	Astra II	Set .010	+1.8	01 00	02 00	1
6328	" 37366	05 33.0	30 50	"	"	"	+1.8	02 05	04 05	2
6329	" 71537	08 22.9	33 02	"	"	"	+1.6	05 06	06 00	3
		Nov 21-22	Bs-8	Intermittent light rain						
		23-24	M-Bs	Snow; remained cloudy						

Julian Day

Date

4

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

02 00

0 08 W

12 12

2

6.95 Be 1-2-1

04 05

2 05 W

30 51

2

7.40 Bs 1-2-1

06 00

1 10 W

32 53

2-1

6.66 Ao 1-2-1

Light clouds, more clouds, sky thickening.  
Clear again, light clouds, more clouds.

		MC	SC	SW	MT	ST
Nov. 19	10	+27.2	-106.0	+24.8	-23.8	-0.1 <sup>m</sup>
	20	+29.6	-105.6	+26.0	-27.0	-0.1 <sup>m</sup>
	21	+29.4	-105.6	+26.3	+13.0 <sup>s</sup>	+0.2 <sup>m</sup>
	23	+31.3	-104.9	+28.5	+05.3	-0.3 <sup>m</sup>
					Result. $\frac{1}{4}$ turn $\rightarrow$ R	
	25	+33.7	-104.1	+35.5	+04.5 <sup>s</sup>	-0.3 <sup>m</sup>

7

Date Monday, Nov 25-26, 1940, M-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature B	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6330	HD. 199355	20 51.6	42 08	I-12	Astria II	.010	-0.2	17 43	19 33	4
-6331	BD. 630110	00 48.6	463 33	-	-	.025 <sub>L</sub>	0.0	19 40	23 16	7
-6332	HD 32419	4 58.0	441 09	-	-	.020 <sub>L</sub>	0.0	23 29	02 49	2
			Nov 28-29	Bs-B	Mostly cloudy					
			Dec 0-1	M-Bs	Heavy snowstorm. Quite clear at 01 <sup>30</sup> , brushed snow from Cloudy at 03 <sup>00</sup> ps: flashlight					

Pointes at 20.58

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Filters	REMARKS																																																	
19 33		42 -17	0	6.87 B9	1-2-1																																																		
23 16	2 47 W	63 45	1	9.1	1/2-1-1/2	a little hazy																																																	
02 49	1 51 W	41 10	1	8.9 A0	1/2-1-1/2	Hazy, about 150, clouds, haze, moon clouds. Waited, cleared once for about 20 mins then clouded up solidly. Closed at 4.00																																																	
	tel. & found <sup>done</sup> shutters would only open about 15" needs new bulb, which I could not find.																																																						
						<table border="0"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Nov. 26</td> <td>10</td> <td>+35.0</td> <td>-1 03.9</td> <td>+39.3</td> <td>+07.0<sup>s</sup></td> <td>-0.2<sup>m</sup></td> </tr> <tr> <td>Nov. 27</td> <td>10</td> <td>+36.6</td> <td>-1 03.6</td> <td>+43.1</td> <td>+03.2</td> <td>-0.3<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2">1/2 turn to R</td> </tr> <tr> <td>Nov. 28</td> <td>10</td> <td>+38.0</td> <td>-1 03.7</td> <td>+04.9</td> <td>-00.6<sup>s</sup></td> <td>+0.1<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Result 1/2 turns R</td> <td>Result</td> </tr> <tr> <td>Nov. 29</td> <td>10</td> <td>+39.1</td> <td>-1 03.1</td> <td>-03.4</td> <td>-05.7<sup>s</sup></td> <td>+0.0<sup>m</sup></td> </tr> </table>			MC	SC	SW	MT	ST	Nov. 26	10	+35.0	-1 03.9	+39.3	+07.0 <sup>s</sup>	-0.2 <sup>m</sup>	Nov. 27	10	+36.6	-1 03.6	+43.1	+03.2	-0.3 <sup>m</sup>						1/2 turn to R		Nov. 28	10	+38.0	-1 03.7	+04.9	-00.6 <sup>s</sup>	+0.1 <sup>m</sup>						Result 1/2 turns R	Result	Nov. 29	10	+39.1	-1 03.1	-03.4	-05.7 <sup>s</sup>	+0.0 <sup>m</sup>
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					Result 1/2 turns R	Result																																																	
Nov. 29	10	+39.1	-1 03.1	-03.4	-05.7 <sup>s</sup>	+0.0 <sup>m</sup>																																																	



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Date Sunday, Dec 1-2, 1940 B-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 Est.	D
-6333	Wrong Star H.D. 211474	22 12.2	+29 35	T-12 1/2	Astron II	.010	-3.8	17 45	19 55	3	2 <sup>h</sup> W 2
6334	3924	00 36.7	+58 13	"	"	"	-4.4	20 06	20 38	4	0 <sup>h</sup> W 5
6335	6676	01 02.4	+57 44	"	Astron VIII	"	-4.3	20 44	(22 00)	1	1 <sup>h</sup> W 5
Monday, Dec 2-3, 1940, M-L											
Light snow early in evening. Stars appeared occasionally but along											

Stronger of Olson stopped  
while being carried. Reset  
MT by personal watch.

Pointer at 168

p.10

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Instrument	Remarks	MC	SC	SW	MT	ST	
19:55	2 <sup>10</sup> W	29 45	1	7.54 B <sub>8</sub>	1-2-1	for M 1700.30	10	+43	-102.6	+18.8	-09.4	0.0
20:38	0 <sup>28</sup> W	58 26	1	6.11 B <sub>9</sub>	1-2-1	for M						
22:00	1 <sup>54</sup> W	57 58	1	5.65 B <sub>8</sub>	3-6-3	for M clouds - closed shutters immediately closed completely later						
						Dec. 2	13	+45.5	-101.6	+02.3	-22.5	-0.3
												Reset

but always haze around, thick at 21.00 hrs

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Date

Monday Dec 2-3/40 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
6336	H.D. 42476	06 58	17 24	I-12 $\frac{1}{2}$	Astrat	set 010	-76	01 40	03 40	3
6337	" 72392	08 27.5	47 28	"	"	"	-7.5	03 50	05 06	1
6338	" 8005E	09 159	17 02	"	"	"	-7.5	05 20	06 50	

Tuesday December 3-4, 1940

clear all day; clouded just before sunset. Partly clearing several times thereafter, but always haze over most of sky. Very light moon.

Pointer set at 13.95

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
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2 <sup>02</sup> W	17 23	0	6.91 A <sub>0</sub>	1-2-1	seeing <u>vile</u>
1 <sup>06</sup> W	47 22	0	6.62 A <sub>0</sub>	1-2-1	seeing <u>better</u>
2 <sup>03</sup> W	16 52	0	6.93 A <sub>5</sub>	1-2-1	

		MC	SC	BW	MT	ST
Dec. 3	13	+47.4	-57.5	+0.7	-26.2	-0.3 <sup>m</sup>
		Added 0.5wt.				
Dec. 4	10	+48.9	-57.5	±05.2	-27.8 <sup>s</sup>	-0.3 <sup>m</sup>
					±0.1	
Dec. 5	10	+50.2	-58.2	-02.2	<del>-26.7</del>	-0.3 <sup>m</sup>

13

Date 1940 Dec 5-6 Thursday, 35-B Julian Day 9969

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
6719	113 7012	01 55	+37 12	1-12	Astra II	0.010	-4.6°C	20 <sup>30</sup>	21 <sup>30</sup>	4
				Friday Dec 6-7, 1940 N						
				clear at sunset but haze up almost						
				Dec 7-8	Y-B	Thick altostratus; occ. snow flurries				
				12-13	35-B	Snowy rain turning to sleet				

Snow flurries earlier. Clear at 19<sup>45</sup>

Ending Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
1	+1 <sup>03</sup>	+37° 26	0	5.7	28	1.2-1 JSE (4). Clouds 25 <sup>50</sup> - 21 <sup>30</sup> (thin scattered)																		
						all cloudy 22 <sup>30</sup> closed us																		
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Dec. 6</td> <td>10</td> <td>+51.4</td> <td>-58.5</td> <td>-02.9</td> <td>+25.2</td> </tr> <tr> <td></td> <td></td> <td>added wt 1.0</td> <td></td> <td></td> <td>Rest</td> </tr> </table>		MC	SC	SW	MT	ST	Dec. 6	10	+51.4	-58.5	-02.9	+25.2			added wt 1.0			Rest
	MC	SC	SW	MT	ST																			
Dec. 6	10	+51.4	-58.5	-02.9	+25.2																			
		added wt 1.0			Rest																			
						immediately - remained thick																		

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Date Dec 13-14 Friday

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
6340	HD 1279	00 119	+47 24	I-12	Acta II	010	-3.8		6 <sup>15</sup>

cf next page  
where record is  
handed out of counts

Ending Time  
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comps	REMARKS
47 39		0 <sup>+</sup>	5.77	B9	1/2-	Dec. 7 10 MC SC BW MT ST +51.7 -58.0 -01.3 +01.3 <sup>s</sup> -0.4 <sup>m</sup> 1/4 turn to R
						9 10 +52.5 -57.4 +04.8 -50.5 <sup>s</sup> -1.4 <sup>m</sup> !!
						10 10 +52.7 -58.1 +08.3 -41.3 <sup>s</sup> -1.1 <sup>m</sup>
						11 10 +52.7 -58.8 +12.6 -35.0 <sup>s</sup> -1.0 <sup>m</sup>
						12 10 +53.0 -58.9 +13.2 -29.0 <sup>s</sup> -0.9 <sup>m</sup>
						13 10 +53.1 -59.3 +16.6 -22.8 <sup>s</sup> -0.8 <sup>m</sup>



17

Date Dec 13-14 Friday Y-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
6340	HD 1279	00 11 9	+47 24	T-12	Asbatt	010	-3.8	6 <sup>15</sup>	8 <sup>15</sup>	1	1 <sup>12</sup> W
6341	" 27742	04 17 6	+30 45	"	"	"	-6.5	10 <sup>03</sup>	11 <sup>33</sup>		2 <sup>12</sup> W
6342	" 33204	05 03 5	27 55	"	"	"	-6.7	11 <sup>38</sup>	0 <sup>58</sup>		1 <sup>05</sup> W
6343	" 40626	05 55 9	49 55	"	"	"	-7.0	01 <sup>05</sup>	01 <sup>59</sup>	3	1 <sup>14</sup> W
6344	" 57646	07 12 1	52 0X <sup>5</sup>	"	"	"	-6.9	02 <sup>07</sup>	04 <sup>37</sup>	4	6 <sup>11</sup> W
	Focus test		Outside the base					9-12			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
8:57	1 <sup>h</sup> 12 <sup>m</sup> W	47 39	0+	5.77	B9	<sup>H<sub>a</sub></sup> 1/2-1/2-1/2 v p seeing, circumhoge, (long on in the exp.)
9:00	25 <sup>m</sup> W	20 52	0+	5.87	B8	<sup>Y</sup> 1/2-1/2-1/2 v p (but better)
9:07	1 05 W	27 58	0+	6.05	A3	<sup>H<sub>a</sub></sup> 1/2-2-1/2 More clouds at 0.5
9:10	1 14 W	49 55	0	5.98	A0	1-2-1 B.S. Y Seeing better
9:17	2 31 W	52 00	D-1	6.98	K2	1-2-1 B.S. Y Clouds during last hour of exp. Still cloudy 5.15. Close up.

	MC	SC	SW	MT	ST
14	+53.1	-59.4	+18.8	-20.3	-0.7

19

Date Saturday, Dec 14-15, 1940, M-Bs Julian Day 9978

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
- 6345	HD, 221700	23 29.3	+7 22	I-12	astron I	.024 <sub>L</sub>	-6.1	17 35	20 19	3
6346	14739	2 17.5	17 09	-	-	.010	-6.2	20 26	21 52	4
- 6347	32419	4 58.0	41 09	-	-	.020 <sub>L</sub>	-6.2	21 59	01 19	1
- 6346	RW Mon BD+8. 1402	06 29.3	+08 54	-	-	-	-6.2	01 25	v4 25	3
<p>Sunday Dec 15-16 B-L : Opened up at sunset but clouds came before I set on any stars. Partly clear at 21<sup>h</sup></p> <p>Monday Dec 16-17, M-C Fog all afternoon cleared</p>										

Pointer at 15.28

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 04 W	+ 7 37	3-1	9.2 A2	1/2-1-1/2 some light haze and clouds
0 49 W	+17 18	2	7.32 A2	1-2-1 haze increasing - faint 22 halo around
+1 <sup>35</sup>	41 13	3	8.9 A0	1/2-1-1/2 trouble with dome turning relay. light clouds over mount. left sky by 2210; 10-100
+3 <sup>-</sup>	+08 53	3	8.35 A	1/2-1-1/2 v. light clouds from 2210. Long

	MC	SC	BW	MT	ST
Dec. 16 10	+54.4	-59.3	+22.4	-06.0 <sup>s</sup>	-0.6 <sup>m</sup>

about 18.30 hrs. Telescope and last control too wet to attempt work

Dec. 17	<sup>13</sup> <del>10</del> +51.0	-59.5	+24.3	+0.8 <sup>s</sup>	-0.5 <sup>m</sup>
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Date Tuesday December 17-18 1940 H-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
6349	HD 212670	22 20.9	<sup>17 57</sup> (+18 08)	J-12	astron II	<sup>set</sup> 010	-4.0	17 22	18 38	3
6350	225093	23 58.3	+72 <sup>36</sup> (47)	"	"	"	-4.1	18 45	20 15	4
6351	4666	00 43.6	+77 25	"	"	"	-4.1	20 20	21 07	1
6352	17591	02 44.3	+63 00	"	"	"	-4.0	21 14	22 24	3
6353	17818	02 46.5	+48 09	"	"	"	-4.2	22 27	23 27	4
6354	35815	05 22.3	+62 55	"	"	"	-4.1	23 45	01 15	1
6355	58917	07 22.6	+62 43	"	"	"	-4.1	01 22	02 18	3
6356	60406	07 23.2	+61 46	"	"	"	-4.1	02 25	04 00	4
6357	81732	09 22.2	+56 41	"	"	"	-4.1	04 07	05 07	1
6358	114446	13 06.5	+57 22	"	"	"	-4.1	05 15	06 55	3
				Dec 19-20	Bs-B	Cloudy				
				21-22	Y-B <sub>3</sub>			found S of D stopped	reset, SW	

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 43 W	+18 28	0	7.40	K0	1 1/2 - 1 1/2 - 1 1/2 KSA 90 <i>Temp. found on new thermometer</i>
1 43 W	+72 52	1-2	7.58	A2	1 1/2 - 1 1/2 - 1 1/2 KSA 2
1 47 W	+77 39	1-2	6.89	A5	1 1/2 - 1 1/2 - 1 1/2 " 2
1 05 W	+68 12	2	7.50	F0	1 1/2 - 1 1/2 - 1 1/2 " 9
2 07 W	+48 21	2	7.51	K0	1 1/2 - 1 1/2 - 1 1/2 " 22
1 18 W	+62 57	2	7.46	B2	1 1/2 - 1 - 1 1/2 " 10 <i>Time lost due to trouble with dome opening</i>
0 22 W	+62 38	2	6.77	A0	1 1/2 - 1 - 1 1/2 " 11
1 37 W	+61 40	2	7.59	F5	1 1/2 - 1 - 1 1/2 " 11
1 12 W	+56 28	2-3	7.26	F2	1 1/2 - 1 - 1 1/2 " 12
0 41 E	+57 09	2	7.51	F2	1 1/2 - 1 - 1 1/2 " 14

	MC	SC	SW	MT	ST
Dec. 18 14	+56.3	-59.1	+18.6	+07.0	±0.3
19 10	+57.4	-59.1	+20.2	+12.4	±0.3
20 10	+58.3	-58.9	+22.6	+18.0	-0.2
21 10	+59.3	-58.5	+25.7	+21.2	-0.1
22 10	+1 <sup>m</sup> 00	-1 <sup>m</sup> 00	+21 <sup>s</sup>	+38 <sup>s</sup>	-1 <sup>m</sup> .4

still running but needed wind up

+27.4<sup>h</sup> -1<sup>m</sup>.4<sup>h</sup>



Print. at 2125

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Cloudy all evening, clearing after midnight.
1 <sup>04</sup> W	32 10	0	6.48 F <sub>2</sub>	1 $\frac{1}{2}$ -1-1 $\frac{1}{2}$	K.S.A. 52, Y.
0 <sup>46</sup> E	47 10	0	6.59 F <sub>2</sub>	1 $\frac{1}{2}$ -1-1 $\frac{1}{2}$	" 31, Y.
0 <sup>35</sup> E	49 19	0	6.63 K <sub>2</sub>	1 $\frac{1}{2}$ -1-1 $\frac{1}{2}$	B.S.C. Y
1 <sup>05</sup> E	63 02	0	5.92 A <sub>0</sub>	1 $\frac{1}{2}$ -1-1 $\frac{1}{2}$	" Hd



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Date Monday, Dec 23-24, 1940, M-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.	
							8			
6363	HD 221700	23 29.3407	22	I-12	Astron II	.025 <sub>c</sub>	+0.3	17 39	20 59	1
6364	32419	4 58.041	09	-	-	.020 <sub>c</sub>	+0.3	21 11	00 11	3
6365	HD 102102	00 49.3108	24	"	"	"	+0.2	01 00	04 30	4
6366	HD 92547	12 44.056	43	"	"	.010	+0.2	04 08	05 42	1
6367	" 97244	11 06.514	56	"	"	"	+0.2	05 46	06 46	3

Tuesday, December 24-25, 1940 H.

Cloudy most of day; thinning out at sunset. Partly clear, but  
 long interval short interval in early evening.

Wiped water out of sockets of the camera  
lenses before starting

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Instrument	Pointers of 2086	REMARKS
3	21W	7 37	0	9.2	A2	1/2-1/2-1/2	
1	24W	41 12	2	8.9	A0	1/2-1-1/2	Light and dark clouds to be avoided
2	25W	08 52	2	8.35	A	1/2-1-1/2	Sky cloudy, water till 1:00 before starting
0	40W	56 33	2	7.32	B9	1 1/2-1-1 1/2	KSA 13
1	32W	14 42	2	6.43	A5	1 1/2-1-1 1/2	79

Went out for a long afternoon



Ending Time  
P.A.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 30W	+45 16	3-4	7.25	A3	1-2-1	KSA 20 Haze some transparency
0 48W	+42 21	4	7.43	F5	1-2-1	" 22 Haze
0 53W	+57 42	3	6.83	F5	1-2-1	" 9 Glaring, not. Haid, very faint
0 43W	+61 41	3-2	7.46	G0	1-2-1	" 10 Image small but very bright
0 41W	+40 58	2	5.15	A3	1-2-1	330 " " "

Merry Christmas!

29

Date *Wednesday Dec 15 1940* 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
6373	HD. 44071	06 <sup>14.7</sup> <del>14.3</del>	29 <sup>25</sup> <del>35</del>	I-103	Astrat II	Sel 010	14.5	00 <sup>30</sup>	00 <sup>10</sup>	1
				E. B						
		1940	Dec 28-29	M-Bs			Rain and mist.			
		940	Dec 30-31	M-L			Snow.			
		1940	Dec 31-Jan 1-	H-L			cloudy all evening.			
							Foggy but still haze at 23 <sup>30</sup>			
							(over)			

Ending Time  
B.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																														
155 W	29 23	1	7.19 Fo	1 1/2 - 1 1/2	K9A.50 Y Clouds. haze. by remaining mostly clear during (Before resetting) -1 05.5																														
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>S.T.</td> </tr> <tr> <td>Dec. 26</td> <td>9</td> <td>+1 05.6</td> <td>-1 08.0</td> <td>+28.5</td> <td>+05.5 +0.3<sup>m</sup></td> </tr> <tr> <td>30</td> <td>14</td> <td>+1 07.6</td> <td>-57.4</td> <td>-17.1</td> <td>+08.2 +0.5<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>(wound off once than once a week due to holiday) Reset</td> <td>Reset</td> </tr> <tr> <td>31</td> <td>10</td> <td>+1 08.7</td> <td>-54.6</td> <td>-15.5</td> <td>+10.8 +0.6<sup>m</sup> 1/2 t.l.A</td> </tr> </table>		MC	SC	SW	MT	S.T.	Dec. 26	9	+1 05.6	-1 08.0	+28.5	+05.5 +0.3 <sup>m</sup>	30	14	+1 07.6	-57.4	-17.1	+08.2 +0.5 <sup>m</sup>					(wound off once than once a week due to holiday) Reset	Reset	31	10	+1 08.7	-54.6	-15.5	+10.8 +0.6 <sup>m</sup> 1/2 t.l.A
	MC	SC	SW	MT	S.T.																														
Dec. 26	9	+1 05.6	-1 08.0	+28.5	+05.5 +0.3 <sup>m</sup>																														
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				(wound off once than once a week due to holiday) Reset	Reset																														
31	10	+1 08.7	-54.6	-15.5	+10.8 +0.6 <sup>m</sup> 1/2 t.l.A																														

p. 31



Happy New Year!



Date Tuesday, Dec 31 - Jan 1 / 41 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.	
6374	HD 74057	08 36.6	32 13	T-12 1/2	Astra II	sel .010	0.0	01 08	02 48	3
6375	" 80390	09 14.4	57 08	"	"	"	0.0	02 55	04 00	4
6376	" 99983	11 25.1	57 17	"	"	"	0.0	04 08	05 32	1
6377	" 106093	12 07.1	78 00	"	"	"	0.0	05 40	06 44	3

1941 Jan 2-3 Sleazy, out cloudy cloudy





Date Wed Jan 1-2 / 41

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
6378	HD 9531	01 285	+36 44	I-12	Astra II	0 10	+1.0	6 00	7 00
6379	HD 11037	01 433	+3 11	"	"	"	+0.8	7 06	8 16
6380	HD 20346	03 113	38 56	"	"	"	+0.8	8 22	9 24
<del>6381</del>	<del>HD 21050</del>	<del>03 187</del>	<del>20 27</del>	"	"	"			

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
3 <sup>m</sup> E	+36 57	0+	5.75	B9	1/2-1-1/2	BSC Y1 v p seeing
58 W	+3 25	0+	6.78	G5	1/2-1-1/2	BSC (He)
18 <sup>m</sup> W	+39 04	0+	5.97	A0	1/2-1-1/2	BSC Shut off by thick sky (Y)
			5.90	B9		

		MC	SC	SW	MT <sub>3</sub> ST <sub>m</sub>	
1941	Jan. 2	10	+11.7	-54.6	-08.3	+12.4 +0.6
			added 0.5			
		3	12	+12.2	-54.3	-04.5 +12.6 +0.6



Ending Time  
E.S.T.Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

Set on  $\gamma$  Aquilus first. focused and adjusted cross wires on finder.

Heavy bank of cloud came up just as got set on Comet. Didn't actually see it in finder.

R.A. Clamp heater is short circuiting at place where wire goes through tin. Curtain behaving very badly, particularly on way down.

Cross wires on finder are now slightly out of adjustment for normal position. It will be safest to set first on bright star when telescope next used.

Remained cloudy - Cloud gone  
Plate Box in dome



Pointer at 20.61

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
					Cleared again shortly before 23 <sup>h</sup>
	-7 21	0-1	8.4	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	
20 <sup>h</sup> W	16 08	1	7.25	B <sub>9</sub> 1-2-1	M.S.A. 77 Thick haze at 20.00. Cleared later for
1 <sup>05</sup> W	29 00	1-2	6.98	A <sub>0</sub> 1-2-1	" 5 <sup>h</sup> past time. Image gone at 4 <sup>h</sup> 27 <sup>m</sup> . Clear
2 <sup>0</sup> W	47 09	1	6.59	F <sub>2</sub> 1-2-1	" 33 <sup>h</sup> again.

	MC	SC	SW	NT	ST
Jan 4	10	+1 12.5	-53.5	-01.5	+14.3 +0 <sup>h</sup> 6

Sat - Cleared snow off Tel.  
 Then snow & clouds.  
 Sunday - Mostly cloudy, some flurries, and light winds  
 L Clearing and clouding alternately. Light snow

Jan. 6	12	+1 14.9	-0 53.0	-14.0	+27.3 +0 <sup>h</sup> 5
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39

Date Tuesday Jan 6-7, 1941 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.
<del>4385</del>	H.D. 20215			I-12	Rilco 1010		B -4.5		

Hour Angle  
End

Ending Time  
2.17

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS												
				clouds come up from NW just as was setting												
				Stayed thick. Not a glimpse of comet												
				closed dome												
				Plate box in dome												
				<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT<sub>2</sub></td> <td>ST<sub>m</sub></td> </tr> <tr> <td>Jan. 7</td> <td>10</td> <td>+17.2</td> <td>-53.1</td> <td>+08.2</td> <td>+29.2 +0.9</td> </tr> </table>		MC	SC	SW	MT <sub>2</sub>	ST <sub>m</sub>	Jan. 7	10	+17.2	-53.1	+08.2	+29.2 +0.9
	MC	SC	SW	MT <sub>2</sub>	ST <sub>m</sub>											
Jan. 7	10	+17.2	-53.1	+08.2	+29.2 +0.9											



Date 1941 Jan 7-8 Tues. Br-B Julian Day 0002

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
6385	H3 2888	00 27.1	+42° 57	1-12	Astrav II	.010	-3.0 C	17 <sup>33</sup>	18 <sup>07</sup>	4
6386	8671	01 28.4	+42° 57	-	-	-	-3.0	18 <sup>22</sup>	19 <sup>10</sup>	1
6387	16, 108	02 30.2	+41° 58	-	-	-	-3.1	19 <sup>13</sup>	19 <sup>53</sup>	2
6388	21, 251	03 18.7	+12° 17	-	-	-	-3.1	20 <sup>04</sup>	21 <sup>00</sup>	3
6389	29, 111	04 31.0	+27° 43	-	-	-	-3.1	21 <sup>08</sup>	22 <sup>41</sup>	4
6390	45, 204	04 22.7	+21° 02	-	-	-	-3.1	22 <sup>51</sup>	23 <sup>51</sup>	1
6391	50, 763	06 49.5	+46° 49	-	-	-	-3.2	23 <sup>56</sup>	01 <sup>00</sup>	2
6392	59033	07 23.1	+61° 50	"	"	"	-3.2	01 <sup>16</sup>	03 <sup>18</sup>	3
6393	68322	08 06.8	+14° 19	"	"	"	-3.2	03 <sup>14</sup>	03 <sup>50</sup>	4
6394	68703	08 <sup>01.5</sup> 11.1	+17 <sup>58</sup> 52	"	"	"	-3.2	04 <sup>00</sup>	04 <sup>54</sup>	1
6395	81995	09 24.1	+45° 12	"	"	"	-3.3	05 <sup>01</sup>	06 <sup>15</sup>	2
6396	110462	12 33.2	+63° 16	"	"	"	-3.3	06 <sup>24</sup>	06 <sup>48</sup>	5
				Jan 9-10	Br-B			Observing Station, misty, high wind		
				Jan 10-11	H			Cloudy with snow all evening		
				Jan 11-12	M			Thick fog and haze.		

