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1
Following, showing
how the displacement to right means, how it should be made shall

Proceeding on Right Hand search of lower turning may make time for the End

Last Photo		1945		1946		747	
Jan	10895	39	11805	44	13174	41	873
Feb	10923	28	11843	38	13209	35	908
Mar	11010	87	11926	83			
Apr	11063	53	11987	61			
May	11081	18	12086	99			
June	11161	80	12301	215	1140		
July	11229	63	12532	231	231		
Aug	11381	152	12614	82	313		
Sept	11543	112	12883	269	582		
Oct	11626	83	13042	159	741		
Nov	11694	68	13102	60	801		
Dec.	11761	67	13133	31	832		

7

Date MON SEPT 2-3 1946

Ta


Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour End
12629	HD 3264	00 307	+48 00	I-25'	E103a0	008	14.4	20 48	21 28	1
12630	5638	00 530	+46 31	"	"	"	14.4	21 36	21 52	3
12631	183143	19 230	+18 05	"	103-0	"	14.4	21 59	22 35	2
12632	164898	17 596	+45 21	"	E103a0	"	14.3	22 38	23 10	3
12633	199763	20 541	+30 00	"	103-0	"	14.3	23 14	23 54	2
12634	213389	22 259	+48 51	"	103a0	"	14.3	23 59	00 23	1
12635	208682	21 529	+64 52	"	103-0	"	14.3	^{00 28} 00 37	^{00 36} 00 57	2
12636	211460	22 12.1	+28 41	"	103-0	"	14.3	00 52	01 28	3
12637	218356	23 02.2	+24 56	"	103-0	"	14.3	01 32	02 04	2
12638	225292	23 599	+27 07	"	103-0	"	14.3	01 51	02 37	3
12639	2905	00 273	+62 23	"	103-0	"	14.3	02 ⁴³ 46 ⁴⁵ 52	02 ⁴⁵ 49 ⁴⁴ 54	2
12640	4180	00 392	+47 44	"	103-0	"	14.3	03 ⁰³ 06 ⁰⁵ 12	03 ⁰⁵ 09 ¹⁴	3
12641	YP 433	1 226	+88 46	"	103-0	"	14.3	03 39	03 58	2
12642	HD 5638	00 530	+46 31	"	103-0	"	14.3	04 14	04 42	2
12643	(3264 2000s Test				103a0	"	14.3	04 45	05 05	1

Holders 123 1030 — #3 may not be spotted
4 10300

8

Set from 23.56
watch corr: +0.1 by telescope

ng Time .S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
28 1	4 32 E	+48 20	2	7.14	B ₂	3-3-3	No apparent haze, twice tabulated for low altitude, probably under
52 3	4 35 E	+46 48	2*	6.47	B ₂	3-3-3	1/2 x tab. Allowed finding panel to bump piece, but no apparent damage.
35 2	1 39 W	+18 13	3	6.9	By sex	3-3-3	MWC 317. Seething star.  3 x tab. for west
10 3	3 39 W	+45 26	3	7.44	A ₀	3-3-3	star runs off slit
54 2	1 27 W	+30 15	3	7.19	K ₀	4-4-4	New Proj. Looks double on slit
23 1	0 24 W	+49 09	3	7.55	K ₁	3-3-3	
36 2	1 11 W	+65 08	3	5.8	B ₃ me	5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 }	MWC 381
25 3	1 44 W	+28 55	3	6.84	G ₅	4-4-4	N.P. Faint for 7.0?
2	1 13 W	+25 13	3	6.16	K ₀	4-4-4	N.P.
37 2	1 04 W	+27 27	3	7.35	G ₅	4-4-4	N.P. NOT NUMBERED
5 2	0 54 W	+62 41	3	4.2	B ₃ sex	5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 }	MWC 7
09 2	0 57 W	+48 01	3	4.7	B ₃ sex	5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 } 5-5-5 }	" 8
50 2	0 27 W?	+89 03	3	3.0	F ₇	16 10	60'-80'-100' flapper in 1/2; out of focus (can't see it)
42 2	2 16 W	+46 48	3	6.47	B ₂	4-4-4	had small RA circle; put in 2 N1 stars in window
505 2	3 02 W	+48 18	3	7.14	B ₂	3-3-3 } 10-7 }	Close to coming in west. Down in 04 32, close to coming in, nearly one at 04 35, and 04 38. But no clear but nearly missed on. Seems a bit off on the way by 0500, but the go 2 days 5.5.

Date ~~Tuesday~~ Friday July 24, 1946 51 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 Exp.
12644	HD 3264	00 30.2	+48 00	I-25	E 103-0 # 327407	Sat .008	+15.8	19 27	20.11	4
12645	HD 164897	17 58.3	+45 21	"	"	.008	+15.8	20.26	21.55	1
12646	HD 164284	17 55.3	+04 22	"	E 103-0 # 320879	"	+15.8	21.01	21.41	2.3
	"	"	"	"	"	"	"	21.06	21.49	2.8
12647	HD 177648	19 00.5	+23 11	"	E 103-0 # 327469	"	+15.8	21.12	21.32	4
12648	HD 180316	19 11.0	+27 46	"	"	"	+15.8	21.35	21.47	1
12649	7P 5443, Boo 4595	18 04.9	+03 06	"	"	"	+15.8	21.51	22.05	2.3
	"	"	"	"	"	"	"	22.03	22.09	2.8
12650	HD 167135	18 05.8	+11 51	"	"	"	+15.8	22.14	22.27	4
12651	HD 168131	18 13.2	+11 51	"	"	"	+15.8	22.34	22.56	1
12652	HD 173367	20 14.7	+14 04	"	"	"	+15.8	22.59	23.13	2
12653	HD 20230	21 09.9	+30 33	"	"	"	+15.8	23.16	23.4	4
12654	HD 205706	21 29.0	+49 30	"	"	"	+15.8	23.51	23.5	1
12655	HD 208209	22 01.0	+28 28	"	E 103-0 # 327407	"	+15.8	00.20	00.124	3
12656	HD 20875	22 08.6	+25 26	"	E 103-0 # 327407	"	+15.8	00.17	00.33	2
12657	HD 211400	22 11.1	+20 41	"	"	"	+15.8	00.3	00.7	0.5

Tuesday September 3 : 1200: Mc SC MTW STW
 -21.3^s +21.4^s +03.7^s +0.5^m.

Photos 12644-12646 developed by Ta.

Are needs adjustment

Hour Angle End	Declination	Seeing	Ptg. Mag.		COM	REMARKS
05 51 E	+ 48 18	2	7.14	B2	5-4	* lost for total of 15 minutes. much too weak
01 28 W	+ 45 24	3	7.44	A0	3-3-3	Rare RACULE - binary. Chd moving cont table slow - very good
01 42 W	+ 04 24	3	4.8	B5 ^{me}	4-4-4	MWC 278 } weak
01 45 W	"	3	"	"	4-4	"
01 03 W	+ 23 18	3	6.9	B3 ^a	3-3-3	MWC 310 too weak
01 07 W	+ 27 56	3	6.51	B5	3-3-3	Binary Some water dripping from mirror cell.
02 28 W	+ 03 09	3	6.1	F5	4-4	Flyer in $\frac{1}{2}$
02 34 W	"	3	"	"	4-4	Flyer in $\frac{1}{2}$ (weak)
02 50 W	+ 11 54	3	6.76	A0	6-3	Velocity * . Are low out 221. Rephotod 22 24 much too weak
03 14 W	+ 11 54	2-3	6.97	B8	3-3-3	Velocity x. Telap, is very unstable - visible in frame x - ill
01 3 W	+ 14 16	2-3	6.81	A0	3-3-3	Binary Faint. (D) weak
01 08 W	+ 30 48	3	7.56	A0	3-3-3	Binary faint
01 59 W	+ 49 47	3	5.76	A0n	4-4	Binary faint
01 44 W	+ 28 44	3	5.56	B1	4-4	Binary. IRA seems good. Ho3? 1" needs 6 sec
01 50 W	+ 25 43	3	6.98	G5	3-3-3	Velocity * faint
01 40 W	+ 28 58	3	6.84	G5	4-4	Velocity * faint

Date Tuesday Sept 3-4 1946 Continued 56 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour End
12658	HD 21025	22 23.5	+26 31	L-25	E 1030-0 H 227469	.008	+15.8	00.52	01.12	1
12659	HD 218356	23 02.2	+24 56	"	"	"	+15.8	01.14	01.22	1
12660	HD 221364	23 20.5	+28 07	"	"	"	+15.8	01.25	01.45	2
12661	YP 137, 52 P ₂₂	02 27.3	+19 45	"	"	"	+15.8	01.48	01.58	3
12662	HD 2019	02 39.4	+30 49	"	"	"	+15.8	02.07	02.19	4
12663	YP 156, B ₁ 125	00 32.0	+34 51	"	"	"	+15.8	02.22	02.31	1.3
"	"	"	"	"	"	"	"	02.32	02.39	1.8
12664	YP 274, n And	00 51.9	+22 53	"	E 103-0 H 227469	"	+15.8	02.41	02.51	2.5
"	"	"	"	"	"	"	"	02.51	02.57	2.5
12665	HD 3254	01 30.7	+48 00	"	E 1030-0 H 227469	"	+15.8	03.02	03.20	3
12666	HD 5638	00 53.0	+46 31	"	"	"	+15.8	03.23	03.35	4
12667	HD 5110	01 42.2	+28 58	"	"	"	+15.8	03.35	03.50	2
12668	YP 362, 8 P ₂₂	01 06.1	+21 30	"	"	"	+15.8	04.00	04.08	12
"	"	"	"	"	"	"	"	04.05	04.11	2
12669	YP 420, P ₂₂	01 28.8	+18 30	"	E 1030-0 H 227469	"	+15.7	04.16	04.26	3-2
"	"	"	"	"	"	"	"	04.26	04.32	3

Hour Angle End	Declination	Seeing	Ptg. Mag.		COMP	REMARKS
01 25W	+ 26 47.	3 ⁺	7.27	k0	3-3-3.	Veluto x (N.P) (weak) - strong
00 51W	+25 14	3.	6.16	k0	4-4	" " strong
00 50W	-28 25	3 ⁺	7.26	k0	3-3-3	" " strong
00 08W.	+20 01	3	6.6	k0	4-4	Flower in $\frac{2}{3}$ with strong
00 31W	+31 07	3 ⁺	6.78	B9	4-4	Binary strong to strong
00 32W	+35 09	3 ⁺	6.3	G0	4-4	Flower in $\frac{1}{2}$ weak
00 25W	"	"	"	"	4-4	" weak very faint
00 31W	+ 23 09	3 ^o	5.4	G5.	4-4	Flower in $\frac{1}{2}$ strong
00 37W	"	"	"	"	4-4	" 2 pl. to be white binary
01 21W	+ 45 18	"	7.14	B2	3-3-4	Binary strong
0 11W	+ 46. 48	3 ⁺	6.47	B2.	4-4	Binary Terrible struggle with last batch of plates. one more casualty. Resort to E 103-0
01 40W	+29 14	3 ^o	7.23	G5	3 3-3	Veluto x (N.P)
0 37W	+ 20 46.	3 ⁻	6.0	G9	4-4	Flower in $\frac{1}{2}$ weak
01 31W	"	"	"	"	4-4.	" !
01 37W	+ 18 56	3 ⁻	5.6	F1	4 4	" guiding - very faint
01 43W	"	"	"	"	4-4	" faint

Arc needs attention.

Stronks recommend that some one test 4 remaining 0-0 plates to see if they are load II. Only 1 of preceding batch of 4 could be used.

Hour Angle - End	Declination	Seeing	Ptg. Mag.		Co MP.	REMARKS
01 00 W	+25 44	3"	5.4	F0	4-4	Flare in $\frac{1}{2}$
01 10 W	"	"	"	"	8	"
01 15 W	"	"	"	"	8	"
01 27 W	+20 59	3"	5.8	F4	4-4	"
01 33 W	"	"	"	"	4-	"
Outside. Through Base					10-10	"

1 holder loaded E 103-0

Wed Sept 4 MC SC SW MTW STW 8 E 103-0 in opened box in relay

-22.5^s +21^s -20^s +19^s +0.4^m 4 E 103-0-0 in second opened box in relay (at 103-0)

1 holder loaded E 103-0-0 in specially marked box in relay

12-1 pt on Mars
(18-46)
(N.S.) 3 plates developed by To early in evening

Plate box full of 21 plates

4 21 plates in box in relay in S. L. box

or 1st box in relay with 1st 21 plates

Holders 1-4 103-0

16

2-3 103A0

2 cut a-ou refing

11 103-0 + 1 dummy (rejected 103a) Set focus. 23.51

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
0 28W	-10 14	1-2	8.1 B _{3c}	3-3-3	MWC 307 Telescope somewhat out focus as to make it impossible to see star on slit with slit darkened (Ken restr. tunnel) ↳ Guide + focussed in part by visiting, installing, Messrs Lyot & Co. Little use
			3.3V _{is}		
2 28W	+27 55	2 ⁺	6.51 B ₅	3-3-3	Seeing variable. Bin telescope jammed on stand enough to change both Dec + RA good
0 54W	+28 24	2-3	7.54 K ₂	3-3-3	Cross wires of view telescope badly bent, making finding on slit difficult. N.P. good
0 34W	+25 44	2-3	6.98 G ₅	3-3-3	N.P. good
1 03W	+28 57	2-3	6.84 G ₅	3-3-3	N.P. good
1 34W	+26 47	3	7.27 K ₀	3-3-3	N.P. good
1 13W	+25 14	3	6.16 K ₀	3-3-3	N.P. good
1 13W	+28 24	3 ⁻	7.26 K ₀	3-3-3	N.P. good
0 35W	+48 19	2 ⁺	7.14 B ₂	3-3-3	Bin. PLATE BROKE IN 3 WHEN UNLOADING Clouding up to N good
0 46W	+05 02	2 ⁺	6.8 K ₄	3-3-3	Drapping ~ 2/3. Multiple layers good
0 52W				3-3-3	
1 10W	+14 42	2 ⁺	5.9 F ₂	3-3-3	" " 1/2 good
0 23W	+55 16	3	7.1 F ₈	3-3-3	" " 1/2 good
1 10W	+70 46	2 ⁺	8.0 B _{4ne}	3-3-3	MWC 49. I unhelped with faint light. To far for focus in finder good
				10-7	small haze. Done drapping with dew outside. Clouding up to N good
					HEAT ON MIRROR - one element not working, some today's big heat

Thurs & Fri, 5-6, 1946. Light clouds 1900. Heavy cloud bank moving in from N. 2000. Strong east wind!! 18
 Heavy work in clouds 2100. Hazy. Some stars quite visible. Had hopes 2200. Continuing with
 more clouds 2300-2400. Hopeless by 0100. FORECAST: clear Thurs. & Fri. Cloudy for a few
 hrs. before sky-break. W. W.
 Fri Sept 6-7 - Partly cloudy, haze, to 00.30. Did not open up at all so cross wires in upper field still not centered. To

ing Time
S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
Sept 7-8	40	Vintons	showed	(with 74" Ad. sh. Broken clouds moving in at 2200. Overcast at 2300. Solid 0000+ 0100. Hopeless. Forecast cloudy with rain. W.

Sept 9	MC	SC	SW	STW	MTW
	-26.3 ^s	+19.8 ^s	-25 ^s	+0.9 ^m	+29.1 ^s

Date September 13-11, 1946 51 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour End
12685	HD 190577	20 27.2	+43 59	L-25	F 1030-10 #3749	5H .008	+20.5	20.39	20.54	2
12686	HD 191578	20 55.2	+28 17	"	"	.008	+20.5	21.06	21.28	3
12687	HD 207573	21 11.6	+25 01	"	"	"	+20.4	21.31	21.54	2
12688	HD 207571	21 36.2	+25 15	"	"	"	+20.4	22.05	22.43	3.5
	out of focus									3
<u>Sept 11</u>		MC	SC	SW	MTW	STW				
		-28 ^s	+19 ^s	-27 ^s	+34.9 ^s	+1.05 ^m				

Clear 18.00 Clear 19.10 Strong W. wind. Some drizzle by 20.40 - open up.
 The Central Crosshair on Vega. Wind very strong. Found that the W was impractical - very dense by visibility that one
 could not keep it in the slit.
 From 5 to 22.40 + 00.02

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
00 29E	+44 11	3	7.2	150 3-3-3	MWC 347 large dark, although dome SE (good)
00 36E	+25 15	3	7.23	90 3-3-3	Velvet * A.P. " 1 plate needed. (str)
00 09E	+25 16	3	7.54	95 3-3-3	" " " (str)
00 04E	+28 34	3	7.54	95 3-3-3	" Wind dying down 22.15. Cloud in rapidly * gone 22.31, gone 22.33 (good - 1 plate)
				10-10	(coltr)
					Clouds set to W. horizon. Close up tensions on 22.40
					B, 0 ^h str. solid environment thick at 22.40. Close up progressively. Very hot wind
					Holders 1, 4 loaded E 10.00 H 2057.
					2, 3 . E 10.00, H 32/463
					9 cut 0 plate, ...
					11 0 plate + 1 ...
					How ...

Date Wed Sept 11-12 1946

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12689	HD 174886	18 47.7	-10 21	I - 25	³²⁷⁴⁶⁷ E10320	.008	17.6	19 13	20 33	2
12690	180316	19 11.0	+27 46	"	"	"	17.6	20 37	20 59	3
12691	180398	19 11.3	+12 52	"	"	"	17.6	21 02	22 00	2
12692	183143	19 23.0	+18 05	"	"	"	17.5	22 03	22 31	3
12693	204540	21 24.2	+25 31	"	"	"	17.3	22 34	23 18	2
12694	206773	21 39.3	+57 17	"	"	"	17.3	23 23	23 49	3
12695	216723	22 50.1	+27 28	"	"	"	17.3	23 54	00 48	2
12696	222190	23 35.0	+26 59	"	"	"	17.2	00 51	01 31	3
12697	2905	00 27.3	+62 23		E 103.0		17.2	01 ³⁶ ₃₉ 44	01 ³⁸ ₄₃ 50	1
12698	Y 210	00 43.0	+57 17		"		17.2	01 ⁵⁶ ₀₂ 05	01 ⁵⁹ ₀₄ 10	4
12699	HD 4180	00 39.2	+47 44		"		17.2	02 ¹⁷ ₃₃ 30	02 ²³ ₃₀ 38	1
12700	IP 478	01 31.9	+48 07		"		17.2	02 ⁴⁷ 55	02 ⁵⁵ 03 07	4
12701	Y P 629	02 06.6	+29 50		E 103 0		17.2	03 ¹² 34	03 ³⁴ 04 02	1
12702	(HD 19243 Foustet	03 00.7	+62 00		E 103a-0		17.1	04 06	04 22	2
12703	Y P 919	03 01.8	+49 14				17.1	04 ³⁶ 41 48	04 ⁴⁰ 47 56	1

{ 10 103a 0 327534 in ref. ← 22
 G 103 0 " " " "
 Holders 2+ loaded 103a-0
 guaranteed right side up!
 Set focus 23.52

log Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
33 2	0 48W	-10 15'	0-1-2	8.1	B _{3e} 3-3-3	MWC 307. Could not see star in slit at 1910. Buy on focus switch needs adjustment
59 3	0 51W	+27 55'	0-1	6.51	B ₅ 3-3-3	Bin
50 2	1 52W	+13 04'	0-1	7.7	B _{2jme} 3-3-3	MWC 312 Buckplate trying to load it.
231 3	2 11W	+18 15'	1+	6.9	B _{9sex} 3-3-3	MWC 317
18 6	0 57W	+25 45'	1+	7.58	K ₂ 3-3-3	N.P.
49 3	1 14W	+57 33'	1+	7.0	B _{2re} 3-3-3	MWC 376
048 6	1 01W	+27 45'	1+	7.79	G ₅ 3-3-3	N.P.
131 3	1 00W	+27 15'	1	7.43	K ₀ 3-3-3	N.P. EXPOSED THROUGH GLASS in banks low in both s & m.
38 43 50 84 10 23 30 38 2 55 3 07 3 36 4 2	→ 0 26W	+62 42'	2?	4.2	B _{2sex} 5-5-5 } 2 } MWC 7	} Another plate equally working } slightly out of focus
	→ 0 30W	+57 36'	2?	4.2	F ₉ 5-5-5 } 2 } Shyppin in 1/2	
	→ 1 02W	+48 02'	2?	4.7	B _{2nop} 5-5-5 } 2 } MWC 8	
	0 38W	+48 24'	2	5.1	K ₂ 4-4-4 } 3 } Shyppin in 2/3	Sitting circle next
	0 59W	+30 05'	2+ 3	6.4	G ₄ 4-4-4 } 3 } Shyppin in 1/2	slowly in error
04 22 2	0 24W	+62 14'	2+	6.5	B _{2e} 3-3-3 } 5 } MWC 61	Also through glass/xx!
					10-7 } 9 }	
43 67 56 1	0 57W	+49.26'	2+	4.8	G ₁ 5-5-5 } 2 } Shyppin in 1/2	

Date Thurs. Sept. 12-13/46 W. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang Ecl	
12704	HD 164898	17 58.3	45 21	I-25	^{NEW LOT} E103 ₂₀	.008	14.4	19 18	20 40	2	
	{ HD 213389	22 25.9	48 51	"	"	"		20 59			
12705											HD 213389
12706	HD 180316	19 11.0	27 46	"	"	"	14.4	21 55	22 17	1	
12707	HD 3264	00 30.7	+48 00	"	"	"	14.3	22 37	23 07	2	
12708	HD 509833	22 01.0	28 28	"	E103 O	"	14.3	23 21	23 35	2	
12709	HD 210334	22 04.6	45 15	"	E103 ₂₀	"	14.3	23 42	00 16	1	
12710	HD 221133	23 24.8	25 16	"	"	"	14.3	00 25	02 11	2	
12711	HD 10588	01 38.2	31 43	"	"	"	14.2	02 17	03 49	3	
12712	HD 16855	02 37.1	43 07	"	"	"	14.2	03 55	04 37	4	
12713	HD 3264	00 30.7	+48 00	"	"	"	14.2	04 48	05 25	1	
		<i>Focus Test</i>							<i>C.T.B.</i>		

Steady east wind all day. Wind in east all night.
Seeing variable.

Focus 23.57

24

Mag Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
40 2	1.50W.	45 23	0	7.44 A ₀ 3 3 3	Couldn't see star on slit at 19.10
		49 08	3	7.55 K ₁ 3.	Get on wrong star, used 1900 RA. in error at "5"
43 3	1.35E.	49 07	3	7.55 K ₁ 3 3 3	
2.17 1	2.15W	27 56	2-1	6.51 B ₅ 3 3 3	light clouds SE 22.08.
07 2	2.16E	48 20	1-2-0	7.14 B ₂ 3 3 3	" " " 22.55
35 4	0 4 1/2 W.	28 45	2	5.56 B _{9n} 3 3 3	
6 1	1 19W	45 34	2	7.10 G ₀ 3 3 3	
1 2	1.54 W	25 33	1-0	8.86 K ₂ 3 3 3	
3 2	1 19W	31 59	0	7.20 G ₅ 3 3 3	
7 7	1 07W	43 26	0	6.72 A ₂ 3.3 3	
5 1	4 00 W	48 18	0	7.14 B ₂ 3.3 3	THIS PLATE WILL BE WEAK EXPOSURE DUE TO DECT. 10/7 RA buttons missing. This plate much too cloudy. Next is slow as slow as slow. water buttons
Fri Sept 13 MC SC SW MTW STW -28.7 ^s +19.5 ^s -26.4 ^s +44.8 ^s +1.2 ^m					

Date FRI SEPT 13-14 1946

Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour-Ang End
12714	HD 3264	00 30.7	+48 00	I-25	^{Sp16 Lot} F105a 0	1.008	15.4	19 05	19 35	1
12715	168498	18 14.9	+11 50	"	"	"	15.4	19 41	20 09	2
12716	164498	17 58.3	+45 21	"	"	"	15.4	20 13	20 45	3
12717	175823	18 52.3	+59 53	"	"	"	15.5	20 48	21 08	4
12718	177648	19 00.5	+23 11	"	"	"	15.5	21 12	21 32	1
12719	180316	19 11.0	+27 46	"	"	"	15.4	21 36	21 50	2
12720	192044	20 07.8	+26 11	"	"	"	15.4	21 54	22 02	3
12721	198183	20 43.5	+36 07	"	"	"	15.4	22 08	22 21	4
12722	203374	21 16.7	+61 25	"	"	"	15.4	22 25	22 37	1
12723	205682	21 52.9	+64 52	"	"	"	15.3	22 41	22 47	2
12724	206332	21 36.3	+28 18	"	"	"	15.4	22 57	23 21	3
12725	213025	22 23.5	+26 31	"	"	"	15.3	23 24	23 46	4
12726	217050	22 52.7	+48 09	"	"	"	15.2	23 51	23 59	1
12727	218393	23 02.6	+49 40	"	"	"	15.2	00 03	00 17	2
12728	219418	23 10.5	+25 08	"	"	"	15.4	00 20	00 48	3
12729	222380	23 35.0	+26 59	"	"	"	15.3	00 50	01 16	4

Set focus 23.56

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
35 1	5 46E	+48 20	1-2	7.44	B ₂ 3-3-3	BinT .75 +
09 2	1 05W	+11 53	2	7.34	A ₀ 3-3-3	8x8 zone RA slow motion still slow, about 1 st horizon 35
45 3	1 58W	+45 25	2	7.44	A ₀ 3-3-3	Bin wanted 20 ^h 40
08 4	1 28W	+60 00	2	6.9	B _{ve} 3-3-3	MWC 308 20 57.5 - 2 ^m meteorite ^{~8^m on Vega} full toward horizon
32 1	1 42W	+23 17	2	6.9	B _{sc} 3-3-3	MWC 310 Double, several seconds
50 2	1 50W	+27 55	2 ⁺	6.51	B _s 3-3-3	Bin
202 3	1 05W	+26 21	2 ⁺	5.9	B _{enc} 3-3-3	MWC 331
21 4	0 43W	+36 22	3 ⁻	4.5	B _{6e} $\frac{4-4}{4-4} \frac{2}{8}$	MWC 352 60 90 120 ^s
37 1	0 32W	+61 41	3 ⁻	6.6	B _{ve} 3-3-3	MWC 366
247 2	0 06W	+65 07	3 ⁻	5.8	B _{ve} 3-3-3	MWC 381 Seems faint for 5.8
3 21 3	0 57W	+28 33	2 ⁺	7.54	G _s 3-3-3	N.P. Turned head on clock drive ^{at 6^h}
3 40 4	0 31W	+26 48	2 ⁺	7.27	K ₀ 3-3-3	NP RA slow motion took hold properly
235 1	0 17W	+48 26	3 ⁻	5.2	B _{enc} $\frac{4-4}{4-4} \frac{3}{8}$	MWC 394 150 ^s , 220 ^s
017 2	0 26W	+49 55	2	6.8	A _{ve} 3-3-3	MWC 397
0 48 3	0 49W	+25 25	2 ⁺	7.44	K ₀ 3-3-3	N.P.
1 16 4	0 53W	+27 16	2 ⁺	7.43	K ₀ 3-3-3	N.P. all these plates fogged

cont'd

Date FRI SEPT 13-14 1946

T_v Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12730	HD 2905	00 27.3	+62 23	I-25	103a0	.008	15.3	01 24 ~	01 30	1
12731	4180	00 39.2	+47 44	"	"	"	15.3	01 38	01 46	2
12732	5638	00 53.0	+46 31	"	"	"	15.2	01 57	02 01	3
12733	YP 305	00 57.8	+07 21	"	"	"	15.2	02 09	02 25	4
	395	01 13.8	+57 42							
12734	HD 12402	01 56.5	+27 56	"	"	"	15.2	02 45	03 05	1
12735	YP 705	02 16.6	+40 57	"	"	"	15.2	03 17 ⁰⁸	03 29 ¹⁶	2
12736	HD 15472	02 24.4	+70 30	"	"	"	15.2	03 39	04 21	3
12737	19243	03 00.7	+62 00	"	"	"	15.2	04 25	04 35	4
12738	YP 995	03 17.2	+49 30	"	"	"	15.3	04 41 ~	04 46	1
12739	HD 3264	00 30.7	+48 00	"	"	"	15.3	04 50	05 08	2
	Open list		OTB							

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1331	014W	+62 41	3"	4.2	Brown	$\frac{4-4}{4-4} \frac{3}{8}$ MWC 7 <u>40, 60, 80^S</u>
1462	018W	+48 02	3"	4.7	Brown	$\frac{4-4}{4-4} \frac{3}{8}$ MWC 8 <u>80, 110, 140^S</u> } fogged
253	019W	+46 48	3"	6.07	B ₂	3-3-3 Bin
002	039W	+07 38	3"	5.3	G ₅	$\frac{4-4}{4-4} \frac{3}{7}$ Dipper in 1/2. Waded 5 min exp with slide withdrawn 1 comp with dipper
				5.8	F ₇	Cannot identify. Only bright star near dec mark 58 00. ?? 4 pos. 21 wrong ??
03051	020W	+28 10	3"	7.29	K ₆	3-3-3 N.P. Timeout to compare.
1-29 2	024W	+41 12	3"	6.3	F ₂	$\frac{4-4}{4-4} \frac{3}{7}$ Dipper in 1/2
-21 3	107W	+70 47	3"	8.0	B ₂	3-3-3 MWC 49. Right of desk lamp shows in top of slit field. ?
10 15 4	044W	+62 13	3	6.5	B ₂	3-3-3 MWC 61 MAYBE 15 FOGGED PLATES - BOX LEFT AJAR
01 1	040W	+49 43	3	2.3	cF ₄	$\frac{4-4}{4-4} \frac{3}{8}$ Dipper in 1/2 15, 20, 25 ^S
05 08 8	349W	+48 18	3"	7.14	B ₂	3-3-3 Bin. 10-7 } 7
						4 holder leads 10320, Box of 8 in refug 4 exposed plates packed in box, with other plates.

Date *Sept. 14-15/46* H. S. L. Ta/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12740	HD 3264	00 30.7	+48 00	1-25	L103aC	.008	17.7	22 02	22 16	1
12741	HD 209813	22 01.0	46 45	"	"	"	17.7	22 29	22 49	2
12742	180316	19 11.0	27 46	"	"	"	17.6	22 59	23 29	3
12743	210334	22 04.6	45 15	"	"	"	17.5	23 38	23 54	4
12744	212442	22 19.2	14 46	"	"	"	17.5	00 09	00 23	1
12745	225093	23 58.3	72 36	"	"	"	17.5	00 41	01 05	2
12746	2019	00 19.4	30 49	"	"	"	17.5	01 14	01 30	3
12747	3264	00 30.7	48 00	"	"	"	"	01 37	01 52	2
12748	5638	00 53.0	46 31	"	"	"	"	01 58	02 08	1
12749	8862	01 22.3	43 32	"	"	"	"	02 13	02 25	2
12750	11188	01 44.9	41 58	"	"	"	"	02 30	02 46	3
12751	15138	02 21.2	50 07	"	"	"	"	02 52	03 02	4
12752	16255	02 37.1	43 07	"	"	"	"	03 08	03 20	1
12753	18473 N	02 53.1	59 19	"	"	"	"	03 30	03 58	2
12754	19536	03 03.5	60 15	"	"	"	"	04 00	04 26	3
	21018	03 18.4	04 31	"	"	"	"	04 00	04 26	3

about 150 visitors? Had showed M13 and M57 with 74 and
 Low showed also: mirror, moon

30

focus 23.5%


Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:16	03 00 E	48 19	3	7.14 B2 9	
2:49	00 04 W	47 02	3-4	7.52 K0 5	forgot. last 4 sec. comp. in haste.
3:29	03 35 W	27 55	2-1-0	6.51 B5 3 3 3	
3:54	01 05 W	45 32	3	7.10 G0 3 3	had to inch comp. by hand @ this angle.
4:23	01 20 W	15 02	3+	6.71 B8 6 3	R.A. slow motion, would not move tel. then slowly
4:55	00 23 W	72 54	3+	7.58 A2 6 3	took tel. to 89:20 R.A. moving slowly. Retraction clock
5:00	00 26 W	31 08	3+	6.78 B9 6 3	clock ok
5:52	00 39 W	48 18	3+	7.14 B2 6 3	Seeing so good, thought this plate might have been coated.
6:04	00 31 W	46 47	3+	6.47 B2 6 3	
6:25	00 19 W	43 48	3+	6.54 B9 6 3	" " "
6:46	00 16 W	47 12	3+	7.09 B8 6 3	took this to pit in time. " " "
7:22	00 04 E	50 22	3+	6.61 F2 6 3	" " "
7:42	00 31 E	43 20	3+	6.72 A2 6 3	
8:51	00 20 W	59 30	3+	7.35 A0 6 3	THE STAR ALSO APPEARED QUITE CLEAR. NEBULOUS ON S-15
9:43:26	00 39 W	60 27	3+	7.26 A15 6 3	
				6.97 F5	see over HB star

Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				7.853NG		Could not see any stars in finder M.M.C. 79 checked circles several times.
4504	00 24	32.05	3+	6.65F6	6 3	NO EXPOSURE
4507	00 40W	+44 52	3+	6.57	40 8 4 5	NO EXPOSURE Sewing out stars 4 + THIS WAS NUMBERED 12757
4552	00 25W	13 47	4	6.56 F4	4 5	THIS NUMBERED 12757 2 hrs loaded, 4 in fan box in frig. THIS piece of wire full from Spectrograph being lowered to platform

Date Sunday Sept. 15-16 1946 Sh Julian Day 2432079

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle	Mag Limit
12758	HD 164898	17 58.3	+45 21	E-25	E 1037A H 327534	.008	+19.7	19.00	20.00	3	
12759	HD 166621	18 06.4	+18 28	"	"	"	+19.7	20.03	20.29	4	
12760	HD 17648	19 00.5	+23 11	"	"	"	+19.7	20.32	20.50	1	
12761	HD 180316	19 11.0	+27 46	"	"	"	+19.6	20.52	21.08	2	
12762	HD 183143	19 23.0	+18 05	"	"	"	+19.6	21.11	21.29	3	
12763	HD 192044	20 07.8	+26 11	"	"	"	+19.6	21.32	21.48	4	
	"	"	"	"	"	"	+19.6	21.38	21.48	4	
12764	HD 193349	20 14.7	+14 04	"	"	"	+19.6	21.45	21.59	3	
12765	HD 195522	20 53.2	+26 21	"	"	"	+19.5	22.03	22.25	2	
12766	HD 19767	20 54.1	+30 00	"	"	"	+19.5	22.28	22.42	3	
	Pl. 301		21 21	E-25							
12767	HD 2064	03 30.7	+48 00	E-25	E 1037A H 327534	.008	+19.5	23.44	00.02		
12768	HD 21335	20 00.2	+09 00	"	"	"	+19.5	00.05	00.15		

Tried to get time signals at noon. Found that sidereal hands of Mean Time Watch had stopped at 06 05.8 - watch seemed fully ~~and~~ wound. Used sidereal watch
 SW -27^s (extrapolation from MX)

Hour Angle End	Declination	Seeing	Ptg. Mag.	COMP	REMARKS
01 20W	+ 45 25	2-3	7.44	A0 3-3-3	Haze burning out 19 45 Binary. Thick haze not being more than 1/2 mag visually, but not photographically?
01 40W	+ 18 32	3	7.26	A2 3-3-3	Still some haze? (Thick on horizon) Velout * (Supp dist).
01 05N	+ 23 18	3+	6.9	B3R 3-3-3	MWC 310. Brass exposure → (**) Take bright * old like ^{light} light? ^{off}
01 18W	+ 27 54	3+	6.51	B5 4-4	Binary Continued light haze * off slit for 2-3 min. Set strong
01 25W	+ 18 13	3+	6.9	B9sd 3-3-3	MWC 317. Haze worse?
00 49W	+ 26 23	3	5.9	Bona 3-4-4	MWC 331 Haze
00 54W		"	"	4-4	
01 04W	+ 14 14	3	6.81	A05 3-3-3	Haze? Binary * appears double on slit. Set on variable comp. 
01 51W	+ 26 16	3	7.23	G0 3-3-3	Velout * (M).
01 30W	+ 30 4	3+	7.19	K0 3-3-3	Still haze? Same W 22 35 on 4.15 reveal by 1' double all over sky this - plates taken on 22 05 - 22 40 Plate 22
				10-10	
				[Has 1	Cloud m m m m N 1/2 sec for 1/2 sec long hour after end of focus test
			23.35		
01 01E	+ 45 18	3+	7.16	U2 3-3-3	Binary. (faint)
01 30E	+ 30 51	3-4	6.2	A 3-3-3	MWC 390 Haze

Date Sunday, September 15-16, 1900 Julian Day 24320.7

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
12760	HN 217050	02 52.7	+45 07	I 25	F1700	.008	+19.5	00.26	00.31	23
	"	"	"	"	"	"	"	00.20	00.22	26
12750	HD 221364	23 26.5	+25 07	"	"	"	+19.5	00.37	00.57	2
12721	HN 2019	00 19.4	+30 49	"	"	"	+19.4	01.00	01.10	14
12772	HD 5137	00 48.2	+25 58	"	"	"	+19.4	01.15	01.31	1
12773	HD 4550	00 42.4	+25 44	"	"	"	+19.4	01.30	01.52	2
12774	HD 5638	00 53.0	+40 31	"	"	"	+19.4	01.56	02.06	7
12775	HD 20513	21 01.6	+46 45	"	"	"	+19.4	02.10	02.31	1
12776	YF 22214	01 01.6	+54 26	"	"	"	+19.4	02.39	02.49	13
	"	"	"	"	"	"	"	02.49	02.50	10
12777	HD 12102	02 56.5	+27 56	"	"	"	+19.4	03.00	03.06	2
12778	HD 1347	02 09.9	+25 14	"	"	"	+19.4	03.22	03.36	3
12779	HD 20755	02 16.9	+54 55	"	"	"	+19.4	03.42	04.00	4
	HD 528	01 42.2	+56 40	"	"	"	"			1
	HD 15130			"	"	"	"			
	HD 1470			"	"	"	"			

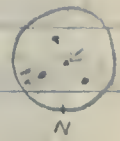
Date Monday Sept 16-17, 1946 Ad/W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12780	MWC 307 HD 174886	18 47.7	-10 21	I-25	E103aO	008	+23.8	19 07	20 17	1
12781	MWC 320	19 41.3	+5 44	"	"	"	23.9	20 24	22 04	2
12782	HD 180216	19 11.0	+27 46	"	"	"	24.1	22 08	22 20	3
12783	MWC 371 HD 205060	21 27.7	42 16	"	"	"	24.1	22 25	22 45	4
12784	MWC 347 HD 195592	20 27.2	43 59 44 09	"	"	"	24.0	22 48	23 14	4
12785	MWC 383 HD 209296	21 57.2	56 14	"	"	"	24.1	23 19	00 05	2
12786	MWC 402 HD 223501	23 45.0	61 39	"	"	"	24.1	00 10	01 10	3
12787	MWC 10 HD 6373	00 02.4	65 26	"	"	"	24.1	01 16	01 38	4
12788	MWC 13 HD 7105	01 24.6	62 51	"	"	"	24.0	01 43	02 11	1
12789	MWC 23 HD 12302	01 58.6	59 12	"	"	"	24.0	02 17	03 21	2
12790	HD 3638	00 53.0	46 31	"	"	"	24.0	03 26	03 36	2
12791	MWC 63 HD 25017	03 07.9	45 19	"	"	"	24.0	03 43	04 47	4
12792	MWC 74 HD 23982	00 44.2	63 11	"	"	"	24.0	04 33	05 25	1

This day Linnarth replaced bent metal Foucault slide with one of fibre.

Set focus 23.44

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
07 1	W 0 50	-10 15	1	8.1 Bze	3,3,3	Be Prog.
204 2	W 1 44	+ 5 56	2	8.5 Bse	3,3,3	" " field checked, though dec check poor.
220 3	W 2 30	27 55	3	6.51 Bs	3,3,3	Bin.
05 4	W 0 40	42 31	3	7.1 Bs(n)	3,3,3	Be prog.
03 4 1	W 2 10	44 10	3	7.2 Bse	3,3,3	Be prog. position checks. Star looks very red but see note re sp. type
05 2	W 1 31	56 30	3	8.1 B(s)e	3,3,3	Be Prog. checked field.
01 10 1	W 0 47	61 58	3	8.2 Bze	3,3,3	Be Prog. checked field.
01 3	W 0 01	65 44	3	7.1 Bse	3,3,3	Be Prog.
02 1	W 0 08	63 27	3-	7.5 Bse	3,3,3	Be prog.
03 21	W 0 47	59 28	3	8.2 Bze	3,3,3	Be Prog. checked field.
03 5	W 2 06	46 18	3	6.47 Bz	3, 6	Binary
04 7 4	W 0 41	48 32	3	7.9 Bne	3,3,3	Be Prog.
05 25	W 0 53	63 25	3-	8.1 Bze	3,3,3	Be Prog. checked field? (Binary?) 10/7 - better luck. + spent here in fog. East side. we do not drive fence, something seems to be catching it



C.T.D.

Transit set 23.41

ing Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
23 2	02 W	+45 23	1-2	7.44	A0	3-3-3	Binary
23 3	01 21W	+20 50	2	7.59	G8	3-3-3	Faint auroral arch 19 ⁴⁰ Binary
							Reset Focus 23-38 ± 00-02 (.03 low)
23 4	00 54W	+29 24	2	7.49	K0	3-3-3	Variable * (M.P.) (Faint * is weak aurora)
23 5	02 05W	+30 16	2	7.77	K5	3-3-3	Variable * (M.P.) Good aurora (see sheet for Cornell). Auroral glow on slit
23 6	01 13 W	+27 54	2.3	6.51	B5	3-3-3	Binary Set strong
							Trued to set on this but could not identify ^{line} * in field, even with help of Angeloude
23 7	01 12 W?	+26 34	2-3	7.71	K0	3-3-3	Variable * (M.P.)
23 8	02 12W	+25 56	2-3	7.65	K5	3-3-3	"
23 9	01 52W	+25 45	3	7.58	K2	3-3-3	"
23 10	02 15W	+29 03	3	7.72	K0	3-3-3	"
23 11	01 46W	+27 47	2-3	7.79	G5	3-3-3	"
23 12	02 15W	+27 22	2-3	7.91	K0	3-3-3	Following * of pair field checked in Angeloude
23 13	02 36W	+25 20	2-3	7.84	K0	3-3-3	"
23 14	01 44W	+46 48	2-3	6.47	B2	3-3-3	Binary
							only 1 binary pair 10-10

NB : Clock running slightly slow all night

ing Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
3	00 38W	+ 50 22	3 -	6.6	F2	3-3-3	Binary Endeavour ^{to} set on red Saturn like object discovered by Sh on 26 th 79. After some investigation find that it is a reflection of the generator safety light by the finder eyepiece lens. In setting up on outward position like this one is apt to hold one's eye at some distance from the finder eyepiece. If one holds one's eye close, the "ghost" does not occur
18	01 02W	+ 56 52	2	6.9	F5	3-3-3	Flare ^{or} $2 \times \frac{1}{2}$ Seem faint to 6.5 mag. (Should it be 6.9?)
	01 57W	+ 59 30	1	7.75	A0.	3-3-3	Binary Sat strong
							Heat 110T on Mirror
							2 plates
							{ 2 + 12 + 6 } plates in dome loaded box box a-o a-o o

Date *Wednesday Sept 18-19/46* ^{Sh-L} Julian Day *2432082*

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12809	HD 167135	18 08.8	11 51	I-25	E-10300	Set .008		19 02	19 26	2
12810	" 168131	18 13.2	11 51	"	"	"	+27.3	19 34	20 18	3
12811	HD 164898	17 58.3	+45 21	I-25	"	.008	+27.3	20 23	21 07	4
12812	HD 3264	00 30.7	+48 00	"	"	"	+27.3	21 22	21 45	1
12813	HD 190316	17 11.0	+27 46	"	"	"	+27.2	21 54	21 02	2
12813	"	"	"	"	"	"	+27.2	22 08	22 24	2
12814	HD 204642	21 24.9	+28 09	"	"	"	+27.1	22 32	22 58	3
12815	HD 173349	20 14.7	+14 02	"	"	"	+27.1	22 03	22 18	4
12816	HD 202313	21 01.9	+30 33	"	"	"	+27.0	23 22	00 00	1
12817	HD 217050	22 52.7	48 09	"	"	"	+26.8	00 07	00 18	2
12818	" 218393	23 02.6	49 40	"	"	"	+26.8	00 20	00 40	3
12819	" 4372	00 41.0	30 24	"	"	"	+26.8	00 54	01 29	4
12820	" 4388	00 41.1	30 25	"	"	"	+26.8	01 30	02 02	1
12821	" 9224	01 25.7	28 54	"	"	"	+26.8	02 06	02 38	2
12822	" 13691	02 08.4	26 10	"	"	"	+26.8	02 43	03 39	3
12823	" 25269	03 30.0	27 16	"	"	"	+26.8	03 49	04 45	4

* → Judged by next setting and compared with magnitude of next * it seems likely that D
 a. unres *

Focus set at 23.363?

ing Time I.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
026 2	0 47W	11 56	1-2	6.76 A0	3-3-3	Velocity * (Aurora) fine
12 3	01 34W	+ 11 54	1-2	6.97 B8	3-3-3	" "
07	02 39W	+ 45 24	1-2	7.44 A0	3-3-3	Binary Repeated throts and groans from Dec axis 20.50. Difficult sticking on: are switch itself gave an arc 3 times
12	03 17E	+ 48 18	2-3	7.14 B2	3-3-3	Binary Down NE Finder can just be reached from Juddie
3 2	03 21W	+ 27 54	2-3	6.51 B5	3-3-3	Binary ← At end found slide ^{Sub. long} ^{weak} ^{Se. 2'} ^{Se. 2'}
14 2	03 47 W	+ 27.54	2-3	" "	3-3-3	"
11 2	01 03'W	+ 28 23	3-	7.54 K2	3-3-3	Velocity * (M.P.) Difficult, identify, previous ^{finally identified} ^{too weak} ^{checked}
0 2	03 34W	+ 14 16	2-3	6.81 A0s	3-3-3	Binary First ^{No time to check} ^{Suggest looks down}
0 05	2 20W	+ 30 43	2-3	7.56 A0	3-3-3	Binary
17 0	0 50W	48 26	2-3	5.2 B3nd	3-3-3	B.E. Prog. ^{too weak}
04 3	1 08W	49 56	2-3	6.8 Ave	3-3-3	" "
01 25	0 16W	30 43	2-3	7.74 G5	3-3-3	N.P.
02 02	0 50W	30 44	3	7.74 G5	3-3-3	"
02 30	0 40W	29 10	3	7.74 G0	3-3-3	" " "
03 3	1 01W	26 26	3-2	8.14 G5	3-3-3	"
04 45	0 45W	27 27	3-2	8.19 K0	3-3-3	"

Date *Thursday September 19-20, 1946* H-W ^{/w.} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End	
12825	HD 170829	18 26.4	+20 46	I-25	E-103a 0	5.7 008	+26.9	19 47	20 51	2	
12826	180316	19 11.0	+27 46	"	"	"	+26.8	20 53	21 17	3	
12827	3264	00 30.7	+48 00	"	"	"	+26.8	21 27	22 03	4	
12828	200578	20 59.2	+28 43	"	"	"	+26.8	22 08	22 56	1	
12829	206374	21 36.6	+26 18	"	"	"	+26.6	23 05	00 00	2	
12830	213947	22 29.9	+26 05	"	"	"	+26.6	00 04	01 22	3	
12831	6525	01 01.1	+29 10	"	"	"	+26.5	01 27	02 58	4	
12832	5638	00 53.0	+46 31	"	"	"	+26.5	03 00	03 30	1	
12833	18473N	02 55.1	+59 17	"	"	"	+26.5	03 36	04 36	2	
12834	25838	13 13.1	+44 40	"	"	"	+26.5	04 40	05 12	3	
<i>Focus Test</i>								<i>O.T.B.</i>			

Start delayed by trouble with doc slow motion. stuck at end of worms; had to bring down 50
 telescope + free mount by hand. ^{H.} - At 0100 while trying to focus star a
 a little better, and having head near eye piece, I received a terrific shock that
 knocked me backward, and blacked me out for 2-3 seconds. W.
 Focus set 23.38

on 110Vs?