Printer at 17.65

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
4	+0 <sup>41</sup>	+43°12	1	6.43	A0	1-2-1 K5A 20(Y)
	+0 <sup>38</sup>	+43°11	1-2	6.58	F8	1-2-1 21(Hd)
	+0 <sup>20</sup>	+42°08	1-2	6.67	B8	1-2-1 22(Hd)
	+0 <sup>35</sup>	+42°26	1-2	7.00	G5	1-2-1 71(Y)
6	+1 <sup>07</sup>	+27°49	1-2	7.38	A0	1-2-1 48(Hd) Spots overexposed (30 min)!
	+0 <sup>18</sup>	+27°00	1-2	6.91	F5	1-2-1 50(H)
	1 <sup>06</sup> W	+46 47	1-2	7.03	K0	1-2-1 26(Y)
	2 <sup>34</sup> W	+61 54	1	7.53	G5	1-2-1 11(H)
4	2 <sup>40</sup> W	+14 10	1-2	6.54	A5	1-2-1 76(Hd)
1	3 <sup>31</sup> W	+17 50	1-2	6.71	F0	1-2-1 76(Y)
	3 <sup>42</sup> W	+45 02	1-2	7.26	A5	1-2-1 29(H)
	1 <sup>03</sup> W	+43 04	1-2	5.92	A0	1-2-1 B.S.C (Hd)

		HP	SC	SW	M.T.	ST
Jan. 8	13	+1 20.8	-52.4	+08.7	+28.2	+0.9
	9	+1 23.6	-53.1	+04.7	+24.2	+0.8
	10	+1 25.5	-51.9	+09.6	+24.6	+0.7
	11	+1 25	-52.4	+3.6	+23	+0.7

43

Date *Monday, Jan 13-14, 1941, M - 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 E.S.T.	D
							B				
6397	HD 8862	1 22.3	43 32	I-12	Astra D	.010	-5.3	17 49	20 31	4	
6398	28459	4 24.2	32 14	-	-	-	-5.3	20 38	22 16	1	
6399	45899	6 25.1	32 14	-	-	-	-5.3	22 20	01 00	2	
6400	80652	09 15.9	17 02	"	"	"	-5.4	01 11	03 51	3	
6401	99004	11 18.5	17 42	"	"	"	-5.8	04 00	06 50	1	
				Jan 14-15	B <sub>5</sub> -L			Cloudy with occasional breaks			
				16-17	B <sub>5</sub> -B			Freezing drizzle			
				B-14	B <sub>5</sub>			Cloudy with snow flurries and ice			
								found dome wheels would not turn. Sowed at ice, tried melting with blow torch			

Temp in Dome +3°F at 20<sup>h</sup>

24<sup>h</sup>  
p. 44

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Printer # 15.72	REMARKS
2 21 W	43 46	terrible	6.57	B9	1-2-1	Jan. 13 15 MC SC SW MTW STW +1.26.9 -51.0 +21.2 -17.4 +0.2 temp -6° for first few minutes Reset
1 04 W	32 23	"	6.17	B9	1-2-1	
1 48 W	32 13	"	6.89	B9	1-2-1	seeing as good as 0 at times
1 49 W	16 53	"	6.93	A5	1-2-1	
2 20 W	17 29	"	7.09	A2	1-2-1	
						Jan 14 10 +1.24.9 -51.6 +20.4 -10.8 +0.3 ½ t. & A
1 <sup>h</sup>	H started to rain				22 <sup>30</sup> but	15 10 +1.27.1 -51.9 +22.0 -10.9 +0.3
but to avail.	Cloudy by				01 <sup>h</sup>	16 12 +1.27.7 -49.9 +23.0 -13.0 +0.2
						17 10 +1.26.2 -50.2 +23.4 -15.0 +0.2
						18 10 +1.25 -50 +26.5 -15.5 +0.3
						20 12 +1.23.9 -49.5 +33.3 -16.8 +0.2



The flashlight is missing.

46

Observed at 131

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 <sup>17</sup> W	59 37	00	3.65	B <sub>8</sub>	1-2-1	USA 8 M Seeing very poor.
0 <sup>33</sup> W	54 52	00	5.61	B <sub>8</sub>	1-2-1	B.S.C Y
0 <sup>58</sup> W	42 25	0	6.25	B <sub>8</sub>	1-2-1	K.S.A. 23 M
1 <sup>32</sup> W	27 19	0-1	6.61	A <sub>0</sub>	1-2-1	K.S.A. 18 M Seeing better - Thick haze formed at 22 <sup>h</sup> . Completely cloudy at 22 <sup>h</sup> - cloudy.

	MC	SC	SW	MI	ST
Jan 21	10 +1 23.5	-49.7	+34.3	-19.4	+0.2 <sub>m</sub>
22	10 +1 23.4	-49.8	+35.1	-25.6	+0.1 <sub>m</sub>
23	10 +1 23.7	-49.6	+38.7	-27.8	+0.0

47

Date Thursday, January 23-24, 1941, H-S-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
6406	HD 3881	00 36.3	+59 23	I-12	Acta II	<sup>set</sup> 010	-4.3	18 <sup>02</sup>	20 <sup>32</sup>	2
6407	32784	05 00.5	+62 21	"	"	"	-4.5	20 <sup>37</sup>	21 <sup>37</sup>	1
6408	35815	05 22.3	+62 55	"	"	"	-4.5	21 <sup>41</sup>	23 <sup>13</sup>	4
6409	50551	06 49.7	+57 41	"	"	"	-4.8	23 <sup>19</sup>	01 <sup>01</sup>	1
6410	59152	07 23.6	+12 58	"	"	"	-4.8	01 <sup>09</sup>	(01 <sup>30</sup> )	2
				Jan 24-25	Bs-L	Stratus cloud	thick + solid; NE wind			
				25-26	Y-Bs	"	"		Calm. Clear	
				26-27	—	Cloudy				
				Tuesday 28-29	H-L	Cloudy with snow.				
				Thurs 30-31	Bs-L	Light snow; clearing in patches		19 <sup>15</sup>		
				Wed 29-30	Y-L	Stazy early evening, thicker later				

Light haze & clouds early evening made setting difficult. p. 77

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																																																															
3	48 W	+57 35	0	7.43	A0 1-2-1	KSA 8 <i>hazy, light haze PA clear</i>																																																															
0	27 W	+52 25	0-1	6.88	A5 1-2-1	10 <i>hazy, clear, not seeing</i>																																																															
	11	+52 57	1-2	7.46	A0 1-2-1	10																																																															
2	03 W	+57 37	1-0	7.20	K2 1-2-1	11																																																															
(2 <sup>nd</sup> )		+12 50	1	6.73	A5 1-3	75 <i>Clouds at 1<sup>30</sup> - closed up at 200</i>																																																															
<table border="1"> <thead> <tr> <th></th> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Jan. 24</td> <td>12</td> <td>+1 24.1</td> <td>-49.1</td> <td>+43.4</td> <td>-26.2<sup>s</sup></td> <td>+0.1<sup>m</sup></td> </tr> <tr> <td>25</td> <td>10</td> <td>+1 24.3</td> <td>-49.1</td> <td>+45.5</td> <td>-32.0</td> <td>-0.0<sup>m</sup></td> </tr> <tr> <td>27</td> <td>12</td> <td>+1 26.0</td> <td>-48.2</td> <td>+47.8</td> <td>-36.8</td> <td>-0.2</td> </tr> <tr> <td>28</td> <td>13</td> <td>+1 27.0</td> <td>-48.0</td> <td>+49.8</td> <td>-41.0</td> <td>-0.2</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>2</i> <sup>1/2</sup> <i>†</i> <sup>†</sup> <i>R</i> <sup>m</sup></td> <td><i>set</i> (-31.2 +0.1)</td> </tr> <tr> <td>29</td> <td>10</td> <td>+1 27.7</td> <td>-47.2</td> <td>+53.0</td> <td>-29.8</td> <td>+0.3</td> </tr> <tr> <td>30</td> <td>10</td> <td>+1 28.9</td> <td>-47.1</td> <td>+54.3</td> <td>-30.8</td> <td>+0.2</td> </tr> <tr> <td>31</td> <td>10</td> <td>+1 29.6</td> <td>-47.2</td> <td>+58.5</td> <td>-34.0</td> <td>+0.3</td> </tr> </tbody> </table>									MC	SC	SW	MT	ST	Jan. 24	12	+1 24.1	-49.1	+43.4	-26.2 <sup>s</sup>	+0.1 <sup>m</sup>	25	10	+1 24.3	-49.1	+45.5	-32.0	-0.0 <sup>m</sup>	27	12	+1 26.0	-48.2	+47.8	-36.8	-0.2	28	13	+1 27.0	-48.0	+49.8	-41.0	-0.2						<i>2</i> <sup>1/2</sup> <i>†</i> <sup>†</sup> <i>R</i> <sup>m</sup>	<i>set</i> (-31.2 +0.1)	29	10	+1 27.7	-47.2	+53.0	-29.8	+0.3	30	10	+1 28.9	-47.1	+54.3	-30.8	+0.2	31	10	+1 29.6	-47.2	+58.5	-34.0	+0.3
		MC	SC	SW	MT	ST																																																															
Jan. 24	12	+1 24.1	-49.1	+43.4	-26.2 <sup>s</sup>	+0.1 <sup>m</sup>																																																															
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<i>br. att., overcast w. light</i>																																																																					
<i>cloudy rest of night.</i>																																																																					





Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS		
1 21 W	+50 30	1	5.62	B9	1-2-1	BSC. Clouds at sunset; thin light snow		
0 44 W	+28 52	1	5.58	B9	1-2-1	BSC. Light clouds 18 <sup>52</sup> Clouds + tendency to snow; snow starts 17 <sup>40</sup>		
2 11 W	+63 04	1-2	7.02	F0	1-2-1	KSA 10 Light clouds 21 <sup>40</sup> at the last report most of time 24' - broken clouds B		
lowering to stratus								
Feb. 1	10	MC	+30.7	SC	-47.3	SW	M.T.	S.T.
		+1		+60.4	-32.8	+0.3		
	3	12	+1	32.0	-48.2	+6.9	-02.0	0.3
							Rest.	

51

Date Monday, Feb. 3-4, 1941 - B-1 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
6414	H.D. 16176	02 30.7	38 18	F-12 1/2	Lite II	310	-4.2	18 14	19 14	3
6415	22140	03 35.2	28 23	"	"	"	-4.4	19 20	20 50	4
6416	29646	04 35.0	28 25	"	"	"	-4.7	20 54	21 24	1
6417	36484	05 26.9	32 46	"	"	"	-4.7	21 30	22 26	2
6418	44250	06 15.7	30 01	"	"	"	-4.7	22 31	00 06	3
6419	56386	07 11.7	31 09	"	"	"	-5.0	00 10	00 56	4
6420	82191	09 25.4	27 50	"	"	"	-5.0	01 01	02 15	1
6421	103676	11 51.2	27 15	"	"	"	-5.0	02 21	03 55	2
				(over)						

Ending Time LST	Hour Angle End	Declination	Seeing	Ptg. Mag.		Loc	REMARKS
	1 <sup>18</sup> W	31 29	0	6.36	F5	1-2-1	B.S. (H) <i>Printer at 5th</i> High wind blowing down river through opening. Then haze.
	1 <sup>50</sup> W	28 29	1-0	6.87	B <sub>9</sub>	1-2-1	USA 47 (M)
	1 <sup>24</sup> W	28 29	1-0	5.88	A <sub>0</sub>	1-2-1	" 48 (M)
	1 <sup>17</sup> W	32 46	1	6.50	A <sub>0</sub>	1-2-1	" 49 (M) <i>Image same point.</i>
	2 <sup>25</sup> W	29 57	1-0	7.26	A <sub>0</sub>	1-2-1	" 50 (Y)
	2 <sup>20</sup> W	31 03	0	5.96	B <sub>9</sub>	1-2-1	" 51 (Y)
	1 <sup>26</sup> W	27 39	0	6.59	A <sub>0</sub>	1-2-1	" 53 M
	0 <sup>41</sup> W	29 00	0	7.21	F <sub>2</sub>	1-2-1	" 56 Y



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	exp.	REMARKS
0 <sup>12</sup> W	28 01	0	7.22 A <sup>2</sup>	1-2-1	Ha
0 <sup>13</sup> E	69 28	0	6.86 K <sub>0</sub>	1-2-1	B.S.C. Ha
					<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Feb. 4</p> <p>10</p> </div> <div style="text-align: center;"> <p>MC</p> <p>+1 31.6</p> </div> <div style="text-align: center;"> <p>SC</p> <p>- 42.3</p> </div> <div style="text-align: center;"> <p>SW</p> <p>+ 64.7</p> </div> <div style="text-align: center;"> <p>MT<sub>s</sub></p> <p>00.0</p> </div> <div style="text-align: center;"> <p>ST<sub>m</sub></p> <p>+0.1</p> </div> </div>

55

Date *Tuesday, February 4-5, 1941* H-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	De
6424	HD 15579	02 25.3	+46 09	I-12	Astria II	Sat 010	-6.0	18 <sup>09</sup>	19 <sup>39</sup>	1	5.8
6425	31590	04 52.0	+73 55	"	"	"	-5.8	19 <sup>44</sup>	20 <sup>10</sup>	2	10.0
6426	33441	05 05.2	+62 59	"	"	"	-5.8	20 <sup>14</sup>	21 <sup>24</sup>	3	10.0
6427	35815	05 22.3	+62 55	"	"	"	-5.9	21 <sup>17</sup>	22 <sup>37</sup>	4	10.0
6428	50551	06 48.7	+57 41	"	"	"	-6.0	22 <sup>40</sup>	23 <sup>20</sup>	1	10.0
6429	58917	07 22.6	+62 43	"	"	"	-6.0	23 <sup>28</sup>	01 <sup>03</sup>	2	10.0
6430	70843	08 19.1	+17 32	"	"	"	-6.0	00 <sup>11</sup>	01 <sup>29</sup>	2	10.0
6431	101091	11 32.9	+32 27	"	"	"	-6.0	01 <sup>37</sup>	02 <sup>59</sup>	4	10.0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
	1 51 W	+46 19	1-2	7.40	F2	1-2-1	KSA 22 <i>Thermostat 15.3</i> <i>Unstable</i>
	0 06 E	+73 58	2-3	6.06	A2	1-2-1	" 3 <i>T-14</i>
	0 46 W	+63 02	3	7.02	F0	1-2-1	" 10 <i>14</i>
	1 51 W	+62 57	3	7.46	A0	1-2-1	" 10 <i>Patches of light clouds.</i> <i>11</i>
	1 10 W	+57 40	3	7.20	K2	1-2-1	" 11 <i>Light haze occasionally</i> <i>12</i>
	1 21 W	+62 38	3	6.77	A0	1-2-1	" 11 <i>23<sup>30</sup> Hazy with fine rain.</i>
	1 50 W	+17 22	3	7.46	F5	1-2-1	" 96
	0 07 W	132 18	3-2	7.47	F2	1-2-1	" 55 <i>may a little fuzzy</i>







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Date 1941 Feb 5-6 Wed. Y-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
6433	HD 20346	3 113	38 56	I-12	Astra	011	-4.0	7 00	7 44	2
6434	HD 28354	4 232	27 10	"	"	"	-3.9	7 48	9 00	1 11 W
6435	HD 34250	5 109	28 49	"	"	"	-4.1	9 05	10 15	

Light cirrus or cumulus clouds during last

Low flying mist coming over during last

Feb 6-7 Bs-L (freezing drizzle & dense fog

7-8 Bs-B Light snow, thick low cloud

8-9 Bs-B " & strong SW wind

10-11 — Clear + cold

Thickish & uncertain at first slow getting started.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 15 W	39 05	1+	5.97	A <sub>0</sub> 1-1-1	BSC Y
1 19 W	27 16	1	6.61	A <sub>0</sub> 1-1-1	KSA 48 M
plate					
	28 49	1+	7.17	F <sub>0</sub> 1-1	KSA 49 H

	MC	SC	SW	MT	ST
Feb 6 14	+1 33.7	-42.4	+07.3	+10.2 <sup>s</sup>	+0.3 <sup>m</sup>
7 12	+1 33.8	-42.6	+09.4	+10.2 <sup>s</sup>	+0.3 <sup>m</sup>
8 10	+1 33.6	-42.6	+13.0	+09.0	+0.3
10 10	+1 34.5	-40.9	+15.3	+08.3	+0.2

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Date Monday Feb. 10-11, 1941 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1000	Instrument	Emulsion	Slit #	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D	
6436	H.D. 16855	02 37.1	43 07	I-12 $\frac{1}{2}$ inch D		110	-4.8	18 <sup>16</sup>	19 <sup>00</sup>	2	31	
				Temperature in spirit level rose to -4.5								
6437	21340	03 23.4	46 42	"	"	"	-4.9	19 "	20 <sup>25</sup>	3	31	
6438	34384	05 11.9	28 41	"	"	"	-4.2	20 <sup>31</sup>	21 <sup>51</sup>	4	31	
6439	46198	06 26.2	15 47	"	"	"	-4.5	21 <sup>37</sup>	23 <sup>37</sup>	1	31	
6440	59130	07 22.6	14 34	"	"	"	-4.7	23 <sup>43</sup>	0 <sup>00</sup>	2	31	
<p>Tuesday, February 11-12, 1941 H-L</p> <p>Cloudy most of evening. Clear but very hazy 11-12; then Sunday</p>												

Hour Angle  
EAT.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																					
31°W	43 16	2	6.72	A <sub>2</sub>	1-2-1 HSA. 22 M																					
is increasing. Heat control not turned on.																										
20°W	46 54	2	6.95	B <sub>7</sub>	1-2-1 HSA. 23 M Thin clouds																					
14°W	28 43	2-3	7.33	A <sub>3</sub>	1-2-1 " 79 Y																					
2°W	15 45	2-3	7.55	F <sub>5</sub>	1-2-1 " 74 Y Heat turned on. Point at 19.0																					
					Sky milky white with haze																					
	14 27	2-3	7.12	A <sub>3</sub>	1-2 HSA 75 Y Clearing up rapidly from overcast which at 10:00 cleared at 14:30 sky blue																					
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Feb. 11</td> <td>10</td> <td>+135.1</td> <td>-42.0</td> <td>+157</td> <td>+05.0</td> <td>+0.3<sup>m</sup></td> </tr> <tr> <td></td> <td>12</td> <td>+135.6</td> <td>-42.7</td> <td>+15.8</td> <td>-00.2</td> <td>+0.2<sup>m</sup></td> </tr> </tbody> </table>								MC	SC	SW	MT	ST	Feb. 11	10	+135.1	-42.0	+157	+05.0	+0.3 <sup>m</sup>		12	+135.6	-42.7	+15.8	-00.2	+0.2 <sup>m</sup>
		MC	SC	SW	MT	ST																				
Feb. 11	10	+135.1	-42.0	+157	+05.0	+0.3 <sup>m</sup>																				
	12	+135.6	-42.7	+15.8	-00.2	+0.2 <sup>m</sup>																				



Spent 1/2 hour calculating for the ...  
 Did not miss a great deal. ...

p. 64

Ending Time  
 E.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1.55 W	+32 51	0.1	73	F8	1-1-1	MC SC SW MT ST Feb 13 10 +135 -42 +17 -2 +0.1
10 30 - H early, avg. back from 21 <sup>30</sup>						
Feb. 15 10 +135.9 -42.9 +26.0 -04.8 <sup>s</sup> 0.0 <sup>m</sup>						
Feb. 17 10 +136.7 -43.9 +31.2 -20.0 -0.0 Rest (stopped)						
Feb. 18 10 +136.6 -44.5 +32.8 -24.0 <sup>s</sup> -0.1 <sup>m</sup>						
Feb. 19 10 +137.0 -44.7 +33.0 -04.0 <sup>s</sup> +0.0 <sup>m</sup> added 1.0 Rest						
Feb. 20 10 +137.9 -44.6 +35.8 -04.0 <sup>s</sup> -0.1 <sup>m</sup>						
Feb. 21 10 +139.0 -45.1 +38.1 -06.4 <sup>s</sup> -0.1 <sup>m</sup>						
22 10 +139.2 -45.5 <del>-05.5</del> -01.0 <sup>s</sup> -0.1 <sup>m</sup>						
Jan. Feb. 23-4 clear (about 1/2 to 1/2 night clear?) -21.5 Rest						
24 10 +139.6 -45.5 <del>-05.5</del> +05.0 <sup>s</sup> -0.2 <sup>m</sup> Rest (stopped)						
Feb 21-22 } B. ... 22-23 } ...						





Ending Time  
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS												
3 <sup>36</sup> W	46 54	1-0	6.95	B <sub>8</sub> 1-2-1 KSA. 23 M Strong star at first. Poor night as clouds slowly rising from S and W. Image lost most of time from 20 <sup>30</sup> 21 <sup>00</sup> . Few stars visible but night seems hopeless.												
2 <sup>04</sup> W	12 53	1-2	6.73	A <sub>5</sub> 1-2-1 KSA. 75 H Clear again. Best central. Turned on Printer at 181												
2 <sup>18</sup> W	14 47	1-2	6.14	A <sub>0</sub> 1-2-1 KSA. 76 M												
2 <sup>11</sup> W	32 35	1-2	6.58	A <sub>0</sub> 1-2-1 " 53 M Heavy, clouding up at 1 <sup>10</sup> on thick at 01 <sup>00</sup> ✓												
				<table border="0" style="width: 100%; text-align: center;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Feb. 25</td> <td>10 +1.39.6</td> <td>-46.1</td> <td>-13.9</td> <td>+03.0</td> <td>-0.2</td> </tr> </table>		MC	SC	SW	MT	ST	Feb. 25	10 +1.39.6	-46.1	-13.9	+03.0	-0.2
	MC	SC	SW	MT	ST											
Feb. 25	10 +1.39.6	-46.1	-13.9	+03.0	-0.2											



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
	+62 26	1	6.98	A5 1-2-1	KSA 10 Very windy.												
	+62 57		7.46	A0 1-2-	KSA 10 Clouds 21 <sup>05</sup> - 21 <sup>40</sup> ; star invisible much of this time. Cell end 21 <sup>10</sup> . Clouds at 21 <sup>45</sup> . Closed up 23 <sup>15</sup> still thick.												
					<table border="0" style="width: 100%; text-align: center;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td colspan="2">MT    ST</td> </tr> <tr> <td>Feb. 26</td> <td>10</td> <td>+1 39.9</td> <td>-46.4</td> <td>-12.8</td> <td>+01.2    -0.4</td> </tr> </table>		MC	SC	SW	MT    ST		Feb. 26	10	+1 39.9	-46.4	-12.8	+01.2    -0.4
	MC	SC	SW	MT    ST													
Feb. 26	10	+1 39.9	-46.4	-12.8	+01.2    -0.4												



Pointer at 15.0

Hour Angle End	Declination	Seeing	Ptg. Mag.	Position	REMARKS
+1 <sup>36</sup>	-27°15'	0-1	6.61	A0 1-2-1	KSA 45 (M)
+0 <sup>28</sup>	+12°34'	1	6.25	F0 1-2-1	74 (Hd)
+1 <sup>00</sup>	+42°25'	1	6.61	A0 1-2-1	26 (M)
+0 <sup>43</sup>	+17°50'	1	6.71	F0 1-2-1	76 (Y) Hare, kicking to end

	MC	SC	SW	MT	S.T.
Feb. 27	10 +140.2	-46.8	-08.2	+01.4	-0.3 <sup>m</sup>
28	10 +140.7	-46.8	-09.3	-02.2	-0.3 <sup>m</sup>
Mar. 1	10 +141.0	-47.2	-09.2	-05.3	-0.3 <sup>m</sup>

attempts to open some legs after sunrise.

Date 1941 Saturday March 1-2, H-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
6451	HD 31590	04 52.0	+73 55	I-12	Active II	cut 010	-6.3	18 42	19 12	3
6452	32784	05 00.5	+62 21	"	"	"	-6.3	19 18	20 12	4
6453	43646	06 12.2	+29 49	"	"	"	-6.4	20 16	21 26	1
6454	47731	06 35.0	+28 18	"	"	"	-6.3	21 31	22 31	2
6455	71151sp	08 20.7	+27 16	"	"	"	-6.4	22 35	23 15	3
6456	71151nf	"	"	"	"	"	"	23 16	00 06	4
6457	89239	10 12.6	27 55	"	"	"	-6.4	00 13	00 53	1
6458	93286	10 41.2	60 38	"	"	"	-6.4	01 02	02 30	2

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 <sup>35</sup> W	+73 58	1-2	6.06	A2 1-2-1	KSA 3
1 <sup>28</sup> W	+62 24	2	6.88	A5 1-2-1	KSA 10
1 <sup>31</sup> W	+29 48	2-1	6.86	A0 1-2-1	KSA 50 seeing becoming very unsteady at times
2 <sup>14</sup> W	+28 17	2	7.54	K0 1-2-1	KSA 50
1 <sup>12</sup> W	+27 08	2-3	(6.3)	A2 1-2-1	KSA 52
2 <sup>04</sup> W				1-2-1	
1 <sup>00</sup> W	27 43	2-3	6.44	B9 1-2-1	K.S.A. 54
2 <sup>12</sup> W	60 25	2-3	7.50	F0 1-2-1	KSA. 13



Date (Cont.) March 1-2, 1941, H-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
6459	HD 122365	13 56.4	09 22	I-12 1/2	Astria II	0.10	-6.4	02 <sup>39</sup>	03 <sup>05</sup>	3
6460	127726	14 27.9	27 08	"	"	"	-6.4	03 <sup>11</sup>	03 <sup>39</sup>	4
6461	132890	14 56.5	62 04	"	"	"	-6.4	03 <sup>49</sup>	04 <sup>49</sup>	1
6462	153720	16 56.0	75 34	"	"	"	-6.2	05 <sup>04</sup>	06 <sup>10</sup>	2
Sunday Mar. 2-3, 1941 - Cloudy										
Monday Mar. 3-4 Focus tests										
6462F (L)	Astria II	9-12		Outside through base				Focus 26.20	20.35	
6462F (B)	Astria II	27-30		"	"	"		Focus 26.20	20.35	
"		37-36						26.30	"	
"		27-36						26.50	"	
6462F (S)		"						26.15	"	
"		"						25.9	"	
"		"						25.75	"	

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																								
	0 <sup>32</sup> E	09 <sup>10</sup>	2	5.94	A <sub>2</sub> 1-2-1	B.S.C.																								
	0 <sup>29</sup> E	26 <sup>57</sup>	2	5.96	A <sub>2</sub> 1-2-1	B.S.C. Light switch in pier lock-room broken.																								
	0 <sup>14</sup> W	61 <sup>53</sup>	2-3	7.10	A <sub>2</sub> 1-2-1	K.S.A. 15																								
	0 <sup>22</sup> E	75 <sup>28</sup>	2-3	7.12	F <sub>0</sub> 1-2-1	K.S.A. 6																								
						<table border="0"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Mar. 3 10</td> <td>+1 41.7</td> <td>-48.3</td> <td>-08.3</td> <td>-01.2</td> <td>-0.4<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Reset</td> <td></td> <td></td> </tr> <tr> <td>Mar. 4 10</td> <td>+1 41.8</td> <td>-45.6</td> <td>-09.6</td> <td>-02.8<sup>s</sup></td> <td>-0.5<sup>m</sup></td> </tr> </tbody> </table>		MC	SC	SW	MT	ST	Mar. 3 10	+1 41.7	-48.3	-08.3	-01.2	-0.4 <sup>m</sup>				Reset			Mar. 4 10	+1 41.8	-45.6	-09.6	-02.8 <sup>s</sup>	-0.5 <sup>m</sup>
	MC	SC	SW	MT	ST																									
Mar. 3 10	+1 41.7	-48.3	-08.3	-01.2	-0.4 <sup>m</sup>																									
			Reset																											
Mar. 4 10	+1 41.8	-45.6	-09.6	-02.8 <sup>s</sup>	-0.5 <sup>m</sup>																									
Letter																														
"	5																													
"	4																													
"	2																													
"	5																													
"	8																													
		Camera focus left at 26.17																												

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Date Tuesday March 4-5 1941 H-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
6463	HD 35544	05 20.4	+43 17	I-12	astron II	010	-8.0	20 06	21 16	2
6464	59033	07 23.1	+61 58	"	"	"	-8.3	21 22	22 32	3
6465	74057	08 36.6	+32 13	"	"	"	-8.0	22 37	0 07	4
6466	93075	10 39.8	+57 26	"	"	"	-8.0	0 12	1 32	1
6467	114446	13 05.5	+57 22	"	"	"	-7.8	1 40	3 12	2
6468	132560	14 54.7	+58 02	"	"	"	-8.0	3 15	4 45	3
6469	150010	16 33.2	+72 49	"	"	"	-8.0	4 56	6 10	4

Put on visitor's eyepiece for aerial map class, some more, being almost hopeless. Looked at various objects with 2" glass. p. 76

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																					
2	25° W	+43 19	0	A0	6.75	1-2-1 KSA 25 - no spots on this plate																					
1	38° W	+61 55	1	G5	7.53	1-2-1 KSA 11																					
2	01° W	+32 06	1-2	F8	7.51	1-2-1 52 Moderately bright sun in with																					
1	32° W	+57 14	1-2	F0	7.31	1-2-1 KSA 13																					
0	36° W	+57 09	1-2	F0	7.51	1-2-1 " 14																					
0	23° W	+57 54	1-2	F2	7.47	1-2-1 " 15																					
0	18° W	+72 44	1-2	K0	7.45	1-2-1 " 6 Skyrock!																					
						<table border="0"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>S.W.</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Mar 5</td> <td>10</td> <td>+1 42.6</td> <td>-45.9</td> <td>-10.9</td> <td>+0.2</td> <td>-0.3</td> </tr> <tr> <td>Mar 6</td> <td>10</td> <td>+1 43.1</td> <td>-46.4</td> <td>-09.0</td> <td>+0.4</td> <td>-0.3</td> </tr> </table>			MC	SC	S.W.	MT	ST	Mar 5	10	+1 42.6	-45.9	-10.9	+0.2	-0.3	Mar 6	10	+1 43.1	-46.4	-09.0	+0.4	-0.3
		MC	SC	S.W.	MT	ST																					
Mar 5	10	+1 42.6	-45.9	-10.9	+0.2	-0.3																					
Mar 6	10	+1 43.1	-46.4	-09.0	+0.4	-0.3																					

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Date *Thurs. Mar. 6-7 1941, B-L* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Sht	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6470	H.D. 36484	05 26.9	32 44	I-12 1/2	Eastman II	.010	-3.0	18 <sup>54</sup>	20 <sup>28</sup>	1
6471	37519	05 34.1	31 18	"	"	"	-3.6	20 <sup>32</sup>	21 <sup>22</sup>	2
6472	42477	06 05.8	13 40	"	"	"	-3.8	21 <sup>28</sup>	22 <sup>14</sup>	3
6473	61295	07 33.5	32 14	"	"	"	-3.9	22 <sup>19</sup>	23 <sup>29</sup>	4
6474	76704	08 52.7	46 09	"	"	"	-3.9	23 <sup>34</sup>	01 <sup>04</sup>	1
6475	93847	10 44.9	56 46	"	"	"	-4.0	01 <sup>09</sup>	03 <sup>09</sup>	2
6476	133161	14 57.9	16 26	"	"	"	-4.0	03 <sup>20</sup>	04 <sup>56</sup>	3
6477	159870	17 31.9	57 38	"	"	"	-4.0	05 <sup>03</sup>	06 <sup>09</sup>	4

Printer at 16.9

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 <sup>39</sup> W	32 45	very poor	6.50	A <sub>0</sub>	1-2-1 K.S.A 49 M
2 <sup>25</sup> W	31 19	" "	5.91	B <sub>8</sub>	1-2-1 " " M
2 <sup>46</sup> W	13 40	0	5.92	A <sub>2</sub>	1-2-1 " 74 M
2 <sup>33</sup> W	32 09	0	6.42	F <sub>0</sub>	1-2-1 " 51 Hd
2 <sup>50</sup> W	46 00	1-0	6.51	A <sub>0</sub>	1-2-1 " 28 M
3 <sup>03</sup> W	56 35	1	7.32	B <sub>9</sub>	1-2-1 " 13 M
0 <sup>37</sup> W	16 15	1-0	7.55	G <sub>0</sub>	1-2-1 " 83 Hd
0 <sup>42</sup> E	57 36	1	6.51	F <sub>2</sub>	1-2-1 " 16 Hd
					Mar 7 10 <sup>MC</sup> +1.439 -46.9 -10.0 <sup>MT</sup> +0.5 <sup>ST</sup> -0.3

79

Date *March 7-8 Fri* Y-

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Est
6478	HD 37646	5 36.0	29 42.6	I-12	Arha II	01.0	-08	7 <sup>00</sup>	9 <sup>00</sup>	1
<p><i>Saturday, March 8-9, 1941 H-B</i></p> <p><i>Thick haze, only moon visible most of time.</i></p> <p><i>Sunday March 9-10, mostly clear</i></p>										

Ponter 19.20

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																														
2 03 W	29 26	0	6.75	A 1-	<p>This Baghatar star</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">MC</td> <td style="text-align: center;">SC</td> <td style="text-align: center;">SW</td> <td style="text-align: center;">MT</td> <td style="text-align: center;">ST</td> </tr> <tr> <td>Mar 8 10</td> <td style="text-align: right;">+1 44.9</td> <td style="text-align: right;">-47.1</td> <td style="text-align: right;">-08.6</td> <td style="text-align: right;">+1 44.9<sup>s</sup></td> <td style="text-align: right;">-0.3<sup>m</sup></td> </tr> <tr> <td>Mar. 10 10</td> <td style="text-align: right;">+ 1 47.2</td> <td style="text-align: right;">- 47.7</td> <td style="text-align: right;">-13.3</td> <td style="text-align: right;">+06.0<sup>s</sup></td> <td style="text-align: right;">-0.0<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Rest</td> <td style="text-align: center;">Rest</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="3" style="text-align: center;">(stopped)</td> </tr> </table>		MC	SC	SW	MT	ST	Mar 8 10	+1 44.9	-47.1	-08.6	+1 44.9 <sup>s</sup>	-0.3 <sup>m</sup>	Mar. 10 10	+ 1 47.2	- 47.7	-13.3	+06.0 <sup>s</sup>	-0.0 <sup>m</sup>				Rest	Rest					(stopped)		
	MC	SC	SW	MT	ST																														
Mar 8 10	+1 44.9	-47.1	-08.6	+1 44.9 <sup>s</sup>	-0.3 <sup>m</sup>																														
Mar. 10 10	+ 1 47.2	- 47.7	-13.3	+06.0 <sup>s</sup>	-0.0 <sup>m</sup>																														
			Rest	Rest																															
			(stopped)																																





Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																					
	0 <sup>51</sup> W	15 18	1	5.84	A <sub>2</sub> 1-2-1	M.S.A. 73 Y																					
	2 <sup>08</sup> W	29 27	1	6.75	A 1-2-1	" 49 M Started exposure on brighter star, then changed to other. Hazy																					
	1 <sup>27</sup> W	31 04	1-0	5.96	B <sub>9</sub> 1-2-1	K.S.A. 75 Y This drifting clouds A tube fell out of the spectrometer. Set on HD 58244, but more clouds came up from Closed up at 22 <sup>30</sup> ; few stars visible																					
						<table border="1"> <thead> <tr> <th></th> <th></th> <th>MP</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Mar. 11</td> <td>10</td> <td>+148.3</td> <td>-48.2</td> <td>-12.9</td> <td>-04.8</td> <td>+0.1<sup>m</sup></td> </tr> <tr> <td></td> <td>12</td> <td>+149.3</td> <td>-48.7</td> <td>-11.0</td> <td>-05.8</td> <td>+0.1<sup>m</sup></td> </tr> </tbody> </table>			MP	SC	SW	MT	ST	Mar. 11	10	+148.3	-48.2	-12.9	-04.8	+0.1 <sup>m</sup>		12	+149.3	-48.7	-11.0	-05.8	+0.1 <sup>m</sup>
		MP	SC	SW	MT	ST																					
Mar. 11	10	+148.3	-48.2	-12.9	-04.8	+0.1 <sup>m</sup>																					
	12	+149.3	-48.7	-11.0	-05.8	+0.1 <sup>m</sup>																					

Date Wed March 12-13 1941 Y-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
6482	HD 37646	05 350	29 26	I-12	astral II	010	+0.5	7 00	8 00	1
6483	HD 57069	07 46	29 55	"	"	"	+0.5	8 05	9 05	2
6484	HD 65703	08 085	17 58	"	"	"	+0.8	9 12	10 02	3
6485	HD 76704	08 527	46 09	"	"	"	+0.3	10 07	10 57	4
6486	HD 86166	09 517	45 53	"	"	"	+0.2	11 04	00 24	1
6487	HD 101056	11 326	29 13	"	"	"	+0.3	00 30	01 44	2
6488	" 114723	13 073	32 39	"	"	"	+0.2	01 48	03 04	3
6489	" 127339	14 269	18 05	"	"	"	+0.2	03 10	05 14	4
6490	" 157078	17 215	07 41	"	"	"	+0.2	05 20	06 00	1

Pointer 20.20

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
1 25 <sup>m</sup> W	29 26	0-1	675	A	1-1-1	Br. # of double
50 <sup>m</sup> W	29 50	1	717	A2	1-1-1	Y
55 <sup>m</sup> W	17 51	1	671	F0	1-1-1	Y
"	45 58	1-2	669	A0	1-1-1	M
1 34 W	45 42	2-1-0	750	K0	1-2-1	H. seeing variable
1 07 W	29 00	2-1	698	A0	1-2-1	KSAV 55 (M)
0 59 W	32 25	1	716	F2	1-2-1	" 57 Y average
1 50 W	17 54	2-1	753	F5	1-2-1	" 82 (M) light end
0 18 E	07 37	1-0	598	A0 B	1-2-1	BSC 141

	MC	SC	SW	MT	ST
Mar. 13	10 +1 50.3	-49.1	-09.1	-02.4	+00 <sup>m</sup>



Pointer at 22.9

Fading Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS															
2 <sup>40</sup> N	28 30	00	5.68	A <sub>0</sub> 1-2-1	K.S.A. 48 M. Seeing very poor and sky hazy.															
0 <sup>08</sup> E	41 11	0	5.82	A <sub>5</sub> 1-2-1	B.S.C. Hd. Sky mostly clear, light haze.															
0 <sup>55</sup> E	14 42	0	5.77	A <sub>0</sub> 1-2-1	" Hd															
0 <sup>26</sup> E	54 48	0	5.74	A <sub>0</sub> 1-2-1	" H <i>Grey</i>															
0 <sup>10</sup> E	77 44	0	6.66	A <sub>0</sub> 1-2-1	K.S.A.G M.															
					<table border="0" style="width: 100%; text-align: center;"> <tr> <td>MC</td> <td>SC</td> <td>MT</td> <td>ST</td> <td>SW</td> </tr> <tr> <td>Max. 1.4 +</td> <td>152.1 -</td> <td>47.5</td> <td>+01.0</td> <td>+0.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>-08.6</td> </tr> </table>	MC	SC	MT	ST	SW	Max. 1.4 +	152.1 -	47.5	+01.0	+0.1					-08.6
MC	SC	MT	ST	SW																
Max. 1.4 +	152.1 -	47.5	+01.0	+0.1																
				-08.6																

Date Friday March 14-15, 1941 H-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
6496	HD 35802	05 22.2	+17 10	I-12	A <sub>2</sub> E II	Set 010	+3.0	19 01	19 51	3
6497	HD 44234	06 15.6	+17 49	"	"	"	+3.1	19 54	20 54	4
6498	47731	06 35.0	+28 18	"	"	"	+3.1	20 59	22 03	1
6499	70843	08 19.1	+17 32	"	"	"	+3.2	22 07	23 17	2
6500	93655	10 43.6	-01 26	"	"	"	+3.2	23 22	25 34	3
6501	138562	15 27.8	-0 51	"	"	"	+3.4	1 18	2 40	4
6502	139137	15 31.4	-0 14	"	"	"	+3.8	2 46	4 00	1
6503	162115	17 44.3	+2 00	"	"	"	+3.6	4 07	6 01	2
				Sun. Mar. 16-17		cloudy - snow.				

Pointer 23.3

Ending Time  
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 38W	+17 12	1-2	7.22	K5 1-2-1	KSA, 73 Zodiacal light visible 19 <sup>30</sup> - 20 <sup>05</sup> - 19 <sup>40</sup>
1 48W	+17 46	2	7.46	K0 1-2-1	KSA 74
2 08W	+28 15	2-1	7.54	K0 1-2-1	" 50 being unsteady at times
2 07W	+17 23	2	7.46	F5 1-2-1	" 76
1 00W	-01 38	2	7.54	M2 1-2-1	" 102 Light large 23 <sup>45</sup> Image barely visible at end of exposure.
1 37E	-0 58	2	6.76	K0 1-2-1	" 107 Stage thinner than Temp. rose because of a poor contact.
0 21E	-0 23	2	6.93	F8 1-2-1	" 107 Rejected print to 223 Bill Luzz
0 32E	2 00	1-2	7.46	K0 1-2-1	" 109

Mar. 15 10 MC SC SW MT ST  
+1.52.5 -47.3 -06.7 +01.1 +0.2





Visibility of stars on clear nights improved since the clearing  
up surfaces of parts of existing telescopes (March 15)

Temperature set 14.3

p. 90

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS								
				MC	SC	SW	MT	ST				
				11.17	10	+1532	-476	+14.5	+24.1	+0.4		
										that		
				18	10	+1540	-466	+16.5	+24.0	+0.4		
2	38W	+27 37	0-1	7.47	KO	1-2-1	KSA 49	Light bright with 19.50				
2	16W	+12 46	1	7.37	G5	1-2-1	KSA 75	Light with clouds				
								Becoming very hazy. High wind & light rain				
								closed shutter 22. 20. Lead up 22. 50				
								MC	SC	SW	MT	ST
				Mar 19	10	+1560	-471	+19.7	+24.2	+0.4		



High level visibility still quite strong  
at Summit

Position set 15.65

p. 92

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS												
	8 <sup>m</sup> W	+32 01	1-2	6.81	A <sub>0</sub>	1-1-1	RSA 51 Hd												
	36 <sup>m</sup> W	+32 28	1-2	7.56	A <sub>3</sub>	1-1-1	- 52 M												
	13 <sup>m</sup> W	+27 38	1-2	6.59	A <sub>0</sub>	1-1-1	53 M												
11:31	29 <sup>m</sup> E	+25 48	1-2	7.36	A <sub>2</sub>	1-1-1	near S <sub>5</sub> † Y												
25	0 <sup>42</sup> W	+27 37	1-2	7.46	A <sub>2</sub>	1-2-1	" Y												
	0 <sup>47</sup> W	34 26	1-2	6.98	K <sub>0</sub>	1-2-1	B.S.C. Hd												
	0 <sup>26</sup> W	-55 39	2-3	7.17	K <sub>5</sub>	1-2-1	" Hd												
	0 <sup>00</sup>	+55 39	3	6.97	K <sub>2</sub>	1-2-1	" Hd												
	0 <sup>49</sup> W	-55 59	3-2-1	6.92	K <sub>0</sub>	1-2-1	" Hd On the mic. seeing bad												
	0 <sup>04</sup> W	+53 27	1	7.13	K <sub>5</sub>	1-2-1	" Hd												
							<table border="0" style="width: 100%; text-align: center;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Max. 20</td> <td>10</td> <td>+157.5</td> <td>-47.2</td> <td>+30.7</td> <td>+25.2 +0.4<sup>m</sup></td> </tr> </table>		MC	SC	SW	MT	ST	Max. 20	10	+157.5	-47.2	+30.7	+25.2 +0.4 <sup>m</sup>
	MC	SC	SW	MT	ST														
Max. 20	10	+157.5	-47.2	+30.7	+25.2 +0.4 <sup>m</sup>														

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Date *Thurs. Mar 20-21, 1941* B-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
6516	H.D. 42476	06 23.8	17 24	I-12	Dentra II	.010	-3.8	19 <sup>21</sup>	20 <sup>35</sup>	3
6517	45757	06 24.2	17 59	"	"	"	-3.8	20 <sup>40</sup>	22 <sup>10</sup>	4
6518	77986	09 00.6	16 15	"	"	"	-3.7	22 <sup>15</sup>	23 <sup>31</sup>	1
6519	109756	12 32.0	-01 46	"	"	"	-3.8	23 <sup>37</sup>	01 <sup>31</sup>	2
6520	" 130557	14 43.8	-00 26	"	"	"	-3.9	01 <sup>44</sup>	02 <sup>34</sup>	3
6521	" 140122	15 36.9	+00 46	"	"	"		02 <sup>59</sup>	04 <sup>59</sup>	4
6522	" 163472	17 51.2	+00 42	"	"	"	-3.8	04 <sup>5</sup> 05	05 <sup>35</sup>	1

Trouble opening shutters. Motor died after giving 2 or 3 inches. Circuit breaker off, and shutters close all right. Had to crank shutters open.

p. 94

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Exposure	Remarks
2 <sup>00</sup> W	17 <sup>22</sup>	1	6.91 A <sub>0</sub>	1-2-1	4.5A. 7+ M
3 <sup>20</sup> W	17 <sup>58</sup>	1-2	2.93 F?	1-2-1	" " M Increasing wind
2 <sup>04</sup> W	16 <sup>05</sup>	1-2	7.25 B <sub>9</sub>	1-2-1	" 79 M Difficult keeping star on slit
0 <sup>40</sup> W	-2 <sup>00</sup>	1-0	7.40 F <sub>5</sub>	1-2-1	" 104 (Eq. list)
0 <sup>35</sup> E	-00 <sup>39</sup>	1-0	6.56 A <sub>0</sub>	1-2-1	" 106 (Eq. list) Image unstable
0 <sup>59</sup> W	+00 <sup>40</sup>	1-0	7.39 A <sub>0</sub>	1-2-1	" 107 (Eq. list)
0 <sup>41</sup> E	+00 <sup>41</sup>	1-0	5.56 B <sub>3</sub>	1-2-1	" 109 (Eq. list)

Repaired broken spring contact on dome opening mechanism.  
Dome now opens OK - Longworth

	MC	SC	SW	MT	ST
Mar. 21	10	+1.487	-47.6	+22.8	+0.4



Temperature set at 18.4

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
2 02W	+17 10	2	7.47	K0	1-2-1	KSA 74 <i>thin very astigmatism, long lines</i>
2 09W	+12 48	2-1	7.37	G5	1-2-1	75 <i>blind</i>
1 42W	+60 30	1-0	7.34	G5	1-2-1	KSA 12 <i>diff. blind!</i>
2 44W	+60 27	1-0	7.37	F8	1-1-1	13 "
2 11W	+32 50	1	7.31	G0	1-1-1	57
2 24W	-42 05	1-2	7.01	G0	1-1-1	34
1 05E	+65 25	1	6.38	A3	1-1-1	B.S.C.

		MC	SC	SW	MT	S.T.
Max 22	10	+1.59.1	-47.4	+26.7	+30.0	+0.4 <sup>m</sup>



Date Mar 22-23 Sat.

Y. - B

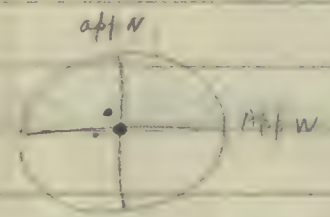
Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
6530	HD 57069	7 146	29 55	3-12	Astro "	010	10.3	7 15	8 35	1
6531	HD 71537	8 229	33 02	"	"	"	+0.2	8 35	9 45	2
6532	HD 80580	9 156	32 41	"	"	"	+0.1	9 50	10 50	3
6533	HD 103799	11 521	40 55	"	"	"	+0.2	11 50	12 00	4
	There are 3 stars in field $\textcircled{4}$ 2 look north and East and brightest star									
6534	HD 107053	12 135	33 18	"	"	"	+0.2	00 06	01 06	1
6535	116634	13 19.8	32 37	"	"	"	+0.1	01 10	02 20	2
	Focus test				Outside through base		+0.2	Focus	26.16	
6536	135 679	15 163	26 01	"	"	"	+0.1	04 46	05 46	3
	Sun - cloudy									
	Moon B-L cloudy									
	Sun Mar 25 Belayed focus to 26.18									
6536 F	Focus test				Outside the base	010	+0.2			1

Scale 20.3

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS																								
57 <sup>m</sup> W	29 51	1	717	A2	1-1-1	KSA 51 Y																								
03 W	32 54	1	666	A0	1-1-1	KSA 52 M																								
15 W	32 30	1-2	658	A0	1-1-1	KSA 53 M																								
10 <sup>m</sup> E	40 40	1-2	696	F5	1-1-1	KSA 31 Supp (OK) -																								
please check.																														
0 <sup>35</sup> W	33 03	1-2	682	A0	1-1-1	56																								
1 <sup>43</sup> W	32 23	1-2	2.55	A2	1-1-1	59 (g) sky filling in with haze at 2 <sup>35</sup> image gone at																								
					10-8																									
2 <sup>18</sup> W	25 51	1-2	6.67	A0	1-1-1	" 59 clear again.																								
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>NT</td> <td>ST</td> </tr> <tr> <td>Mar. 24</td> <td>10 +1 59.2</td> <td>-45.0</td> <td>-153</td> <td>-0.3</td> <td>+0.4</td> </tr> <tr> <td></td> <td>added 1.0wt.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Rent watches</td> <td>- stopped</td> </tr> </table>		MC	SC	SW	NT	ST	Mar. 24	10 +1 59.2	-45.0	-153	-0.3	+0.4		added 1.0wt.									Rent watches	- stopped
	MC	SC	SW	NT	ST																									
Mar. 24	10 +1 59.2	-45.0	-153	-0.3	+0.4																									
	added 1.0wt.																													
				Rent watches	- stopped																									
Trans 26.18 till 20.33					8-6																									
						<table border="0"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mar. 25</td> <td>10 +1 57.5</td> <td>-42.0</td> <td>+0.1</td> <td>-04.2</td> <td>+0.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Rent</td> <td></td> <td></td> </tr> </table>							Mar. 25	10 +1 57.5	-42.0	+0.1	-04.2	+0.4				Rent								
Mar. 25	10 +1 57.5	-42.0	+0.1	-04.2	+0.4																									
			Rent																											



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Date Tuesday March 25-26, 1941 H-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	Dec
6536	Test film										
	$\beta$ Gem	7 41.5	+28 10	Cass wrist camera				19 <sup>44</sup>			
6536	Test film				Sup. X film			20 <sup>04</sup>			
	K Gem										
6537	H D 59033	07 23.1	+61 58	I-12	Astr. U	010	+1.0	20 <sup>18</sup>	21 <sup>38</sup>	4	
6538	74057	08 36.6	+32 13	"	"	"	+0.9	21 <sup>43</sup>	22 <sup>13</sup>	1	
6539	98823	11 17.3	+40 44	"	"	"	+0.7	23 <sup>16</sup>	02 <sup>16</sup>	2	
6540	117817	13 27.7	+14 54	*	"	"	+0.8	00 <sup>23</sup>	02 <sup>03</sup>	3	
6541	127740	14 28.6	+14 31	"	"	"	+0.8	02 <sup>08</sup>	03 <sup>45</sup>	1	
6542	143597	15 56.3	+13 34	"	"	"	+0.8	03 <sup>55</sup>	05 <sup>35</sup>	2	
Wed. Mar. 26 B Added another filter to compare											