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 58 W	+20 51	1-2	7.59	G8 3-3-3	Binary - slight haze.
1 40 W	+27 55	1-2	6.51	B5 3-3-3	Binary
2 55 E	+48 18	1-2	7.14	B2 3-3-3	Binary
1 33 W	+28 57	1-2	7.56	K0 3-3-3	
1 58 W	+26 34	1-2	7.70	G5 3-3-3	
2 27 W	+26 22	0-1-2	8.07	K2 3-3-3	seeing variable, RA UNSTEADY, DRIFT EAST Light haze, some to be expected - NE (...thugged-for-witch!)
1 28 W	+29 29	0-1	8.33	G5 3-3-3	a green copper wire in switch when iron wire was being
2 11 W	+46 48	1	6.47	B2 3-3-3	Binary HYDROMETER SHOWING DEFINITE RISE IN HUMIDITY
	+57 30	1-0	7.35	A0 3-3-3	Binary "Out Strong"
1 03 W	+44 50	1	6.57	G0 3-3-3	Binary
					10/7 4 helms landed in box on pier.

Fuchs Ent 20-21, 1946

Very cloudy at sunset
 All night quite thick later.
 Drift at 10.00 E.S.T. a few
 but stars showing through.

Clouds in morning, clearing after noon. Haze at sunset, shd thick on all horizons, E wind

Facet Set 23.47 ± 00.02 (1.03 low)

Hour Angle E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	COMP	REMARKS
1 59 4	01 48W	+ 45 24	2-3	7.44 A0	3-3-3	Binary Thick haze, somewhat better after 19:20
0 28 1	01 03W	+ 27 54	2-	6.51 B5	3-3-3	Binary (set strong) light haze. Seeing variable.
1 5 2	01 04W	+ 26 04	2-3	7.44 h0	3-3-3	Velocity * (N.P.) Still some haze?
3 31 3	02 50W	+ 26 33	0-1	7.71 h0	3-3-3	Velocity * (N.P.) Cont. some light haze? Worse after 25
		outside through	Base		10-10	Better after 22:00 Some drizzling 22:15 humidity rising, * after cannot be seen on slit - Variable haze or light clouds Haze worse 23:00 Some drizzling badly 23:20 * some ornaments good 23:27. Increasing haze, light clouds moving in from N. Decide to class up. Even zenith solid by 0 ^h
						N.
						NB
						only 1 of mirror heating coils is functioning
						$\left\{ \begin{array}{l} 4 \\ \text{boxed} \end{array} + \begin{array}{l} 4 \\ \text{box} \end{array} + \begin{array}{l} 12 \\ \text{box} \end{array} \right\} \text{photo in dome}$
						<p>Had an M... MC SC MTW STW Sep 24 -37.6 +18.3 +18.2 +0.2</p>

Date Tuesday Sept 24-25, 1946 Had } - L
Wm }

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	P.A.	Hour Angle End
12839	MWC 308 HD 175863	18 52.3	59 53	L-25	E103aD	scf 008	21.0	19 12	19 52	1	41.0
12840	HD 180316	19 11.0	27 46	"	"	"	21.0	20 05	20 45	2	41.2
12841	MWC 332 HD 192445	20 09.8	36 02	"	"	"	21.0	20 52	21 44	3	41.4
12842	MWC 336 HD 193009	20 12.9	32 04	"	"	"	21.0	21 52	22 52	4	42.2
12843	MWC 346 HD 195407	20 26.0	36 39	"	"	"	20.9	22 58	00 08	1	3.00
12844	HD. 3269	00 30.7	48 00	"	"	"	20.8	00 52		4	
12844	HD. 5638	00 53.0	46 31	"	"	"	20.8	03 10	03 42	1	2.43
12845	MWC 82 " 26420	04 05.7	41 53	"	"	"	20.8	03 48	04 15	2	2.44
	Focus test					O.T.B.					

Focus set at 23.46

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
19 52	W 1 00	+59° 59'	0	6.9	B4e 3, 3, 3	Bc prog. fine
20 45	W 1 27	+27° 55'	0	6.51	B5 3, 3, 3	Binary fine
21 44	W 1 28	+36° 13'	0	7.1	B2ne 3, 3, 3	Bc prog fine
22 52	W 2 23	+32° 17'	0	7.0	B0ne 3, 3, 3	" " fine
23 05	3 36W	+36° 53'	0	7.7	B3e 3, 3, 3	" " Clouding over from W. star faint on slit for last few mins. fine
	48 19		0	7.14	B2 3-3	Binary Sky clearing again, back of clouds like in W. P. Prog! 5 mins of clear sky then clouds! <u>Plate checked!</u>
23 48	2 43W	46 48	0	6.47	B2 3-3-3	Binary fine
00 02	1 00W	42 01	0	7.6	B3hex 3-3-3	BE prog. good
					10/7	fine

Date Wednesday Sept. 25-26/46 ^{L-W} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12846	H.D. 164898	17 58.3	45 21	I-25	E-103a-O	set 0.008	+18.9	19 25	20 35	1
12847	" 180316	19 11.0	27 46	"	"	"	18.9	20 39	21 15	2
12848	" MWC 352 198183	20 43.5	36 07	"	"	"	18.9	21 21	21 25	3
12849	" MWC 366 203374	21 16.7	61 25	"	"	"	18.8	21 32	22 02	4
12850	" 208682	21 52.9	64 52	"	"	"	18.8	22 02	22 22	1
12851	" 213992	22 30.2	29 27	"	"	"	18.8	22 45	00 15	2
	" AG 274 2732	00 25.7	29.01	"	"	"				3
12852	" 5638	00 53.0	+46 31	"	"	"	18.8	00 40	01 14	3
12853	" 8862	01 22.3	+43 32	"	"	"	18.8	01 17	01 39	4
12854	" 11188	01 44.9	+46 58	"	"	"	18.8	01 42	02 36	1
12855	" 16855	02 31.1	+48 07	"	"	"	18.8	02 40	03 07	2

Focus Test

Focus set at 23.485?

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0351	2 35W	45 25	0	7.44	A0	3-3-3 Binary; Delay in starting due to <u>my fumbling!</u>
1 152	2 02W	27 56	0	6.51	B5	3-3-3 " "
1 293	0 40W	36 22	0-1	4.5	B6c	4½-4½ Be Prog.
2 004	0 43W	61 41	0-1	6.6	B0nc	3-3-3 " "
2 081	0 28W	65 08	0-1	5.8	B3nc	4½ 4½ " " MWC 381 Centred dec motion after eqs. CLOUDS MOVING IN FROM W.
2 152	0 154W	29 44	0-1	8.16	K2	3-3-3 Velocity * N.P. (WAITED, RESET ON BRIGHTER STAR, N.P. CLOUDS OVERHEAD, COULDN'T SEE STAR IN FINDER, BINARY)
3 143	0 14W	46 48	0	8.77	K0	STAR FAINT. Light clouds.
3 39	0 15W	43 48	0-1	6.47	B2	3, 3, 3 BINARY Light clouds.
4 11	0 32W	47 14	0-1	6.54	B7	3, 3, 3 BINARY Heavy bank of clouds soon overhead, look at Hyades 02.56
0307	0 27W	43 20	0	7.09	B8N	3, 3, 3 BINARY STAR GONE 02.57
	O.T.B.					10/3% star became invisible, continued exp. till clouded out again Iron wire fused together, appears they set too close waited till 0400, decided to close

Clouds over much of sky at sunset. slowly
clearing towards dark. Haze at low altitudes.

Transit 23.47

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
27 3	1 32 W	+45 25	2	7.44	A0 3-3-3	Binlight clouds intermittently. fine
28 4	0 49 W	+27 54	2-1	6.51	B5 3-3-3	Bin
23	1 51 W	+28 24	1-2	7.93	G0 3-3-3	Pro. S. Pres. comp of pair 6' apart. ✓
45 2	2 32 W	+26 52	2	8.06	M0 3-3-3	
0 1	2 20 W	+29 06	2-1-2	7.93	K5 3-3-3	
23 4	3 20 W	+49 07	2-1-2	7.55	K1 3-3-3	Bin
25 1	1 24 W	+46 47	1	6.47	B2 3-3-3	Binary
34 6	3 17 W	+48 18	1-0	7.14	B2 3-3-3	Binary stars very faint. IS THIS PLATE NUMBERED 12864?
41 2	0 33 W	+32 05	0-1	6.65	F6 3-3-3	
27 43	0 31 W	+13 18	1+	6.56	F4 3-3-3	
05 18	0 51 W.	+19 49	1+	7.06	F8 3-3-3	
	O.T.B.				10/7	3 holders loaded.

Date Friday Sept 27-28, 1946 ^{Hd / W}_{Wm} Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
12 867	HD 3269	00 ^h 30. ^m 7	+48° 00'	I-25	E 103a-0	Set .008	21.7	18 58	19 48	2 4 ^h 37 ^m
12 858	HD 164 898	17 ^h 58. ^m 3	+45° 21'	"	"	"	21.6	20 04	20 54	3 3 ^h 02 ^m
12 869	HD 180 316	19 ^h 11. ^m 0	+27° 46'	"	"	"	21.5	21 05	21 31	4 2 ^h 26 ^m
12 870	MWC 331 HD 192 044	20 ^h 07.8	+26° 11'	"	"	"	21.5	21 37	21 53	1 1 ^h 51 ^m
12 871	MWC 381 HD 208 682	21 ^h 52.9	+64° 52'	"	"	"	21.5	22 02	22 18	2 5 ^h 32 ^m
12 872	HD 202 313	21 ^h 09.9	+30° 33'	"	"	"	21.5	22 34	23 04	3 1 ^h 50 ^m
12 873	P Persei HD 19058	02 58.8	+38 27	"	"	"		00 04 ³ / ₄	00 05 ¹ / ₂	4 -
								00 05 ¹ / ₂	00 05 ¹ / ₂	-
								00 07	00 09	-
12 874	P Persei	"	"	"	"	"		00 11 ³ / ₄	00 12 ¹ / ₄	1
								00 14 ¹ / ₂	00 15 ¹ / ₂	
								00 16 ¹ / ₂	00 19 ¹ / ₂	
12 875	P Persei	"	"	"	Process	"		00 25	00 30	2
							21.6	00 33	00 43	
							21.6	00 49	01 05	
12 876	HD 5638	00 53.0	+46 31	"	E 103a-0	"	21.7	01 19	01 55	1 1 ^h 08 ^m W

Checked focussing plunger: 1N
Focus at 23.48 - .02 = 23.46

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
48	4 ^h 37 ^m E	48°19'N	0	7.14	B2 3-3-3	Binary
54	3 ^h 02 ^m W	45°23'N	1	7.44	A0 3-3-3	Binary
13	2 ^h 26 ^m W	27°54'N	1	6.51	B5 3-3-3	Binary
153	1 ^h 51 ^m W	26°22'N	1	5.9	B2ne 3-3-3	Be
218	0 ^h 32 ^m W	65°07'N	1	5.8	B3ne 3-3-3	Be
222	2 ^h 50 ^m W	30 47'N	1	7.56	A0 3-3-3	Binary
	—		1	est. 4.0	Mb	nil. set 1
	—					nil. " 5
	—					10 " 9
			1	"	"	10 set 1
						10 " 5
						10 " 9
			1	"	"	no filter 8-8 set 1
		38 39				8-8 " 5
						8-8 " 9
	1.08W.	46 48	1-0	6.47	B2 3-3-3.	FILTER IN Binary

Date *Fri. Sept. 27-28-1946* ^{H₂} } W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12877	HD 326400	30.7	+4800	I-25	F. 10320	.008	+21.8	01 59	02 59	3
	LS138 02 21.2 + 5001			"	"	"				4
12878	18473N	02 53.1	59 17	"	"	"	21.8	03 04	04 06	1
12879	27483	04 15.2	113 38	"	"	"	21.4 [?]	04 10	04 42	2
12880	29104	04 29.4	+1941	"	"	"	21.5	04 46	05 16	3
12881	35189	05 17.9	+1636	"	"	"	21.6	05 20	05 40	4

Focus Test

Saturday Sept 28-29, 1946

H-N

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS										
259 ³	Z 35 W	48 18	0	7.14	B2 3,-3 3	Binary. Light clouds.										
				6.61	F2											
406	1 18 W	59 29	0	7.35	A0 3, 3.3	"										
442	0 34 W	13 48	0	6.56	F4 3, 3 3	"										
516	0 53 W	19 50	0 - 1	7.06	F8 3 3 3	"										
540		16 43	0 +	6.15	A15 3, 3 3	"										
	O.T.B.				10/7	+ holders loaded, 1 plate spotted still in spotter. 8 in open box in fig.										
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Sep. 30</td> <td>-42.4</td> <td>+06.5</td> <td>-0.2</td> <td>-0.3</td> </tr> </table>		MC	SC	MTW	STW	Sep. 30	-42.4	+06.5	-0.2	-0.3
	MC	SC	MTW	STW												
Sep. 30	-42.4	+06.5	-0.2	-0.3												
	about 80 visitors.					H showed Big red, till sky became too thick, then PCyst MIS, N to S. with small U. Cloudy during last half W.										

- Oct 1

Date Mon Sept 30/46 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12882	^{p Persei} H.D. 19058	02 58.8	38 27	I-25	E-103a-0	set 008	+ 11.2	00 07.35	00 11.35	1
	"	"	"	"	"	"		00 15	00 21	2.21 E
12883	HD 5638	00 53.0	46 31	"	"	"	11.2	00 34	01 46	2 0 W

Tues. Oct. 1-2, 1946

Came down at 0100, clearing considerably, looked
hopeful. 0130-0145 heavy cumulus clouds in N, W & E,
zenith clear. 0230-0300 Considerable haze & clouds
overhead. Looks hopeless. W.

Focus set at 23.59

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
						* focussing gear!
						Sky clouding over at sunset, mostly thick until 9.00, clearing with a violent wind, waited till wind died
0 11:35			0	4 Mb	9	set 1 1/2 Start delayed by trouble with*
0 21	2 21 E	38 40	0	" "	9	set 8 1/2. flipper in 4 1/2 mins
46	1 10 W	46 49.	0	6.47	02 3-3-3	passing clouds, image very unsteady wind gradually increasing from WEST too cloudy to continue. closed up. 2 holders loaded. 1 open & 1 closed box in dome in spotting room

Sargone 0150-15

HEAVY CUMULUS COMING FROM N. LOOKS
GETTING WORSE THIS IS HOPE BAD
LESS

Date Wednesday Oct. 2-3/46 L-W Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
12884	HD 164898	17 58.3	45 21	I-25	E-103a0	Set 008	+13.1	18 53	19 49	3
12885	" 180316	19 11.0	27 46	"	"	"	+13.4	19 54	20 12	4
12886	" 206385	21 36.7	29 51	"	"	"	+13.5	20 19	21 09	1
12887	" 207740	21 46.1	28 18	"	"	"	+13.5	21 13	22 09	2
12888	MWC 409 " 225095	23 58.3	55 00	"	"	"	+13.4	22 19	22 53	3
12889	" 223138	23 41.9	27 52	"	"	"	+13.4	22 59	23 59	4
12890	P. Perse " 19058	02 58.8	38 27	"	"	"	+13.4	00 05.25	00 13.5	1
12891	" 5638	00 53.0	46 31	"	"	"	+13.4	00 25	00 37	2
12892	AG 702 " 7299	01 08.1	29 12	"	"	"		00 44		3.5
	"			"	"	"	+13.4	00 52	01 22	3.9
12893	AG 1077 " 11751	01 52.7	12 51.8	"	"	"	+13.4	01 25	02 25	4
12894	AG 1530 " 18450	02 52.9	12 22	"	"	"	+13.4	02 28	03 28	1
12895	MWC 79 " 24560	02 49.3	14 38	"	"	"	+13.4	03 32	04 12	2
12896	AG 2157 " 30111	04 39.6	12 30	"	"	"	+13.3	04 16	05 02	3
12897	" 37366	05 33.0	13 50	"	"	"	+13.3	05 05	05 30	4
	<i>Focus Test</i>									

Focus set at 23.58

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01:09	2 16W	45 23	0-1	27.44	A0 3-3-3	Binary Seeing improving some haze
01:12	1 26W	27 54	2	6.51	B5 3-3-3	Binary / Dome temp rising!
01:19	0 03E	30 07	2-3	8.05	K2 3-3-3	Velocity * N.P. YP 25
01:39	0 48W	28 33	3	8.20	G5 3-3-3	" " N.P. YP 25
02:03	0 41E	35 17	3	7.6	B1e 3-3-3	Be Prog.
02:19	0 42W	28 09	3	8.40	M0 3-3-3	Velocity * N.P. YP 25
02:13	2 21E	38 41	3	4.	M0 9	Flipper in 6 mins.
02:37	0 09W	46 49	3.	6.47	B2 3-3-3	Binary
02:50	0 39W	29 29	3	7.44	K0 3-3-3	took 1900 ♂ NP YP 25 light fainter after pulling (slide)
02:55	0 59W	25 34	3-2	8.93	G0 3-3-3	NP. YP 25
03:23	0 100W	26 36	2-	8.79	K0 3-3-3	NP. YP 25
03:41	0 48W	44 50	2	7.8	B1e 3-3-3	Be Prog. checked by ...
05:02	0 48W	28 35	2	8.26	G5 3-3-3	NP. YP 25
05:30	0 28W	30 55	2-3	7.27	B3 3-3-3	4 helms added. + image ...
	O.T. 13				10/7	

Date Thursday Oct 3-4/46 Wm-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12 898	HD 164 898	17 ^h 58 ^m .3	+45°21'	I-25	E 103a-0	Set 0.008	20.0	1846	1940	1 2 ^W 11
12 899	HD 180 316	19 ^h 11.0	+27°46'	"	"	"	20.0	1948	2012	2 1 ^W 30
12 900	HD 199 375	20 ^h 51.7	+27°12'	"	"	"	20.0	2030	2116	3 0 ^W 50
12 901	HD 200 578	20 ^h 59.2	+28°43'	"	"	"	20.0	2123	2233	4 2 ^W 33
12 902	HD 202 573	21 ^h 11.6	+25°01'	"	"	"	20.0	2241	2351	1 3 ^W 00
12 903	" ^{AG 14276} 228211	23425	+25°01'	"	"	"	19.9	0001	0105	2 1528
12 904	" 5638 ^{AG 139}	00530	+46°31'	"	"	"	19.8	0109	0133	3 109W
12 905	" 12847	02012	+25°51'	"	"	"	19.8	0140	0304	4 133W
12 906	" 21018	03184	+04°31'	"	"	"	19.8	0312	0348	1 100W
12 907	" 27483	0415.2	+13°38'	"	"	"	19.8	0352	0438	3 053
<i>Focus Test</i>										

Plunger checked: 1N
Focus set at 23.48

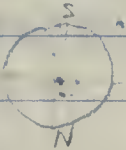
Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 10	2 ^W 11	+45° 24'	1-0	7.44	A0 3-3-3	Binary some haze
0 12	1 ^W 30	+27° 55'	1	6.51	B5 3-3-3	Binary
1 6	0 ^W 59	27° 25'	1	7.40	K0 3-3-3	R. Vel. Had some trouble identifying
2 23	2 ^W 03	28° 56'	1-0	7.56	K0 3-3-3	R. Vel.
3 5	3 ^W 09	25° 15'	1-0	7.54	G5 3-3-3	R. Vel.
5	1 52W	25 19	1-0	7.84	K0 3-3-3	Some haze, clouds in NW
1 33	1 09W	46 47	1-2	6.47	B2 3-3-3	Binary
3 04	1 33 W	26 07	0-1-0	7.91	G5 3-3-3	check ref. mag. out, haze thickening, clouds
2 01	1 00 W	04 44	0	6.97	F8 3-3-3	Binary
4 11	0 53	13 48	0	6.56	F4 3-3-3	Binary
	O.T.B.				10/17	4 shells loaded, 6 in open box in dome 2 emulsion to emulsion

There are 26 plates to be developed, 4 are in hinged box with emulsion to hinges.

Date Friday October 4-5, 1946 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
12908	HD 164898	17 58.3	+45 21	I-25	E-103a-0	set 008	21.0	18 36	19 22	3
12909	180316	19 11.0	+27 46	"	"	"	21.1	19 24	19 42	4
12910	187614	19 45.8	+26 50	"	"	"	21.1	19 ⁴⁸ 45	20 32	1
12911	200391	20 58.1	+27 24	"	"	"	21.1	20 34	21 48	2
12912	209813	22 01.0	+46 45	"	"	"	21.1	21 51	22 23	3
12913	211606	22 13.2	+26 26	"	"	"	21.1	22 26	23 16	4
12914	220288	23 17.5	+25 22	"	"	"	21.0	23 18	00 22	1
12915	5638	00 53.0	46 31	"	"	"	21.0	00 27	00 43	2
12916	10095	01 33.6	27 15	"	"	"	21.0	00 49	01 53	3
12917	14875	02 18.9	28 46	"	"	"	21.0	02 01	03 13	4
12918	MWC 79 24560	03 49.3	44 38	"	"	"	20.9	03 19	04 09	1
12919	32093	04 55.6	26 30	"	"	"	21.0	04 19	05 31	2
	<i>Janus Test</i>					<i>O.T.B.</i>				

Focus set 23.46

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22:30	1 57W	+45 24	1-2	7.44	A0 3-3-3	Binary ← Reset Dec Micro Drum
22:40	1 04W	+27 51	2	6.51	B5 3-3-3	Binary
22:50	1 19W	+26 56	2-1-2	7.44	G5 3-3-3	 Southern, brighter of pair, started as northern.
23:00	1 23W	+27 36	2	8.12	G0 3-3-3	
23:10	1 56W	+46 59	3	7.52	K0 3-3-3	Binary
23:20	1 35W	+26 40	3-2	7.95	K5 3-3-3	
23:30	1 38W	+25 38	2	7.99	K2 3-3-3	N.P.
00:00	0 23W	46 45	2-3	6.47	B2 3-3-3	Binary Seeing quite variable
00:10	0 53W	27 28	2	8.08	K0 3-3-3	N.P.
00:20	1 28W	28 59	2	8.21	K0 3-3-3	N.P.
00:30	0 53W	44 47	2	7.8	B _{one} 3-3-3	Be Prog.
00:40	1 09W	26 33	2-1	8.28	G5 3-3-3	N.P. Took fainter star of double
					10-7	

Sat about 150 Vintners Hd showed Ring Neb, moon; Howwood on 4"
 checked focus plunger - in 72
 Focus set 2344-.02.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
307 3	4 34W	27 54 0		6.51 B5	3-3-3	
				7.26 K ₀	3-	} THOUGHT I HAD SET ON WRONG * BUT APPARENTLY NOT. DEC. STILL SAME
		23 21 0		" "	3-	
018 4	1 30 W	"	0-1-2	"	3-3-3	
056	0 20 W	+6 44	3	6.47 B ₂	3-3-3	
020	0 48 W	26 08	3	8.00 K ₀	3-3-3	
214	0 57 W	59 24	3-2	5.2 B _{3e}	3-3-3	field checked.
051	0 51 W	27 20	3	8.22 K ₀	3-3-3	dome would it turn ^{very p} drive like soap.
118	1 18 W	63 18	3-2	8.1 B _{3e}	3-3-3	BE PROG FIELD CHECKED HAD SOME TROUBLE IDENTIFYING *
033	1 14 W	26 55	3-2	8.51 AG	3-3-3	
	O.T.B				10/7	+ holders located, see box in dome. 2 plates in black box to be spotted.