Temperature set 21.2

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS												
			1.21 K0		Trail across 16 mm film, clock stopped												
			3.70 G5		" " " " " "												
2 06 W	+61 52	1-2	7.53 G5	1-1-1	KSA 11 Pattern unstable due to 1/2 wind												
2 29 W	+32 05	1-2	7.54 F8	1-1-1	52												
3 52 W	+40 31	1	7.05 F5	1-1-1	31 (diff)												
0 29 W	+14 42	1	7.36 F0	1-1-1	81 new list												
1 14 W	+14 14	1	7.46 F5	1-1-1	82 new list strongly suspect that I forgot to draw the scale												
1 33 W	+13 24	1	7.44 F5	1-1-1	84 new list haze, clouds												
2 <sup>nd</sup> - 2 <sup>nd</sup> - 2 <sup>nd</sup> gives a good exposure.																	
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST<sub>m</sub></td> </tr> <tr> <td>Mar. 27</td> <td>10 +1 53.4</td> <td>-41.7</td> <td>+08.3</td> <td>-10.8</td> <td>+0.2</td> </tr> </table>							MC	SC	SW	MT	ST <sub>m</sub>	Mar. 27	10 +1 53.4	-41.7	+08.3	-10.8	+0.2
	MC	SC	SW	MT	ST <sub>m</sub>												
Mar. 27	10 +1 53.4	-41.7	+08.3	-10.8	+0.2												



Printer at 232

Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS																			
2:39 W	17 20	1-0	612	B8	2-2-2	74 H	Hazy																			
Showed H's students the telescope																										
5:34 W	31 49	1-0	663	B8	2-2-2	51 Hd	and its companion.																			
Sky filling in 21 <sup>h</sup> . Image nearly gone at 21 <sup>44</sup> .																										
Cloudy																										
<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td colspan="2" style="text-align: center;">M<sub>5</sub> ST<sub>24</sub></td> <td colspan="2"></td> </tr> <tr> <td>Mar. 28</td> <td>10</td> <td>+152.0</td> <td>-409</td> <td>+10.3</td> <td>-12.8</td> <td>+0.1</td> <td colspan="2"></td> </tr> </table>											MC	SC	SW	M <sub>5</sub> ST <sub>24</sub>				Mar. 28	10	+152.0	-409	+10.3	-12.8	+0.1		
		MC	SC	SW	M <sub>5</sub> ST <sub>24</sub>																					
Mar. 28	10	+152.0	-409	+10.3	-12.8	+0.1																				



Pointer 23.5-

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comb.	REMARKS																		
6 <sup>m</sup> W	32 16	0-1	698	A2	2-2-2	Y KSA 26																		
20 <sup>m</sup> E	28 26	1-2	688	G5	2-2-2	Y not up 5																		
8 <sup>m</sup> E	25 46	1-0	736	A2	2-2-2	Y not up 5																		
<i>cloudy, cloudy.</i>																								
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Mar. 29</td> <td>10</td> <td>+1 50.4</td> <td>-41.2</td> <td>+12.2</td> <td>-12.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+0.1</td> </tr> </table>		MC	SC	SW	MT	ST	Mar. 29	10	+1 50.4	-41.2	+12.2	-12.0						+0.1
	MC	SC	SW	MT	ST																			
Mar. 29	10	+1 50.4	-41.2	+12.2	-12.0																			
					+0.1																			



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Date Saturday March 29-30, 1941 H. 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	D
6547	HD 44234	06 15.6	+17 49	I-12	data II	<sup>5.7</sup> 010	-2.6	19 22	21 22	1	3 1/2
6548	90512	10 21.9	+11 49	"	"	"	-2.6	21 27	23 07	2	1 1/2
6549	100030	11 25.5	+48 29	"	"	"	-2.4	23 12	00 40	3	1 1/2
6550	103984	11 53.7	+48 19	"	"	"	-2.4	00 51	02 59	4	1 1/2
6551	124186	14 06.9	32 45	"	"	"	-2.4	03 09	04 30	1	1 1/2
6552	157978-9	17 21.5	07 41	"	"	"	-2.5	04 56	05 39	1	1 1/2
Sun Mar 30-31, 1941 — Increasing cloudiness											

Thermostat set 19.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22	3 16 W	+17 48	0	7.46	K0 2-2-2	KSA 74 - find tracklines at turning
23	0 54 W	+11 35	0-1	7.38	G5 2-2-2	KSA 78 - faint source 21 <sup>h</sup> 22 <sup>h</sup> / faintly still wanted
24	1 29 W	+48 15	0-1	7.16	G5 2-2-2	S <sub>11</sub> 31
25	3 15 W	+48 05	1-0	7.39	F2 2-2-2	S <sub>11</sub> 31
26	2 58 W	+32 35	1-0	7.31	K2 2-2-2	S <sub>11</sub> 58
27	0 22 W	07 40	1	5.98	A <sub>2</sub> 2-2-2	BSC This starts forming at 5 <sup>h</sup>

	MC	SC	SW	ST	MT
Mar. 31 10	+1.47	-41	+0.4	-0.7	-1.5
Apr. 1 10	+1.45.8	-40.9	+0.4	+0.4	-0.3

reset  
reset  
MT ST<sub>m</sub>

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Date Tuesday April 1-2, 1941 14-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
6553	HD 604106	07 29.2	+61 46	I-12	Astra II	<sup>set</sup> 010	+5.8	19 29	21 09	3
6554	" 104381	11 56.1	+12 56	"	"	"	+5.8	22 45	01 09	4
6555	" 117817	13 27.7	+14 54	"	"	"	+5.8	00 35	02 15	1
6556	" 127740	14 28.0	+14 31	"	"	"	+5.5	02 19	03 59	2
6557	" 145223	16 04.7	+12 01	"	"	"	+5.5	04 03	05 23	3
6557 <sub>F</sub>	B Focus test			"	"	.005	+2.0	Actual time	Actual time	A

Suggest 24.9

Hour Angle Hnd	Declination	Seeing	Ptg. Mag.	REMARKS
2.00 W	+61 42	1	7.59 F5 2-2-2	KSA 11 Telescope E of J [Occultation of Aldebaran observed with many filon in comparison]
0 34 W	+12 41	0-1	6.93 A0 2-2-2	K.S.A 80 New list.
1 09 W	+14 41	1	7.36 F0 2-2-2	" 81 " "
1 52 W	+14 17	1	7.46 F5 2-2-2	" 82 " "
1 40 W	+11 54	1-0	7.27 F2 2-2-2	" 84 " "

Col. 16.57.26.18 Alt 20.32

1/16-18

2-2-2 comparisons rather weak. Suggest 3-3-3 H.

	MC	SC	SW	MT	ST
Apr. 2. 10	+1 44.3	-40.5	+11.8	+04.0	+0.7 Rest



Pos. lat 23.5°

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS												
11 <sup>m</sup> W	47 06	1-2	699	G5 3-3-3	HQ. KSA 28												
29 W	27 40	1	659	A0 3-3-3	M 53												
40 <sup>m</sup> W	41 36	1-2	738	F0 3-3-3	Y KSA Supp 30												
0 52 W	27 36	1-2	746	A2 3-3-3	Y " 56												
0 30 W	26 05	1-0	725	F5 3-3-3	K.S.A. 58 New list												
0 38 W	31 44	1	728	F5 3-3-3	" 59 " "												
0 32 W	28 59	1	758	F0 3-3-3	" 61 " "												
					<table border="0" style="width: 100%; text-align: center;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Apr. 3</td> <td>10 +1 43.1</td> <td>-40.3</td> <td>+12.4</td> <td>+03.0</td> <td>+0.2</td> </tr> </table>		MC	SC	SW	MT	ST	Apr. 3	10 +1 43.1	-40.3	+12.4	+03.0	+0.2
	MC	SC	SW	MT	ST												
Apr. 3	10 +1 43.1	-40.3	+12.4	+03.0	+0.2												

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Date Thurs. Ap. 3-4, 1941 B-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
6565	H.D. 58244	07 19.7	32 06	1-12 1/2	Orto II	.012	+8.3	19 31	20 39	1
6566	67959	02 05.3	14 56	"	"	.010	+8.3	20 44	21 54	2
<i>↑ started old after beginning of day</i>										
6567	89363	10 13.6	18 13	"	"	"	+7.8	22 45	23 45	3
6568	98153	11 12.9	27 54	"	"	"	+7.8	23 48	00 58	4
6569	121648	13 51.6	26 25	"	"	"	+7.8	01 03	02 03	1
6570	131495	14 48.8	33 06	"	"	"	+7.8	02 07	03 27	2
6571	151237	16 41.1	28 32	"	"	"	+7.8	03 32	05 16	3
				<i>Friday April 4-5-1941 H-B. Cloudy</i>						

Center at 27.1

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS		
1 47 W	32 01	1-0	6.81	A0	3-3-3 K.S.A. 51 Hd. Discontinued telescope to group of H's students. Hazy		
2 16 W	14 47	1	6.14	A0	3-3-3 " 76 M. Thick haze. Stopped work because of haze. Hazy clear by 22 <sup>50</sup>		
2 00 W	17 59	1	6.62	A0	3-3-3 " 78 New lid Y. Center end at 26.3		
2 14 W	27 42	1	6.56	A2	3-3-3 " 55 " H. Hazy		
0 41 W	26 13	1	6.97	F0	3-3-3 " 58 " Y		
1 08 W	32 54	1-0	7.21	F2	3-3-3 " 59 " H. Hazy		
1 05 W	28 27	1	7.57	F5	3-3-3 " 51 " H. Hazy light clear		
			NC	SC	SW	MT	ST
Apr. 4	10	+1 41.7	-39.7	+18.0	+05.2	+0.2	
Apr. 5	10	+1 40.7	-39.5	+20.4	+02.2	+0.2	



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Date Sunday Apr 6-7 Y. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
6572	HD 74546	8 39.5	+28 48	T 12	Astromat	010	+10.2	7 32	9 32.4

Hour Angle  
Dist

135.4

Panama 28.5°

Ending Time  
R.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS																		
1 37W	+28 38	0-1	7.58	F2	3-3-3																			
						<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Apr. 7 12</td> <td>+1 37.7</td> <td>-37.5</td> <td>+01.5</td> <td>-13.3</td> <td>+0.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Reset</td> <td>Reset</td> <td></td> </tr> </table>		MC	SC	SW	MT	ST	Apr. 7 12	+1 37.7	-37.5	+01.5	-13.3	+0.1				Reset	Reset	
	MC	SC	SW	MT	ST																			
Apr. 7 12	+1 37.7	-37.5	+01.5	-13.3	+0.1																			
			Reset	Reset																				



Counter at 2.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS														
2 <sup>14</sup>	W	31 48	1	6.63	B <sub>8</sub>	3-3-3 K.S.A. 51 Hd.														
2 <sup>00</sup>	W	16 06	1	7.23	B <sub>9</sub>	3-3-3 " 77 M														
87271 too near the moon.																				
1 <sup>28</sup>	W	18 05	1	6.99	A <sub>0</sub>	3-3-3 K.S.A. 79 Y No list Light cloud drifting by from N.														
1 <sup>53</sup>	W	28 43	1	6.59	A <sub>2</sub>	3-3-3 " 56 H "														
2 <sup>19</sup>	W	26 51	1	7.46	A <sub>2</sub>	3-3-3 " 58 H "														
0 <sup>43</sup>	W	32 44	1	6.83	A <sub>0</sub>	3-3-3 " 61 Y "														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Apr. 8</td> <td>10</td> <td>+1 36.7</td> <td>-38.2</td> <td>+02.9</td> <td>-14.8</td> <td>+0.3<sup>m</sup></td> </tr> </table>									MC	SC	SW	MT	ST	Apr. 8	10	+1 36.7	-38.2	+02.9	-14.8	+0.3 <sup>m</sup>
		MC	SC	SW	MT	ST														
Apr. 8	10	+1 36.7	-38.2	+02.9	-14.8	+0.3 <sup>m</sup>														



Y furnished mirrors Monday; much better, but pretty badly watermarked and reddened.

p. 118

Temperature set 31.4

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 56 W	+12 53	1	6.73	A5	3-3-3 KSA 75 mirror very astigmatic & focus changing rapidly
2 49 W	+32 06	1-2	7.54	F8	3-3-3 " 52
2 30 W	+57 13	2	7.31	F0	2-3-3 " 13 Binney
1 26 W	+41 13	2	6.37	A3	3-3-3 " 32 supp

2 men from V. High Dept and P.M.M.'s brother came out to visit Abbe

Closed up preparator to silversmithing.

Room Temp at 1<sup>26<sup>+</sup></sup> standard time 42° F

	MC	SC	BW	MT	ST
Apr. 9 10	+136.2	-37.8	+05.8	-16.0	+0.2 <sup>m</sup>
Apr. 10 10	+135.7	-37.8	+09.4	-17.8 <sup>s</sup>	+0.3 <sup>m</sup>

Date *Thurs. April 10-11 1941, B-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.		How Angle Est.
6583	H.D. 61295	07 33.5	32 14	I-12	<i>Auto I</i>	010	+15.3	19 <sup>38</sup>	20 <sup>20</sup>	1	141 W
6584	70566	08 12.6	32 38	"	"	"	+15.2	20 <sup>23</sup>	21 <sup>45</sup>	2	233 W
6585	89686	10 15.9	44 26	"	"	"	+15.2	21 <sup>51</sup>	23 <sup>11</sup>	3	151 W
6586	98526	11 15.0	45 32	"	"	"	+15.2	23 <sup>15</sup>	23 <sup>59</sup>	4	140 W
6587	104241	11 55.2	45 11	"	"	"	+15.2	00 <sup>03</sup>	01 <sup>03</sup>	1	109 W
6588	117815	13 27.7	47 46	"	"	"	+15.2	01 <sup>08</sup>	01 <sup>48</sup>	2	117 W
6589	132089	14 52.2	41 32	"	"	"	+15.1	01 <sup>52</sup>	02 <sup>50</sup>	3	155 W
6590	152031	16 45.9	41 49	"	"	"	+15.2	02 <sup>55</sup>	04 <sup>15</sup>	4	127 W
6591	161130	17 38.7	29 28	"	"	"	+15.1	04 <sup>20</sup>	04 <sup>56</sup>	1	115 W
	<i>Excess test</i>										<i>Outside through base</i>

Visitors - friend of Prof. Weston

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Pointer at 10.5, End plug in.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 41 W	32 07	1-0	6.42	F <sub>0</sub>	3-3-3	K.S.A. 51 Hd } Poor image - frequently appears double
2 23 W	32 30	1	2.56	A <sub>3</sub>	3-3-3	" 26 M
1 51 W	44 12	1-2	<sup>7.6</sup> 7.46	F <sub>5</sub>	3-3-3	" 30 H <sup>new list</sup> Double, took brighter comp.
1 40 W	45 19	2-3	6.94	F <sub>0</sub>	3-3-3	" 31 Y - Image unsteady
2 04 W	44 55	2-3	7.47	A <sub>0</sub>	3-3-3	" 31 Y
1 17 W	47 32	2-3	7.04	A <sub>5</sub>	3-3-3	" 33 Y
0 55 W	41 20	2-3	7.27	A <sub>2</sub>	3-3-3	" 34 H Image unsteady
0 27 W	41 45	2-3	7.56	A <sub>3</sub>	3-3-3	" 36 Y " "
0 15 W	29 25	2-3	6.69	A <sub>5</sub>	3-3-3	" 62 H
					1 filter in 6-10	
						Y developed the plates, plates from Oct 2003 These plates all long.



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Date *Friday April 11-12, 1941* H-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
6591 F1	<i>Arms test</i>			I-12	Ast II	<sup>set</sup> 010	+16.6	19 <sup>15</sup>		1
6592	HD 70843	08 19.1	+17 32	"	"	"	+16.6	19 40	20 32	2
6593	82719	09 28.6	+63 14	"	"	"	+16.7	20 37	21 29	3
6594	93075	10 39.8	+57 26	"	"	"	+16.8	21 33	22 21	4
6595	91948	10 31.9	+60 38	"	"	"	+16.8	22 24	23 14	1
6596	98823	11 17.3	+40 44	"	"	"	+16.8	23 18	23 4	2
6597	103934	11 53.4	+48 19	"	"	"	+16.8	23 58	00 40	3
6598	119445	13 38.2	+42 10	"	"	"	+16.8	00 45	01 35	4
6599	125113	14 12.3	+32 40	"	"	"	+16.7	01 40	02 40	1
6600	133109	14 57.6	+56 01	"	"	"	+16.7	02 45	03 35	2
6601	148543	16 23.7	+48 11	"	"	"	+16.7	03 39	04 39	3
6602	172883	18 37.5	+52 06	"	"	"	+16.7	04 43	04 5.3	4

Sat. Apr. 12-13 Y-B Increasing cloudiness Sunday rain

Mon. Apr. 14-15 B-L Cloudy at sunset. Clear later but hazy

Tuesday April 15-16 H-L mostly cloudy; some intervals of thick haze

Flying Officer J.F. ... + 21 ...

p. 100

Temperature set 11.9 - End flying

Ending Time  
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	outside the base			1 <sup>st</sup> filter in 8 8		Frame set to 26:15. Good.
						2 <sup>nd</sup> filter in
1	12 W	+17 23	1-2	7.46	F5	3-3-3 KSA 76
0	59 W	+63 02	2	7.56	F0	3-3-3 12 suff. main improving at pos.
0	40 W	+57 15	2	7.31	F0	3-3-3 13 binary
1	42 W	+60 26	2-3	7.37	F8	3-3-3 13 suff.
1	37 W	+40 27	2-3	7.05	F5	3-3-3 31 suff.
1	41 N	+48 06	3-4	7.39	F2	3-3-3 31
0	5 W	+41 58	2-3	7.34	K0	3-3-3 33
1	27 W	+32 30	2	7.57	G5	3-3-3 58 double setting
1	39 W	+55 50	2	7.40	F0	3-3-3 15
1	17 W	+48 04	2	7.52	K0	3-3-3 36
0	42 E	+52 06	2-3	5.83	B9	3-3-3 B.S.C.
	in Wat 22 <sup>15</sup> went down					Out water NT 37 SW +10 <sup>0</sup> -02 +20 <sup>0</sup>
	ended at 11 <sup>30</sup> went down					

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Date *Thurs. Ap. 17-18, 1941* B-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 H.M.
6603	H.D. 72392	08 22.5	47 28	I 12 1/2	Auto II	.010	+13.2	19 39	20 03	1
6604	72778	08 29.6	42 56	"	"	"	+13.2	20 06	20 40	2
6605	73971	08 36.1	47 16	"	"	"	+13.2	20 43	21 07	3
6606	81995	09 24.1	45 12	"	"	"	+13.2	21 09	21 45	4
6607	93075	10 39.8	57 26	"	"	"	+13.1	21 49	22 27	1
6608	100030	11 25.5	48 29	"	"	"	+13.1	22 31	23 01	2
6609	103799	11 52.1	40 55	"	"	"	+13.1	23 05	23 29	3
6610	104241	11 55.2	45 11	"	"	"	+13.1	23 33	00 33	4
6611	122080	13 54.5	26 18	"	"	"	+13.0	00 40	01 24	1
6612	138085	15 24.7	16 44	"	"	"	+13.1	01 30	02 40	2
Friday Ap 18-19 Y-B haze, lightning in S, clouds in N.										
Saturday Ap 19-20 H-B cloudy.										

Printer at 9.4

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
058 N	47 20	2-3	6.62 A0	3-3-3	Apr. 15 10	MC SC SW MT ST +136.0 -35.7 +20.9 +17.0 +0.1 <sup>m</sup>
			KSA. 28 M		Apr. 16 16	+0.4 -35.8 +22.0 +11.0 -0.2 <sup>m</sup>
133 W	42 48	2-3	204 A2	3-3-3	KSA. 28 Hd	Readjusted + rest
154 N	47 07	3	6.99 G5	3-3-3	Apr. 17 10	-02.2 -35.7 +22.3 +04.6 -0.3 <sup>m</sup>
					KSA. 28 Hd 16	rest -02.2 rest
144 N	45 01	2-3	7.26 A5	3-3-3	KSA. 29 M	
110 W	57 15	2-3	7.3 F0	3-3-3	Binary H	with 15 m
100 N	48 15	2-3	7.16 G5	3-3-3	KSA 31 2nd H	
101 W	40 42	3	6.96 F5	3-3-3	" 31	Y
202 W	44 57	2-3	7.77 A0	3-3-3	" 31	Y Page, why sticking
054 W	26 06	2-3	7.6 A5	3-3-3	" 58	Y Page
040 W	16 36	2-3	7.53 K0	3-3-3	" 83	H Page, which
						sky remaining mostly cloudy
						MC SC SW MT ST Apr. 18 10 -03.8 -35.2 +22.6 +02.1 -0.4 <sup>m</sup>
					19 10	+02.0 -0.3 <sup>m</sup>



Pointer at 27.1

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 <sup>15</sup> W	45 59	1	6.61	A <sub>0</sub>	K.S.A. 20 M Apr 21 09    MC    SC    SW    MT    ST -15.3    -34.6    +25.0    +09.8    -0.5 Reset reset
						windy - image dancing rapidly
	0 <sup>39</sup> W	57 14	1	7.31	F <sub>0</sub>	Binary H
	0 <sup>50</sup> W	45 18	1	6.94	F <sub>0</sub>	K.S.A. 31 Y
	1 <sup>11</sup> W	27 38	1-2	7.46	A <sub>2</sub>	" 56 Y
	1 <sup>54</sup> W	33 04	1	6.82	A <sub>5</sub>	" 10 Y
	1 <sup>11</sup> W	26 49	1	7.46	A <sub>2</sub>	" 58 H
	0 <sup>22</sup> W	31 58	1	7.49	G <sub>0</sub>	" 60 H
	0 <sup>22</sup> W	29 58	1	7.04	B <sub>9</sub>	" 61 Y    Wind increasing and gusty
	0 <sup>19</sup> W	11 50	1	6.76	A <sub>0</sub>	" 86 H
						Apr 22 10    -19.1    -34.6    ⊕    +05.6    -0.4



Visitors 25 ± 0.4 A,

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Cont.	REMARKS																				
27	1 <sup>m</sup> W	+27° 25'	2-1	688	G <sub>5</sub> -3-3-3	Clouds at times, Difficult to estimate seeing.																				
42	13 <sup>m</sup> W	25 48	1-0	730	A <sub>2</sub> 3-3-3	← Not sure if 1 <sup>st</sup> seeing was put in																				
0	40 <sup>m</sup> E	41 12	0-3	637	A <sub>3</sub> 3-3-3	Seeing <sup>32</sup> H very variable.																				
27	2 <sup>m</sup> W	32 22	1	7.55	A <sub>2</sub> 3-3-3	KSA, 57																				
30	0 32 W	31 10	0-1	697	FA <sub>5</sub> 3-3-3	" 58																				
23	0 37 W	43 16	0-1	688	A <sub>2</sub> 3-3-3	" 54																				
0	0 14 E	29 33	2-3	737	K <sub>2</sub> 3-3-3	" 60																				
46	1 05 W	15 16	1-0	7.57	A <sub>3</sub> 3-3-3	" 84																				
4	1 15 W	18 06	1-0	6.90	B <sub>9</sub> 3-3-3	" 85																				
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Apr. 23</td> <td>13</td> <td>-24.5</td> <td>-35.0</td> <td>+03.1 -0.4</td> </tr> <tr> <td>Apr. 24</td> <td>10</td> <td>-31.1</td> <td>-35.2</td> <td>+01.3 -0.5</td> </tr> <tr> <td></td> <td>16</td> <td>+01.6</td> <td></td> <td></td> </tr> </tbody> </table>		MC	SC	MT	ST	Apr. 23	13	-24.5	-35.0	+03.1 -0.4	Apr. 24	10	-31.1	-35.2	+01.3 -0.5		16	+01.6		
	MC	SC	MT	ST																						
Apr. 23	13	-24.5	-35.0	+03.1 -0.4																						
Apr. 24	10	-31.1	-35.2	+01.3 -0.5																						
	16	+01.6																								
						Reset + regulated																				





*Pointing at 26.5*

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 48	0 01 E	57 15	1	2.31	F <sub>0</sub>	3-3-3 Binary H
2 55	2 48 W	55 50	1-2	7.46	A <sub>0</sub>	3-3-3 K.S.A. 12 Y
2 57	3 15 W	56 01	1	6.80	F <sub>0</sub>	3-3-3 " 12 H
2 58	3 56 W	57 13	1	6.94	A <sub>2</sub>	3-3-3 " 12 Y
2 59	3 50 W	57 15	1-2	7.31	F <sub>0</sub>	3-3-3 Binary H
3 00	0 55 W	43 35	0-1	6.81	A <sub>2</sub>	3-3-3 K.S.A. 34 Y No. list
3 40	1 12 W	11 14	0-1	7.34	F <sub>2</sub>	3-3-3 " 83 H
3 14	2 16 W	13 39	0-1	7.66	A <sub>5</sub>	3-3-3 " 84 Y
3 40	0 12 E	48 44	1-2	6.10	A <sub>3</sub>	3-3-3 " 38 H
						<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>MC</p> <p>Apr. 25 13 +03.7</p> </div> <div style="text-align: center;"> <p>SC</p> <p>-30.3 <small>(lost seconds because of chronograph)</small></p> </div> <div style="text-align: center;"> <p>SW</p> <p>+05.8</p> </div> <div style="text-align: center;"> <p>MT ST</p> <p>+0.3<sup>s</sup> -0.5<sup>m</sup></p> </div> </div>



Temperature at 30.4

Seeing Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
0 14 W	+57 13	1	7.31	F0	3-3-3	Binary Some light clouds. Minor figure 2
0 53 W	+60 00	1	7.07	A5	3-3-3	KSA 13 much trouble with light clouds.
0 57 W	+77 47	1	6.64	A0	3-3-3	" 5 clearing - image unstable but wind
1 05 W	+28 37	2	6.75	A5	3-3-3	" 57
1 34 W	+32 32	1-2	7.31	K2	3-3-3	" 58 Hazy
0 33 W	+41 14	2	7.27	F5	3-3-3	" 35 clear
2 03 N	+31 56	1	7.49	G0	3-3-3	" 60 Haze at 3 <sup>40</sup> 3 <sup>50</sup> by 1 <sup>00</sup>

	MC	SC	SW	MT	ST
Apr. 26	10 +06.6	-30.2	-03.0	+01.0	-0.5
	But +01.0				

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Date *Saturday April 26-27* Y-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.	H	Hour Angle End	D
6647	HD 88639	10 08.2	27 39	I-12	Astra II	.002	+14.7	8 <sup>h</sup> 00 <sup>m</sup>	8 40	1	36 <sup>m</sup> W	
6648	HD 93044	10 39.6	41 50	"	"	"	14.6	8 44	9 44	2	1 <sup>h</sup> 03 <sup>m</sup> W	
6649	HD 109241	11 55.2	45 11	"	"	?	14.7	9 51	11 21	3	2 <sup>h</sup> 24 <sup>m</sup> W	
6650	HD 118295	13 30.9	44 43	"	"	?	14.3	11 24	12 00	4	2 <sup>h</sup> 56 <sup>m</sup> W	
6651	HD 124883	14 11.0	28 12	"	"	.010	14.4	00 03	01 15	1	1 <sup>h</sup> 02 <sup>m</sup> W	
6652	132890	14 56.5	62 04	"	"	"	14.4	01 20	02 10	2	1 <sup>h</sup> 50 <sup>m</sup> W	
6653	136831	15 12.7	12 56	"	"	"	14.3	02 15	02 41	3	2 <sup>h</sup> 56 <sup>m</sup> W	
6654	144839	16 02.8	13 36	"	"	"	14.4	02 45	04 31	4	3 <sup>h</sup> 39 <sup>m</sup> W	
	<i>Sunday clear</i>											

45 Visitors High School pl Collection  
 Point 98  
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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
8:40	30 <sup>m</sup> W	+27 25	1	688	G5	3-2-3	Y 54
8:44	1 <sup>h</sup> 03 W	41 37	2-1	738	F0	3-2-3	Y " 30
8:51	1 24 W	44 57	1-0	747	A0	3-2-3	Y " 31
9:00	1 29 W	44 30	1	677	A5	3-2-3	Y " 33 Numbered this plate 6651
9:05	1 04 W	28 00	1-0	7.22	A2	3-3-3	H 58. 1 plate more, " 66514
9:12	1 15 W	61 53	1	7.10	A2	3-3-3	H 15
9:18	1 23 W	12 45	1	6.20	A.	3-3-3	M 83
9:24	2 29 W	13 30	1-0	7.52	F2	3-3-3	M 84
							Apr. 28 10 MC SC SW MT ST -01.0 -29.1 +02.1 +04.0 -0.7



Cleaned slit of spectroph

p. 136

Printer at 13.7

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS															
0 <sup>20</sup> W	57 13	2-1	731	F <sub>0</sub>	3-3-3	Binary H. dirty. M														
2 <sup>28</sup> W	42 18	1-2	6.90	A <sub>3</sub>	3-3-3	A.P. list H														
2 <sup>29</sup> W	57 14	1	731	F <sub>0</sub>	3-3-3	Bin. (computer) says														
3 <sup>30</sup> W	56 35	1-2	730	B <sub>9</sub>	3-3-3	A.P. list M														
4 <sup>55</sup> W	57 14	1-2	731	F <sub>0</sub>	3-3-3	Binary														
0 <sup>23</sup> E	72 38	2	726	K <sub>0</sub>	3-3-3	A.P. list Y														
0 <sup>26</sup> E	27 06	2-1	722	A <sub>2</sub>	3-3-3	" " M														
6 <sup>32</sup> E	38 41	2-1	743	K <sub>0</sub>	3-3-3	" " H														
					<table border="0" style="width: 100%;"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Apr. 29</td> <td>14</td> <td>-01.0</td> <td>-28.9</td> <td>+04.0</td> <td>+05.3</td> <td>-0.5</td> </tr> </table>				MC	SC	SW	MT	ST	Apr. 29	14	-01.0	-28.9	+04.0	+05.3	-0.5
		MC	SC	SW	MT	ST														
Apr. 29	14	-01.0	-28.9	+04.0	+05.3	-0.5														





Thermometer set 16.0 and plug in.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS														
	0 34 W	+57 15	3-2	7.31	F <sub>0</sub> 3-3-3	Bin. KSA 13 Very light haze. Very faint.														
	0 53 W	+60 00	3	(7.0)	A <sub>5</sub> 3-3-3	13 Brighter component														
	2 25 W	"	2	(8.0)	3-3-3	13 Fainter comp.														
	0 34 W	+65 08	2	5.70	A <sub>0</sub> 3-3-3	BSC														
	4 45 W	+57 14	2	7.31	F <sub>0</sub> 3-3-3	Bin. KSA 13														
	0 22 E	+75 28	2	7.12	F <sub>0</sub> 3-3-3	A.P. 4.5														
	0 29 E	+75 23	2-3	6.83	A <sub>2</sub> 3-3-3	"														
	0 34 W	+75 22	2-3	7.15	F <sub>0</sub> 3-3-3	"														
					1 Filter 6-10															
						<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST<sub>m</sub></td> </tr> <tr> <td>Apr. 30</td> <td>10</td> <td>-02.6</td> <td>-28.6</td> <td>+05.7</td> <td>+04.2</td> <td>-0.7</td> </tr> </table>			MC	SC	SW	MT	ST <sub>m</sub>	Apr. 30	10	-02.6	-28.6	+05.7	+04.2	-0.7
		MC	SC	SW	MT	ST <sub>m</sub>														
Apr. 30	10	-02.6	-28.6	+05.7	+04.2	-0.7														









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Date May 2-3 Friday

Y-13

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
6678	HD 93075	10 39.8	+57 26	I-12	Astron	010	+13.9	8 07	9 37	1	19W
	Image fully twice length of slit in diameter, last half hour										
6679	HD 103483	11 49.9	47 02	"	"	"	13.9	9 47	10 37	2	0W
6680	HD 121247	13 49.2	42 41	"	"	"	14.0	10 43	11 33	3	7W
6681	HD 123033	14 00.2	26 18	"	"	"	14.0	11 38	0 38	4	0W
6682	HD 135679	15 11.3	26 01	"	"	"	14.0	00 42	01 16	1	0W
6683	136654	15 16.8	31 49	"	"	"	14.0	01 19	02 15	2	0W
6684	145931	16 08.5	42 38	"	"	"	14.0	02 18	03 09	3	0W
6685	148551	16 23.8	45 11	"	"	"	14.0	03 07	03 55	4	0W
6686	161019	17 38.1	27 40	"	"	"	14.0	03 59	04 17	1	0W
	Focus test Outside through base Focus 16.19 till 04.32										

Pourton 9.4

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
9:27	1 19 W	57 14	0	731	FO	3-3-3	+ Seems to be an error in sidereal watch +0.6 <sup>m</sup> ?
	Seeing better, about 1						
9:27	1 10 W	46 48	0-1	646	A0	3-3-3	M - KSA 31 Double This is west star (see table)
9:27	7 <sup>m</sup> W	42 27	1	669	A0	3-3-3	Y New list 33
9:27	01 W	26 05	1	725	F5	3-3-3	Y " " 58
9:27	0 28 N	25 52	1	667	A0	3-3-3	" " 57
9:27	1 23 W	31 40	1-2	728	F5	3-3-3	" " 57
9:27	1 20 W	42 32	2	719	K5	3-3-3	" " 35
9:27	1 56 W	45 04	2	727	A0	3-3-3	" " 36
9:27	1 03 W	27 40	2-3	660	A3	3-3-3	" " 62
						24-40	





Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
-------------------	-------------	--------	-----------	--	---------

about 40 minutes. H showed moon in 74. in. N showed moon & rings  
light haze & seeing rather poor.

3 <sup>07</sup> W	+57 13	1-2	7.31	F0	3-3-3	Binary. Haze at start, thinning out.
-------------------	--------	-----	------	----	-------	--------------------------------------

May 2-3)

1 <sup>17</sup> W	+61 46	1-2	7.05	K0	3-3-3	KSA14 hazy
-------------------	--------	-----	------	----	-------	------------

0 <sup>57</sup> W	43 14	1	6.69	A5	3-3-3	" 34 "
-------------------	-------	---	------	----	-------	--------

1 <sup>23</sup> W	41 13	1-2	7.27	F3	3-3-3	" 35 "
-------------------	-------	-----	------	----	-------	--------

1 <sup>13</sup> W	28 04	1	7.02	A0	3-3-3	" 61 "
-------------------	-------	---	------	----	-------	--------

		MC	SC	SW	MT	ST
May 5	10	+02.6	-29.2	+18.4	+07.5	-0.5

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Date *Monday May 5-6, 1941* B-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.	
6692	H.D. 93075	10 39.8	+57 26	F-12K	Astria II	.010	+16.6	20 <sup>10</sup>	(21 <sup>06</sup> )	3
<i>Tuesday May 6-7, 1941 H-L cloudy</i>										

Pointer at III

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS																		
(10' W)	57 15	0	2.31	Fo	3-3-	Pin H Clouds at 21 <sup>h</sup>																		
						Cloud up.																		
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>S.C.</th> <th>SW</th> <th>MT</th> <th>S.T.</th> </tr> </thead> <tbody> <tr> <td>May 6 10</td> <td>+05.4</td> <td>-25.5</td> <td>+19.6</td> <td>+08.4</td> <td>-0.5<sup>m</sup></td> </tr> <tr> <td>May 7 10</td> <td>+05.8</td> <td>-23.4</td> <td>+21.3</td> <td>+10.2<sup>s</sup></td> <td>-0.4<sup>m</sup></td> </tr> </tbody> </table>		MC	S.C.	SW	MT	S.T.	May 6 10	+05.4	-25.5	+19.6	+08.4	-0.5 <sup>m</sup>	May 7 10	+05.8	-23.4	+21.3	+10.2 <sup>s</sup>	-0.4 <sup>m</sup>
	MC	S.C.	SW	MT	S.T.																			
May 6 10	+05.4	-25.5	+19.6	+08.4	-0.5 <sup>m</sup>																			
May 7 10	+05.8	-23.4	+21.3	+10.2 <sup>s</sup>	-0.4 <sup>m</sup>																			

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Date *Wed May 7-8*

Y-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 Est.	D
6692/3	HD 100150	11 26.4	18 19	T-100	Astra	010	17.7	8 59	9 45	4	1 18
	clouds and showers, all day, cleared most day, sun about noon, at night started in										
	Too much haze around, closed up -										
	Cleaning again to-ward midnight										
6692/4	HD. 128296	14 31.0	11 30	T 12 1/2	Astra II	set .010	+16.0	00 27	02 17	1	3
6693/5	" 157297	17 17.3	11 47	"	"	"	+16.0	02 20	03 20	2	14
6694/6	" 165910	18 03.2	13 03	"	"	"	+16.0	03 24	03 50	3	17

Possible 12.2

Ending Time  
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																								
9 45	18 05		6.99	A <sub>0</sub>	3-3-3 nw ... (mount)																								
8 <sup>30</sup> but shut off again till 9 <sup>00</sup>																													
2 30 W	11 20	1	7.52	A <sub>3</sub>	3-3-3 RSA. 82 New List "Rayl"																								
0 46 W	11 43	1	7.08	A <sub>0</sub>	3-3-3 " 85 "																								
0 30 W	13 05	1-0	6.46	A <sub>0</sub>	3-5 nw " 86 AP. Est M Clouds, filled in ended by 03 30.																								
<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">NE</td> <td style="text-align: center;">SE</td> <td style="text-align: center;">SW</td> <td style="text-align: center;">NW</td> <td style="text-align: center;">OT</td> </tr> <tr> <td>May 8</td> <td>10 +06.0</td> <td>Stopp</td> <td>+14.0</td> <td>+15.3</td> <td>-0.7</td> </tr> <tr> <td>May 9</td> <td>12 +05.0</td> <td></td> <td>+14.6</td> <td>+15.3</td> <td>-0.7</td> </tr> <tr> <td></td> <td></td> <td></td> <td>-03 approx</td> <td></td> <td></td> </tr> </table>							NE	SE	SW	NW	OT	May 8	10 +06.0	Stopp	+14.0	+15.3	-0.7	May 9	12 +05.0		+14.6	+15.3	-0.7				-03 approx		
	NE	SE	SW	NW	OT																								
May 8	10 +06.0	Stopp	+14.0	+15.3	-0.7																								
May 9	12 +05.0		+14.6	+15.3	-0.7																								
			-03 approx																										







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Date Friday May 9-10, 1941 B Julian Day \_\_\_\_\_

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Milt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		
6698	H.D. 120095	13 41.7	31 22	I-12 1/2	Auto II	.010	+09.5	23 05	23 55	1	"W"
6699	121698	13 51.6	26 25	"	"	"	+09.0	23 58	00 48	2	"W"
<del>6700</del>	<del>198228</del>	<del>16 26.5</del>	<del>11 40</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>+09.0</del>	<del>00 53</del>	<del>(01 15)</del>	3	"W"

Low plate not kept.

Cloudy earlier in evening. Heavy wind.

Printer at 226

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 04 W	31 "	1	6.97	F5 3-3-3	KSA. 58Y
	1 47 W	26 "	1	6.97	F0 3-3-3	" " Y Light clouds
	<del>0 15 E</del>	<del>11 3'</del>	<del>1</del>	<del>7.21</del>	<del>K0 3-5</del>	<del>84 H Heavy broken clouds</del> Closed up 1 <sup>st</sup> sky thick
For visitors Saturday						
24 Comae Ber R.A. 1947 } 12 38.4						
Dec + 18° 42'						
4.5 - 6.2 G <sub>8</sub> - F <sub>0</sub> distance 200 ±						
+ 3.7 km sec familar star s. b. two stars						
20" p.a. 270°						



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about 30 visitors -

Moon Miss N S in  
24 Luna 74" OK

Pointer 28 6 end plug out.

Ending Time  
E.S.T.

4

17 20

17

17

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17

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17

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS																					
15 <sup>m</sup> W	26 07	1	7.15	A5	3-3-3	No danger of other star getting on slit																					
12 W	32 28	1-2	7.57	G5	3-3-3	another star about 5' n (check) <del>slab not down</del>																					
130 W	32 59	1-2	7.21	F <sub>2</sub>	3-3-3	KSA 59 H cirrus clouds																					
106 W	11 32	1-2	7.21	K <sub>0</sub>	3-3-3	" 84 H " "																					
125 W	17 32	1-2	7.28	F5	3-3-3	" 85 Y Clouds thicker																					
					1 plate out. 6-10																						
						<table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>May 12</td> <td>10</td> <td>+03.9</td> <td>-02.7</td> <td>+17.1</td> <td>-25.8</td> <td>+0.3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Rest - stopped</td> </tr> </table>			MC	SC	SW	MT	ST	May 12	10	+03.9	-02.7	+17.1	-25.8	+0.3							Rest - stopped
		MC	SC	SW	MT	ST																					
May 12	10	+03.9	-02.7	+17.1	-25.8	+0.3																					
						Rest - stopped																					

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Date <sup>11/12</sup> Monday, 12-13, 1941 B-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Alt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6704	HD 93075	1039.8	57 26	I-12 1/2	Auto II	.010	+12.5	20 12	20 36	4
6705	98526	1115.0	45 32	"	"	"	+12.8	20 42	20 52	1
6706	98823	1117.3	40 44	"	"	"	+13.0	20 56	21 08	2
6707	100030	1125.5	42 29	"	"	"	+12.9	21 13	21 29	3
6708	103799	1152.1	40 55	"	"	"	+12.9	21 34	21 46	4
6709	103984	1153.4	48 19	"	"	"	+12.8	21 51	22 31	1
6710	93075	1039.8	57 26	"	"	"	+13.0	22 36	23 16	2
6711	123691	1404.1	48 41	"	"	"	+13.0	23 20	23 46	5
6712	134696	1503.9	63 30	"	"	"	+12.9	23 50	00 08	4
6713	135501	15 10.3	56 26	"	"	"	+13.0	00 12	00 46	1
6714	139992	15 36.2	56 13	"	"	"	+13.0	00 51	01 25	2
6715	154355	16 59.9	58 42	"	"	"	+12.9	01 30	02 04	2
6716	154391	17 00.1	60 49	"	"	"	+12.9	02 08	02 32	4
6717	161285	17 39.6	63 44	"	"	"	+12.9	02 36	03 06	1
6718	177152	18 52.4	44 14	"	"	"	+12.9	03 11	03 51	2

## Polaris at 30.3

Ending Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 <sup>00</sup> W	57 15	3-4	2.31	F <sub>0</sub>	3-3-3	Polaris H
0 <sup>38</sup> W	45 18	4	6.94	F <sub>0</sub>	3-3-3	K.S.A. 31 Y Beautiful diffraction pattern
0 <sup>53</sup> W	40 29	4	7.05	F <sub>5</sub>	3-3-3	" " H clouds lower in sky, but
1 <sup>05</sup> W	48 15	4	7.16	G <sub>5</sub>	3-3-3	" " H zenith is apparently free of
0 <sup>56</sup> W	40 39	4-3	6.96	F <sub>5</sub>	3-3-3	" " Y thin
1 <sup>34</sup> W	48 04	3-2	2.39	F <sub>2</sub>	3-3-3	" " H
3 <sup>37</sup> W	57 14	3-2	7.31	F <sub>0</sub>	3-3-3	Polaris H thin cirrus clouds
2 <sup>44</sup> W	48 29	3-4	2.11	F <sub>2</sub>	3-3-3	K.S.A. 33 H
0 <sup>06</sup> W	63 18	3	7.07	F <sub>2</sub>	3-3-3	" 15 Y
0 <sup>39</sup> W	56 15	3	7.46	A <sub>2</sub>	3-3-3	" " H
0 <sup>52</sup> W	56 05	3	7.20	B <sub>9</sub>	3-3-3	" " Y Image unsteady
0 <sup>08</sup> W	58 38	3	7.55	F <sub>5</sub>	3-3-3	" 16 Y
0 <sup>36</sup> W	60 45	3	7.24	K <sub>0</sub>	3-3-3	" " H
0 <sup>31</sup> W	63 42	3-2	7.25	F <sub>5</sub>	3-3-3	" " Y
0 <sup>04</sup> E	44 18	3-2	7.40	B <sub>9</sub>	3-3-3	" 38 M Old but looks closer, sky
						filling in from the north

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Date Tuesday, May 13-14, 1941 H-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
6719	HD 93075	10 39.8	+57 26	I-12	Astria II	Set 010	16.3	20 19	20 45	3
6720	91948	10 31.9	+60 38	"	"	"	16.3	20 48	21 12	4
6721	89686	10 15.9	+44 26	"	"	"	16.3	21 17	21 55	1
6722	" sp.	"	"	"	"	"	16.4	21 56	22 40	2
6723	93075	10 39.8	+57 26	"	"	"	16.5	22 43	23 13	3
6724	120787	13 46.5	+61 59	"	"	"	16.4	23 16	23 32	4
6725	124182	14 06.9	+32 45	"	"	"	16.4	23 36	23 56	1
6726	128108	14 30.3	+13 33	"	"	"	16.3	00 02	00 42	2
6727	137182	15 19.5	+10 54	"	"	"	16.4	00 45	01 25	3
6728	153454	16 54.6	+17 51	"	"	"	16.3	01 30	02 20	4
6729	157702	17 19.7	+18 56	"	"	"	16.3	02 24	03 06	1
6730	168498	18 14.9	+11 50	"	"	"	16.4	03 "	03 51	2
	Wine. May 15-16		B-to Rain							
	Sun. May 16-17		V-B Mostly cloudy							

Temperature at 11.1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS						
	1 <sup>10</sup> W	+57 18	3	7.31	F0	3-3-3	MC	SC	SW	MT	ST	
						may 13	10	+03.8	-01.6	+20.4	-25.0	-0.1 <sup>m</sup> Best
	1 <sup>45</sup> W	+60 25	3-2	7.37	F8	3-3-3 <sub>g</sub>						
	2 <sup>44</sup> W	+44 12	3-2	7?	F5	3-3-3 <sub>nw</sub>	Combined mag given as 7.46.		Bright, n.f.			
	3 <sup>39</sup> W	+44 12	3-2	8?		3-3-3 <sub>w</sub>	12"	7.5-8?	Faint, n.f.			
	2 <sup>35</sup> W	+57 13	3	7.31	F0	3-3-3 <sub>g</sub>						
	0 <sup>58</sup> W	+61 48	3	7.05	K0	3-3-3 <sub>sh</sub>	seeing good but small.					
	0 <sup>50</sup> W	+32 35	3E	7.31	K2	3-3-3 <sub>g</sub>						
	1 <sup>18</sup> W	+13 18	3-2	7.20	A3	3-3-3 <sub>g</sub>						
	1 <sup>12</sup> W	+10 44	3-2	7.19	A0	3-3-3 <sub>g</sub>						
	0 <sup>32</sup> W	+17 47	3-2	7.56	A0	3-3-3 <sub>g</sub>						
	0 <sup>53</sup> W	+18 54	3-2	7.48	A0	3-3-3 <sub>g</sub>						
	0 <sup>43</sup> W	+11 51	3-2	7.34	A0	3-3-3 <sub>g</sub>	Light clouds					
							MC	SC	SW	MT	ST	
						May 14	14	+03.4	-0.7	+24.2	-25.6	+0.3 <sup>m</sup>
							15	+03.3	+0.1	+26.4	-23.4	+0.4 <sup>m</sup>
							16	+02.8	+0.9	+28.5	-23.4	+0.3 <sup>m</sup>



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Date *Saturday, May 17-18, 1941 H-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	
6731	HD 93075	10 39.8	+57 26	I-12	Ast-U	at 010	13.0	22 20	23 40	3	
6732	119445	13 38.2	+42 10	"	"	"	13.0	23 43	01 03	4	
6733	137854	15 23.3	+12 12	"	"	"	13.0	01 08	02 20	1	
6734	158013	17 21.7	+57 05	"	"	"	13.0	02 26	03 00	2	
6735	173415	18 40.1	+47 <sup>29</sup> <del>27</del>	"	"	"	13.2	03 05	03 53	3	
	Focus test Outside the base									3	
Sunday	clear.										
	Monday	May 19	B								
6735F	Focus test	Sitting	2	F.	26.18	Tilt.	20.32	Outside the base			4
	"	"	5	"	26.15	"	"	"			
	"	"	7	"	26.17	"	"	"			
					26.17	in good focus. Left at the sitting					

About 50+ visitors. Mohamed Y. Hussein + A. J. ...  
 N. ... ..

Temperature set 8.9

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Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS														
4 22 W	+57 14	1	7.31	F <sub>0</sub>	3-3-3	KSA 13. Primary														
2 45 W	+41 56	1-0	7.34	K <sub>0</sub>	3-3-3	" 33														
2 19 W	+12 03	1-0	7.24	F <sub>0</sub>	3-3-3	" 83														
1 02 W	+57 04	1	6.61	A <sub>2</sub>	3-3-3	" 16 H														
0 37 N	+47 30	1	6.95	A <sub>2</sub>	3-3-3	" 38														
						fills out 6-10														
						<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>May 19</td> <td>13</td> <td>+01.4</td> <td>+01.5</td> <td>+34.0</td> <td>-18.8</td> <td>+0.3</td> </tr> </table>			MC	SC	SW	MT	ST	May 19	13	+01.4	+01.5	+34.0	-18.8	+0.3
		MC	SC	SW	MT	ST														
May 19	13	+01.4	+01.5	+34.0	-18.8	+0.3														
						fills out 8-12														
						fills out 12-16														
						fills out 12-16														

11.025

Temp 11.5


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Date Monday, May 19-20, 1941 B Julian Day

Plate No.	Object	R.A. 1900	Declination 1000	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6736	HD 93075	10 398	57 26	I-124	Orto II	.010	+22.5	20 <sup>26</sup>	20 <sup>50</sup>	1
6737	92278	10 342	47 22	"	"	"	+22.7	21 <sup>04</sup>	21 <sup>42</sup>	2
6738	99004	11 18.5	17 <del>31</del> <sup>42</sup>	"	"	"	+22.7	21 <sup>47</sup>	22 <sup>23</sup>	3
6739	100518	11 29.0	11 35	"	"	"	+22.6	22 <sup>27</sup>	22 <sup>41</sup>	4
6740	126246	14 19.3	11 42	"	"	"	+22.5	22 <sup>55</sup>	23 <sup>41</sup>	1
6741	126246	"	"	"	"	"	+22.6	23 <sup>42</sup>	00 <sup>34</sup>	2
6742	140084	15 36.7	76 46	"	"	"	+22.5	00 <sup>45</sup>	01 <sup>45</sup>	3
6743	151043	16 39.8	77 57	"	"	"	+22.5	01 <sup>55</sup>	02 <sup>39</sup>	4
6744	154099	16 58.3	73 17	"	"	"	+22.5	02 <sup>45</sup>	02 <sup>59</sup>	1
6745	170710	18 25.8	46 22	"	"	"	+22.5	03 <sup>04</sup>	03 <sup>54</sup>	2
	Focus test		Outside the base							2

Pointer at 15.8

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 45 W	57 13	3	7.31	F <sub>0</sub>	3-3-3 g Pin H Cirrus clouds
2 38 W	47 10	2-3	7.36	A <sub>2</sub>	3-3-3 g J.A. 30 M
2 35 W	17 29	2-3	7.09	A <sub>2</sub>	3-3-3 g " 79 M
2 50 W	11 18	2	6.52	A <sub>2</sub>	3-3-3 g " 79 M
2 52 W	11 31	2-3	7.2	F <sub>5</sub>	3-3-3 g " 82 H Doubtless Sp. Light
1 45 W	"	2-3	7.3	F <sub>5</sub>	3-3-3 g " " H Np
1 42 W	76 36	3-2	7.58	A <sub>2</sub>	3-3-3 g " 6 "
1 33 W	77 49	3	7.42	F <sub>8</sub>	3-3-3 g " 6 H <i>Circus</i> in field, but pointer
1 34 W	73 "	3	6.38	A <sub>5</sub>	3-3-3 g " 6 Hd 
0 59 W	46 20	2-3	7.46	F <sub>0</sub>	3-3-3 g " 38 Y

When taking the focus test I noticed 1 filter had slipped part way out.