Dome temp 74° !!!

74

Focus set 23.42

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
9 16 3	1 56 W	+45 21	1-2	7.44	A0 3-3-3	Binary ← DOME TURNING N.G.
9 34	1 04 W	+27 52	2-3	6.51	B5 3-3-3	Binary
9 51	1 52 W	+28 26	3	8.22	K0 3-3-3	AG 25.
1 32	1 44 W	+29 19	3-2	8.23	K5 3-3-3	AG 25
2 24	1 56 W	+29 33	3	8.30	G5 3-3-3	AG 25
3 16	1 58 W	+29 38	2-3	8.26	K0 3-3-3	AG 25
4 08	1 50 W	+28 19	2-3	8.12	K0 3-3-3	AG 25
4 27	1 17 W	30 32	3-2	8.30	G0 3-3-3	AG 25
5 44	1 45 W	25 24	2	8.33	K0 3-3-3	AG 25
6 44	1 30 W	27 56	2-3	8.01	G5 3-3-3	AG 25
7 46	0 42 W	29 09	3	7.56	K0 3-3-3	AG 25
					10.7	

Test Exp Meteor Camera X
 { 21⁴² - 22¹⁴; 21⁵⁵ - 22¹⁴; 22⁰⁶ - 22¹⁴
 Draco - α F9 + 3½ days D61a, 6^m.

Test Exp Meteor Camera W
 { 01¹⁵ - 01⁵⁰ Polar region

Focus set at 23.405?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
01:2	139W	23 14	0	6.9	B _{3e} 3-3-3	Be Prog. scattered light clouds. <i>l. weak</i>
00-3 3	129E	38 24	0	6.4	B _{3e} 3-3-3	" " more light cloud. <i>fine</i>
02:14	113W	29 29	0	8.07	K ₀ 3-3-3	H.P. <i>NC 25</i> Then haze <i>good</i>
00:17	127W	27 56	0	7.47	G ₀ 3-3-3	H.P. <i>NC 25</i> <i>fine</i>
00:5	044W	46 45	0	6.47	B ₂ 3-3-3	Binary <i>fine</i>
02:11	130W	53 04	0	7.5	B _{3e} 3-3-3	Be Prog. Haze large bank of haze cloud coming from S. <i>fine</i>
03:1	112W	59 25	0	7.35	A ₀ 3-3-3	Binary " <i>fine</i>
05:17	206W	63 18	0-	8.1	B _{3e} 3-3-3	Be-Haze <i>stuck in field. Working in N. to keep away from</i> <i>approaching haze cloud bank.</i>
05:50	217W	15 07	0	7.7	B _{3e} 3-3-3	Binary <i>l. weak</i>
		0 T. 13			10/7	
						4 plate holders loaded.
						Checked every 15 mins for updates. Nothing.
						M ₁ NC SC MTW STW Oct. 9 - 10:00 +0.3

FOCUS SET AT 23:56 - 0.2 = 23:54

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3			1	7.20 G5 3-	<p>clouds coming up @ 23:10; @ 23:15 + barely visible Binary: ^{on slit} 23:30 COMPLETELY CLOUDY! <i>weak</i></p>
					<p>PH #3 still has this plate in it, because I didn't know what to do with it.</p>
					<p><u>No</u> plate holders loaded (defective emulsion, remaining plates "chucked".)</p>

Rain all day, clearing somewhat at 7:30
 Opened up at 0015, many clouds in E. & W. zenith stars,
 clouded over suddenly, waited.

plynger in
 heat off.

feels 33.64

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
155	1 14 W	47 11	0	7.09	B2m 3-3-3	(not nebulous spectrum) fine
231	1 14 W	50 19	0	6.61	F2 3-3-3	fine
320	0 47 W	44 47	0	6.57	G0 3-3-3	Several passing clouds! too strong
41	0 54 W	19 46	0	7.06	F8 3-3-3	strong
51	0 33	32 45	0	6.56	A2 3-3-3	strong
		47 25	0	8.58	G0 3-	realized this exp. too long for time left. weak
553		30 01	0	7.06	A0 3-3-3	weak
		O.T.B.		10/7		2 holders loaded, 4 plates in line in dome. Heat on mirrors. feels 33.64 at 10:00

Focus plunger in

Focus 23.64 - .02

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
18 28.3		+4 21	1	4.8	Bsc 3, 6.	Be Prog Set 5
18 31					9,	8 Set 1
18 37	W 1 50				9.	Set 9.
19 24.9	W 2 15	25 00	1	6.9	Bsc 3, 3, 3	Be Prog.
20 18.1	W 1 30	26 01	1-3	7.44	Ko 3, 3, 3	Vel. Prog.
21 24.2	W 1 30	28 54	2-1	7.56	Ko 3, 3, 3	" "
22 4.3	W 1 09	26 06.	2	7.74	Ko 3, 3, 3	" "
23 20.7	W 2 32	56 27	3	8.1	B(s)c 3, 3, 3	Be Prog. Checked field.
20 23.1	W 1 18	30 05	3.	8.23	Ko 3, 3, 3	Vel Prog. Clouds at 0019 thickening right up.
			OT 13.		10/7	
						3 plates loaded 2 boxes in dome No heat on mirror.

Cloudy all day, clearing around 0100.

84

focus 23 62 ± .02

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
238	0 09W	+ 32 02	3	6.65 F6	3-3-3	BINARY very poorly guided. history
254	0 23W	+ 44 47	3	6.57 G0	3-3-3	BINARY very, very poorly guided!
263	0 52W	+ 25 20	3+	5.83 F6 8.93 G0	3-3-3	NP is very bright for 8.93 m. beautiful
	0 55W	+ 25 03	3	8.64 G5	3-3-3	passing clouds, thick ring, star gone +35 moon light on slit a bit. Some dust just W of C
	O.T.B.				10/7	4 plates loaded, 2 boxes in door. waited till after we getting worse. That not on mirror focus - 23 62 ± .02

Tues.
Date Oct 15-16, 1946 Wm - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12 965	HD 196 866	20 ^h 35.0	+25° 43'	I-25	E103a.O	SLT 008	-15.70	1850	1950	3 31
12 966	HD 206 374	21 ^h 36.6	+26° 18'	"	"	"	+15.7	1956	2052	4 32
12 967	HD 208 700	21 ^h 53.0	+26° 50'	"	"	"	+15.7	2057	2157	1 20
12 968	HD 211 606	22 ^h 13.2	+26° 26'	"	"	"	+15.7	2214	2326	2 30
12 969	HD 222 317	23 ^h 34.4	+27° 41'	"	"	"	15.7	2333	0035	3 37
12 970	11198	01 44.9	46 58	"	"	"	15.6	0039	0131	4 38
12 971	16855	02 37.1	43 07	"	"	"	15.7	0134	0222	5 39
12 972	23626	03 41.5	31 54	"	"	"	15.7	0226	0346	6 40
12 973	3264	00 30.7	48 00	"	"	"	15.7	0253	1353	7 41
12 974	34033 AG 2603	02 09.5	22 10	"	"	"	15.6	0358	0414	8 42
12 975	22585	05 35.5	29 13	"	"	"	15.5	0424	0508	9 43
<i>Focus Test</i>										
12 976	47395	06 23.3	25 21	"	"	"	15.5	0517	0551	10 44
				Wednesday Oct. 16-17 Cloudy with rain.						
				Thursday Oct. 17-18 Cloudy with rain.						

FLUNGER: IN

FOCUS SET $23.57 - .02 = 23.55$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
2050	0 ⁿ 31	+25° 53'	1	7.65	K5	3-3-3	RAD. VEL. * Had trouble identifying field; Some Haze good
2055	0 ^w 32	126° 30'	↓ 1.2 <small>IMPROVING</small>	7.70	G5	3-3-3	RAD. VEL. * fine
2157	1 ^w 20	-29° 33'	2.1	7.93	K5	3-3-3	RAD VEL * good SET AT 8 to avoid possible overlap
2210	2 ^w 30	+21° 10'	1.2	7.95	K5	3-3-3	RAD VEL * with 1" exposure on v. (v. long) * good
2235	2 17 W	+27 56	1-0	7.47	G0	3-3-3	RAD VEL * (2) plates in large black box. fine
2331	1 02 W	+47 09	0	7.09	B8n	3-3-3	Binary. (1st) plate in small box. Emulsion to hinge 1 star Image quite unstable
2342	1 01 W	+73 18	0-1	6.72	A2	3-3-3	Bin. seeing very poor 1 star
2346	0 21 W	+32 02	1-2	6.65	F6	3-3-3	Bin. 1 star Quadrant like haze gathering 0315
2351	4 07 W	+42 14	1-2	7.14	B3	3-3-3	Bin. fine very poor seeing
0410	0 22 W	+22 13	2	6.22	A2	3- 6	S fine 1st. 2nd. 3rd. 4th. 5th. 6th. 7th. 8th. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th. 101st. 102nd. 103rd. 104th. 105th. 106th. 107th. 108th. 109th. 110th. 111th. 112th. 113th. 114th. 115th. 116th. 117th. 118th. 119th. 120th. 121st. 122nd. 123rd. 124th. 125th. 126th. 127th. 128th. 129th. 130th. 131st. 132nd. 133rd. 134th. 135th. 136th. 137th. 138th. 139th. 140th. 141st. 142nd. 143rd. 144th. 145th. 146th. 147th. 148th. 149th. 150th. 151st. 152nd. 153rd. 154th. 155th. 156th. 157th. 158th. 159th. 160th. 161st. 162nd. 163rd. 164th. 165th. 166th. 167th. 168th. 169th. 170th. 171st. 172nd. 173rd. 174th. 175th. 176th. 177th. 178th. 179th. 180th. 181st. 182nd. 183rd. 184th. 185th. 186th. 187th. 188th. 189th. 190th. 191st. 192nd. 193rd. 194th. 195th. 196th. 197th. 198th. 199th. 200th. 201st. 202nd. 203rd. 204th. 205th. 206th. 207th. 208th. 209th. 210th. 211st. 212nd. 213rd. 214th. 215th. 216th. 217th. 218th. 219th. 220th. 221st. 222nd. 223rd. 224th. 225th. 226th. 227th. 228th. 229th. 230th. 231st. 232nd. 233rd. 234th. 235th. 236th. 237th. 238th. 239th. 240th. 241st. 242nd. 243rd. 244th. 245th. 246th. 247th. 248th. 249th. 250th. 251st. 252nd. 253rd. 254th. 255th. 256th. 257th. 258th. 259th. 260th. 261st. 262nd. 263rd. 264th. 265th. 266th. 267th. 268th. 269th. 270th. 271st. 272nd. 273rd. 274th. 275th. 276th. 277th. 278th. 279th. 280th. 281st. 282nd. 283rd. 284th. 285th. 286th. 287th. 288th. 289th. 290th. 291st. 292nd. 293rd. 294th. 295th. 296th. 297th. 298th. 299th. 300th. 301st. 302nd. 303rd. 304th. 305th. 306th. 307th. 308th. 309th. 310th. 311st. 312nd. 313rd. 314th. 315th. 316th. 317th. 318th. 319th. 320th. 321st. 322nd. 323rd. 324th. 325th. 326th. 327th. 328th. 329th. 330th. 331st. 332nd. 333rd. 334th. 335th. 336th. 337th. 338th. 339th. 340th. 341st. 342nd. 343rd. 344th. 345th. 346th. 347th. 348th. 349th. 350th. 351st. 352nd. 353rd. 354th. 355th. 356th. 357th. 358th. 359th. 360th. 361st. 362nd. 363rd. 364th. 365th. 366th. 367th. 368th. 369th. 370th. 371st. 372nd. 373rd. 374th. 375th. 376th. 377th. 378th. 379th. 380th. 381st. 382nd. 383rd. 384th. 385th. 386th. 387th. 388th. 389th. 390th. 391st. 392nd. 393rd. 394th. 395th. 396th. 397th. 398th. 399th. 400th. 401st. 402nd. 403rd. 404th. 405th. 406th. 407th. 408th. 409th. 410th. 411st. 412nd. 413rd. 414th. 415th. 416th. 417th. 418th. 419th. 420th. 421st. 422nd. 423rd. 424th. 425th. 426th. 427th. 428th. 429th. 430th. 431st. 432nd. 433rd. 434th. 435th. 436th. 437th. 438th. 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582nd. 583rd. 584th. 585th. 586th. 587th. 588th. 589th. 590th. 591st. 592nd. 593rd. 594th. 595th. 596th. 597th. 598th. 599th. 600th. 601st. 602nd. 603rd. 604th. 605th. 606th. 607th. 608th. 609th. 610th. 611st. 612nd. 613rd. 614th. 615th. 616th. 617th. 618th. 619th. 620th. 621st. 622nd. 623rd. 624th. 625th. 626th. 627th. 628th. 629th. 630th. 631st. 632nd. 633rd. 634th. 635th. 636th. 637th. 638th. 639th. 640th. 641st. 642nd. 643rd. 644th. 645th. 646th. 647th. 648th. 649th. 650th. 651st. 652nd. 653rd. 654th. 655th. 656th. 657th. 658th. 659th. 660th. 661st. 662nd. 663rd. 664th. 665th. 666th. 667th. 668th. 669th. 670th. 671st. 672nd. 673rd. 674th. 675th. 676th. 677th. 678th. 679th. 680th. 681st. 682nd. 683rd. 684th. 685th. 686th. 687th. 688th. 689th. 690th. 691st. 692nd. 693rd. 694th. 695th. 696th. 697th. 698th. 699th. 700th. 701st. 702nd. 703rd. 704th. 705th. 706th. 707th. 708th. 709th. 710th. 711st. 712nd. 713rd. 714th. 715th. 716th. 717th. 718th. 719th. 720th. 721st. 722nd. 723rd. 724th. 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Date *Friday, October 18-19, 1946* H-N-L Julian Day


Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12977	HD 218660	23 04.7	+29 08	T-25	E-10300	008	+7.0	21 48	22 42	3
12978	224895	23 56.5	+27 53	"	"	"	+7.0	22 44	23 54	4
12979	10095	01 33.6	27 15	"	"	"	+6.4!	23 58	01 08	1
12980	{ 19058	02 58.8	38 27	"	"	"	6.6	01 16	01 18	2
	"	"	"	"	"	"	6.6	01 20	01 24	
	"	"	"	"	"	"	6.6	01 27	01 35	
12981	22403	03 31.2	25 40	"	"	"	6.6	01 44	02 34	3
12982	26766	04 08.9	29 39	"	"	"	6.4	02 58	04 18	4
12983	46277	06 27.4	28 03	"	"	"	6.4	04 24	05 54	1
	<i>From List</i>				<i>C.T.B.</i>					

In afternoon about 200 visitors - electrochemical engineering society. Clouds & rain.

88

Intermittently clearing during early evening.

Focus set 23.67

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2 42 3	1 07 W	+29 22	1	7.52	K0	3-3-3 AG 25 Page clouded out during setting. Waited for
2 47	1 26 W	+28 05	1-2	7.95	K0	3-3-3 AG 25  disc should read about 28 08
01 10	1 03 W	27 28	1-2	8.08	K0	3-3-3 AG 25
0 13 E	38 41	1-2	4.	M6	9	
0 07 E	"	1-2	"	"	9	Flipper in 3 mins.
0 04 W	"	1-2	"	"	9	Flipper in 6 mins.
0 51 W	25 48	1-2	7.92	G0	3-3-3	AG 25
1 38 W	29 45	1-2	8.22	K0	3-3-3	AG 25
0 05 W	28 00	1-2	8.35	K2	3-3-3	AG 25
					10-7	

Focus set 23.66-.02

checked four plungers - in,

about 45 visitors, showed M15 tried dumb-bell nebula but N.G.
He showed doubles etc with 4" + 2".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3 08 1	W 1 48	48 24	1	5.2	B3nc 3, 3, 3	Had trouble focusing, finally OK by belt-decking on belt. Be Prag.
3 42	W 2 12	49 54	1	6.8	AVE 3, 3, 3	
0 11	1 50W		1	6.5	B3nc 3, 3, 3	
1 02	1 24W	29 26	1	7.44	Ko 3-3-3	AG 25
1 12	1 09W	29 57	1	7.55	Go 3-3-3	AG 25
1 40	2 41W	31 56	1	7.20	G5 3-3-3	Binary. BINARY LIST LOST, FOUND DURING LAST EXP.
3 00	1 23W	41 58	1	7.6	B3nc 3-3-3	Binary
4 11	2 57W	31 08	1	7.37	Ko 3-3-3	Binary
5 11	0 48 N	39 28	1	7.06	Ao 3-3-3	Binary
0 11	0 00	33 08	1-0	6.48	F5 3-3-3	Binary Cluster
		O.T. 2.			10/7	
						2nd time looked no plates in camera

Focus at 23.66 (23.68 - 0.02)

Checked focus plunger in.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 12 W	+ 18 08	0-1	6.9	B ₉ sec 3-3-3	Be prog. Get strong fine
	1 17 W	+ 36 10	0-1	7.1	B ₉ ne 3-3-3	" to strong
	0 50 W	+ 42 28	0-1	7.1	B ₅ ne 3-3-3	" seeing variable
	1 35 W	+ 26 21	0-1	7.83	K ₀ 3-3-3	AG 25 fine
	1 18 W	+ 36 29	0-1	7.70	G ₀ 3-3-3	AG 25 strong
	1 53 W	+ 26 02	1-2	7.87	K ₀ 3-3-3	AG 25 Clouds at 00.10, more clouds
	2 35 W	31 59	2	7.20	G ₅ 3-3-3	Binary Clearing, then broken clouds during
		28 19	-2	8.30	M ₀	Clearing then suddenly left clouds drive before properly starting last star. Should have gone to bed.

Focus set at 23.62

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
						Cloudy all afternoon, thickish toward sunset. Found mirror partially dislodged. Waited till it dried up.
2 44	0 23 W	23 13	2-3	7.62	K ₀ 3-3-3	A.G. 25 l. tray
	1 19 W	26 11	2-3	8.43	K ₀ 3-3-3	A.G. 25 ²⁵ good
	C 59 W	28 12	3	8.40	G ₅ 3-3-3	AG. 25 good
	01 26 K	31 55	3	7.20	G ₅ 4 1/2 - 4 1/2	Binary good
03 0	1 51 W	29 36	3	8.93	G ₅ 3-3-3	AG 25 fine
	1 06 W	26 15	3	8.50	G ₅ 3-3-3	AG 25 fine
	1 35 W	25 30	3	8.77	G ₀ 3-3-3	AG 25 good
		O T B			10/7	4 holders, handles, 7 plates in dome center slightly to right

Date Tues, Oct 22/23 Wm-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
13 008	MWC 336 HD 193 009	20 ^h 12 ^m 9	+32°09'	7-25	E-1030-D	SE 008	+12°7 C	18 22	19 22	2
13 003	MWC 343 HD 194 335	20 ^h 20 ^m 0	+37°10'	"	"	"	+12°7	18 29	19 19	3
13 010	MWC 376 HD 205 723	21 ^h 39 ^m 3	+57°17'	"	"	"	+12°6	19 59	20 49	4
13 011	HD 225 093	23 ^h 58 ^m 3	+72°36'	"	"	"	+12°6	20 59	22 09	1
13 012	AG 14 18 HD 228 723	23 ^h 30 ^m 1	+30°07'	"	"	"	+12°6	22 17	23 33	6
13 013	AG 467 HD 3550	0042.4	+25°44'	"	"	"	+12°6	23 40	00 30	3
13 014	HD 10588	0138.2	31 43	"	"	"	+12°6	00 39	01 33	4
										1
										2
										3
										4
13 015	HD 47545 <i>Leaves list</i>	06 33.3	12 22	I-25	E1030-D	.008	+12°4	04 53	05 27	1

FOCUS SET AT 23.53 [e. 23.60-.02]
 FOCUSING KNOB: IN
 HEAT TURNED ON FOR ~ 1^h TO DRY MIRROR.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 ^m 53	+32° 12'	0	7.0	Bone 3-3-3	IS THIS THE RIGHT *? NO FIELD 2 IN WITH Be-Star Some haze & clouds
1 ^m 14	+37° 17'	0	5.7	B3ne 3-3-3	" " Cu-S.T. watch be 1 ^m slow? <i>later</i>
0 ^m 54	+57° 20'	1-0	7.0	Bone 3-3-3	" " I THINK IT IS T
0 ^m 05	+72° 52'	0-1	7.58	A2 3-3-3	Variable F.V.? + <i>later</i>
1 ^m 45	+37° 22'	0	7.58	G0 3-3-3	AG 25 - P.V. <i>later</i>
1 33W	25 58	0-1	7.33	K0 3-3-3	HGLS - R.I. <i>later</i> * VISIBLE AT TIMES CONTINUED EXP.
1 40W	31 55	0	7.20	G 5 3-3-3	clouded suddenly at 0115e (temporarily off plates) BINARY. Incl. at end of run, ran it back + reset on * broken clouds, clearing occasionally waited till 0230 decided to close up. Thick. then solid. { Returned plates to package } Helios loaded. Heat on mirror.
0 40W	28 19	0	5.80	B7 3-3-3	Clear on opening then clouds <i>later</i>
	O.T.B.			10/7	

Cloudy at sunset and in early evening. Sky thinning later. Still hazy
Focus set at 23.57

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
25	1 30 W	28 24	0-1	7.77	K ₀ 3-3-3	AG. 25 Hazy foggy l. weak
200	3 18 W	48 15	0-1	7.14	B ₂ 3-3-3	Binary. much haze
332	1 30 W	44 45	0	7.8	B ₀ 3-3-3	checked field Be prog. by a quincy
448	1 00 W	29 48	0-1	7.56	K ₀ 3-3-3	AG. 25. checked field
610	1 24 W	29 49	1	7.91	K ₀ 3-3-3	AG 25 checked field l. weak
		0 T B			10/7	2 holders located. Heat on mirror. 8 plates in dome. curv slightly 1 mm

FOCUSING RUNNER; IN
 FOCUS SET AT 23.56 (25.58-02)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS S										
10:3	0 ^m 10	+14°12'	0	6.81 A0	3-3-3	Binary Prog (V) Duss. <i>focus</i> <i>given</i>										
10:4	0 ^m 35	+63°05'	0	7.40 A5	3-3-3	" " EXPANDED BY CLOUDS AT ~ TIME <i>focus</i> GIVEN - MAX OF 2 ^m BEFORE IT										
						4 PII'S LOADED + 16 UNEX'D PLATES IN DOME <u>HEAT ON</u>										
						Clearing around circ with strong S.W. wind, no clouds in SW and no imminent danger of clouding over. <i>focus 25.56</i>										
10:10	0 ^m 37	+29°49'	0	7.91 K0	3-3-3	AG. 25 Clouded at 0530 <i>1 work</i> 10/7 3 holders loaded. Heat on. <i>focus 25</i>										
		O.T.B.														
						<table border="0"> <tr> <td></td> <td>MA</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Oct. 25</td> <td>+64.2</td> <td>+13.5</td> <td>+11.0</td> <td>+0.2</td> </tr> </table>		MA	SC	MTW	STW	Oct. 25	+64.2	+13.5	+11.0	+0.2
	MA	SC	MTW	STW												
Oct. 25	+64.2	+13.5	+11.0	+0.2												

about 90 visitors. Showed M15 with 74' Hornwood.
showed clusters etc with 4."