May 20 10 MC +0.8 SC +01.5 SW +34.5 MT -18.9 ST +0.3



Some temperature 78 & rising! min 68.  
 Thermometer set 13.8 fly in.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 53 W	+57 14	3	7.31	F0	3-3-3	KSA 13 Primary } Light clouds
3 23 W	+44 12	3	8?	F	3-3-3	w 30 s.p. } / 3 s.p. / 4 s.p.
4 02 W	"	3-4	7.5?		3-3-3	w 2f
0 57 W	+61 46	3-4	7.05	K0	3-3-3	KSA 14
1 19 W	+58 48	3	6.36	A0	3-3-3	" 14 being variable (Vib)
1 29 W	+32 28	3	7.57	G5	3-3-3	" 58 Faint source
1 55 W	+14 19	3-2	7.46	F5	3-3-3	" 82 Faint source
1 36 W	+11 12	3	7.34	F2	3-3-3	" 83 source bright
1 01 W	+48 05	3	7.52	K0	3-3-3	" 36
0 15 W	+31 19	3-4	7.43	K0	3-3-3	" 62
0 21 W	+33 18	4	7.45	K5	3-3-3	" 62
0 48 W	+26 39	4	7.34	F2	3-3-3	" 62
0 23 W	+42 10	4-3-2	7.20	F8	3-3-3	" 38 being changing rapidly
0 50 W	+41 19	3-2	6.18	B1	3-3-3	" 38
2 faint - one in 6.8 sec						MC SW 35 -0.9 -2.0 -3.0

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Date Friday May 23-24, 1941 H-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.	Exposure	Hour Angle End
6760	HD 93075	10 39.8	+57 26	I-12	astu II	cut 010	18.9	20 43	22 03	1	3 06 W
6761	124186	14 06.9	+32 45	"	"	"	18.9	22 14	23 04	2	1 44 W
6762	125113	14 12.3	+32 40	"	"	"	19.0	23 08	00 28	3	2 02 W
6763	143597	15 56.3	+13 34	"	"	"	18.9	00 32	03 00	4	2 50 W
Sat. May 24-25 - Y-B Very hazy about 15 minutes											
Sun May 25-26 Clear first part of night											

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS						
					MC	SC	W	MT	ST	
				May 22	10	-0.8	+0.4	+34.0	-20.2	+0.3
				May 23	14	-2.0	+0.3	+32.9	-20.7	+0.3
3 06 W	+57 13	1-0	7.31	F0	3-3-3	KSA	13	Light haze		
0 44 W	+22 35	1-0	7.31	K2	3-3-3		58			
2 02 W	+32 30	1	7.57	F5	3-3-3		58			
2 50 W	+13 26	1-0	7.44	F5	3-3-3		84	Thick haze at 2 <sup>43</sup> haze frequently gone. Seeing becoming worse.		
				May 26	10	-04.2	+00.5	+30.7	-21.2	+0.3





Winter at 15.8

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Instrument	REMARKS
59 N	+57 13	2-3	231 Fo	3-3-3	Bin H Partly cloudy and generally hazy during most of afternoon.
23 W	+58 50	2	636 Ao	3-3-3	H K.S.A. 14 Sept - but low magn.
50 W	+57 14	2	231 Fo	3-3-3	Bin H " images very faint Telescope mostly tracking N-p More haze so cloudy above. Bin at 20

	MC	SC	SW	MT	ST
May 27	10	-05.4	+0.4	+31.5	-22.2 +0.3
28	10	+02.2	-0.2	+31.9	-23.3 +0.4
29	16	+04.9	-0.7	+29.6	-24.8 +0.3



Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
3 <sup>55</sup> W	57 13	0	7.31 F <sub>0</sub>	3-3-3	Boney H. Seeing Bad!
1 <sup>02</sup> W	55 50	0	7.40 F <sub>0</sub>	3-3-3	New List & KSA 15 H
0 <sup>03</sup> E	58 32	0-1	6.80 A <sub>3</sub>	3-3-3	" " " 16 H
0 <sup>13</sup> W	62 47	0-1	7.03 F <sub>2</sub>	3-3-3	" " " 16 H
1 <sup>26</sup> W	11 16	0-1	7.30 F <sub>2</sub>	3-3-3	" " " 86 H

May 3 16       $\overline{\text{MC}} \quad \text{SC} \quad \text{SW} \quad \text{NT} \quad \text{ST}$   
                   + 0.7    - 0.6    + 26.1    - 26.1    + 0.2

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Date Friday May 30-31

Y-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	D
6772	HD 117815	13 277	47 46	I-12	Astra II	010	+20.0	8 40	9 30	1	1 <sup>st</sup> W
6773	HD 123033	14 002	26 18	"	"	"	+20.0	9 36	10 30	2	2 <sup>nd</sup> W
6774	HD 136654	15 168	31 49	"	"	"	+20.0	10 35	11 25	3	3 <sup>rd</sup> W
6775	HD 146537	16 117	27 48	"	"	"	+20.0	11 30	12 30	4	4 <sup>th</sup> W
6776	148832	16 <sup>25.7</sup> 293	15 19	"	"	"	+20.0	00 34	01 40	1	1 <sup>st</sup> W
6777	158806	17 262	17 36	"	"	"	+20.0	01 43	02 37	2	2 <sup>nd</sup> W
6778	170542	18 249	13 47	"	"	"	+20.0	02 42	03 40	3	3 <sup>rd</sup> W
(Focus test outside through base)											
Saturday, May 31 - June 1, 1941 H-L											
cloudy. about 60 visitors											

Tree 1st aluminum with similar marks

Powder 14.0

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Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.
75 <sup>m</sup> W	47 32	1-0	7.04	A5 3-3-3
42 <sup>m</sup> W	26 06	1-2	7.25	F5 3-3-3
21 <sup>m</sup> W	31 42	2	7.28	F5 3-3-3
0 <sup>32</sup> W	27 34	2-3	7.37	K2 3-3-3
1 <sup>28</sup> W	15 14	2	7.57	A3 3-3-3
1 <sup>25</sup> W	17 34	2	7.28	F5 3-3-3
1 <sup>29</sup> W	13 47	1-2	7.23	F2 3-3-3

REMARKS

Slide: not done

moon June 1<sup>st</sup> 1<sup>h</sup> 2<sup>m</sup> 9<sup>s</sup> 13.7 +12.21

June 1<sup>st</sup> 3<sup>h</sup> 1<sup>m</sup> 7<sup>s</sup> 10.7

	MC	SC	SW	MT	ST
Jun. 2 10	+11.4	+07.7	+04.9	+0.2	+0.0
			Reset	Reset	

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Date *Mon. June 2-3, 1941* *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	D
6778	93075	10 39.8	57 26	I-124	<i>Optica II</i>	.010	+22.8 <sup>↓</sup>	20 40	20 40		
6779	127334	14 25.7	42 15	"	"	"	+23.8	21 45	22 25	1	0 20 W
6780	122663	14 27.5	43 49	"	"	"	+23.9	22 28	22 58	2	56
6781	128092	14 29.9	43 27	"	"	"	+23.9	23 01	23 41	3	1 11 W
6782	132089	14 52.2	41 32	"	"	"	+23.9	23 44	00 44	4	2 17 W
6783	152231	16 45.9	41 49	"	"	"	+23.8	00 47	01 57	1	3 14 W
6784	161464	17 40.6	33 17	"	"	"	+23.8	02 01	03 41	2	4 11 W
6785	179367	19 02.2	44 22	"	"	"	+23.8	02 46	03 44	3	5 14 W
<i>Tuesday June 3-4, 1941 - Mostly cloudy</i>											

Printer at 15.7

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3 25	57 15	2	7.31	F <sub>0</sub>	3-3-3 Pin # This day Temp mag to 23.8
0 25 W	42 03	2	7.01	G <sub>0</sub>	3-3-3 V.S.A. 39H
2 56 W	43 38	2	6.81	A <sub>2</sub>	3-3-3 " " Y during variable
1 36 W	43 14	2	6.88	A <sub>2</sub>	3-3-3 " " Y they widening into light clouds
2 17 W	41 22	2	7.27	A <sub>2</sub>	3-3-3 " " H
1 38 W	41 44	2-3	7.56	A <sub>3</sub>	3-3-3 " 36Y very clear
1 27 W	33 13	2	6.99	B <sub>8</sub>	3-3-3 " 62Y
1 07 W	44 26	2-3	7.31	A <sub>5</sub>	3-3-3 " 38Y light clouds

		NC	SC	SW	MT	ST <sub>m</sub>
Jun. 3	15	+01.9?	-04.1	+06.1	-02.8	+0.1 <del>-0.1</del>
Jun. 4	10	+13.0	-04.5	+06.8	-04.5	-0.0
Jun. 5	10	+15.1	-03.9	+08.8	-08.0	-0.1







179

Date *Friday June 6-7, 1941 H-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
6792	HD 93075	10 39.8	+57 26	I-12	Ast. II	<sup>cat</sup> 010	26.1	20 53	22 03	2
6793	119445	13 38.2	+42 10	"	"	"	26.0	22 10	22 50	3
6794	123691	14 04.1	+48 41	"	"	"	26.0	22 56	23 20	4
		<i>Saturday June 7-8, 1941</i>		<i>mostly clear</i>						
<i>About 80 visitors</i>				<i>Y demonstrated telescope</i>						
				<i>N showed slides</i>						
		<i>Sunday</i>		<i>mostly clear</i>						







183

Date *Tuesday June 10-11, 1941* H

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6800	<i>Frame test</i>			I-12	<i>astr II</i>	<i>at</i> 010. outside the <i>glass</i>				2
	H.D. 93075	10 39.8	+57 26	"	"	010	19.0	20 51	21 57	2
6801	123691	14 04.1	+48 41	"	"	"	19.0	22 00	22 50	3
6802	132089	14 52.2	+41 32	"	"	"	19.1	22 52	23 56	4
6803	145435	16 05.9	+41 22	"	"	"	19.0	23 58	0 42	1
6804	148543	16 23.7	+48 11	"	"	"	19.0	0 45	1 29	2
6805	167304	18 09.5	+41 08	"	"	"	19.0	1 31	2 11	3
6806	182190	19 18.4	+57 28	"	"	"	19.0	2 14	3 54	4
6807	182440	19 19.6	+57 33	"	"	"	19.0	2 56	3 38	1
<p><i>Wed June 11-12 Haze and light clouds all evening</i></p> <p><i>Thurs. June 12-13 B rain</i></p> <p><i>Fri. June 13-14 Y-B cloudy</i></p> <p><i>Saturday June 14-15 H-E clouds with showers about 30 miles</i></p> <p><i>Sun June 15-16 partly cloudy</i></p>										

*Armed at 13.9*

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4 13W	+57 14	1	7.31 F0 3-3-3	Binary <i>Setting 0</i> Strong N wind. Slight haze <i>Setting 5</i>
1 44W	+48 29	1-2	7.11 F2 3-3-3	KCA 33 Slight haze
2 01W	+41 23	2	7.27 A2 3-3-3	34
1 34W	+41 14	2-3	7.27 F5 3-3-3	35
2 03W	+48 05	2	7.52 K0 3-3-3	36
1 00W	+41 08	2-3	7.43 K0 3-3-3	37
0 35W	+57 32	3	7.45 Ma 3-3-3	17
1 15W	+57 39	3	7.57 K2 3-3-3	17

*Monday June 16 B-N*

*Focus test*

*6807T) Setting 3 Focus 26.15 21/22.53 T=17°*

*Setting 6 Focus 26.13 21/22.33 T=16°*

*26.13 is in good focus.*

	MC	SC	SW	MT	ST
Jun. 11 10	+22.7 <i>add wt. 1.0</i>	-06.3	+18.1	+10.2	+0.3
<i>Star readjusted by L.</i>					
Jun. 12 10	-0.4	-06.6	+21.4	+09.0	+0.3
Jun. 13 10	-0.6	-06	+24	+09.6	+0.3
Jun 14 10	+4.2	-06.6	+24.4	+07	+0.2
Jun 16 10	+6.7	-06.7	-07.7		-0.1





Points at 14.8

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg. Mag.

REMARKS

(4.05)

5-7 15

1

731

Fo

3-5

Clouds came up from NW few  
minutes after beginning of exposure.  
Plate in box - was removed  
Still cloudy 23<sup>h</sup>

		MC	SC	BW	MT	ST
Jun. 17	10	+03.1	-06.3	-06.9	-07.6	-0.3 <sup>m</sup>







Ending Time	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS												
	01 55 W	56 17	2	7.46	A <sub>2</sub>	3-3-3	K.S.A 15 New List. H Light												
	01 10 W	75 17	2	7.24	F <sub>2</sub>	3-3-3	" 6 " " H haze												
	02 23 W	16 41	2	7.24	A <sub>0</sub>	3-3-3	" 85 " " Y ab												
	01 53 W	45 03	2	7.20	B <sub>9</sub>	3-3-3	" 38 " " Y evening												
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Jan. 19 10</td> <td>+09.7</td> <td>-05.0</td> <td>-04.8</td> <td>-10.6</td> <td>-0.3</td> </tr> </table>		MC	SC	SW	MT	ST	Jan. 19 10	+09.7	-05.0	-04.8	-10.6	-0.3
	MC	SC	SW	MT	ST														
Jan. 19 10	+09.7	-05.0	-04.8	-10.6	-0.3														



Powder 19.8

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS	
57 <sup>m</sup> W	10 45-	2-1	7.19	A0	3-3-3	83	SKY somewhat thick with cirrus clouds.
1 <sup>h</sup> 09 <sup>m</sup> W	27 34	2-1	7.37	K2	3-3-3	60	Y
0 <sup>26</sup> W	27 40	1	6.60	A3	3-3-3	62	Y
1 <sup>17</sup> W	33 13	1-2	6.99	B8	3-3-3	62	Y
1 <sup>26</sup> W	48 19	1-2	7.24	A2	3-3-3	38	Y
1 <sup>19</sup> W	42 05	2	7.2	A2	3-3-3	39	Y
					5-7		

			MC	SC	SW	MT	ST
Jun. 20	10	+10.7	-03.9	-03.7	-09.8	-0.3	





Thermometer 31.9  
 Barometer 77.0 at start

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Exposure	Aperture	REMARKS
4 36 W	+57 13	2	7.31	F0	3-3-3	Binary KSA 13	Focus set to :26.10
1 25 W	+41 21	2	7.27	A2	3-3-3	KSA 34	
0 54 W	+41 13	2	7.27	F5	3-3-3		35
2 00 W	+31 56	1-2	7.49	G0	3-3-3		60
1 36 W	+26 39	2-2	7.34	F2	3-3-3		62 Light clouds
1 21 N	+41 55	1-2	7.11	B0	3-3-3		38
0 50 W	+42 47	0	7.06	A0	3-3-3		47 Ad. Thick clouds during most of exposure.
Setting 3					12-12		
Setting 8							







Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 20 E	21 35			Faded on a <del>small</del> <i>Boles</i> <span style="float: right;">Seeing poor</span>
	+ 18 02			Plate numbered 6024
				← <i>Refined</i>
0 11 W	+ 36 37			
				Seeing better
1 30 W	- 03 08			Seeing good <span style="float: right;">← <i>Refined</i></span>
2 20	- 03 09			
1 10 W				
4 02 W				
0 30 E	- 01 02			Seeing all parts

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Date Tuesday June 29 25/41 S.H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filter	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6843	NGC 6205	16 393	+35 35	N	EASTMAN 40			21 34	21 44	1
6844	" 5053	13 136	+18 01	"	"			21 53	22 23	2
6845	" 5466	14 031	+28 48	"	"			22 29	22 59	1
6846	" 6405	16 393	+35 35	"	"			23 06	23 12	2
6847	" 6408	17 341	-03 12	"	Astro II			23 54	00 50	1
6848	" 6779	19 140	+30 03	"	EASTMAN 40			00 57	01 02	2
6849	" 6218	16 438	-01 50	"	"			01 38	01 40	1
6850	" 6254	16 336	-04 00	"	"			01 45	01 53	2
6851	" 6366	17 241	-05 01	"	"			01 44	02 09	1
6852	" 6205	16 393	+35 35	"	"			02 33	02 43	2
6853	" 6779	19 140	+30 03	"	"			02 47	03 07	1

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS														
					focused on 2 plates														
					Airplane passed at $23^{\text{h}}$ <del>23<sup>51</sup></del> <del>23<sup>50</sup></del> through field. ← reference <span style="margin-left: 100px;">[<math>23^{\text{h}51}</math> - <math>23^{\text{h}50}</math>]</span> Clouds guide star gone at $23^{\text{h}}$ off $23^{\text{h}45}$ - $23^{\text{h}47}$														
					Clouds 1" - 1.15 <del>reference</del>														
					Delayed by clouds														
					Clouds 5 guided all plates														
					<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td></td> <td style="text-align: center;">MC</td> <td style="text-align: center;">SC</td> <td style="text-align: center;">SW</td> <td style="text-align: center;"> <span style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">MT</span> </td> <td style="text-align: center;"> <span style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">ST</span> </td> </tr> <tr> <td style="text-align: center;">Jun. 25</td> <td style="text-align: center;">12</td> <td style="text-align: center;">+15.0</td> <td style="text-align: center;">+06.2</td> <td style="text-align: center;">+02.5</td> <td style="text-align: center;">+11.0</td> <td style="text-align: center;">-0.0</td> </tr> </table>			MC	SC	SW	<span style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">MT</span>	<span style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">ST</span>	Jun. 25	12	+15.0	+06.2	+02.5	+11.0	-0.0
		MC	SC	SW	<span style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">MT</span>	<span style="border-top: 1px solid black; border-bottom: 1px solid black; padding: 0 5px;">ST</span>													
Jun. 25	12	+15.0	+06.2	+02.5	+11.0	-0.0													



Date *Wednesday June 25-26/41* S.H.L 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 <i>1935</i>	1900							
6854	NGC 6205	16 393	+36 35	Newtonian	E 40			21 30	21 36	1
6855	" 5904	15 15.1	+02 20	"	"			21 40	21 46	2
6856	" 5466	14 028	+28 49	"	"			21 52	22 22	1
6857	" 6205	16 393	+36 35	"	"			22 25	22 27	2
	{ Area 61	16 590	+30 00	"	"			22 32	22 34	
	"	"	"	"	"			22 37	22 30	
6858	{ Area 61	16 590	+30 00	"	"			22 41	22 47	1
	{ NGC 6205	16 393	+36 35	"	"			22 49	22 55	
6859	" 6779	19 140	+30 03	"	"			23 01	23 26	2
6860	" 6366	17 241	-05 01	"	"			23 36	00 01	1
6861	" 6402	17 341	-03 12	"	Astra II			00 06	00 42	2
6862	" 6779	19 140	+30 03	"	Eastman 40			00 48	01 08	1
6863	{ " "	"	"	"	"			01 10	01 20	2
	{ Area 64	19 580	+30 00	"	"			01 22	01 32	
6864	NGC 6402	17 341	-03 12	"	Astra II			01 43	01 17	1
6865	" 6366	17 241	-05 01	"	Eastman 40			02 21	02 45	2

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
			Fair		Focused on 2 plates
			Good		
					Offset 2 mm in RA.
			Very Good		← refocused
			Very Good		← refocused
	2 41 W				
					Squidney all plates





Date Thursday June 26-27, 1941 S. H. N. Julian Day

Plate No.	Object	R.A.	Declination	Instrument	Emulsion	Slit	Temperature	Starting Time	Ending Time	Hour Angle End	
		1900 1942	-1900					E.S.T.	E.S.T.		
6867	NGC 6205	16 39.5	+36 34	N	E 40			21 26	21 32	1	K E
6868	5904	15 15.4	+02 19	-	-			21 36	21 44	2	2 29 W
6869	6218	16 44.1	-01 50	-	-			21 50	21 56	1	1 14 E
6870	6402	17 34.4	-03 12	-	Astron II			22 00	22 34	2	
6871	{ NGC 6205	16 39.5	+36 34	-	E 40			22 19 28	22 43	0 1	
	{ KSA 61	17 00.5	+29 57					22 45 30	22 49 30	0 1	
6872	NGC 6366	17 24.4	-05 01	-	E 40			22 54	23 18	2	
6873	5466	14 03.1	+25 48	-	-			23 33	00 03	1	1 10 W
6874	6779	17 14.2	+30 03	-	-			00 08	00 26	2	1 04 E
6875	6402	17 34.4	-03 12	-	Astron II			00 31	01 07	1	
6876	{ NGC 6779	19 14.2	+30 03	-	E 40			01 15 37	01 25 01	2	
	{ KSA 64	19 14.3	+30 05					01 28 36	01 33 30	0 1	
6877	NGC 6366	17 24.4	-05 01	-	-			01 49	02 07	1	
6878	6951	20 49.8	-12 47	-	-			02 13	02 59	2	
6879	6205	16 39.5	+36 34	-	-			03 04	03 10	1	1 14 W



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Date *Friday June 27-28*

Y

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
6880	HD 128092	14 29.9	+43 27	I-12	Astra	0.10	31.3	8 58	9 58	2
6881	HD 145931	16 08.5	42 38	"	"	"	31.6	10 08	11 08	3
<del>6881</del>	HD 157255	17 17.1	32 47	"	"	"	31.4	11 16		1
Shut off by clouds look for next										
Saturday June 28-29 H-N 40+ winter										
Monday June 30-July 1 L sky alternately cloudy										

Pond 22.3

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS																			
03	1 <sup>h</sup> 32 <sup>m</sup> W	43 16	2-1	688	A2	3-3-3	Sea water +0.1 <sup>m</sup> from city																		
07	1 05 W	42 30	2	719	K5	3-3-3	Blew fuse in dec guiding!																		
		32 43	1	683	A0	3																			
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Jun. 30</td> <td>14</td> <td>+18.5</td> <td>+26.8</td> <td>+12.7</td> <td>+02.4 -0.2<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Reset.</td> </tr> </table>		MC	SC	SW	MT	ST	Jun. 30	14	+18.5	+26.8	+12.7	+02.4 -0.2 <sup>m</sup>						Reset.
	MC	SC	SW	MT	ST																				
Jun. 30	14	+18.5	+26.8	+12.7	+02.4 -0.2 <sup>m</sup>																				
					Reset.																				
							<p>dy. about 74" and N. showed white</p> <p>and clear. gave it up after midnight.</p>																		



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Date *Tuesday July 1-2, 1941 H*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exposure Time	Hour Angle End
6882	HD 127834	14 25.7	+42 15	I-12	<i>Agfa II</i>	<i>3rd P10</i>	31.0	20 49	21 21	2	17W
6883	133109	14 57.6	+56 01	"	"	"	31.0	21 25	22 05	4	28W
6884	135501	15 10.3	+56 26	"	"	"	30.8	22 08	23 08	1	29W
6885	151043	16 39.8	+77 57	"	"	"	30.8	23 12	00 02	2	46W
6886	164185	17 54.7	+61 25	"	"	"	30.8	00 06	00 50	3	15W
6887	178634	19 04.3	+59 08	"	"	"	30.7	00 54	01 50	4	18W
6888	187748	19 46.5	+59 10	"	"	"	30.7	01 58	02 37	1	
6889	{ 201344	21 03.9	+59 01	"	"	"	30.6	02 39	03 49	2	
	<i>Don't - whole length</i>										

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Electrical station to S and NE only

Pointer 21.9 some temp 89 at night

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 17 W	+42 04	3	7.01	G0	3-3-3	KSA 34 Star frequently hidden by small clouds.
1 28 W	+55 52	3	7.40	F0	3-3-3	15 some small clouds.
2 19 W	+56 16	3-2	7.46	A2	3-3-3	15
1 46 W	+77 51	3-2	7.42	F8	3-3-3	6 Thick clouds <sup>23</sup> 23- <sup>38</sup> 23
1 18 W	+61 23	3-2	7.26	A3	3-3-3	16 $\mu$ 5"
1 08 W	+59 10	3	7.52	A2	3-3-3	17 faint aurora
	+59 15	3-2-1	7.22	G0	3-3-3	17 being seen in middle.
1 07 W	+59 10	2	7.30	A0	3-3-	18 Light clouds latter half of
						refuse.

All 20.3  
had 26.95

		MC	SC	BW	MT	ST
Jul. 2	15	+19.9	+35.8	+16.4	<del>+19.9</del> +30.0	+0.4 <sup>m</sup>

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Date Wednesday July 2-3 Y.A. 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.	H.	Hour Angle End
6890	HD 127663	14 275	43 49	I-12	Astra II	010	24.1	9 11	10 31	1	
68910	HD 156547	17 131	26 00	"	"	"	24.0	10 38	11 05	2	
	Focus test										
Thurs July 3-4/41 Sky mostly cloudy clearing towards											





Pomula sat 17.7

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 <sup>h</sup> 06 <sup>m</sup> W	31° 42'	1+	7.28	F5-3-3-3	Y
1 <sup>h</sup> 06 <sup>m</sup> W	11 31	1+	7.21	K0 3-3-3	H
1 <sup>h</sup> 12 <sup>m</sup> W	17 33	1+	7.28	F5 3-3-3	Y
1 <sup>h</sup> 41 <sup>m</sup> W	41 13	2	6.76	A0 3-3-3	} Double star { H Lower star of pair, sh <sup>l</sup> brighter H Upper " " "
2 <sup>h</sup> 55 <sup>m</sup> W	"	2		3-3-3	
2 <sup>h</sup> 16 <sup>m</sup> W	30 37	2	6.70	B <sub>9</sub> 3-3-3	M <span style="border: 1px solid black; padding: 2px;">redder of two</span>

Brilliant aurora all evening especially last half, extending right down to, and sometimes below the equator.

	MC	SC	SW	MT	ST
Jul. 5	10. +21.9	+51.6	+19.3	+22.0	+0.2 <sup>m</sup>



about 60 miles

H cloud mass with 74. mil  
S cloud mass with 4. mil

216

Humidity set 11.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Filter	Filter	Filter	REMARKS
1 <sup>34</sup>	W	28 29	0-1-2	7.51	F5	3-3-3	KSA 61	light haze, being improved
1 <sup>26</sup>	W	15 06	0-1	7.08	G5	3-3-3	" 86	light haze much haze
1 <sup>14</sup>	W	31 22	1	6.65	A <sub>0</sub>	3-3-3	" 64 M	all but light clouds 1 <sup>15</sup> 1 <sup>05</sup>
1 <sup>08</sup>	W	44 07	1	6.52	B <sub>0</sub>	3-3-3	" 40 M	all but light clouds 1 <sup>25</sup> - 1 <sup>00</sup> - clearing
0 <sup>03</sup>	W	-01 53	1	6.92	K <sub>0</sub>	3-3-3	BSC	hazy
								<p>           Jul. 8 10 MC +0.5 ready            SC +1.09.4            SW +18.5            RT 0.0            ST 0.0         </p>





Thermostat set 138

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
1 49W	32 55	2-3	7.21	F2	3-3-3 KSA 59																		
0 59W	11 32	2-3	7.21	K0	3-3-3 KSA 84																		
2 07W	17 53	2	7.58	F0	3-3-3 KSA 55 <i>Wedge</i>																		
1 19W	42 11	2	7.20	F8	3-3-3 KSA 38																		
1 30W	44 12	2-3	7.57	F0	3-3-3 KSA 66																		
1 02W	5 30	2	6.5	F0	3-3-3 BSE																		
					<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>SW</th> <th>MT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Jun 9</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>+01.7</td> <td>+115.3</td> <td>+19.2</td> <td>-03.2</td> <td>-0.1</td> </tr> </tbody> </table>		MC	SC	SW	MT	ST	Jun 9						10	+01.7	+115.3	+19.2	-03.2	-0.1
	MC	SC	SW	MT	ST																		
Jun 9																							
10	+01.7	+115.3	+19.2	-03.2	-0.1																		

219

L-C

Date Wednesday Jul 9-10 1941 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Dec
6908	HD 145082	16 04.0	47 46	I - 12 $\frac{1}{2}$	Orto II	.010	24.4	8 58	9 42	1	
6909	HD 157255	17 17.1	32 47	"	"	"	24.1	9 50	10 40	2	
6910	HD 167944	18 12.4	12 02	"	"	"	24.2	10 47	11 56	3	
6911	HD 178512	19 03.8	12 57	"	"	"	24.0	12 01	1 01	4	
6912	HD 188876	19 52.2	32 48	"	"	"	24.0	1 06	1 55	1	
<p>Thursday July 10-11 H-A Cloudy with rain all night</p> <p>Friday July 11-12 L-A Cloudy all night.</p>											

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																		
1	0° 30' W	47 39	1	6.58 A <sub>0</sub>	3-3-3 AP list zone 35 Y Images left in tray																		
2	0° 15' W	32 44	1	6.83 A <sub>0</sub>	3-3-3 New list zone 61 Y																		
3	0° 35' W	12 02	2	7.55 F <sub>5</sub>	3-3-3 AP list zone 86 H Long dark in middle																		
4	0° 49' W	13 00	1	6.92 B <sub>8</sub>	3-3-3 Old list zone 87 M Right side dark																		
11	0° 55' W	32 56	2	7.24 A <sub>0</sub>	3-3-3 " " 64 M Clouded up at 1:55 Cloud up at 3:00 - still cloudy																		
<p style="color: red;">Iron ore being; these exposures evidently made with 2 filters out instead of 1.</p>																							
<table border="1"> <thead> <tr> <th></th> <th>NE</th> <th>SE</th> <th>SW</th> <th>NT</th> <th>ST</th> </tr> </thead> <tbody> <tr> <td>Jul. 10</td> <td>+03.0</td> <td>+1 21.7</td> <td>+19.7</td> <td>-07.0</td> <td>-0.1</td> </tr> <tr> <td>"</td> <td>+03.8</td> <td>+1 29.1</td> <td>+20.2</td> <td>-12.3</td> <td>-0.3<sup>m</sup></td> </tr> </tbody> </table>							NE	SE	SW	NT	ST	Jul. 10	+03.0	+1 21.7	+19.7	-07.0	-0.1	"	+03.8	+1 29.1	+20.2	-12.3	-0.3 <sup>m</sup>
	NE	SE	SW	NT	ST																		
Jul. 10	+03.0	+1 21.7	+19.7	-07.0	-0.1																		
"	+03.8	+1 29.1	+20.2	-12.3	-0.3 <sup>m</sup>																		

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Date Saturday July 12-13, 1941 H-C 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 Incl	Dist
6912	HD 156987	17 15.5	+28 07	I-12	Astron I	S.P. 010	23.8	22 19	23 31	3	SW
6913	HD 164824	17 57.9	+33 20	"	"	"	23.6	23 36	00 26	1	SW
6914	HD 179395	19 07.3	+41 53	"	"	"	23.5	00 30	01 30	2	SW
6915	HD 206878	21 54.1	42 46	"	"	"	23.7	01 35	02 55	3	SW
6916	HD 214558	22 33.9	44 40	"	"	"	23.4	02 59	03 39	4	W
<p><u>Sunday July 14-15</u> - L-</p> <p><u>Tuesday July 15-16, 1941</u> H-A Cloudy all evening &amp; night</p>											

about 70 visitors; Washburn 2 June + M13  
 N about Venus,  $\beta$  Cygni;  $\epsilon$  Cygni 44"  
 p. 222

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
23/31	1 <sup>h</sup> 18 <sup>m</sup> W	+28 06	1	7.02	A0	3-3-3 KSA61																		
	1 <sup>h</sup> 31 <sup>m</sup> W	33 18	1	7.45	K5	3-3-3 KSA62																		
23/32	1 <sup>h</sup> 26 <sup>m</sup> W	41 55	1	7.11	B9	3-3-3 KSA38																		
23/33	0 <sup>h</sup> 5 <sup>m</sup> W	42 57	2	7.36	B9	3-3-3 <del>0.2</del> 3.0 41																		
23/34	0 <sup>h</sup> 8 <sup>m</sup> W	44 53	2-3	6.75	F9	3-3-3 " " " 42																		
<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Jul. 14</td> <td>12</td> <td>+05.6</td> <td>+1 32.3</td> <td>+06.2</td> <td>-0.2 -0.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>—</td> <td>—</td> </tr> </table>								MC	SC	SW	MT	ST	Jul. 14	12	+05.6	+1 32.3	+06.2	-0.2 -0.0					—	—
	MC	SC	SW	MT	ST																			
Jul. 14	12	+05.6	+1 32.3	+06.2	-0.2 -0.0																			
				—	—																			

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Date *Thursday, July 17-18, 1941* H-A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
6917	HD 138085	15 24.7	+16 44	I-12	<i>astrat II</i>	<sup>set</sup> 010	22.5	20 48	21 58	1	
6918	145228	16 04.7	+12 01	"	"	"	22.5	22 02	23 22	2	
6919	181566	19 15.9	+63 02	"	"	"	20.7	23 32	0 22	3	
6920	193265	20 14.3	+72 34	"	"	"	22.7	0 48	1 58	4	
6921	202345	21 10.1	+74 50	"	"	"	22.7	2 08	3 16	1	
6922	221215	23 25.8	74 41	"	"	"	22.5	3 26	4 00	2	
	<i>Focus Test</i>										
	<i>Saturday, July 19-20, 1941 H-A.</i>										
	<i>mostly cloudy all evening. Showed some of</i>										
	<i>Antares &amp; Arcturus with 74-inch.</i>										
	<i>Rain at 11<sup>00</sup> - 11<sup>20</sup></i>										
	<u>OVER</u>										

Temp set 15.8

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 56 W	+16 36	0-1	7.55	K5 3-3-3	KSA 83 {trouble with dome turning; tracked up
2 40 W	+11 54	1-2	7.27	F2 3-3-3	84 {contacts below
0 40 W	+63 06	2	7.33	F5 3-3-3	17 {some trouble with dome turning
1 07 W	+72 42	2	7.39	F0 3-3-3	7
1 31 W	+74 59	2	7.35	F2 3-3-3	7
0 02 E	+74 53	1	6.34	A0 3-3-3	2

July 20.3  
 Aug 26.0

		NC	SC	SW	MT	ST
Jul. 18	15	-18.4	+2 19.8	+20.3	-27.8	+0.1
			Added wt.			











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Date Wednesday July 23-24 1941 S-H-A. 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
		1935	1900							
6934	NGC 6205	16 39.3	+36 35	Newtonian	E-40	-	-	21 06	21 14	1
6935	6779	19 14.0	+30 03	"	"	"	"	21 22	21 52	2
6936	5904	15 15.1	+2 20	"	"	"	"	21 56	22 06	
6937	6366	17 24.1	-5 01	"	"	"	"	22 21	23 01	2
6938	6402	13 34.1	-3 12	"	"	"	"	23 29	00 09	1
6939	6779	19 14.0	+30 03	"	"	"	"	00 22	00 46	2
6940	6760	19 17.7	+0 55	"	"	"	"	00 58	01 58	1
6941	6205	16 39.3	+36 35	"	"	"	"	02 17	02 25	2
6942	6779	19 14.0	+30 03	"	"	"	"	02 31	02 47	1
6943	7492	23 05.1	-15 51	"	"	"	"	02 59	03 21	
6944	7089	21 29.9	-01 07	"	"	"	"	03 34	03 40	



231

Date *Thursday* 1941 Jul. 24-25 S-H-N Julian Day

Plate No.	Object	R.A.	Declination	Instrument	Emulsion	Slit	Temperature	Starting Time		Ending Time		Hour Angle End
		1900	1900					E.S.T.	E.S.T.			
			1935									
6945	NGC 6204	16 39.3	+36 35	N	E 40			21 05	21 13	2		
6946	6779	19 14.0	+30 03	-	-			21 18	21 42	1		
6947	5904	15 15.1	+02 20	-	-			21 46	21 50	2		
6948	6366	17 24.1	-05 01	-	-			22 11	22 41	1		
6949	6218	16 43.8	-01 50	-	-			22 44	22 50	2		
6950	6254	16 53.6	-04 00	-	-			22 56	23 03	1		
6951	6402	17 34.1	-03 12	-	-			23 12	00	2		
6952	6781	20 49.5	-12 58	-	-			00 07	00 51	1		
6953	7039	21 29.9	-01 07	-	-			01 03	01 13	2		
6954	6777	19 14.0	+30 03	-	-			01 19	01 47	1		
6955	6203	16 39.3	+36 35					01 48	01 50	2		

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		moderate		Focused on 5 Afl. being poor
		poor		poor guide star, transparency poor. Focused on star in field of view. Trouble with some tuning
				Developed 3 plates
				H. guiding - poor guide star Focused.
				Can not be reached any further east. Passing clouds.
5 15 W				1-2 neg. absorption rates for the rest of the run.
				July 25 <sup>th</sup> 10 <sup>h</sup> -13.7    SC <sup>5</sup> +2 17.9    SW <sup>5</sup> +2 3.0 <del>0.0</del> +0.2 <sup>m</sup>



233

Date Friday, July 25-26, 1941 H-C 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
6756	HD 145228	16 24.7	12 21	1-12	<del>II</del> II	.10	31.5	20 42	22 22	4
6757	164135	17 54.7	61 25	"	"	"	31.3	22 24	02 04	1
6758	182190	19 18.4	57 <del>28</del>	"	"	"	31.0	00 40	02 18	2
<del>6759</del>	<del>201032</del>	<del>21 02.0</del>	<del>62 59</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>31.0</del>	<del>02 10</del>	<del>04 20</del>	<del>3</del>

Saturday, July 26-27, 1941 H-S-A

about 125" radius (large part from O.O.E).

H about 2. This = M13 with 74" disk

S about 6 by one with 4" disk

Staying up from 10<sup>45</sup> - 11<sup>15</sup>

Cloud up 11<sup>30</sup>. Rather thick rest of night.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 51	11 55	0-1	7.27 F <sub>2</sub>	3-3-3
02 05	61 24	0-1	7.6 A <sub>3</sub>	3-3-3
03 08	57 31	0	7.45 Ma	3-3-3
<del>03 14</del>	<del>63 11</del>	<del>0</del>	<del>7.40 A<sub>5</sub></del>	<del>3-3-3</del>

July 28 10<sup>h</sup> M.C. S.C. SW. ST. S.M.  
 -03.6 +2° 01.8 +29.8 -235 -0.3  
 ~ 29 13<sup>h</sup> -13.9 +2° 00.7 +26.8 -339 -0.5  
 30 10 -14.0 +2° 03.3 +26.0 -404 -0.7  
 31 10<sup>h</sup> -14.2 -2° 01.6 +21.8 +19.5 -0.2

235

Date *Thursday July 31-Aug 1, 1941 H-A* Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
6959	HD 154985	17 03.6	+75 21	I-12	<i>astin II</i>	<i>set</i> 010	29.2	20 33	21 53	4	
6960	HD 164135	17 54.7	+61 25	"	"	"	29.2	21 58		1	
	182440	19 19.6	+57 33	"	"	"					
	<i>Focus test - outside the box -</i>				<i>Focus slide</i>		<i>- 26.03</i>	<i>Tilt - 20.3</i>			

Hour Angle End.	Declination	Seeing	Ptg. Mag.		REMARKS
1 10W	+75 16	2	7.24	F2	3-3-3 KSA 6 Haze Somewhat brighter star 4'N, 6'S of base?
	+61 22	3	7.26	A3	3-3-3 16 Haze. Circles 22 <sup>26</sup> . Libel bands 22 <sup>33</sup>
			7.57	K2	
					closed up = 2 <sup>45</sup>
					ME SE SW MT ST
					Aug 1. 10 <sup>h</sup> -13.3 +2 <sup>s</sup> 0.5 +25.8 +6.5 -0.0



Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2 <sup>k</sup>	17W 45 05	1-2	7.27 A <sub>0</sub>	3-3-3	KSA 36	Y scattered light clouds
0	58W 44 28	2	7.31 A <sub>5</sub>	3-3-3	" 38	Y <i>more scattered clouds</i> *numbered 6931
0	52W 42 10	1	7.15 B <sub>0</sub>	3-3-3	" 40	M good transparency
2	13W 42 40	1	7.50 B <sub>9</sub>	3-3	" 41	M



Temp Control set at 18.3

Ending Time I.S.T.	Hour Angle End.	Declination	Seeing	Ptg. Mag.	REMARKS
	1 56W	+57 53	1	6.81 FS	3-3-3 KSA-17
	2 26W	+57 50	1-2	7.86 F8	3-3-3 KSA-18 other stars in field
	0 06E	+58 25	2	6.11 B9	3-3-3 KSA-8 M
	0 50E	+50 27	2	5.62 B9	3-3-3

about 700-800(?) visitors.

H-A-N-S. 74 incl on ~~max~~ + 8 eggs4 incl on ~~beta~~ eggs2 incl on ~~max~~

	NE	SE	SW	NT	ST
Aug 5 <sup>h</sup> 10 <sup>h</sup>	-14.2	+1 38.4	-05.1	-1.5	-0.3

SW, NTW, STW incl





Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
24 <sup>m</sup> W	27 40	1	660	A3	3-3-3	Y
23 <sup>m</sup> W	33 02	1	691	A2	3-3-3	Zone 63 226° Y
73 <sup>m</sup> W	32 40	1-2	669	B9	3-3-3	64 226 M
59 <sup>m</sup> W	42 11	1	704	B9	3-3-3	40 226 Hd
58 <sup>m</sup> W	31 07	1-2	741	A0	3-3-3	47 226 M
03 <sup>m</sup> W	06 38	1	566	A0	3-3-3	41 226 Hd

MC SC SW MT ST<sub>m</sub>  
 Aug 6 10<sup>h</sup> -15.1 +1<sup>m</sup> 47.7 +0.6 -6.0 -0.4

243

Date Aug 6-7 wed. Y-A

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
6975	HD 161130	17 38.7	29 28	I-12	astral II	010	25.5	8 20	9 16	4	8 <sup>m</sup> W
6976	HD 177152	18 58.4	44 14	"	"	"	25.9	9 21	11 14	1	55 <sup>m</sup> W
6977	HD 188876	19 52.2	32 48	"	"	"	25.9	11 16	12 46	2	30 <sup>m</sup> W
6978	HD 203015	21 14.5	17 24	"	"	"	25.7	12 56	2 16	3	20 <sup>m</sup> W
6979	HD 218505	23 03.6	44 01	"	"	"	25.0	2 24	3 14	4	15 <sup>m</sup> W
6980	HD 2739	00 25.5	43 24	"	"	"	25.2	3 21	4 01	1	10 <sup>m</sup> W
6981	HD 7619	01 05.5	37 12	"	"	"	25.3	4 08	4 28	2	15 <sup>m</sup> W
	Focus set				Focus slide	26.0			tilt 20.3		
6981F	focus set				focus set	26.10			outside thin lens		



245

Date Thur Aug 7-8

Y-C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Error Angle End	De
6982	HD 160822	17 369	31 22	J-12	Astra II	010	28.7	8 18	9 20	4	
6983	HD 182440	19 196	57 33	"	"	"	28.7	9 26	10 56	1	
6984	HD 193265	20 143	72 34	"	"	"	29.0	11 05	00 25	2	
6985	HD 201888	21 074	62 53	"	"	"	28.9	00 32	01 32	3	
6986	HD 223386	23 240	59 25	"	"	"	28.5	01 43	02 33	4	
6987	HD 224870	23 365	73 03	"	"	"	28.5	02 41	03 31	1	
6988	HD 5944	00 538	57 17	"	"	"	28.5	03 40	04 40	2	
	Focus test			Focus at 26.10		Slit 20.3		Outside the plate			
	Friday Aug 8-9			Cloudy							

$\Delta H$  mean time water at 1<sup>st</sup>

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																		
0 50	27 <sup>m</sup> W	31 20	2-3	7.43	K0 3-3-3	Handed KSA 62 Handker lake type stars west & South																		
0 56	22 <sup>m</sup> W	57 40	1	7.57	K2 3-3-3	I Handed KSA 17																		
1 02	58 <sup>m</sup> W	72 43	1	7.39	FD 3-3-3	I Handed KSA 7																		
1 12	10 <sup>m</sup> W	63 01	✓	6.45	B8 3-33	I " 18																		
1 20	26 <sup>m</sup> E	59 30	1	6.38	A0 3-3-3	I " 19																		
1 30	20 <sup>m</sup> W	73 14	1	6.52	A0 3-3-3	I " 2																		
1 40	29 W	57 29	0	6.80	A2 3-3-3	M " 8																		
						Handed 7 stars type 4																		
						<table border="0"> <tr> <td></td> <td>me</td> <td>se</td> <td>sw</td> <td>M.T.</td> <td>S.T.</td> </tr> <tr> <td>Aug 8<sup>th</sup> 12<sup>h</sup></td> <td>-15<sup>m</sup></td> <td>+1<sup>m</sup>42</td> <td>-0<sup>m</sup>7</td> <td>-1<sup>m</sup>16</td> <td>+0<sup>m</sup>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>+5<sup>m</sup> <u>rest</u></td> <td>+1<sup>m</sup>0</td> </tr> </table>		me	se	sw	M.T.	S.T.	Aug 8 <sup>th</sup> 12 <sup>h</sup>	-15 <sup>m</sup>	+1 <sup>m</sup> 42	-0 <sup>m</sup> 7	-1 <sup>m</sup> 16	+0 <sup>m</sup> 0					+5 <sup>m</sup> <u>rest</u>	+1 <sup>m</sup> 0
	me	se	sw	M.T.	S.T.																			
Aug 8 <sup>th</sup> 12 <sup>h</sup>	-15 <sup>m</sup>	+1 <sup>m</sup> 42	-0 <sup>m</sup> 7	-1 <sup>m</sup> 16	+0 <sup>m</sup> 0																			
				+5 <sup>m</sup> <u>rest</u>	+1 <sup>m</sup> 0																			
						<table border="0"> <tr> <td>Aug 9</td> <td></td> <td></td> <td></td> <td>M.T.</td> <td>S.T.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0<sup>s</sup></td> <td>+1.0</td> </tr> </table>	Aug 9				M.T.	S.T.					0 <sup>s</sup>	+1.0						
Aug 9				M.T.	S.T.																			
				0 <sup>s</sup>	+1.0																			



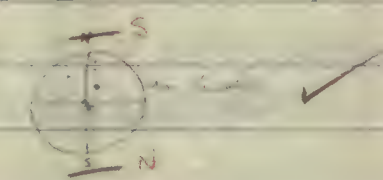






Accepted 123  
 Sun Aug 54

Ending Time BST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
3:30	6 <sup>h</sup> 51 <sup>m</sup> W	31 12	0-1	6.73	B <sub>9</sub>	3-3-3 M ASA 63 6 <sup>h</sup> 6 <sup>m</sup> Cloudy until 21 <sup>h</sup> some haze later
3:30	0 <sup>h</sup> 37 <sup>m</sup> W	44 09	1	6.52	B <sub>8</sub>	3-3-3 M ASA 40 6 <sup>h</sup> 16 <sup>m</sup>
	0 <sup>h</sup> 44 <sup>m</sup> W	62 44	0-1	7.20	A <sub>0</sub>	3-3-3 H KSA 18 6 <sup>h</sup> 30 <sup>m</sup>
	1 <sup>h</sup> 19 <sup>m</sup> W	77 33	0-1	7.04	A <sub>0</sub>	3-3-3 H ASA 2 6 <sup>h</sup> 30 <sup>m</sup>
	0 07 <sup>m</sup> W	57 56	1-2	5.65	B <sub>8</sub>	3-3-3 M KSA 8 6 <sup>h</sup> 36 <sup>m</sup>
3:30	0 10 <sup>m</sup> W	36 56	1	5.75	B <sub>9</sub>	3-3-3 M BSC.



hour 7<sup>m</sup>  
 4<sup>m</sup> 4<sup>m</sup>

		MC	SC	SH	MT	ST
Aug 13	12h	-15 <sup>s</sup>	+12 <sup>s</sup>	+11 <sup>s</sup>	-2 <sup>s</sup>	+10 <sup>s</sup>

9<sup>h</sup> 40<sup>m</sup> 11<sup>m</sup> 11<sup>m</sup>

251

Date Wednesday August 13-14 C-A 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 End	D
6998	HD 160740	17 36.5	44 04	I-12 $\frac{1}{2}$	Astra II	0.10	18.5°	20 30	22 00	1	50
6999	HD 183339	19 24.0	57 49	"	"	"	18.4°	22 05	2 37	2	53
7000	HD 188876	19 52.2	32 48	"	"	"	18.5°	22 58	00 26	3	54
<del>7001</del>	<del>HD 188876</del>	<del>19 52.2</del>	<del>32 48</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>18.5°</del>	<del>22 58</del>	<del>00 26</del>	<del>3</del>	<del>54</del>
Aug 14-15 AC Cloudy with rain											

pointer 13.3

Time 55

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
01 32 44	03	0-1-2	7.25	A <sub>2</sub>	3-3-3 M +5A 37 5:45? 3rd pass with stopped																		
0 25 57	51	2	6.41	B <sub>8</sub>	3-3-3 M 17 (number 5000)																		
1 45 32	57	0-1	7.24	A <sub>0</sub>	3-3-3 M 64 7000*																		
			7.50	B <sub>9</sub>	41 " Clouded up at 0045 EST.																		
					Trouble with fast motion - see - telescope																		
					continued from north as soon as unobscured																		
					(short circuit in switch)																		
					<table border="0"> <tr> <td></td> <td>me</td> <td>se</td> <td>sw</td> <td>NT</td> <td>ST</td> </tr> <tr> <td>Aug. 14 12<sup>h</sup></td> <td>-15<sup>s</sup></td> <td>+1<sup>m</sup>26<sup>s</sup></td> <td>+09<sup>s</sup></td> <td>-06</td> <td>stop</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>read at 1400<sup>s</sup></td> <td>-0.4</td> </tr> </table>		me	se	sw	NT	ST	Aug. 14 12 <sup>h</sup>	-15 <sup>s</sup>	+1 <sup>m</sup> 26 <sup>s</sup>	+09 <sup>s</sup>	-06	stop					read at 1400 <sup>s</sup>	-0.4
	me	se	sw	NT	ST																		
Aug. 14 12 <sup>h</sup>	-15 <sup>s</sup>	+1 <sup>m</sup> 26 <sup>s</sup>	+09 <sup>s</sup>	-06	stop																		
				read at 1400 <sup>s</sup>	-0.4																		
					<table border="0"> <tr> <td>Aug 15 12<sup>h</sup></td> <td>-14<sup>s</sup></td> <td>+1<sup>m</sup>23<sup>s</sup></td> <td>+10<sup>s</sup>.6</td> <td>-4.9</td> <td>-0.2</td> </tr> </table>	Aug 15 12 <sup>h</sup>	-14 <sup>s</sup>	+1 <sup>m</sup> 23 <sup>s</sup>	+10 <sup>s</sup> .6	-4.9	-0.2												
Aug 15 12 <sup>h</sup>	-14 <sup>s</sup>	+1 <sup>m</sup> 23 <sup>s</sup>	+10 <sup>s</sup> .6	-4.9	-0.2																		

253

Date Saturday August 16-17 K-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1500	Instrument	Emulsion	Slit	Temperature	Starting Time <del>EST</del>	Ending Time <del>EST</del>	Hour Angle End	D
								Siderial	Time		
7001	HD 190165	19 58.6	45 11	I-12 $\frac{1}{2}$	Astra II <sup>sel</sup> .010		+18.4	19 43	01 33	4	
7002	" 210208	22 03.7	42 29	"	"	"	+18.3	21 38	23 34	1	
TEST	TEST				EASTMAN SPECIFIC 3370						
7003	HD 222555	P3 36.5	46 18	"	Astra II	"	+15.2	23 39	01 03	2	
7004	" 5764	00 54.2	47 29	"	"	"	+18.1	01 09	02 09	1	
Monday Aug 18-19 Cloudy with a little rain.											

Point set at 13.15 in play in.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
					About 20 visitors & showed Baygon L used 4".
1 33 W	45 20	1	7.58 Ae	3-3-3 Ha	
1 28 W	42 41	1	7.50 B9	3-3-3 M	
					SPOTS 3 MINS. } Compare
1 25 W	46 33	1	7.23 B9	3-3-3 M	SPOTS 3 MINS }
1 10 W	47 41	1	6.95 B8	3-3-3 M	



Points set at 148

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
0 <sup>19</sup> E	27 53	0-1	6.54	B <sub>8</sub>	3-3-3	A.S.A. 63 M Old test.
0 <sup>01</sup> W	31 22	0	6.65	A <sub>0</sub>	3-3-3	" 64 M "
0 <sup>08</sup> W	47 26	0	7.22	B <sub>8</sub>	3-3-3	" 40 M "
6 <sup>10</sup> E	22 47	0-1	7.54	B <sub>8</sub>	3-3-3	" 66 M " clearing up at 00 <sup>30</sup>

sky remained completely clear.  
Clear at 01<sup>30</sup> in spite of clearing.