104

Focus: 23.59-.02. checked plunger - in

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22 24	W 1 21	49 52	1	6.8	Ave 3, 3, 3	Be Prag
23 23	W 1 21	28 41	1	7.20	Ko 3, 3, 3	Wrong star thro misreading dec. in semi darkness of one set of sights
00 17	2 16W	28 14	1-2	7.62	Ko 3, 3, 3	R.V. Prag.
00 20	1 08W.	31 56	2-3	7.20	G5 3-3-3	Binary
02 01	1 55W.	54 16	3	8.6	Be Prag 3-3-3	Be Prag had a little difficulty in checking field
02 01	1 05W	46 04	3	8.6	Be Prag 3-3-3	Be Prag BRASS TAKE EYEPICCE. FINDER OF PRAG
04 01	0 58W	26 22	3	8.11	G5 3-3-3	AG 23
05 31	1 35W	27 11	3	8.89	Ko 3-3-3	AG 25
06 10	1 00W.	26 46	3	7.74	G5 3-3-3	4 HLDRS. LOADED. HEAT ON M. 4 plates in dewar
		OTB			10/7	

Date 1946 October 27-28 Sunday N - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End'
13035	HD 193349	20 14.7	+14 04	1-25	E103a0	^{set} 0.008	+18.1	19 14	19 54	1
13036	MWC 376 HD 206773	21 39.3	+57 17	"	"	"	+18.2	20 05	20 53	2
13037	HD 213339	22 25.9	+48 51	"	"	"	+18.1	20 58	21 50	3
13038	HD 223869	23 48.1	+25 27	"	"	"	+18.0	22 03	23 53	4
13039	HD 8747	01 21.2	+26 43	"	"	"	+17.9	23 57	01 19	1
13040	23257	03 38.6	27 37	"	"	"	+17.9	01 28	02 38	2
	31782	04 53.5	25 47							
13041	32387	04 57.8	24 52	"	"	"	+17.8	02 50	04 50	3
	Focus lost					OTB.				


Monday Oct. 28-29 Cloudy to ground 1300. Clearing
a little but very hazy 0000. Intermittent rain
begin to 0300, then cleared.

Tuesday Oct. 29-30 Overcast all night.

Wednesday 30-31 - Overcast with rain.

Considerable thin cloud at sunset.

Focus 23.51²¹ (23.53-.02) Checked plunger in.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS															
19 4	1 43 W	+14 12	0-1	6.81	Aos	3-3-3 Bin. 3" double not resolved (6.5, 9.2)  finder Some clouds															
20 5	1 17 W	+57 28	1	7.0	Bone	3-3-3 Pe mag. At first did not clamp in Dec. but telescope drifted N.															
21 5	1 36 W	+49 03	1	7.55	K1	3-3-3 Bin. transparency improving.															
22 17	2 08 W	+25 41	0-1	8.32	Ko	3-3-3 AG 25															
23 5	2 01 W	+26 57	0	7.65	Ko	3-3-3 AG 25															
24 5	1 03 W	27 44	0	7.44	Go	3-3-3 AG 25															
				8.02	G5	Check this star! Couldn't be sure of it.															
25 1	1 57 W	24 54	0	8.26	G5	3-3-3 AG 25 Haze, sky thickening from 4.00 on. star gone at 4.50															
						10/7															
						As <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Oct. 30</td> <td>-1^m 08.2</td> <td>+12.5</td> <td>-30.2</td> <td>+0.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>rust</td> <td></td> </tr> </table>		MC	SC	MTW	STW	Oct. 30	-1 ^m 08.2	+12.5	-30.2	+0.1				rust	
	MC	SC	MTW	STW																	
Oct. 30	-1 ^m 08.2	+12.5	-30.2	+0.1																	
			rust																		

Date 1946 Thursday October 31 - Nov 1 H-N-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13042	HD 111	00 00.9	+27 43	I-25	F103a-0	008	15.0*	22 ¹⁹ / 19	23 49	4
13043	10588 AG. 1699	01 38.2	+31 43	"	"	"	12.7	23 ⁵⁴ / 54	00 50	1
13044	21451 AG. 26276	03 22.4	25 56	"	"	"	13.2	00 55	03 09	3
13045	37956 AG. 3615	05 37.1	29 10	"	"	"	12.1	03 14	04 22	1
13046	51101	06 50.9	24 47	"	"	"	12.0	04 ²⁷ / 27	05 55	4

Focus Test

Saturday, November 2-3, 1946, Overcast all day with rain. Clearing 2310 with west wind. Clear 2330. Heavy arrival. Thickening 0015 with east wind. Solid 0100. Hopeless 0200, very strong east wind. W.

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Intermittently clearing + filling in from 20⁰⁰
 opened up 21³⁰. Clouded over.
 Cassagrainian focussing failed - put on substitute belt.
 Focus 23.56

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 ⁴⁰	2 07 W	+27 58	0-1	8.02	K2	3-3-3 AG 25 Cloud over star at start. <i>Focus start + reset focus</i>
00 ⁵	1 30 W	31 56	0	7.20	G5	3-3-3 Binary 23.58 *was this missed? 713.0?
0 ³⁰	2 06 W	26 05	0-1	8.65	K0	3-3-3 AG 25 Temp. dropped from 13.4 to 13.1 while looking <i>at it</i>
04 ²	1 04 W	29 09	0-1	7.56	K0	3-3-3 AG 25 <i>for</i>
05 ⁵⁵	1 24 W	24 42	0	7.73	G5	3-3-3 AG 25 Haze star gone 05.55 <i>HAZE THICKENED SUDDENLY. 4:50 STAR HARDLY VISIBLE. WIND SHIFT QUICKLY TO N.W.</i>
		O.T.B.				^{10/7} 4 PHS loaded, 4 plates in train. Heat on M

Date *Monday Apr 4.5/46* L-W Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Star Angle End
13047	H.D. 197207	20 37.2	29 49	I-25	E103a-O	^{set} .008	+12.5	18 34	19 34	1
13048	AG 2844 H.D. 33525	05 06.2	26 21	I-25	E103aO	.008	+12.2	02 33	04 23	2
13049	AG 3792 54825	07 05.3	26 34	"	"	"	12.3	04 27	05 45	3
13050	AG 4529 71093	08 20.4	28 14	"	"	"	12.3	05 48	06 36	4
	<i>Trans Test</i>									

Focus set at 23.58

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19.7		29 58	0	8.12 G5	Start delayed when relay on temperature control stuck. Further delay when clouds drifted over after setting. Got 10 mins. of clear sky then broken clouds rest of exp. Sky quite thick at 19.34. Raining lightly at 22.30. Strong gusty NW winds, heavy cumulus clouds to c. 115-30. Focus 23.57
02.58	1 53 W	26 24	0	8.11 G5	3-3-3 Still quite windy. some clouds. A.G. 85
3.58	1 15 W	26 29	0	7.71 K0	3-3-3 A.G. 25 passing clouds.
04.15	0 41 W	27 04	0	7.05 K2	3-3-3 A.G. 25 passing clouds.
		O.T.D.			10/7 + P.H. loaded. No plates in camera. Heat on M.
Tues	Nov 5-6	Hd.			A-Cu clouds continuously 1800 - 2305.

See previous page for *Ad. s.* comment. - Rain 2330 -
 Clear 0106, clear on arrival, then more cumulus
 clouds from N. Continuing until 0300.

112

focus 23 68

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
2543	22 23 W	26 32 0		8.54 Ke	3-3-3 AG 25 fine															
2525	20 45 W	28 03 0-1		7.05 K2	3-3-3 seeing improving rapidly strong															
		O.T.B.			10/7 2 P.H.s. loaded, full box of plates in dome. Heat on M.															
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Nov. 6</td> <td>-1^m 14^s</td> <td>+05^s.4</td> <td>+10^s.2</td> <td>+0^m.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>rest</td> </tr> </table>		MC	SC	MTW	STW	Nov. 6	-1 ^m 14 ^s	+05 ^s .4	+10 ^s .2	+0 ^m .1					rest
	MC	SC	MTW	STW																
Nov. 6	-1 ^m 14 ^s	+05 ^s .4	+10 ^s .2	+0 ^m .1																
				rest																

same no. as previous plate

Date *Wed. Nov 6-7/46* L.W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13052	HD. 197207	20 37.2	29 49	T-25	E-103a0	Set 008	11.2	18 00	20 00	3
13053	214265	22 31.9	27 16	"	"	"	11.0	20 05	21 55	4
13054	3264	00 30.7	48 00	"	"	"	11.1	22 00	23 39	1
13055	8300	01 17.2	26 03	"	"	"	11.0	22 53	00 43	2
13056	AG 1747									
	22269	03 30.0	27 16	"	"	"	11.0	00 48	01 56	3
	AG 2249									
13057	31781	04 53.5	26 06	"	"	"				
	AG 2255									
	31567	04 54.2	25 00	"	"	"	11.1	03 06	04 04	1
13058	AG 3615									
	51101	06 50.9	24 47	"	"	"	11.1	04 07	04 50	2
<i>Focus Test</i>										
<i>TUES, Nov 12-13/46 Wm - N</i>										
13058F							+6.7	Focus Set AT		

Date *Thurs Nov 14-15, 1946* Wm - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	P.A.	Hour Angle End
13 059	AG 10771 HD 190228	19 ^h 55 ^m .9	+28°02'	I-25	E 103a-0	SL7 00B	+6.0	17 ^h 51 ^m	19 ^h 05 ^m	2	25
13 060	AG 13173 HD 200858	22 ^h 01 ^m .3	+27°29'	"	"	"	+6.0	19 ^h 18 ^m	20 ^h 32 ^m	3	45
13 061	AG 14203 HD 2228391	23 ^h 35 ^m .0	+26°17'	"	"	"	+6.0	20 ^h 38 ^m	21 ^h 52 ^m	4	31
13 062	AG 152 HD 1365	00 ^h 41 ^m .1	+30°25'	"	"	"	+5.9	22 ^h 00 ^m	23 ^h 14 ^m	1	4
13 063	AG 150 HD 1372	00 ^h 41 ^m .0	+30°24'	"	"	"	+5.9	23 ^h 20 ^m	0044	2	11
13 064	AG 2023 66710	04 08.4	26 00	"	"	"	5.9	0049	02 02	3	51
13 065	AG 2603 55582	05 39.5	29 13	"	"	"	5.9	02 07	04 13	4	33
13 066	AG 3846 67542	08 09.4	29 23	"	"	"	5.9	04 17	05 39	1	10
13 067	AG 4554 71730	08 23.8	24 41	"	"	"	5.8	05 34	06 34	2	10
	<i>Focus Test</i>										

Date Friday, November 15-16, 1946 17-2 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
13068	HD 192892	20 12.2	+26 11	I-25	E-103a-0	008	+4.5	17 33	19 03	3
13069	206889	21 40.0	+28 48	"	"	"	+4.4	19 05	20 35	4
13070	219418	23 10.5	+25 08	"	"	"	+4.5	20 37	21 29	1
13071	1501	00 14.1	+25 55	"	"	"	+4.4	21 31	23 11	2
13072	0 Gte	02 14.2	-03 26	"	"	"	+4.4	22 18	23 32	1
	"	"	"	"	"	"		23 32	23 43	
13073	HD 15212	02 50.3	+28 45	"	"	"	+4.3	23 45	00 31	2
13074	24768	03 51.2	25 00	"	"	"	+4.3	00 36	01 30	3
13075	44780	06 18.6	25 06	"	"	"	+4.3	02 41	03 45	4
	Focus Test					OTB				

Frame not changed 23.69 or 68 Vernier
15.385 micrometers

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21:22	2 09 W	+26 20	0	7.93 G5	3-3-3	AG 25 Field checked. watch $\frac{1}{2}$ min slow
21:25	2 13 W	+29 01	0-1	7.723 K0	3-3-3	AG 25 7.3 vis.
21:28	1 17 W	+25 22	0-1	7.44 K0	3-3-3	AG 25
21:32	2 15 W	+26 09	0-1	8.07 G0	3-3-3	AG 25 Light clouds much at time. + barely visible.
21:38	2 35 W	-03 14	0-1	11.1 V	4-4	4 $\frac{1}{2}$ vis. = 6.2 ft? clouds over region at start.
21:47	0 59 W	28 56	1	7.12 K0	3-3-3	AG 25
21:51	2 03 W	25 06	1	8.91 G5	3-3-3	AG 25 Some haze toward end.
21:55	0 46 W	25 03	1	7.22 K0	3-3-3	AG 25 Broken clouds from 03.15 on.
					10-7	They filling in. Closed at 4.30. They thick.

Date Sunday, November 16-17, 1946 ¹⁷⁻¹⁶ 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
13076	HD 202451	20 58.4	+26 06	I-25	E103a-0	009	+6.2	17 55	19 45	1 23V
13077	218880	23 04.4	+29 31	"	"	"	+6.0	19 47	21 17	2 37V
13078	5705	00 53.2	+27 08	"	"	"	+6.0	21 19	22 49	3 22V
13079	12638	21 58.7	+25 27	"	"	"	+6.0	22 51	00 21	4 49W
13080	26081	01 02.6	25 38	"	"	"	+5.9	00 26	02 16	1 40W
13081F	Transit			OTB						

Heat not on mirror. Mirror had apparently been heavily fogged, but was rapidly clearing after shutters opened.

122

High wind.

Vernier 23.65 Lat -0.04:
 Micrometer 15.430 Last day +0.645

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
2 13 W	+26 19	0-1	8.57 K5	3-3-3	AG 25 - Heavy cloud over field during setting, dark															
1 37 W	+29 45	0-1	7.77 K0	3-3-3	AG 25 - 7.5 min															
1 22 V	+27 22	0-1	8.11 K0	3-3-3	AG 25 -															
1 49 W	+25 28	1	8.02 G5	3-3-3	AG 25 - seeing variable															
1 40 W	25 43	1	8.56 K0	3-3-3	AG 25 - Sky clouding over while setting on next star. Remaining quite thick. Close up at 04.30															
				10-7																
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Nov. 18</td> <td>-1 18.6</td> <td>+08.0</td> <td>+26.6</td> <td>0.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>next</td> </tr> </table>		MC	SC	MTW	STW	Nov. 18	-1 18.6	+08.0	+26.6	0.0					next
	MC	SC	MTW	STW																
Nov. 18	-1 18.6	+08.0	+26.6	0.0																
				next																

Thick haze until 0115 -
Clearing.

124

Perrier 23-44
Mic. 15-49%

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03:50	024 ^W	01 50	0-1	6.20 A5	3-3-3 BINARY
03:51	01W	25 05	1	7.22 K9	3-3-3 AG 25 Thick in E. + NE.
05:20	147W	26 48	1	7.24 G5	3-3-3 AG 25 HAZE INCREASING
05:40	045W	28 20	0	6.95 G0	3-3-3 AG 25 HAZE THICK. see page 0535
	O.T.B.				10/7
					3 P.Hz. loaded 8 plates in dome
					HAZE ON NE.

great.
1. work
1. work

no star spectrum

actual signal, 2 wires

Jocus 2370 - .04 - 23.66 - left as it was.

126

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 7 3	N 054	45 56.	2	5.2 B3e	3,3,3 still murky at first but improving.
19 30	W 239	36 47	2	7.7 B3e	3,3,3 Be Prog. Field checked.
20 03	W 145	27 29	2	8.19 KO	3,3,3 Vel. Prog. AG 25
				2.0 Boep	no photos at 1
		60 25			16 5
21 07	E 008				16 9
22 07	W 207	26 09	1	8.07 G0	3,3,3 ^{1 plate} Vel. prog AG 25 ^{B9} sky seems murky again.
23 37	W 131	31 54	1-2	7.20 G5	3,3,3 Bin. Temp controlled re-set.
00 5	141 W	30 02	2	7.64 G5	3,3,3
01 15	103 E	01 50	2	6.20 A5	5-4, BINARY
03 42	2.25 W	25 04	2	8.64 G5	3,3,3 AG 25
05 11	1 31 W	26 15	2	8.28 G0	3-3-3 AG 25
05 50	C 39 W	25 02	2-1-0	8.01 G0	3-6 AG 25 HAZE + THICK FOG. RATHER SUDDENLY.
	O.T.B.				1/7 I.P.H. LOADED 18 PLATE 1 IN DUBIE HEAT M.
					Nov. 20 ^{MC} -1 ^m 24.2 ^{SC} +07.9 ^{MTW} -19.2 ^{STW} +0.1 adv. 1 min.

Note spectrum paper
 Temp going up.

Date Wednesday, Apr. 20-21, 1946 L-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13096	HD. 208951	21 54.7	30 03	T-25	E 103a 0	Set 008	+6.9	17 50	19 24	1 47W
13097	' 216465	22 48.0	28 54	"	"	"	+6.9	19 08	20 48	2 37W
13098	3252	00 30.6	28 32	"	"	"	+6.9	20 52	22 33	3 45W
13099	10588	01 38.2	31 43	"	"	"	+6.9	22 42	23 12	4 11W
13100	19165	02 59.9	27 18	"	"	"	+6.9	23 46	01 02	1 02W
13101	40372 AG 2663	05 53.2	01 49	"	"	"	+7.1	01 09	01 25	2 05E
13102	32585	05 35.5	29 13	"	"	"	+7.	01 30	02 03	3 05E

Focus Test

Apr 21 Clouds breaking up late afternoon, heavy
 banks at sunset. Broken clouds until about 21 15
 when sky cleared with a strong NW wind. Opened
 up and was focussing telescope when star peaked
 out. Nice clouds! Closed at 23.00 sky thick!

Focus. Vermeer - 23.623 = Tap. -.06

128

Mic. - 15.457

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS															
2:30	47W	30 15	2	8.07 Ke	3-3-3 A.G. 25	Some haze															
2:45	37W	29 08	2	8.49 Go	3-3-3 A.G. 25																
2:58	45W	28 47	2	8.62 G5	3-3-3 A.G. 25																
3:24	11W	31 55	2	7.20 G5	3-3-3 Binary																
0100	140W	27 28	2-1-2	8.49 Go	3-3-3 A.G. 25																
0105	050E	01 50	2	6.20 A5	5-4																
0110	005W	29 13	2-1	8.70 G0	3-	Very heavy fog, becoming worse, seeing getting poorer. Star gone C203. temporarily closed. - 10/7															
		O.T.B.																			
						4 P.Hs. LOADED. 2 PLATES IN DOME HEAT ON M. Heavy fog increased suddenly and all stars disappeared. Closed at 2532. Clearing somewhat but small depths.															
						<table border="1"> <thead> <tr> <th></th> <th>MC</th> <th>SC</th> <th>MTW</th> <th>STW</th> </tr> </thead> <tbody> <tr> <td>Nov. 25</td> <td>-126.3</td> <td>+06.9</td> <td>+08.2</td> <td>+0.1^m</td> </tr> <tr> <td>Nov. 27</td> <td>-127.2</td> <td>+06.7</td> <td>+15.8</td> <td>+0.4</td> </tr> </tbody> </table>		MC	SC	MTW	STW	Nov. 25	-126.3	+06.9	+08.2	+0.1 ^m	Nov. 27	-127.2	+06.7	+15.8	+0.4
	MC	SC	MTW	STW																	
Nov. 25	-126.3	+06.9	+08.2	+0.1 ^m																	
Nov. 27	-127.2	+06.7	+15.8	+0.4																	

Focus set 23.72 = tab - 08
 ms. 15.350

130

N.B. One of upper cables hanging loose. Opened very cautiously.
 Only much of day. Partly cloudy at dusk. Strong wind + scattered clouds. Dome temp +14

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
				6.8 Ave	MWC 397 Clouded over + started to snow while setting on this 19 ¹⁵ . Cloud shutters. Closed at 22 ⁰⁰ very thick. Light snow. Temp +12 in dome															
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Dec 2</td> <td>-1.276</td> <td>+06.4</td> <td>-25.2</td> <td>-0.7^{my}</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2">(Advanced 1 min)</td> </tr> </table>		MC	SC	MTW	STW	Dec 2	-1.276	+06.4	-25.2	-0.7 ^{my}				(Advanced 1 min)	
	MC	SC	MTW	STW																
Dec 2	-1.276	+06.4	-25.2	-0.7 ^{my}																
			(Advanced 1 min)																	

Date Monday Dec. 2-3/46 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.
13103	MWC. 317 HD 183143	19 23.0	18 05	I-25	E-103a-O	set .008	-7.5	18 20	19 30.4
13104	" 213389	22 25.9	48 51	"	"	"	-7.5	19 43	20 53.1
13105	MWC. 397 " 218393	23 02.6	49 40	"	"	"	-7.5	21 03	21 35.2
	Focus Test					OTB			
Wed. Dec. 4/46									
13105 F	Focus Test			I-25	E-103a-O	set .008	-0.2		
	"					"	-0.2		
	"					"	-0.2		
Wed Dec 4-5/46. Sit twice but clouded out each time. Thick later. Trouble with focusing Cas. Hd. Overcast remainder of night. W.									

Focus - Vermin 23.75 = Tab - .07

Mic. 15.33

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Clouds at sunset, delayed starting
10 39	04 32W	18 09	0	6.9 Bossen	3-3-3 Be Prog. Seeing poor!
20 53	2 57W	49 09	0	7.55 K ₁	3-3-3 Binary Seeing better
21 58	2 57W	49 54	0-1	6.8 Ave	3-3-3 Be Prog. Some haze clouding over.
				10/7	Sky soiled until about 22.30 then breaking again with patches of clearer sky. Closed at 11.30.
					Thickened the cover -
				Micrometer reading - 15.318	10/7 set 0
				15.518	10/7 " 4
				15.418	10/7 " 10
Time					
				15.418 is substantially correct.	This is set according to trial cover.
					or Micrometer = 39.19 - Tabulated Vermin (slap)

Date Tuesday, Dec 10-11/46 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13107	HD. 10588	01 38.2	31 43	I-25	E-103 ^a 0	Set .008	+9.1	20 40	21 40	4
13108	{ .. 23141	03 37.7	26 04	"	"	"	+9.0	21 45	22 15	1
	{ Focus Test					O.T.B.				
13109	HD 40 372	05 53.2	+01 49	"	"	.008	+9.0	00 26	01 12	2
13110	AG 2606	05 25.6	+26 13	"	"	"	+8.9	00 53	03 07	3
13111	HD 67542	08 03.4	+29 23	"	"	"	+8.9	03 33	04 13	4
13112	HD 83807	09 35.8	+28°25'	"	"	"	+8.9	04 25	06 15	1
Developer D19 used for these plates, and following.										

Focus set at 15.538 Mic.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Rain all day. Clearing before sunset. Clouds at sunset and then clearing again later with a strong wind.
4-0	58W	31 55	0	7.20 G5 3-3-3	Strong wind image unsteady
5-1	34W	26 13	0	8.49 K0 3-3-3	AG.25 Some light clouds.
				10/7	
	0 ^E 19	+01 49	0	6.20 A5 3-3-3	SPEC BIN
03W	2 ^W 23	+16 17	0	8.30 M0 3-3-3	AG 25 Occasional light clouds
04-0	1 ^W 04	+29 15'	0	7.02 G0 3-3-3	"
	1 ^W 40	+29 11'	0	8.32 G0 3-3-	" EXPOSURE STOPPED BY CLOUDS FROM NW.

4 loaded PH's + 14 plates in dome
Heat on mirror

NOTE: All plates fogged

Developed plate from holder #1 and two plates from full box
Plate from holder #1 fogged, is ^{not in album} the rest of the plates from ^{the} box should
be developed.

Dec. 11 13^k MC
-1^s 27.6

SC
+07.6

MTW STW
-28.6 -0.2^m
reset.

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Focus Min. 15.485

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1034	131W	5925	0-1	8.2 Base 3-3-3	field checked. flipper in (June)
004.		4447	0-1	7.8 Base 3-3-3	" " flipper in (L. Hawk)
				10/7	clouds, clouds, sky
				Found flipper in when putting on focus test.	thick at 00.40. Breaking and partially clear later then filling in solid closed at 3.00

NOTE FLIPPER

Dec. 13 MC SC MTW STW
-1 28.0 +07.1 -19.0 +0.2^m

much trouble starting (H.W.M. Heli). Principally
^{dome. turning}
 frozen wheels. Fixed with sawing &
 alcohol.

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Focus set 15.340 from graph
 mic reads 23.73 (table = 23.85)

checked plunger in & flipped out

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:10	W 5 43	49 55	0	6.8 Ave 3,3,3	plunger for about 40 mins. I make good
00 29	4 20 W	31 58	0	7.20 G5 3,3,3	sky thick. slow motion buttons wouldn't move til. for 10 min.
01 44	1 20 W	01 49	0	6.20 A5 3.3.3 BINARY	I make fine
03 14	1 34 W	29 04	0-1	7.92 G0 3 3 3 AG 25	more trouble with 5 gm. buttons
05 55	2 06 W	26 28	0-1	7.93 K0 3-3-3 AG 25	some clouds. fine
07 10	1 02 W	24 18	1	8.05 K0 3 3 3 AG 25	good
	O.T.B.			10/17	focus OK

2 P.H.s. loaded 2 boxes of plates
 in house

Date *Thursday Dec 19-20/46* *W.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
<i>13125</i>	<i>HD 40 372</i>	<i>0553.2</i>	<i>01 49</i>	<i>I-25</i>	<i>K103a0</i>	<i>.008</i>	<i>-5.8</i>	<i>01 20</i>	<i>01 50</i>	<i>1 30 W</i>
	<i>62 285</i>	<i>07 38.1</i>	<i>26 01</i>	"	"	"				
<i>13126</i>	<i>63 433</i>	<i>07 40.8</i>	<i>27 37</i>	"	"	"	<i>-5.8</i>	<i>02 07</i>	<i>star gone</i> <i>02 23</i>	<i>11 W</i>
<i>13125-F</i>	<i>Focus Test</i>									

Focus 15.342

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 50	1 30W	01 49	0	6.20 A5	3-3-3 BINARY 1 week
				6.86 K5	no star, checked settings, is 1950 dec. OK?
0 11W	2.7 29	0		7.70 G03	large thickening out 10/7 center to right
	C.T.B.				

Closed 03 30 - thick
4 P.Hs. loaded, 16 plates in drawer

	MC	SC	MTW	STW
Dec. 20	-1 28.0	+08.5	-02.6	+0.4
23	-1 28.2	+08.0	-00.2	+0.2

Focus Set 15.432

Begin to clear about 2:1 hrs
still a little cloud at dusk

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
01 50	0 ^h 00	+25 53	0-1	6.8-6 Ks	3-3-3	
	1 35W	+26 47	0	7.24 Gs	3-3-X	Cloud beginning to interfere at 02 hrs. ^{focus test only} Blue dec of m. ^{to work} faint + lost 10 mins.
				7.71 Gs	10-7	much heavier cloud 2.20 (FOCUS OK)
						Only mags 1+2 visible at 300; star kept running off in dec about 1/2 or 2/3 radius of upper field, impossible to keep it on shot. Only about 15 mins actual exposure. Abandoned plate on acct. visibility, but could scarcely continue due to dec slipping.
						2 holders loaded 167 in drive.
						Both mirror location functioning, when opening up, but by lower one runs on.
						Measures now O.K. - L.
						Tues Dec 24 MC SC MTW STW -1 ^m 27.9 +08.4 ^s +02.7 ^s +0.4 ^m

Date 1946 Dec. 26-27 Thursday N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13128	MWC 397 HD 218 398	23 02.6	+49 46	1-25	E-103a-0	.008	-06.2	17 24	18 04	3
13129	222390	23 35.0	+26 59	"	"	"	-06.2	18 10	19 18	4
13130	10588	01 38.2	+31 43	"	"	"	-06.4	19 24		1
Sat Dec 28-29.										
Bad ice storm last night and this morning. Came up in afternoon when it cleared - chipped ice from lower rails but shutters still won't open account of upper rails. <i>llh.</i>										

Th Dec 26 MC SC MTW STW (stopped & reset)
 -1^m 27.9 +08.0^s +22.6^s 0.0^m 148

Focus 15.348 (micr.) (Vernier reads ~ 23.72)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
10:00	1 01 W	+49 53	0	6.8 AVR 3-3-3	
10:18	1 43 W	+27 13	0	7.43 Ko 3-3 3	AG 25
		+31 56		7.20 G5 3-	abandoned 19 40
					vwk, possibly measurable (numbered 13130) (but likely one good)
					Remaining solid. Closed up 22 ^h
					4 holders loaded + <u>11</u> plates (group of 3 released back in box)
					2 emulsion together, 1 emulsion in with separate
					Plates 13126-13130 incl. UNDERDEVELOPED

checked focus plunger in
flipped out.

Focus set for -11.5°C by extrapolation at 15.283


Vernier reads 23.81, ¹⁵⁰
(which is .10 less than tabular)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
18 47 1	W 2 00	49 53	0	6.8 AVR	3.3, 3 Be. Prog. ^{1-5 pm}
19 4 2	W 2 05	46 05	1-D	6.5 B3ne	3.3, 3 " " RA setting terribly slow! Remaining cloudy covered 20 40.
					Note: 13171 lagged - The plate, in fact, was from nearly opposite bearing in direction. But other plates in the box should be tested before more are used from it.
					Dec. 31 (WBEN) ^{MC} ^{SC} ^{R.I.N. watch} ^{SW} at 13 ^h Local C.T. $-1^{\text{m}}25.8$ $+08.5$ $+16.0$ -19.7 rust

Thin clouds all early evening. Clearer 22.15; Cleaned snow off top of telescope
 three spots of frost on mirror.

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Focus set (micr.) 15.320

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS															
22 50	0 17W	+01 48	0	6.20 A5	3-3-3	 faint. Clustered stars in H.D.															
				7.85 1 ^o		12.25 f. long cloud forming again towards end of exposure on 13.33. Not worth trying faint star 10/7 Had trouble removing plate holder from spectrograph. Trouble closing shutters. 1 holder loaded 12 plates in dome (box of 11, with note around it in refig) Heat on mirror															
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>Watch</td> <td>S.W</td> </tr> <tr> <td>Jan 3</td> <td>-1 24.6</td> <td>+10.7</td> <td>+16.2</td> <td>+09.9</td> </tr> <tr> <td>Sat Jan 4</td> <td>-1 23.7</td> <td>+11.8</td> <td>+24.8</td> <td>+24.5</td> </tr> </table>		MC	SC	Watch	S.W	Jan 3	-1 24.6	+10.7	+16.2	+09.9	Sat Jan 4	-1 23.7	+11.8	+24.8	+24.5
	MC	SC	Watch	S.W																	
Jan 3	-1 24.6	+10.7	+16.2	+09.9																	
Sat Jan 4	-1 23.7	+11.8	+24.8	+24.5																	

Date ⁷ 1944 Sat Jan 4-5 Ta/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13134	HD 218393	23 02.6	49 40	I-25	E10320	.008	-07.3	18 49	19 41	4
13135	10588	01 38.2	+31 43	"	"	"	-07.3	19 49	20 41	1
13136	(28477	04 24.5	-13 17	"	"	"	-07.3	20 51	21 21	2
13137	HD 40372	05 53.2	+01 49	"	"	"	-08.0	23 18	23 56	3
13138	47395	06 33.3	+28 21	"	"	"	-08.0	00 01	00 59	4
13139	56176	07 10.9	+26 53	"	"	"	-08.0	00 40	02 18	1
13140	76752	08 53.0	+25 48	"	"	"	-08.0	02 24	05 00	2
13141	111541	12 44.9	+26 58	"	"	"	-08.0	05 19	07 08	3
<i>Focus Test</i>										

Jan 15. 397

Cloudy to 03:15-30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
Star gmc 653	0 27 E	2704 0 O.T.B.	0	7.91 GO 3 3-3 10/7.	very strong wind from N.W. AG 25 cumulus clouds 0515, solid 0530. Very Weak										
					3 holders loaded 2 horses in dance.										
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Jan. 8</td> <td>-1^m23^s</td> <td>+13^s</td> <td>-29^s</td> <td>+0.1^m</td> </tr> </table>		MC	SC	MTW	STW	Jan. 8	-1 ^m 23 ^s	+13 ^s	-29 ^s	+0.1 ^m
	MC	SC	MTW	STW											
Jan. 8	-1 ^m 23 ^s	+13 ^s	-29 ^s	+0.1 ^m											

Date Wed Jan 8-9, 1947 Hd-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13143	H D 40372	05 53.2	01 49	I-25	E103aD	008	-3.9	22 45	23 15 4
13144	^{10 min} HD 45546	06 405	01 42 07 41 Jan 13.	"	"	"	-4.0	23 22	23 30 1
								23 31	23 39
								23 40	23 48
13145	"	"	"	"	"	"	-4.0	23 49	23 57 2
								23 58	00 06
								00 07	00 15

13146 F Focus Test

↑
should be
13145 F

Thurs. Jan 9-10 1947-L

Snow too much sensed then clearing later. Cleared off
shutter marks then opened. Still was opened on slit
when first clouds came over. Sky checked up
completely. Quite dark at 11.00

Checked plunger in
flipper out.

Focus 15.372
Vernier reads 23.69 (13 less than graph)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 15.4	N 13 ^m	+ 1 46	0!	6.20 A5 3,33	Binary. Brighter of pair.
23 20.1	27.2	- 4 48	0!	4.87 B3 5,5	set 1 β can mag type.
23 3 ^o				5,5	" 6
23 7.8				5,5	" 9
23 57.2			0!	5,5	set 1
23 36				5,5	" 6
23 5	N 0 44			5,5	" 9
			0!!!		Steam gear of beam stopped at 0006
	O.T.B.			10/7	Dome turns east OK. Set watch by clock.
					Apparently "just run down"
					Cloudy after we set on next star.
					Checked, set on 7.2 in AG 25, seeing so bad could hardly be seen on slit. Set on
					bright Binary - terrible. feet half images in brass eyepiece. - Many
					clouds drifting over, looks bad in N decided to close. HIC 23.0
					Close.
					4 #. LDRS LOADED
					MC SC MTW STW
					Jan 10 -1 022.2 +19.4 +22.2 +0.4

should
be 13146
etc.

Date *Sun Jan 12-13, 1947* *Hd*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
13147	<i>mwc 377</i> HD 218393	23 02.6	49 40	<i>i-25</i>	E10320	008	-5.0	17 56	19 16	1
13148	<i>mwc 68</i> HD 21650	03 24.6	41 25	"	"	"	-5.0	19 22	21 00	2
13149	<i>η aur</i> HD 32630	04 59.5	41 06	"	Process	"		21 24	22 04	1
							-5.0	22 04	22 22	03

Checked Plummer, flipper

Set focus 15.360 Vernier reads 23.71 ($\cdot 12 \leftarrow$ tabular)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 16 1	W 3 20	49 54	0!	6.8 ARE	3,3,3 Be prog.
21 00 2	W 0 40	41 30	0!	7.2 B57E	3,3,3 " " Sky thickening from SW.
22 07 1				3.11 B5	3,8 ^{no filters} set 1 Too thick for faint stars
22 20	W 0 30	41 08			8,8 set 6 Star almost gone.

Ref. N: Consider best developer for Process, please

	MC	SC	MTW	STW
Jan. 15	-120.9	+18.2	-22.2 ^s	-0.1 ^m

Date *Thurs, Jan 16-17, 1947* *Wm/W.* Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 150	HD 40 372	05 ^h 53 ^m 2	+10°49'	7-25	E103a-0	SET 008	-1.1	22 48	23 12	3 0 ^h 49'
13 151	HD 45 19A	06 ^h 21 ^m 0	+13°10'	"	"	"	-1.1	23 18	00 34	4 1 35'
13 152	675 42	08 03.4	+29 23	"	"	"	-1.2	00 44	01 44	1 1 33'
13 153 13 152 F	833 40	09 32.6	28 28	"	"	"	-1.2	01 58	03 04	2 0 55'
	<i>Focus Test</i>									

Checked:

Plunger in
Flipped outSet mic 15.41 (Vern 23.67, i.e. $\approx 12 \leftarrow$ tubular)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 12	0 ^W 42	+01° 47'	0!	6.20 A5 3-3-3	Binary prog. good
00 34	1 35 W	+13° 7'	0	7.09 F8 3-3-3	Binary prog. good
01 44	1 03 W	+29 15	0	7.02 G0 3-3-3 AG 25	VANE AT BRASS EYEPiece STUCK, SEEMINGLY FROZEN, ICE APPEARS THICK ON BOTTOM OF LENSE, \approx SOME NEAR CENTRE, LOTS OF REFLECTIONS. PREV. RAIN IN CELL DRIPPED DOWN? SET ON 83935, NO *. CHECKED CIRCLES OK. NO *. good
03 04	0 55 W O. T. B.	29 14	0 -	7.95 G0 3- 10/7	AG 25 HAZE, INCREASING, QUITE THICK, DECIDED TO CLOSE. fair
					4 P.H.s. LOADED. HEAT ON. +20 PLATES IN DEMO.
					NO impairment
					Jan-16 MC SC MTW TW -1202 +201 -130 +0 ^W

Date FRIDAY, JAN 17/18 Wm - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 153	MWC 397 HD 218 393	23 ^h 02 ^m .6	+49°40'	1-25	E1030-0	SET 008	-1.0	18 21	19 03	3 3 ^m 2 ^s
13 154	HD 13 747	02 ^h 05 ^m .9	+22°14'	"	"	"	-1.0	19 11	20 01	4 1 ^m 18 ^s
13 155	HD 23 257	03 ^h 38 ^m .6	+27°37'	"	"	"	-1.0	20 11	21 21	1 1 ^m 05 ^s
13 156	HD 37 800	05 ^h 36 ^m .1	+29°48'	"	"	"	-1.0	21 31	23 01	2 2 ^m 50 ^s
13 157	HD 44 780	06 ^h 18 ^m .6	+25°06'	"	"	"	-1.0	23 08	20 12	3 1 20 ^m
13158	" 63712	07 45.2	29 26	"	"	"	-1.0	00 20	02 40	7 2 21 ^m
13159	" 105771	12 05.4	29 37	"	"	"	-0.8	02 47	04 47	1 0 09 ^m
13160	121319	13 49.7	28 50	"	"	"	-0.6	04 53		2
13159F	Focus Test				O.T.B.					

CHECKED: Plunger-in
Flipper-out

SET FOCUS 15.405 (Micr)
Read 23.64 (vesniae; 14 c label on)

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	"	REMARKS
19 02	3 ^W 27	+49°53'	0	6.8 Ave	3-3-3	Be Prog WIND MAKE IMAGE
20 00	1 ^W 18	+28°25'	0	7.07 G5	3-3-3	AG Prog UNSTEADY.
21 01	1 ^W 08	+27°44'	0	7.44 G0	3-3-3	" "
23 01	0 ^W 50	+29°49'	0	7.77 G0	3-3-3	" "
00 02	1 20W	+25°04'	0	7.22 K0	3-3-3	" " [unsteady]
02 03	2 21W	29 17	0	8.05 G5	3-3-3	" " Wind stronger image <u>very</u>
04 47	0 09W	29 20	0-1	8.07 K0	3-3-3	" " <u>clouding</u>
		28 33	1	8.19 K0	3-	" " Sky clouding over suddenly just after start.
					10-7	

Date Saturday Jan 18 19, 1947 Hd-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13160	HD 32630 η Aur.	04 59.5	41 06	I-25	Pireus	008	-2.0	20 45	21 39 1	094
13161	HD 35708 114 Tau	05 21.6	21 51	"	E103a0	"	-2.3	21 45	21 55 2	104W
13160 again	HD 32630 η Aur	04 59.5	41 06	"	Pireus	"	-2.1	22 01	22 21 1	51W
13162	HD 40372 114 Tau	05 53.2	4 01 49	"	E103a0	"	-2.3	22 28	22 58 3	036W
13161 again	HD 35708 η Aur	05 21.6	21 51	"	E103a0	"	-2.3	23 03	23 13 2	121W
13160 again	HD 32630 114 Tau	04 59.5	41 06	"	Pireus	"	-2.4	23 17	23 35 1	205W
13161 again	HD 35708	05 21.6	21 51	"	E103a0	"	-2.3	23 40	23 50 2	58W
13163	HD 62285	07 38.1	26 01	"	"	"	-2.3	23 58	00 49 4	2W
13164 13163 F	HD 71730	08 23.8	24 41	"	"	"	-2.3	00 54		1
<i>Focus Test</i>										
<i>Sunday Jan 19 20, 47</i>										
<i>Very clear in afternoon, then cloudy at sunset. Clearing again about 7.30 P.M. and large and patches of clear sky. Then clearing again</i>										

Thick after sunset, clearing
paroxysmally after 1930.

Set focus 15.396
Vernier reads 23.67 (.13 less than tabular)

166

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 39.1	0 09 W	41 07	0!	3.11 B3	no filter ^{set 1} 8,8 β Can mag. Type. Clouds most of time.
21 55.2	0 04 W		0!	4.66 B3SK	1 filter 3,6 set 1 " Some clouds.
22 21	0 51 W	41 09	0!	3.11 B3	no filter 8,8 set 6 "
22 58.3	0 36 W	+1 49	0!	6.20 A5	1 filter 3,3,3
23 13	1 21 W	21 53	0	4.66 B3SK	5,5 set 6
23 35	2 05 W	41 10	0	3.11 B3	no filter 8,8 set 9
23 50	1 58 W	21 53	0	4.66 B3SK	1 filter 5,5 set 9
00 42	0 42 W	25 55	0	6.86 K5	3,3-3 HAZE light E. wind
		24 30	0	7.74 K0	3-3-3 AG. 2.5 considerable haze over horizon
		O.T.B.			10/7
3 P.Hs. LOADS + 8 IN Box					
HEAT ON M.					
(Clouds about 0130-45)					
Measurement about 1 1/2 hrs.					
"clouds get midnight"					
				MC	SC
Jan. 20	-01	19.2	+24.0	+02.0	+0.2
22	-01	18.8	+24.1	+13.2	+0.0
					reset

Date Wed Jan 22-23, 1946 ⁷ Hel-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13164	MWC 397 HD 218393	23 02.6	49 40	I-25	E103aO	008	-9.8	18 58	19 58	1
13165 a	η Aur HD 32630	04 59.5 05 21.6	41 06	"	Process	"	-9.8	20 09	20 25	1
13166 a	114 Tau HD 35708	05 21.6	21 51	"	E103aO	"	-9.8	20 31	20 41	3
13167 a	σ Ori HD 37468	05 33.7	-2 39	"	Process	"	-9.9	20 48	21 12	2
13165.b	η Aur HD 32630	04 59.5	41 06	"	"	"	-9.9	21 19	21 35	1
13166.b	114 Tau HD 35708	05 21.6	21 51	"	E103aO	"	-9.9	21 42	21 54	3
13167.b	σ Ori HD 37468	05 33.7	-2 39	"	Process	"	-9.8	22 01	22 31	2
13168	HD 40372	05 53.2	+01 49	"	E103aO	"	-9.9	22 37	23 07	4
13165.c	η Aur HD 32630	04 59.5	41 06	"	Process	"	-9.9	23 13	23 29	1
13166.c	114 Tau HD 35708	05 21.6	21 51	"	E103aO	"	-9.9	23 34	23 44	3
13169	HD 56176	17 10.9	26 53	"	"	"	-9.8	23 52	00 19	2
13170	HD 81505	09 20.9	26 48	"	"	"	-9.8	00 56	01 07	2
<i>Focus Test</i>										
<i>Thurs Jan 25-29 cloudy with snow flurries - L</i>										

Plunger in
flipped out.

Focus set 15.300 Vermeer heads 23.78
(.11 less than tabular)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 58	W 4 42	49 55	1	6.8 AVE	342 Be prog. no filter [set 10]
20 25	E 0 49	41 06	1	3.11 B3	8,8 (plan mag type) spotted with U-V 250W bulb, no filter, 6 min.
20 + 3	E 0 54	21 53	1	4.66 B3SK	1 filter 3,3,3 [set 11] (plan mag type)
21 12	E 0 35	-2 50	1	3.54 B0	no filter 8,8 [set 1]
21 16	W 0 21	41 06	1	3.11 B3	8,8 [set 6]
21 54	W 0 19		1	4.66 B3SK	1 filter 5,5 [set 6]
22 11	W 0 45	-2 40	0	3.54 B0	no filter 5,8 [set 6]
23 15	W 1 00	+1 51	0	6.20 A5	1 filter 3,3,3 Binary.
23 21	W 2 15	41 09	1-2	3.11 B3	no filter 8,8 [set 9]
23 24	W 2 07	21 58	1	4.66 B3SK	1 filter 5,5
23 41	12 41	26 48	1-2	7.24 G5	3;3-3 Vel. prog.
23 47	10 8 W	26 35	2-3	8.96 G5	3-3-3 AG 25. <i>Very good by standard</i> <i>Decided our standard of program!</i>
	O.T.B.				10/7 3 helms loaded + plates in box Test on M. RJK: Watch for process plates. Plates are in box in under of stand no. 246

Date Sunday, January 26-27, 1947 H-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13171	HD 40372	05 53.2	+01 49	I-25	E-10360	008	^{set} +3.5	21 25	22 09	4
13172	45194	06 21.0	+13 10	"	"	"	+3.3	22 12	23 32	1
13173	47415	06 33.4	+24 41	"	"	"	+3.4	23 34	00 50	2
13174	83935	09 36.6	+26 04	"	"	"	+3.3	00 54	02 30	3
<i>Focus Test</i>										4
Tues, Jan 28-29: slight haze at sunset; gradually thickening until completely overcast at 2130.										

Partly cloudy early evening.

Trans out ~~23.468~~
15?

Vernier 23.59 ± 0.13
170

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22 09	0 18 W	+01 49	0-1	6.20 A5	3-3-3	Naked's Binary, Intermittent haze at low altitudes
23 32	1 14 W	+13 08	0-1	7.09 F8	3-3-3	Binary Haze
00 56	2 19 W	+24 37	0-1	6.98 F8	3-3-3	Binary Haze
01 00	0 57 W	+25 51	1-0	7.81 K0	3-3-3	AG. 25 CLOUDS YES CLOSE 0225 ? HAZE, - INCREASING - CLOUD BANK OVER W. HORIZON 0200 SUPERIMPOSED
		C.T.B.			10/7	
3 P.H.s. LOADED, BOX PLATES NEEDED IN DOME.						
HEAT ON M.						
				MC	SC	MTW STW
				Jan. 27 -1 17.4	+27.3	-27.2 -0.4 adv. 1 min.
				31 -1 16.0	+30.0	-17.8 -0.3

clearing suddenly at sunset.