	NP	SC	SW	HT	ST
Aug 20 <sup>th</sup> 12 <sup>h</sup>	-11.0	+1.099	+16.9	-23.2	-0.4





position 15-2

Ending Time  
R.A.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS																		
01 34W	29 39	2	<del>7.52</del> 7.52	A <sub>2</sub> 3-33	KSA 62 H RA. 18 9.7																		
0 38 E	77 53	1	5.88	B <sub>9</sub> 3-33	7 H																		
0 43W	75 42	1-2	6.77	G <sub>5</sub> 3-33	7 H Thin clouds in all but with at 00.05																		
thin clouds in all but with					completely clouded at 01.00. cloud up																		
<table border="0" style="width: 100%; text-align: center;"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>SW</td> <td>NT</td> <td>ST</td> </tr> <tr> <td>Aug 21 12<sup>h</sup></td> <td>-10.9</td> <td>+1<sup>m</sup> 06.9</td> <td>+17.9</td> <td>-28.2</td> <td>-0.5</td> </tr> <tr> <td>22 12<sup>h</sup></td> <td>-10.2</td> <td>+1<sup>m</sup> 04.5</td> <td>+20.5</td> <td>-29.2</td> <td>-0.5</td> </tr> </table>							NE	SE	SW	NT	ST	Aug 21 12 <sup>h</sup>	-10.9	+1 <sup>m</sup> 06.9	+17.9	-28.2	-0.5	22 12 <sup>h</sup>	-10.2	+1 <sup>m</sup> 04.5	+20.5	-29.2	-0.5
	NE	SE	SW	NT	ST																		
Aug 21 12 <sup>h</sup>	-10.9	+1 <sup>m</sup> 06.9	+17.9	-28.2	-0.5																		
22 12 <sup>h</sup>	-10.2	+1 <sup>m</sup> 04.5	+20.5	-29.2	-0.5																		

259

Date

Friday Aug 22 1941 L

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filter	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
7012	H.D. 190844	19 130	32 57	I-12 $\frac{1}{2}$	Astral II	Set 010	23.6	20 06	21 06		
7013	" 190847	20 020	19 39	"	"	"	23.6	21 10	22 00		
7014	" 190850	20 455	42 35	"	"	"	23.6	22 38	23 02		
7015	" 211474	22 122	42 33	"	"	"	23.6	20 00	21 00		
7016	" 5551	08 321	53 11	"	"	"	23.5	01 00	02 00		
7017	" 12642	01 357	34 35	"	"	"	23.5	01 22	02 22		
	Beam Test				Outside through lens						

Pointed out at 17.00

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
0 43 E	33 03	1	6.89	B <sub>5</sub>	3-3-3	N.S.A. 63 M 21 Oct.
0 31 W	15 46	1	7.57	F <sub>2</sub>	3-3-3	" 88 Y " " Light double
0 47 W	42 38	1	7.25	H <sub>3</sub>	3-3-3	" 40 M " "
1 05 W	23 78	1	7.34	B <sub>8</sub>	3-3-3	" 66 M " "
1 36 W	63 22	1	7.06	B <sub>2</sub>	3-3-3	" 8 M " "
0 23 W	-04 23	0	6.38	K <sub>0</sub>	3-3-3	B.S.C. Y
					1.40m 8-10	Jan 26.1 Full 203

261

Date Sat, Aug 23-24

Y-A

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	4
7018	HD 196833	20 34.8	43 58	I-12	Astron	010	20.9	10 20	11 00	4
7019	HD 201345	21 03.9	33 00	"	"	"	20.7	11 05	12 35	1
7020	HD 206131 X	20 53	43 02	"	"	"	20.5	00 42	02	2
<del>7021</del>	<del>HD 206131</del>	<del>20 53</del>	<del>43 02</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>20.4</del>	<del>00 42</del>	<del>02</del>	<del>2</del>
<del>7022</del>	<del>HD 206131</del>	<del>20 53</del>	<del>43 02</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>20.7</del>	<del>04 34</del>	<del>04 34</del>	<del>4</del>
	Focus test			Outside the light box					5 1/2	450
									Focus 21.05	
									Slit 00.3	

Vistors .50 ± Mess 13,

Field Time  
EAT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
13 <sup>m</sup> W	44 05	2-3	6.52	B8	3-3-3 M
14 <sup>m</sup> 20 <sup>m</sup> W	33 09	2-3	7.52	B0	3-3-3 M
14 <sup>m</sup> 10 <sup>m</sup> W	43 14	3-3	7.56	B5	3-3-3 M 12.4.42 n. a double star guide on the left
<del>14<sup>m</sup> 13<sup>m</sup> W</del>	<del>43 14</del>	<del>2</del>			<del>3-3-3</del>
<del>14<sup>m</sup> 40<sup>m</sup> E</del>	<del>14 09</del>	<del>3</del>	<del>6.0</del>	<del>A0</del>	<del>3-3-3</del> KSA 9.11 a close double, one star much fainter than the other. Guide on right star
	only one drappagan out				

NE      SE - SW      AT      ST  
 Aug 25 12<sup>h</sup>    -9.3    +0<sup>m</sup> 59.1    +09.1    -32.4    -0.6  
                       +26    +0.5

263

Date 1941 July Aug 25-26 C-A 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>7021</del>	<del>180553</del>	<del>19 119</del>	<del>27 17</del>	<del>"</del>	<del>Az. E</del>	<del>20</del>	<del>21.7</del>	<del>21 04</del>	<del>"</del>	<del>1</del>
7021	18 7277	19 49.1	81 20	1-171	Asim II	20	22.5	21 32	22 22	2
7022	189 124	20 50	47 53	"	"	"	22.5	22 29	23 17	2
7022F	207439	21 53	42 41	"	"	"	22.3	22 44	"	"
	Focus test		outside through lens					21 30	21 30	
								21 30	21 30	
7023	HD 5944	00 558	57 17	"	"	"	22.8	02 43	03 33	1
7024	HD 17086	02 39.5	60 09	"	"	"	23.2	03 41	04 35	2
7025	HD 19548	03 46	28 42	"	"	"				
	Focus test		outside through lens					04 30	04 30	

Ending Time M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	27 16		0	6.74	B <sub>7</sub> 3	KSA 63 <sup>W 12 19</sup> 3 19
	30W 31 23		2	6.45	A <sub>0</sub> 3-3-3	KSA 64
	45W 43 13		2	7.21	A <sub>0</sub> 3-2-3	40
	33 06			6.95	A <sub>1</sub> 3	66 clouded up at 12 19
						plate not used
						clouded up at 12 45 <sup>hr</sup> - clouded up about 2'
130	31 11	57 30	2-3	6.80	A <sub>2</sub> 3-3-3	KSA 5
M.T.	01 17 <sup>hr</sup> E	60 19	3-2-1-0	6.82	A <sub>5</sub> 3-3	" 9 seeing variable. clouds of spid. mag.
				6.58	B <sub>9</sub>	BSE initially at 10:00: completely clouded up at 11:30
	Focus 26.05					
	July 20 3.					
						Plates not kept.



265

Date Tuesday August 26-27 1941

C

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Alt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
7021	AD 214 558	22 339	44 40	1-12	AZ II	-010	19.1	00 16	01 24	3
7022	587	00 243	45 50	"	"	"	18.5	02 00	03 32	4
7023	21203	03 202	59 54	"	"	"	18.6	03 45	04 45	1
	From Tent							base		
								apex	4	

Pointer 13.3

Distance 51 F.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Mag	REMARKS
01	W 44 54	0	6.75	F <sub>g</sub>	3-3-3	H.K.S.A. 42
1	W 42 05	1	6.95	B <sub>g</sub>	3-3-3 M	43
20	35E 00 33	2-1	6.43	B <sub>g</sub>	3-3-3 M	9
	20.45	2.8	20.3			

Aug 27 12<sup>h</sup>     $\begin{matrix} \text{MC} & \text{SC} & \text{SW} \\ -9.0 & +0.517 & +20.7 \\ & & +22.2 +0.3 \end{matrix}$

267

Date Hudson, Aug 27-28 C-A Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D	
7024	HD 165623	19 01.8	42 57	4-114	Ans II	.010	18.0	19 42	21 25	2	10	
7025	192257	20 33.9	41 38	"	"	"	17.3	21 26	23 40	3	10	
7026	201878	21 14.4	42 46	"	"	"	17.1	22 50	24 30	4	10	
7027	230915	23 21.0	74 41	"	"	"	18.1	21 25	01 15	1	20	
7028	4686	00 41.6	79 25	"	"	"	18.4	22 27	23 17	2	10	
7029	19082	02 38.5	60 09	"	"	"	18.5	23 25	24 25	3	10	
7030	21427	07 22.7	59 02	"	"	"	18.9	24 32	25 09	4	10	
	7031	lost	-	Trade through hole								

From 21.30  
Till 24.15





Boat out at 12:00

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS										
2 53 E	31 23	1-2	665	A0	3-3-3	KS.A. 64 M 0.6 W										
0 41 E	48 04	2	823	A0	3-3-3	" 4.5 Y										
0 31 W	61 35	2	753	A0	3-3-3	" 18 M										
						South look following sky clouding over suddenly at 23 <sup>45</sup> Waited until 1:00 - no sign of clearing so clear up										
						Aug 29 <sup>12h</sup> <table style="display: inline-table; vertical-align: middle;"> <tr> <td>NE</td> <td>SE</td> <td>SW</td> <td>NT</td> <td>ST</td> </tr> <tr> <td>-7.4</td> <td>+47.4</td> <td>+34.4</td> <td>+12.4</td> <td>+0.2</td> </tr> </table>	NE	SE	SW	NT	ST	-7.4	+47.4	+34.4	+12.4	+0.2
NE	SE	SW	NT	ST												
-7.4	+47.4	+34.4	+12.4	+0.2												
						Sat Aug 30 - cloudy with rain no visitors										



P.272

Temp at 14.3

Cloudy all day. Heavy fog about 1 pm light

Ending Time  
L.S.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 45 W	+23 55	1	7.36	A0	3-3-3 63 Hd
1 27 W	+61 05	1-2	7.35	F5	3-3-3 17 H
2 50 W	+60 25	1-2	7.70	A1	3-3-3 15 H } <i>Star is very faint. Part to edge</i>
3 00 W	+63 09	1	7.40	A5	3-3-3 18 H } <i>Star is very faint. Part to edge</i>
1 10 W	75 37	1	7.10	B9	3-3-3 2 H } <i>OK from chart</i>
3 33 W	74 44	1	7.45	B9	3-3-3 43 M

*Star was faintest at 12.21 +41.5 (E.S.)*  
*2 stars noted (more to be)*

	x	MC	SC	3W	MT	ST
Sep. 2	12	-07.2	+37	+31	-11.0	-0.3



213

Date Tuesday Sept 2-3 Y-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		
7040	HD 171879	17 00.3	15 35	2 1/2"	B17	1/4"	20.5	8 32	9 53		
7041	" 191865	20 06.9	30 29	"	"	"	20.8	9 57	10 57		
7042	" 209898	21 04.1	42 46	E109-0	}	}	20.8	11 13	00 33		
7043	" 222514	23 30.2	57 17	"			"	20.8	00 39	01 31	3
7044	" 5551	20 52.2	53 11	"			"	21.0	01 56	03 46	4
7045	" 18876	02 57.1	62 38	"			Astra II	"	21.0	03 57	05 07
	test						slide	21:16	24 20	2	

Cloud off main with adjacent cotton

Ending Time  
E.T.

Hour Angle End	Declination	Seeing	Pkg. Mag.		Comp
1 <sup>h</sup> 4 <sup>m</sup> W	15 39	0-1	6.2	6.5	3-3-3
1 <sup>h</sup> 17 <sup>m</sup> W	30 36	1	4.7	6.9	3-3-3
1 <sup>h</sup> 27 <sup>m</sup> W	42 58	2	7.6	6.9	3-3-3
00 43 <sup>m</sup> W	57 31	2	7.2	A <sub>0</sub>	3-3-3
01 22 <sup>m</sup> W	63 23	2 → 1	7.5	B <sub>2</sub>	3-3-3
01 52 <sup>m</sup> W	62 46	2	7.37	B <sub>8</sub>	3-3-3

REMARKS
H <sub>2</sub> 3 <sup>u</sup> with cirrus clouds
M
M Spent 10 <sup>m</sup> making sure of right stars of note in program
H <sub>2</sub>
M " 8
M " 9 Light cirrus clouds across field.

	h	MC	SC	SW	MT	ST
Sep. 3	12	-07.0	+33.9	+33.6	-09.0	-0.2
	4	-06.6	+31.4	+35.4	-10.6	-0.2
	5	-05.6	+29.4	+37.3	-15.4	-0.3



Cloudy & Moist all day. Clears with west wind  
about 9 P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
42 <sup>m</sup> W	31 23	1-0	665	A0	3-3-3	
1 08 W	42 11	1	704	B9	3-3-3	
1 30 W	29 15	1	752	F5	3-3-3	
1 09 W	48 14	1-0	742	A0	3-3-3	KSA. 20 M
0 13 W	14 48	1-0	732	A0	3-3-3	" 71 M
						Plates mostly fogged

277

Date *Saturday, Sept. 6-7, 1941* H-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Hkt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
7051	HD 178512	19 038	+12 57	I-12	Aster. II	Set 010	22.7	22 07	23 37	3
7052	199355	20 51.6	+42 08	"	"	"	22.6	23 43	00 53	4
7053	487	00 043	45 30	"	"	"	22.5	00 58	02 28	1
7054	17088	02 395	57 19	"	"	"	22.5	02 34	04 34	2

*Sunday, Sept. 8-9 - H - cloudy with light showers.*



279

Date Tuesday Sept 9-10 Y-C 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
7046	HD 22142 Focus test	23 24.4	85 32	1-12 $\frac{1}{2}$	Astra II	0.010	22.2	00 23 base 5 sec apert 4.2 sec	01 33	
<p>Wed Sept 10 Mostly cloudy with occasional clear patches, left at 11<sup>00</sup> clock. photo -</p>										

2020

Mirror Fogged during 1st half.

Temp. pointer set 15.8

Ending Time  
L.L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS																		
<del>11</del>	86 06	0	6.89 Fo	3 S-3	KSA. 1 10th of June clouds away H <sub>2</sub> O 7.11 3.02 no sig. clearing																		
					<u>Average</u>																		
					<table border="0"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>SW</td> <td>WT</td> <td>ST</td> </tr> <tr> <td>Sep. 10</td> <td>-03.8</td> <td>+18.3</td> <td>+47.9</td> <td>-33.6</td> <td>-0.3</td> </tr> <tr> <td>11</td> <td>-03.5</td> <td>+12.7</td> <td>+37.7</td> <td>-39.2</td> <td>-0.7</td> </tr> </table>		NE	SE	SW	WT	ST	Sep. 10	-03.8	+18.3	+47.9	-33.6	-0.3	11	-03.5	+12.7	+37.7	-39.2	-0.7
	NE	SE	SW	WT	ST																		
Sep. 10	-03.8	+18.3	+47.9	-33.6	-0.3																		
11	-03.5	+12.7	+37.7	-39.2	-0.7																		



281

Date: *Thurs. Sept 11-12/41* L-C 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
7046	H.D. 187279	19 44.1	31 15	I-12 <sub>2</sub>	Astra II	<sup>set</sup> .010	15.8	19 35	20 51	+ 0 10 W
7047	" 198195	20 43.6	42 03	"	E-103-0	"	15.8	20 56	22 26	+ 0 45 W
7048	" 211139	22 10.0	29 04	"	"	"	15.8	22 30	00 24	+ 1 17 W
7049	" 3264	00 30.7	48 30	"	"	"	15.7	00 31	02 31	+ 1 02 W
7050	" 5526	00 50.0	45 18	"	"	"	15.8	02 36	03 56	+ 2 07 W
7051	" 21541	03 23.4	14 39	"	"	"	15.8	04 01	05 21	+ 1 21 W
	<i>Faint Test</i>		<i>side</i>	<i>26.10</i>	<i>till</i>	<i>20.3</i>	<i>outside though the base</i>			

Pointer set at 10.95

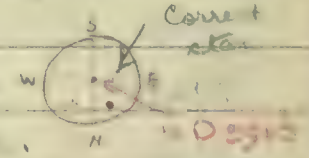
Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS															
0 <sup>10</sup> W	31 23	0	6.65	A <sub>0</sub>	3-3-3	KSA. 64 M <i>Seeing bad.</i>															
0 <sup>45</sup> W	42 12	0	7.04	B <sub>9</sub>	3-3-3	" 40 Hd															
1 17 W	29 18	0	7.52	F <sub>5</sub>	3-3-3	" 66 H															
1 02 W	48 14	1	7.42	A <sub>0</sub>	3-3-3	" 20 M															
2 07 W	55 31	2	7.24	K <sub>0</sub>	3-3-3	" 20 H															
1 01 W	14 47	1	7.32	A <sub>0</sub>	3-3-3	" 71 M															
		<i>apex 4.5</i>		<i>base 5</i>																	
						<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>-02.9</td> <td>+10.0</td> <td>+42.8</td> <td>+17.0</td> <td>-0.3</td> </tr> <tr> <td></td> <td></td> <td></td> <td><i>Rot</i></td> <td></td> </tr> </table>	MC	SC	SW	MT	ST	-02.9	+10.0	+42.8	+17.0	-0.3				<i>Rot</i>	
MC	SC	SW	MT	ST																	
-02.9	+10.0	+42.8	+17.0	-0.3																	
			<i>Rot</i>																		



Refractive set 11.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 27	W	+27 15	1-2	7.03	B9	3-3-3 KSA 63
<p>Found on unloading that this plate had been left loaded glass to base(?)</p>						
1 24	W	+13 00	2	6.92	B8	3-3-3 87 M
2 34	W	+60 24	2	(6.70)	A2	3-3-3 17 H
<p>This star is very much fainter than 6.7 light stage.</p>						
2 37	W	+57 48	2	7.56	F8	3-3-3 18 H
<p>Stage</p>						
0 37	W	+45 17	2-3	<del>7.25</del> 7.42	<del>A7</del> F	3-3-3 20
<p>RA 0540</p>						
0 07	W	46 08	2-3	7.11	A5	3-3-3 22 Y
<p>Wavelength taken.</p>						
0 2	W	32 38	2	6.62	F0	3-3-3 47 Y
<p>low light levels very dark at 400</p>						
						<p>HT<sub>2</sub>W SWW +01.0 -0.0 Riser</p>
						<p>Sep 13</p>





Light haze. H showed  $\beta$  Cyg + Rho Neb in 74" merid.  
 N showed SW. low - merid

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about 111 visitors

Hour Angle  
E.S.T.

23 27

2

3

4

5

6

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 38 W	+59 11	1-2	7.30	A <sub>0</sub>	3-3-3 KSA 15 H Light haze. Heavy condensation on dome.
0 24 W	+77 28	2	7.08	A <sub>0</sub>	3-3-3 2 H
0 54 W	46 32	2	6.98	B <sub>0</sub>	3-3-3 43 M haze
1 02 W	+43 22	2	7.27	F <sub>2</sub>	3-3-3 21 X Light clouds 2 <sup>10</sup> - 3 <sup>50</sup>
1 07 W	+37 29	2	7.35	B <sub>2</sub>	3-3-3 9 M
0 07 W	+32 20	2	6.17	B <sub>0</sub>	3-3-3 48 M

	h	m	sec	SW	HT	ST
15	12	-013	+09.3	+51.3	-02.3	-00
6	12	-0110	-01.9	+43.5	-04.6	-01









Pointer set at 15.75

Zoning Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 35 W	27 21	0	6.24 B <sub>9</sub>	3-3-3	KSA. 63 M <i>Seeing best</i>
1 38 W	15 40	0	7.32 B <sub>9</sub>	3-3-3	" 88 M <i>Seeing improving</i>
2 14 W	42 40	0	7.50 B <sub>9</sub>	3-3-3	" 41 M
4 30 W	45 18	0	7.25 A <sub>3</sub>	3-3-3	" 20 H <i>extinction</i>
0 10 W	60 02	1	6.43 B <sub>8</sub>	3-3-3	9 M
0 38 W	27 17	0	6.61 A <sub>0</sub>	3-3-3	48 M



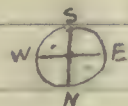
Points set at 15.1

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.			REMARKS
0 37 W	30 56	0	6.48	A <sub>0</sub>	3-3-3	KSA	87 H	Starting right after sunset,
0 35 W	17 37	0-1	7.22	K <sub>5</sub>	3-3-3	"	88 H	over the entire sky the
1 39 W	59 38	0-1	7.52	A <sub>0</sub>	3-3-3	"	18 Y	aurora flung its streamers of
0 08 W	42 10	1	6.77	B <sub>9</sub>	3-3-3	"	43 M	green gold and rose suddenly
0 15 W	43 10	1	6.43	A <sub>0</sub>	3-3-3	"	20 Y	lighting the country like magic
1 57 W	63 24	1	7.5	B <sub>2</sub>	3-3-3	"	8 M	
0 07 W	59 09	1	6.06	A <sub>0</sub>	3-3-3	"	9 M	
0 50 W	42 23	1	6.25	B <sub>8</sub>	3-3-3	"	23 M	
0 38 W	32 20	0	6.17	B <sub>9</sub>	3-3-3	"	48 M	



H.D catalog moved to dome

Hour Angle  
End

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
44 <sup>m</sup> W	27 53	0	664	B8	3-3-3	M [Sid. watch 11.3 minutes slow] set 0.5 slow
19 W	42 17	0	687	B9	3-3-3	M
1 08 W	29 49	0-1	754	B8	3-3-3	M  other star is 7.9 HD 211406
1 27 W	46 33	0-1	723	B9	3-3-3	M
1 44 W	58 03	0-1	723	A3	3-3-3	Hd
0 21 W	28 35	1	696	A0	3-3-3	Hd
0 24 W	12 35	1-0	749	K0	3-3-3	H

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Date *Saturday, September 20-21, 1941* H-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	D
7090	HD 201429	21 04.4	+59 29	I-12	E103-0	<i>set</i> 010	20.5	22 12	23 42	1	
7091	221537	23 27.9	+77 15	"	"	"	20.6	23 47	01 07	2	
7092	15510 02	24.7	+45 57	"	"	"	20.3	01 16	02 46	3	
7093	20500 03	28.1	12 28	"	"	"	20.2	02 56	04 42	4	
7094	3648405	26.9	32 44	"	"	"	20.1	04 50	05 20	1	
	<i>Focus Test</i>			<i>outside range of focus</i>							

80 ± visitors. N shows 21 and S 21, 21, 21 + 3 eggs with 4"  
 H shows M57 with 74 ind.

Temp out 14.1

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Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS							
2 17V	+59 39	1-2	7.52 A0	3-3-3	KSA 18	Y	Bright sun in N				
1 19W	77 30	1	7.08 A0	2-3-3	2	H					
0 00	46 08	1	7.11 A5	2-3-2	22	Y					
1 08W	12 36	2	7.59 B8	2-3-2	71	M					
0 28E	32 45	2-3	6.50 A0	2-3-2	49	M					
				base 4 arc							
				apex 3 arc							
				Sep. 22	12	MC +02.3	SC -18.3	SW +05.6	MT +03.0	ST +0.1	
								Stopped - reset.			





Temp set 18.4

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 28 W	+45 50	2-3	6.80	B9	2-3-2	KSA 38 Hd
0 48 W	+59 13	3	7.52	A2	2-3-2	17 H
1 33 W	+72 42	3-4	7.39	F0	2-3-2	7 H
1 48 W	+78 26	3	7.42	A2	2-3-2	7 H
0 25 W	+77 34	3	7.04	A0	2-3-2	2 H
0 45 W	75 57	3	7.10	B9	2-2-2	2 H
0 05 W	17 20	3-2	7.32	A2	2-2-2	70 M
0 01 E	16 33	3-2	7.02	A0p	2-2-2	71 M
0 42 W	28 30	3-2	6.87	B9	2-2-2	47 M
0 17 E	28 52	2	7.17	F0	2-4	49 Hd

slight haze in south

Wage + clouds Hargreaves

Sep. 23	12	HC +06.0	SC -19.2	SW +05.3	HT +03.2	ST -0.1
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Date *Tues Sept 23-24*

Y-6

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	H	Hour Angle End
7105	HD 182010	19 176	17 34	I-12	E103.0	010	21.3	18 55	19 55	1	28° W
7106	HD 190338	19 594	16 51	"	"	"	21.4	20 00	21 06	2	17 W
7107	HD 200407	20 582	43 47	"	"	"	21.3	21 13	22 13	3	06 W
7108	HD 209439	21 583	32 54	"	"	"	21.1	22 20	23 20	4	24 W
7109	HD 222416	23 353	44 31	"	"	"	21.1	23 25	01 05	1	23 W
7110	HD 16855	22 271	43 07	"	"	"	21.5	01 12	02 17	2	18 W
7111	HD 17922	22 427	43 11	"	"	"	21.2	02 22	03 30	3	30 W
	<i>Focus Test</i>							<i>Thyatron 4 sec</i>	<i>apert 3 sec</i>		

15.1

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS												
1955 1	28 <sup>m</sup> W	17 39	1-0	684 A0	2-2-2	M												
2 10	57 W	16 57	1-0	689 A2	2-2-2	n. prec. is right*. other is 190406.												
3	1 06 W	43 56	1-0	678 A2	2-2-2	Y												
4	1 12 W	33 06	1-0	695 A3	2-2-2	Ha Done refused to turn												
1	1 20 W	44 45	1-2	745 B9	2-2-2	M												
2	1 40 E	43 16	1	675 A2	2 2 2	M SA 52												
3	33 W	72 20	1-2	7.43 F5	2 2 2	H 22 <i>longer by 1 3 10</i> <i>W. that 3 30</i>												
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>SW</td> <td>MT</td> <td>ST</td> </tr> <tr> <td>Sep. 24</td> <td>12</td> <td>+06</td> <td>-23.4</td> <td>+06.5</td> <td>+04.5 -0.1</td> </tr> </table>		MC	SC	SW	MT	ST	Sep. 24	12	+06	-23.4	+06.5	+04.5 -0.1
	MC	SC	SW	MT	ST													
Sep. 24	12	+06	-23.4	+06.5	+04.5 -0.1													

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Date *Wednesday Sept. 24-25/41 L-C* 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 Time
7112	HD 181562	19 13.9	63 02	I-123	E-1030	20.0	20.0	19 05	21 05	4
7113	" 123339	19 21.0	57 49	"	"	"	20.0	21 10	22 20	1
7114	" 215231	22 51.3	43 02	"	"	"	19.9	22 25	24 25	2
7115	" 21021	00 11.2	12 17	"	"	"	19.9	03 00	24 40	3
7116	" 26112	03 24.7	11 17	"	"	"	19.9	35 00	27 30	5
<i>Saturday Sept 27-28, 1941 H-N-C</i>										
<i>about 40 minutes Very hazy.</i>										
<i>Partly clearing but hazy after 11.</i>										
<i>Clouds up 11<sup>50</sup>.</i>										

Comet at 4.15

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
45 W	57 25	0	733	F5	2-2-2	KSA 17 H. <i>Very faint</i>
45 N	57 53	0	641	B3	2-2-2	17 H
45 W	45 14	0	736	B5	2-2-2	42 H. <i>range 1500 at 5 clock</i> <i>and no lower range</i>
1	12 45	0	710	F5	2-2-2	71 H
24 W	15 18	0	689	A	2-2-2	73 H



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Time Ending Time  
E.S.T.



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