172

checked Plunger + Flipper Focus at 15.377 Vernier reads 23.71 = Tab. - .11

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 3		-2 39	0	3.54 B0	no filters 8.8 set 1 β Can maj type. weak
20 30			0		8.8 set 6 spots 6 min with UV bulb and
21 00			0		8.8 set 9 no filter (but hatch closed).
21 15			1		8.8 set 1. weak
22 00	W 55 ^m		1		8.8 set 6
22 42.1	W1 19	+1 50	1	6.20 A5	1 filter 3.35 Madem's Binary (looks faint!) good
23 2	W2 50	41 10	1	3.11 B3	no filter 8.8 set 1 β Can maj type - clouds. fine
23 40.2	W2 47	21 54	1	4.66 B3SK	no filter 3.33 set 1 " " " " fine
<p>Clear coming over around midnight clearing again later but sky slowly filling in with haze. The clearing steadily. Closed out 2:00 L</p> <p>Rgn: Process plates one together near the "far" end. J.H.S.</p>					
<p style="text-align: center;"> ME SC MTV STW Feb 3 -01 14 8 +31 7 -11 5 +0.1 </p>					

W.

Date Tuesday February 4-5, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13180	HD 28476	1007.1	+28 44	I-25	E 103.0	.008	-10.3	01 00	03 52
13181	114093	1303.2	25 21	"	"	"	-10.2	04 00	06 40

Focus Test

Wed. 5-6. Clouds and light snow after sunset. Clearing about 7:00. Went over and got ready to start. Clouds rolling in out of the west. Waited then clearing later for all space. However sky thickened up again from 8:30 to 9:00. Snowing later.

Friday, February 7-8, 1947 H-W Cloudy at dark. Gradually clearing early morning. Clouds that hang on 21⁴⁰ on. A crop of

Plunger in.
Flipper out.

R.A. BUTTONS NOT OPERATING
FOR SOMETIME, THEN SLOWLY,
THEN MORE QUICKLY WITH
A WOWING NOISE.

Focus - Mic. 15.287
Bar 23.76

174

DOME TEMP ± 0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0352	2 23 W	28 30	0	7.55 G5	3-3-3 seeing poor, awful poor at times. star hardly visible
0640	2 16 W	25 06	0	7.12 K0	3-3-3 seeing poor. Cloudy in W. 0530. THICKENING. * 10/7 pass — focus switch to violet
		O.T.B.			3 HOLDERS LOADED HEAT ON MIRROR
					* measure when shift at 9 spots with smaller banding of stars. Use field
					Feb. 5 MC SC MTW STW -01 14.3 -32.5 -00.8 +0.3
					Thursday Feb. 5-6/57 Overcast through evening with snow that has occurred 11 P.M.
					W. Sat Feb 7-7 H.C. Becoming cloudy at sunset. Then snow. Some stars in zenith at 2100. no better at 2200.
					spalls earlier but (a) road blocked (b) recent frost

Focus Mic. 15.405

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
19 53	3 20W	31 54	0	7.20 G5	3-3-3 ^{spot in 1} Seeing vile! l work										
20 48	0 00	01 49	0	6.20 A5	3-3-3 Binary fine										
22 59	2 10W	25 47	0	7.85 K0	3-3-3 AG.25 Seeing much improved fine										
01 56	2 19W	28 52	0.1	7.78 G5	3-3-3 AG.25 fine										
03 22	2 17W	26 07	0-1	8.02 G0	3-3-3 A.G.25 strong										
04 5	0 13E	26 57	1	7.30 K0	3-3-3 AG.25 Clouding over suddenly work at 4.15										
				10-7											
					<u>note slightly red</u>										
					<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">MC</td> <td style="text-align: center;">SC</td> <td style="text-align: center;">MTW</td> <td style="text-align: center;">STW</td> </tr> <tr> <td style="text-align: center;">Feb. 12</td> <td style="text-align: center;">-01 13.0</td> <td style="text-align: center;">+35 4</td> <td style="text-align: center;">+27.2</td> <td style="text-align: center;">+0.8</td> </tr> </table>		MC	SC	MTW	STW	Feb. 12	-01 13.0	+35 4	+27.2	+0.8
	MC	SC	MTW	STW											
Feb. 12	-01 13.0	+35 4	+27.2	+0.8											

Date *Wed Feb 12-13, 1947, Hd. - W.* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13188	HD 10588	01 38.2	31 43	I-25	E103aD	008	-1.9	18 27.	19 27 4	2 5
13189 a	50 μ HD 37468	05 33.7	-2 39	"	Process.	"	-2.0	19 35	20 05 1	
							-1.9	20 05	20 35	
							-2.0	20 35	21 11	4
13190 a	10 μ man HD 45546	06 23.0	-4 42	"	E103aD	"		21 17	21 23 3	
							-2.0	21 25	21 35	0.2
13191 a	HD 32630 7 μ aur	04 59.5	41 06	"	Process	"	-2.0	21 45	22 05 2	
							-2.0	22 05	22 25	
							-2.0	22 25	22 45	2.54
13192 a	114 μ Tau HD 35708	05 21.6	21 51	"	E103aD	"	-2.0	22 56	23 00 3	
							-2.1	23 02	23 10	2.58
13193	HD 63433	07 43.8	27 37	"	"	"	-2.0	23 22	00 53 4	2.24 W
	HD 94336	10 48.8	26 44	"	"	"				
	<i>Focus Test</i>									

Checked plunger, flipper

Focus set 15.393. (Vernier reads 23.68 = Tab - 12)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 27 4	W 2 57	31 57	1-2	7.20 G5	3,3,3 Binary
20 05 1		-2 40	2	3.54 B0	no filter set 1 β can mag. type.
20 35			2		8,8 set 6.
	W 0 47		2		8,8 set 9
21 23 3			3	4.81 B3	filter set 1
21 35	W 0 21	-4 45	3		5,5 set 6
22 05 2		41 10	3	3.11 B3	no filter set 1.
22 05			3		8,8 set 6
22 44	W 2 54		3		8,8 set 9
23 00 3		21 53	2	4.66 B3sk	filter set 1 Trouble: RA clamp not working.
23 10	W 2 58		2		5,5 set 6 Haze.
23 24	W 2 24	27 30	2-	7.70 G0	3,3,3 Vel. Prog. - AG 25
				8.12 M0	Clouded suddenly for a while with temporary star, waited till 23:50
				R.T.B. 10/7 (on 13198)	R.J.H. Process plates are in middle
					4 P.H.s. HEATED HEAT ON M. of box.
					GERRY, LOOK AT RA CLAMP. CLAMPING "BY HAND"

Date *Thursday, Feb 13-14 1947* L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13194	HD. 40372	05 53.2	01 49	I - 25	E-103a-D	^{set} .008	+ 0.3	21 47	22 27
13195	" 63410	07 43.7	26 31	"	"	"	+ 0.3	22 35	00 13
13196	" 90009	10 18.2	26 04	"	"	"	+ 0.7	00 20	01 54
13197	105771	12 05.4	29 37	"	"	"	+ 0.7	02 00	02 40
		<i>Focus Test</i>							

Focus Mic. - 15.427

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Hazy and broken clouds early in evening, reasonably clear at 9.00
22 27	147 W	01 48	0	620 A5 3-3-3	Binary
00 30	143 W	26 23	1	7.71 G5 3-3-3	A.G. 25
01 54	1050 W	25 50	1	7.63 K0 3-3-3	A.G. 25
02 40	211 E	29 20	1	8.07 K0 3-3-3	A.G. 25 THICKENING.
	O.T.B.			10/7	

WIND IN S.W., HAZE FROM SAME DIRECTION. 02 20

WAITED TILL 0415 - SOLID
4 P.H.S. LOADED HEAT ON M.

Date Sunday Feb 16-17, 1947 HD, 1/2, 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.	PH
13198a	^{5 Ori} HD 37468	05 33.7	-2 39	I-25	Process	008	-2.1	19 02	19 56	1
b	"	"	"	"	"	"	-2.0	19 56	20 50	
13199	HD 40372	05 53.2	+1 49	"	E103a0	"	-2.0	20 54	21 26	2
13200	^{10 Mon} HD 45546	06 23.0	-4 42	"	"	"	-2.1	21 30	21 42	3
13201	^{114 Tau} HD 35708	05 21.6	21 51	"	"	"	-2.1	21 54	22 04	4
13202	^{gamma Aur} HD 32630	04 59.5	41 06	"	Process	"	-2.1	21 ²² 18	21 ²² 38	2
13203	HD 63433	07 43.8	27 37	"	E103a0	"	-2.2	21 ²² 50	00 40	1
13204	" 89557	10 15.0	29 27	"	"	"	-2.2	00 48	02 58	2
13205	" 108466	12 22.6	28 40	"	"	"	-2.3	03 06	05 16	3
13206	" 125728	14 16.2	26 31	"	"	"	-2.3	05 22	06 29	4
	<i>From Tent</i>					O.T.B.				

Checked Plunger in
Flipper out

Set Focus 15.393
meter reads 23.69 (tab - 0.11)
Jernier.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 50		-2 40.	0	3.54 B ₀	no filter 8, 8 set 1 β C _m type RA clamp not working
20 50	W 40 ^{2m}		0	3.54 B ₀	8, 8 set 6 ..
21 26	W 56	+ 1 50	0	6.20 A ₅	1 filter 3, 3, 3 Binary
21 42	W 44	- 4 45	0	4.81 B ₃	5 5 β C _m type.
22 05	W 2 07	21 53	0	4.66 B _{33k}	5, 5 " Trouble with hand clamping - loose gear assembly.
22 38	W 3 02	41 10	0	3.11 B ₃	no filters 8, 8. "
00 40	2 21 W	27 29	0	7.70 G ₀	3, 3, 3 Vel. star.
02 55	2 08 W	29 11	0-1	7.95 K ₀	3-3-3 A.G. 25
05 6	2 20 W	28 22	0-1	7.93 K ₀	3-3-3 A.G. 25
06 2	1 38 W	26 18	0-1	7.21 K ₀	3-3-3 A.G. 25

10/7

	MC	SC	MTW	STW
Mon. Feb. 17	-01 10.9	+39.2	+15.8	+0.1

Tue. Feb. 18-19 Partly cloudy in afternoon.

Heavy clouds in W. sunset clearing 06 30.

(WATCH MOVED 10 54)
Sunset 07 30. Some snow during evening.

Clear 02 04. Partly cloudy 03 00. Clouds 04 30. W.

Date *Wednesday Feb. 19-20 1947* L-W Julian Day

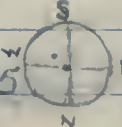
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
13207	H.D. 40372	05 532	01 49	T-25	E-103i0	^{set} .008	-4.7	19 43	20 23	1
13207F	" 40460	05 538	27 17	"	"	"	-4.7	20 27		2
	<i>Focus 1st</i>					<i>O.T.B.</i>				
13208	H.D. 90861	10 24.3	29 05	"	"	.008	-4.8	00 38		
									STAR GONE	03 06

Friday Feb 21-22 1947 H

Cloudy at dusk. Slowly thinning out & then reclouding. High wind and some flurries. Usually about 2nd or 3rd very much, but never really clear. Left 23⁰⁰ - still haze & wind, but thinner than earlier. No

Arrived 0000, still some haze & wind. 0130 windier, hazier, getting worse.

Feb. 19 MC -10.0 SC +40.6 MTW (RTN) +11.0 S.W. +07.6 184
 Howe Mee. - 15.365

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS																														
20 23	0 06 W	1 51	0	6.20 A5	3-3-3 Binary Clouds at sunset delayed opening																														
		27 17	0	8.02 K0	3- A.G. 25 10/7 Clouding over suddenly at 20.45. Waited clearing again about 11.15 with some clouds.																														
20 25	2 19 W	28 49	0	7.54 K0	3-3-3 A.G. 25  FINDER. CLEAR. HAZE, THICKENING.																														
					WAITED TILL 0400 - SOLID HEAT ON M. 4 PHs. LOADED + 1 Box																														
					Thu. 20-21 Thick haze all night.																														
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>Standard</td> <td>SW</td> </tr> <tr> <td>Feb. 21</td> <td>-1 07.3</td> <td>+42.2</td> <td>Water</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>-24.0</td> <td>+36.5</td> </tr> <tr> <td></td> <td></td> <td></td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Feb. 24</td> <td>-1 09.2</td> <td>+53.1 ?</td> <td>+10.8</td> <td>+0.3</td> </tr> <tr> <td></td> <td></td> <td></td> <td>rest</td> <td></td> </tr> </table>		MC	SC	Standard	SW	Feb. 21	-1 07.3	+42.2	Water					-24.0	+36.5				MTW	STW	Feb. 24	-1 09.2	+53.1 ?	+10.8	+0.3				rest	
	MC	SC	Standard	SW																															
Feb. 21	-1 07.3	+42.2	Water																																
			-24.0	+36.5																															
			MTW	STW																															
Feb. 24	-1 09.2	+53.1 ?	+10.8	+0.3																															
			rest																																

Focus Mic. 15.435

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
					Clouds coming over after sunset, then clearing, with bank in N.E.															
20 43	1 26 W	01 50	0	6.20 A5	3-3-3 Binary 10/7															
					Heavy clouds, star <i>fine</i> gone at 20 48. Sky remaining mostly cloudy although clear at times.															
					<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>nc</td> <td>sc</td> <td colspan="2" style="border-top: 1px solid black;"></td> </tr> <tr> <td>March 7</td> <td>-1 06 0</td> <td>+0 48 8</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td></td> <td></td> <td></td> <td>+27.2</td> <td>+0.6</td> </tr> </table>		nc	sc			March 7	-1 06 0	+0 48 8	MTW	STW				+27.2	+0.6
	nc	sc																		
March 7	-1 06 0	+0 48 8	MTW	STW																
			+27.2	+0.6																

Focus set 15.409

cloudy until 19.30.

196

checked Plunger, flipper.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS															
20 39	W 1 30	+1 50	0	6.20 A5	3, 3, 3, Vadeau's Primary															
21 7	W 3 01	41 10	0	3.11 B3	no filter 8, 8 Blandmaj type															
21 34	W 2 56	21 54	0	4.66 B3sk	meter. 5, 5 " " " " Cloudy at end.															
				10/7	Key remaining thick, closed at 02.00 L															
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HTW</td> <td>STW</td> </tr> <tr> <td>11/11/10</td> <td>-104^s0</td> <td>+49.9</td> <td>-13.8</td> <td>-0.2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>adir 1 min</td> <td></td> </tr> </table>		MC	SC	HTW	STW	11/11/10	-104 ^s 0	+49.9	-13.8	-0.2				adir 1 min	
	MC	SC	HTW	STW																
11/11/10	-104 ^s 0	+49.9	-13.8	-0.2																
			adir 1 min																	

Date *June 11.12.47* L-Nd 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
13216	^{5 Ori} H.D. 37468	05 33.7	-02 39	I-25	E-103 ₃₀ D	set 008	+05.0	19 02	19 07 3	284
13217	^{10^h Mus} H.D. 43546	06 23.0	-04 42	"	"	"	+05.0	19 17	19 29 4	01W
13218	H.D. 40372	05 53.2	01 49	"	"	"	+05.0	19 36	20 18 1	20W
13219	^{3 Aur} H.D. 32630	04 59.5	4 06	"	Process	"	+05.0	20 35	21 23 2	317W
13220	^{14 Tau} H.D. 35708	05 21.6	21 51	"	E-103 ₃₀ D	"	+05.0	21 42	21 48 3	321W
13221	H.D. 77313	08 56.7	26 16	"	"	"	+05.0	22 07	00 13 1	212W
13222	H.D. 95725	10 57.8	29 29	"	"	"	+04.9	00 22	02 04 2	201W
13223	{ H.D. 113771 Focus Int	13 00.9	27 07	"	"	"	+05.0	02 10	04 00 3	01W
						O.T.B.				

focus setting ?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 07	0 28W	-02 38	0	3.54 B ₀	4 $\frac{1}{2}$ -4 $\frac{1}{2}$ Be Prog
19 29	0 01W	-04 45	0	4.81 B ₃	3-3-3 " "
20 8	1 20W	+01 50	0	6.20 A ₅	3-3-3 Binary
21 23	3 17W	41 09	0-1	3.11 B ₃	^{no filter} 5-5-5 Be Prog.
21 46	3 21W	21 53	1	4.66 B _{35k}	4 $\frac{1}{2}$ -4 $\frac{1}{2}$ " "
20 13	2 12W	26 04	1	8.00 K ₀	3-3-3 A.G. 25
22 04	2 01W	29 13	1	7.79 K ₀	3-3-3 " "
01 30	1 35W	26 52	1-2	7.93 K ₀	3-3-3 " "
					10/7

Me SC NTW STW
 Mar 12 -1 03.6 +49.7 -04.0 +0.2

focus ok

Date Wed Mar 12-13, 1947 Hol, Yuc / W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13224	^{0 Ori} HD 37468	05 33.7	-2 39	I-25	E-103a	008	+5.9	19 07	19 13 4	0 37
13225	^{10 Mon} HD 45546	06 23.0	-4 42	I-25	"	"	+6.1	19 23	19 35 1	0 10
13226	HD 40372	05 53.2	+01 49	"	"	"	+6.0	19 43	20 23 2	0 33
13227	^{7 Aur.} HD 32630	04 59.5	+41 06	"	Procur	"	+6.0	20 35	21 15 3	0 15
13228	^{114 Tan} HD 35708	05 21.6	+21 51	"	E-103a	"	+6.0	21 24	21 30 2	0 08
13229	HD 67542	08 06.5	+29 23	"	"	"	+6.0	21 53	22 53 4	0 17
13230	HD 88476	10 07.1	+28 44	"	"	"	+6.0	23 00	00 38	0 0
13231	HD 111285	12 43.1	+24 39	"	"	"	+6.0	00 45	03 13	0 0
13232	HD 103460	14 59.5	+76 25	"	"	"	+05.8	03 18	04 14	0 0
	<i>Focus Test</i>									

Checked plunger + flepper.

Focus set 15.499


194

mic. reads 23.55 (= tab - .14)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 13 L	0 37 W	-2 38	0	3.54 B ₀	5, 5- (3.5 mm mag type)
19 25 1	0 10 W	-4 42	"	4.81 B ₃	5, 5- " " " "
20 32	0 33 W	+1 52	"	6.20 A ₅	3, 3, 3 Hubble's Primary
21 15	3 15 W	+41 08	"	3.11 B ₃	8, 8 (3.5 mm mag type)
21 30 2	3 08 W	+21 52	1	4.66	5, 5 " " " "
22 53 4	1 47 W	+29 12	"	7.02 G ₀	3, 3, 3 Velocity Prog.
00 21	1 30 W	+28 27	"	7.55 G ₅	3, 3, 3 AG 25 NO AURORA.
03 13	1 30 W	+24 21	1-0	7.92 G ₅	3, 3, 3 AG 25 E.F. ground base ALT. AURUS DRIFTING IN OR 20 clearing clouds.
04 14	0 15 W	+26 13	1-0	7.72 G ₀	3, 3, 3 changing increasing, THICKENING O405. D. T. B. 10/7.
<p>3 plates sealed HEAT ON M. Bed PLATES NEEDED IN DOING.</p>					
					<p>SC FTW +517 +030</p>

SET MICR TO 15.397
vernier read 25.69 (Tab-11)

CHECKED: PLUNGER & FLIPPER

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
0119	2 51 W	+28°48'	0	7.98 KO	3-3-3 AG PROG <u>Earlier: started clearing ~2000</u> good										
0348	1 47 W	+24 28	0-1	^{7.9 F2} 8.30 G5	3-3-3 AG 25  ✓ fine										
0544	1 36 W	+24 41 O. T. B.	0-1.1	7.81 M3	3 3 3 AG 25 + 10/7 fine										
H. ON M. 2 P.Hs. LOADED NO HURRY.															
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Mar 19</td> <td>-01 00 3</td> <td>+530</td> <td>+27.2</td> <td>+0.2</td> </tr> </table>							MC	SC	MTW	STW	Mar 19	-01 00 3	+530	+27.2	+0.2
	MC	SC	MTW	STW											
Mar 19	-01 00 3	+530	+27.2	+0.2											

Focus set. Mic. 15.447

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19 51	1 25 W	+01 49	0	6.20 A _s	3-3-3 Binary <i>Had clean Guiding fine</i>
22 29 ²	2 34 W	+27 24	0	8.14 K ₀	3-3-3 AG 25 <i>fine</i>
00 56	2 22 W	+29 29	0-1	8.21 G _s	3-3-3 AG 25 <i>fine</i>
03 48	1 24 W	+25 16	1	8.52 K ₀	3-3-3 AG 25 <i>good</i>
05 22	1 06 W	+25 37	1-0	7.88 K ₀	3-3-3 AG 25 HAZE, INCREASING. <i>very good</i>
		0 T.B.		10/7	<i>focus ok</i>
					H. on M. 1 P.H. LOADED
					SOME FAINT AURORA 0000

Focus set at 15.468 by Mior
 read 23.59 by Vern (tab-13)

Checked: Flipper: OUT
 Plunger: IN

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
10 42	1 ^h 20	+1° 48'	0	6.20 A5 3-3-3	Binary Prog
211	1 ^h 45	+26° 23'	0	7.71 K0 3-3-3	AG 25
2257	1 ^h 48	+27° 46'	0	7.79 K0 3-3-3	AG 25
005	1 53W	+29° 13'	0-1	7.66 K0 3-3-3	AG 25
04 05	2 28W	+25 04	1	8.47 G5 3-3-3	AG 25
05 46	0 19W	+28 02	1	7.56 K0 3-3-3	AG 25 THIS * HAS A FAINTER COMPONENT
		C.T.B.		10/7	
					3 PHS. LOADED NO AURORA.
					H.OX ML.

Date Sat. Mar 22-23, 1947 Hd

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T. <i>PH</i>	Hour Angle End
13249	^{<i>η Aur</i>} HD 32650	09 59.5	41 06	I-25	Process	008		20 10	3	
13249 (a)	^{<i>η Aur</i>} HD 32630	04 59.5	41 06	I-25	E10320	008		20 17	20 29	4
(b)							+3.0	20 30	20 36	1320
13250	^{<i>114 Tau</i>} HD 35708	05 21.6	21 51	"	"	"	+3.0	20 40	20 52	1
13249 F	Focus				OTB					

Date Mar. 30-31, 1947 Yu/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.
13251	HD 60298	07 28.7	+25 09	I-25	E-103a	008	-2.0	19 ^h 57 ^m	21 ^h 57 ^m 4
13252	HD 91316	10 27.5	+9 49	"	"	"	-2.1	22 3	22 5
	"	"	"	"	"	"	"	22 7	22 11
	"	"	"	"	"	"	"	22 13	22 21
13253	HD 95363	10 55.5	+37 40	"	"	"	-2.1	22 30	00 30
13254	" 112753	12 53.9	28 00	"	"	"	-2.0	00 39	02 57
13255	" 136274	15 14.7	26 04	"	"	"	-2.0	03 01	05 25
	Focus Test					07.B			

leaving slowly from 21⁰⁰.
 showed 3rd yr students 4, 5

left focus at 15.46!

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0031	2 20 W	28 50	1-0	7.54 K0	3,3,3 Vel. prog. Took brighter of pair N.E. WIND
0242	2 57 W	26 47	0	7.88 G5	3,3,3 AG. 25 SEEING NOT AS GOOD.
0436	1 01 W.	25 22	0	7.48 G0	3,3,3
0519	0 43 W	28 08	0	7.56 K0	3,3,3 spot spoiled 10/7 from (cc) out of time
		O.T.B.			2 P.Hs. LOADED, 8 PLATES IN DOME H. ON M.

Date THURS, APRIL 3/4, 1927 WM/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13 262	HD 58 898	07 ^h 22 ^m .5	+27°45'	T-25	E 10320	925 00E	5.7	19 44	21 14
13 263	HD 101 289	11 34.3	+25°52'	"	"	"	5.5	22 56	00 36
13 264	114093	13 03.2	25 21	"	"	"	5.6	00 39	01 49
13 265	123612	14 03.6	24 47	"	"	"	5.6	01 51	03 17
13 266	139608	15 34.0	24 51	"	"	"	5.6	03 21	05 17

Focus Test

69 Hamilton Centre R0+B. 12.

C + X lens
slow take

Checked; Plunger - in
Flipper - out

Set 15.493 per Max
Read 23.57 per Vern (= Tab 12)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2114	2 ^N 18	+27°40'	0	7.69 K0	3-3-3 VEG PROS VISITORS FROM HAMILTON work
0036	1 29 W.	+25°36'	0-1	7.87 G0	3-3-3 " " HAZE CLOUD BANK LOW IN S.W. work
0149	1 13 W	25 06	1-0	7.12 K0	3-3-3 " " " " SLOWLY APPROACHING. HAZE OVERHEAD 01 58 fine
0117	1 42 W	24 33	1	7.56 K2	3-3-3 HAZE (VEGETABLES) fine work
0519	2 15 W	24 40	1-0	7.81 M3	3-3-3 " THICKER E. WIND STRONGER. fine
	O.T.B.			10/7	fine. OK

1 P.H. LOADED. BOX OF PLATES NEEDED
IN DOME. HEAT IN MIRROR + GALV.

Sat. Apr 5/6. no visitors - rain, fog.

Date *Hyon April 7-8/47 L/W*

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13267	HD. 116232	13 17.2	26 31	T-25	E-103:0	set 008	+1.9	00.06	02.48	14 W
13268	HD 145458	16 06.0	23 45	"	"	"	+1.8	02.52	05.14	53 W
<i>Focus Test</i>										

Focus set Mic 15.497

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Cloudy all day. A few breaks at sunset. Breaking at 8.00. Hazy and passing clouds until 11.30 then quite good. ✓
02.48	2 14 W	+ 26 16	0	8.00 K ₀ 3.3, 3	
05.14	1 53 W.	+ 25 37	0	7.88 K ₀ 3.33 / 10/7	SOME HAZE. H. ON M. 3 PHs. LOADED
		O.T.B.			

Checked plunger + flipper. Set focus mic. 15.488
 Went from 2nd yr Pass students (~8) Varnier reads 23.57 (= tab. -.13)
 Showed 4, red with 74" N showed double # with 19" Varnier object with 14"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 30	N 1 00	28 03	1	7.05 K2	3, 3, 3 Vel prog
22 12	N 1 43	25 49	1	7.63 K0	3, 3, 3 "
01 00	2 16 W	25 35	1	7.87 G0	3, 3, 3 "
05 42	1 15 W	27 38	1	7.83 K3	3 3 3 "
09 24	S 40 W	26 52	1	7.40 K0	3 3 3 " poorly focused faint
11 10	2 31 W	27 11	1	7.58 K0	3, 3, 3 " barely visible good
	O.T.B.				10/7

H. ON M. 1 P.H. LEADED

Note for L - poor connection
 in finder light - possibly a break
 in the flex.

Date Sunday Apr. 13-14 '47 YU/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
13275	HD 80327	09 ^h 14 ^m 0	+24° 51'	I-25"	E103 _{AD}	.008	+4.5	19 ^h 58 ^m	21 ^h 58 ^m 4	1 ^h 50 ^m W
13276	HD 91316	10 ^h 27 ^m 5	+9° 49'	"	"	"	+4.4	22 ^h 07 ^m	22 ^h 08 ^m 7	1 ^h 00 ^m W
	"	"	"	"	"	"	"	22 ^h 10 ^m	22 ^h 12 ^m	
	"	"	"	"	"	"	"	22 ^h 14 ^m	22 ^h 18 ^m	
13277	HD 102646	11 ^h 44.0	+28° 41'	"	"	"	+4.3	22 ^h 27 ^m	00 27 2	45 ^m W
13278	" 118971	13 35.3	26 26	"	"	"	4.3	00 31	02 37 3	00 ^m W
13279	" 137003	15 18.6	28 24	"	"	"	4.3	02 44	04 50 4	25 ^m W
	Focus Test						OTB.			

Checked plungers + flippers

Set focus mic. 15.482
 Vernier reading 23.60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS	
21 ^h 58 ^m 4	1 ^h 50 ^m W	+24° 37 ^m	0	8.00 G0	3,3,3	Vel. program w/wad
22 ^h 08 ^m	1 ^h 00 ^m W	+9 32	"	3.61 Bop	8	} 3 exposures on one plate w/wad - tw-1
22 ^h 12 ^m			"		8	
22 ^h 18 ^m			"		4,4	
00 27	1 49 W	+28° 23	"	8.05 K0	3,3,3	Vel. program l w/wad
00 37	2 09 W	26 11	0	8.09 G5	3-3-3	" " w/wad
00 47	2 30 W	28 13	0-1	8.14 K0	3-3-3	" " f/good at ends good
					10-7	focus OK

Date Monday April 14-15/47 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13280	HD. 82191	09 25.4	27 50	T-25	E-103 _a 0	set .008	+7.5	19 56	20 40	0 24 W
13281	" 91148	10 26.3	24 36	"	"	"	+7.5	21 39	23 49	2 17 W
13282	" 120803	13 46.6	25 12	"	"	"	+7.5	23 55	01 55	1 19 W
13283	" 134246	15 03.7	28 53	"	"	"	+7.5	01 58	03 54	2 02 W
13284	" 155344	17 05.9	26 34	"	"	"	+7.4	03 58	05 00	1 04 W
	<i>Focus Test</i>									

Focus Set. Mic. 15.517

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
20 40	0 24W	27 37	0	6.59 A ₀	3-3-3 Binary	showed Dr. Williamson's students (I PASS) Saturn and Gamma Teles.
21 45	2 33W	24 21	0-1	8.14 G ₅	3-3-3 AG. 25	- scan
01 55	1 19W	24 57	0-1	8.05 K ₀	3-3-3 AG. 25	4.00
02 55	2 02W	28 41	0-1	7.73 G ₅	3-3-3 AG 25	4.00
05 00	1 06W	26 30	0-1	7.59 K ₀	3-3-3/10/7 AG 25	4.00
		O.T.B.				

2 P.H.s. LOADED H. ON M.

Date TUES. APRIL 15/16, 1947 Wm- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 285	HD 72 208	09 ^h 26 ^m 5	+10° 09'	T-25	E1032 O	SET 008	+7.9°C	19 44	20 26	2
13 286	HD 86 131	09 ^h 31 ^m 5	+12° 02'	"	"	"	+7.8°C	20 40	22 00	5
1947 Apr. 16 Wednesday. About 4-5 inches snow. Cars stuck in lane.										

Flipper out

Flipper in

SET FOCUS 15.525 micr

Vernier read 23.54 (tab-13)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2000	1 ^W 29	+0°50'	0	6.58 AD 3-3-3	BINARY PROGRAM some thin clouds at twilight <i>weak</i>
2200		+28°48'	0	7.98 KO 3-3-	AG 25 <i>weak</i> 2145 CLOUDS COMING UP IN S 2155 CLOUDS OBSCURE MUCH OF S SKY. 2200 * PRACTICALLY INVISIBLE ON SMT
					4PH's Loaded, 4p bites in D H on M.
					ME SC MTW STW Apr. 16 - 50.0 +59.2 -04.8 -0.3 adv. 1 min.

Date ~~Wed~~ Thurs Apr 17-18, 1947 HX-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13287	HD 76752	08 53.0	25 48	I-25	E103a0	008		20 14		1
13287	HD 114093	13 03.2	25 21	I-25	E103a0	008		23 42		2

Friday April 18-19, 1947 H-L Cloudy with light rain

Saturday April 19-20, 1947 Wm-L Overcast; about 30 visitors

Very dirty for a while after sunset.

Ext focus 15.508

226

Mic reads 23.58 (= tab - 0.10)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
1	25 35	7.79	Gas 3,	Vel. Prog	Thick at 20 35										
2		7.12	KO 3,	" "	Thick at 23 54										
					NOT WINE SO. Breaking a little 00.00 - 10 waited DIDN'T CHECK IT.										
					Z.P.H. HOOPED H. ON M										
					<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Apr 18</td> <td>-49.7</td> <td>+59.8</td> <td>+02.3</td> <td>-0.3^m</td> </tr> </table>		MC	SC	MTW	STW	Apr 18	-49.7	+59.8	+02.3	-0.3 ^m
	MC	SC	MTW	STW											
Apr 18	-49.7	+59.8	+02.3	-0.3 ^m											
					<table border="0"> <tr> <td>Apr. 21</td> <td>-48.8</td> <td>+60.3</td> <td>-00.6</td> <td>-0.4^m</td> </tr> </table> <p>stopped - next</p>	Apr. 21	-48.8	+60.3	-00.6	-0.4 ^m					
Apr. 21	-48.8	+60.3	-00.6	-0.4 ^m											

Date Monday April 21-22/47 L.No./W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13287	H.D. 79373	09 08.6	+25 26	I"-25"	E103a0	008	+5.2	19 53	21 43
13288	H.D. 100179	11 26.6	+24 52	"	"	"	+5.1	21 58	00 10 4
13289	H.D. 122796	13 58.9	27 58	"	"	"	+5.1	00 14	02 20 1
13290	H.D. 152032	16 45.9	26 23	"	"	"	+5.1	02 24	03 20 5

Focus Test

Tuesday April 22-23, 1947

Wm - W

Overcast to cloudy - light rain.

25-26 9/66

Date Friday Apr 25-26 26-27 YU/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.
13291	^{η Leo} HD 87737	10 ^h 1.9 ^m	+17° 15'	I-25"	E103aD	.008	+7.8	21 ^h 24 ^m	21 ^h 26
"	"	"	"	"	"	"	"	21 ^h 28 ^m	21 ^h 32
"	"	"	"	"	"	"	"	21 ^h 34 ^m	21 ^h 42
13292	HD 105702	12 ^h 5.0 ^m	+6° 22'	"	"	"	"	21 ^h 55 ^m	22 ^h 25 3
13293	HD 102646	11 ^h 44.0 ^m	+28° 41'	"	"	"	"	22 ^h 40 ^m	01 00
13294	" 130766	14 44.9	25 35	"	"	"	7.8	01 06	03 26 4
13295	" 156775	17 14.9	25 59	"	"	"	7.7	03 31	04 45 1

Focus lost

O.T.B.

Sat Apr 26-27 Hd. Rain. 41 Visitors. Showed slides + dome

Chest plunger + flipper

Focus set 15.524

Micro Reading 23.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 ^h 26			0	3.58 A ₀	4, 4
21 ^h 32			"	"	4, 4
21 ^h 42	1 ^h 35 ^m W	+17° 00'	"	"	4, 4
22 ^h 28	0 ^h 12 ^m W	+6° 05'	"	6.02 F ₀	3, 3, 3
01 00	3 09 W	+28° 24'	"	8.05 K ₀	3, 3, 3 Vel. prog.
07 22	2 35 W	25 21	0	8.06 K ₀	3-3-3 " "
04 45	1 25 W	25 50	0	7.61 K ₀	3-3-3 10-7

From set 15,488 micrometer 23.57ⁿ 58^{sec} vernal

Overcast from sunset on; breaking intermittently 20¹⁵—


Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 39	2 14 W	+28 44	0-1	8.05 M10	3-3-3	AG 25 Intermittent clouds 22 ^m -27 ³⁰
01 22	1 38 W	28 07	0-1	7.63 G5	3-3-3	AG 25
03 33	2 24 W	25 48	0-1	8.22 K0	3-3-3	" "
04 53	0 52 W	26 38	0-1	7.49 G5	3-3-3	" "
					10-7	Intermittent

	MC	SC	MTW	STW
Apr. 28	+45.0	+73.4	+28.2	+0.2

Plunger in
Flipper out

SET FOCUS 15.514 micr

vern reads 23.57 (= Tab - 11)

Ending Time E.S.T.	Hour Angle End	Declination.	Seeing	Ptg. Mag.	REMARKS
20:47	1 ^W 37	+44°53'	1	7.26 A53-3-3	BINARY PRPG 
20:54	1 ^W 21	+24°18'	2	8.05 K03-3-3	VEL PRPG AG 25
3:52		+28°03'	1	8.30 G53-3-3	" " → 2316 - clouds → 0004 many 2346 - going again 00 25 01 10 clouds.
		O.T.B.		10/7	

4 P.H. loaded, 9 plates in box 1 sep-
arately rewrapped.

H. m. M.

	MC	SC.	MTW _s	STW _m
Apr 29	-45.6	+104.6	-27.2	-0.9
30	-46.1	+103.3	-24.9	-0.7
May 2	-45.8	+103.9	-19.4	-0.7
5	-45.6	+105.0	-08.6	-0.6
6	-45.0	+105.7	-05.6	-0.6
May 8	-45.2	+106.5	-00.0	-0.4 ^m
9	-44.8	+107.1	+03.2 ^s	+0.2 ^m

TEMP. +32° F.

Date Friday, May 9-10, YU/W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13303	HD ^{M 820} 87737	10 ^h 1.9 ^m	+17° 15'	I-25	E10300	.008	+4.8	20 ^h 11 ^m	20 ^h 13 ^m	
	"	"	"	"	"	"	"	20 ^h 15 ^m	20 ^h 20 ^m	1
	"	"	"	"	"	"	"	20 ^h 22 ^m	20 ^h 29 ^m	1
13304	HD 97334	11 ^h 7.1 ^m	+36° 21'	"	"	"	+5.0	20 ^h 49 ^m	21 ^h 29 ^m	2
13305	HD 110628	12 ^h 38.4 ^m	+26° 40'	"	"	"	"	21 ^h 40 ^m	22 ^h 40 ^m	3
13306	HD 122693	13 ^h 58.3 ^m	+25° 03'	"	"	"	"	22 ^h 55 ^m	00 57	4
13307	HD 144287	16 00.0	+25 30	"	"	"	+5.1	01 02	02 30	1
13308	HD 156093	17 10.5	+26 11	"	"	"	+5.2	02 42	4 20	1
	<i>Focus Test</i>									

Sch Focus 15.485

Vsr reading (23155)

Checked plunges & flippers

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 ^h 13 ^m		+17° 0'	0	3.58 <i>Ag</i>	10.
21 ^h 20 ^m			"	"	5, 5
21 ^h 26 ^m	1 ^h 18 ^m W		"	"	5, 5
21 ^h 27 ^m	1 ^h 10 ^m W	+36° 5'	"	6.88 <i>G₀</i>	3, 3, 3 <i>guiding</i>
22 ^h 4 ^m	0 ^h 48 ^m W	+26° 23'	1	6.99 <i>F₀</i>	3, 3, 3 <i>guiding</i>
22 ^h 57 ^m	1 47 W	+24° 48'	"	7.92 <i>G₀</i>	3, 3, 3 AG 25
0235	1 22 W	+25 22	1	7.48 <i>G₀</i>	3 3 3 AG 25
42	2 00 W	+35 27	1	7.70 <i>K₀</i>	3 3 3 AG 25
	O.T.B.				10/7

2 P.Hs. LOADED, BOX OF PLATES NEEDED

H. ON M.

Date Sat May 10-11, 1947 Hd - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13309	HD 108722 ⁽²²⁴⁶⁾ HD 111285	12 24.4	24 39	I-25	E10340	008	+11.3	21 ⁵⁸ 57	0048	3
13310	? HD 180583 HD 150216	19 12.0	27 45	"	"	"	+11.3	0059	0139	4
13311	HD 150580	16 36.9	25 03	"	"	"	+11.4	0145	0231	1
13312	HD 159968	17 32.4	27 39	"	"	"	+11.3	0235	0419	2
<i>Focus Test</i>										

Set Focus 15.569
 about 70 visitors showed by with 74" Dewar showed up with 4"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0.48	3 16W	24 22	0	5.91 F5 7.2 G5	AG 25 kel prog. SBY HAZY 2200-2400; IMPROVING. Wrong star; second exposure started on plate.
1.37	2 39E	27 50	0-1	6.56 F8p 5.51 G5	4.5 BINARY Wrong star; cannot identify star taken; no star at posn given by hr. & and dec.
2.31	0 41W	24 57	1	7.00 K2	3.3.3 AG 25
3.24	1 41W	27 36	1	8.00 M0	3.3.3 AG 25
		0-4.13			10/7 focus overexposed (slightly) compared to previous 3 P.H.s. LOADED. H. ON M.

Mon May 12	MC	SC	MTW	STV
	-44.3	+68.1	+14.1 ^s	-0.1 ^m
May 13	-44.4	+68.4	+17.6	-0.1 ^m

Plunger in
Flipper out

Focus at 15.635 per micr
Vernier read 23.99 (Tab 12)

MICR SET FORT = 16.3 °C
GALVANOMETER WAS UN-
STEADY

242

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg. Mag.

REMARKS

003

2 45W +26°42' 0 7.81 KO 3-3-3

AG25

{ Haze and passing cloud from
Sunset on til about 2200 EST *week*
2315: star dimmed abt 1^m
2320: ok again

More haze and clouds.
Closed up at 2.30 sky hopeless.

see clock correction previous page.

Cloudy until 21^h 20^m Checked plunger & flipper

244

Sch focus 15.695
 ver. reading 23.35

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 ^h 5 ^m	38 ^h W	+26° 24'	1	6.99 F ₀	3, 3, 3
00 43	26 W	+29° 34'	"	7.94 M ₂	3, 3, 3 AG 25
		O.T.B.			10/7
					4 PHS LOADED, H. ON M.
					Hazy ALL AROUND BELOW 45°
					SKY THICKENING, STAR GONE 00 43
					WATER CLEARED A LITTLE, CLOSED 0300 E.S.T.
					GERRY - Done turning to slowly, sounds like cable slipping.
					Monday May 19 MC SC MTW STW SW
					-43.2 ^s +70.4 ^s +9.8 ^s -0.3 ^m +41.2 ^s

1947

Date Tues May 20-21 S H No Ta

Julian Day

Plate No.	Object	R.A. 1900 ⁵⁰	Declination 1900 ⁵⁰	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13316	NGC 5272	-13 39.9	+28 38	I-Newt				20 50	20 53	
13317	4147	12 07.6	+18 49					21 00	21 10	037 W
	5904	15 16.0	+02 16							
13318	6229	16 45.6	+47 37					21 30	21 45	203
13319	6229	"	"					21 48	22 02	209E
13320	6229	"	"					22 05	22 21	250E
13321	6229	"	"					22 24	22 40	232E
13322	6229	"	"					22 46	23 02	209E
13323	6229	"	"					22 06	22 22	209E
13324	6229	"	"					22 25	23 49	22E
13325	6205	16 39.9	+36 33					23 52 $\frac{1}{2}$	23 55 $\frac{1}{2}$	20E
13326	5904	15 16.0	+02 16					00 01	00 04	220W
	5634	14 27.0	-05 45							

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS										
20 53		+28	'Not too bad'												
21 10	0 37 W														
21 45	3 26 E				If Guiding										
22 02	3 09 E		Not too bad												
22 21	2 50 E														
22 40	2 32 E														
23 02	2 09 E														
23 22	1 49 E		Poor		No Guiding										
23 41	1 22 E														
23 58	1 10 E														
00 04	0 24 W				Closing in										
Closed up 0045															
Thursday May 22															
<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">m.c.</td> <td style="text-align: center;">s.c.</td> <td style="text-align: center;">m.TW</td> <td style="text-align: center;">STW</td> <td style="text-align: center;">sw</td> </tr> <tr> <td style="text-align: center;">43.3</td> <td style="text-align: center;">+71.1</td> <td style="text-align: center;">+15.5</td> <td style="text-align: center;">+0.3</td> <td style="text-align: center;">+79.9</td> </tr> </table>						m.c.	s.c.	m.TW	STW	sw	43.3	+71.1	+15.5	+0.3	+79.9
m.c.	s.c.	m.TW	STW	sw											
43.3	+71.1	+15.5	+0.3	+79.9											

1947

Date Thurs. May 22-23 S-H-No-Ta-D Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13327	NGC 5272	13 39.9	+28 38	I-Newt.	E-103a-D	—	—	21 00	21 03	2 05 ² E
13328	5024	13 10.4	+18 26					21 07	21 12	1 016E
13329	4147	12 07.6	+18 49					21 16	21 20	2 055W
13330	4147	12 07.6	+18 49					21 22	21 38	1 1.3W
13331	6229	16 45.6	+47 37					21 57	22 13	2 250E
13332	6229	16 45.6	+47 37					22 15	22 31	1 23.2E
13333	6229	16 45.6	+47 37					22 33	22 49	2 214E
13334	6229	16 45.6	+47 37					22 52	23 08	1 150E
13335	6229	16 45.6	+47 37					23 11	23 27	2 136E
13336	6229	16 45.6	+47 37					23 29 ¹ / ₂	23 45 ¹ / ₂	1 110E
13337	6229	16 45.6	+47 37					23 48	00 04	— 59E
13338	6229	16 45.6	+47 37					00 06	00 22	0 041E
13339	6205	16 39.9	+36 33					00 25	00 27	2 030E
13340	5904	15 16.0	+02 16					00 36	00 39	1 05W
13341	5897	15 14.6	-20 49					00 43	00 53	2.1W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 03	0 ^h 55 ^m E				focused on r. Virgins
21 12	0 16 E				
21 22	0 55 W				40 sec overexposed
21 38	1 13 W				
22 15	2 50 E				focused on r. Cor. Bor. Aurora in N.E.!
22 21	2 32 E				Aurora brightening
22 49	2 14 E				
23 00	1 50 E		Poor		No. guiding Aurora fading
23 27	1 36 E		Better		" "
23 44	1 18 E				S. "
00 04	0 59 E				
00 22	0 41 E				
00 27	00 30 E				Focussed & Exp.
00 29	1 05 W				
00 33	1 21 W				

Date Thurs May 22-23 S.H. No-Ta-D Julian Day

Plate No.	Object	R.A. 1900 ₅₀	Declination 1900 ₅₀	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13342	NGC 5634	14 27.0	-05 45	I Newt	E103a0	—	—	00 57	01 11	2 27
13343	6093	16 14.1	-22 52	"	"			01 15	01 20	0 49
13344	6171	16 29.7	-12 57	"	"			01 26	01 36	0 48
	6333	17 16.2	-18 28	"	"					
13345	6356	⁽¹⁹⁰⁰⁾ 17 17.8	⁽¹⁹⁰⁰⁾ -17 43	"	"			01 57	02 11	0 33
13346	6356	¹⁹⁵⁰ 17 20.7	¹⁹⁵⁰ -17 46	"	"			02 15	02 29	0 51
13347	6356	17 20.7	-17 46	"	"			02 32	02 46	1 14
13348	6838	19 51.3	+18 38	"	"			02 51	03 03	0 48
13349	6838	19 51.3	+18 38	"	"			03 04	03 10	0 58
13350	6771	19 11.6	+22 05					03 16	03 22	0 08

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01	2 27W				
01 20	0 49W				Not guided, out of reach
01 36	0 48W				
					Trouble with observing carriage; ^{want to move down} can't reach.
02 11	0 33W				No. guiding at arm's length
02 29	0 51W				5 guiding exposure supposed on that of plate 13344
02 46	1 07W				
03 03	1 04E				Program adjusted to no down motion of carriage
03 10	0 58E				
03 22	0 10E				
					May 23-24 Overhaul
					May 24-25 { 4 visitors shown the telescope Overhaul - cleaning a little bit
					0600 E.S.T. then filling in
					May 25 - Heat put on mirror 1030 E.S.T. - pers. still dry but air quite clammy

Date Mon May 26-27/47 L-W Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13354	H.D. 116029	13 15.9	25 10	I-25	E-103a-O	set. .008	14.3	21 30	22 52	32 W
13355	" 133459	14 59.5	27 28	"	"	"	14.1	22 57	00 11	6 W
13356	149067	16 27.3	26 04	"	"	"	14.1	00 16	02 10	3 W
13357	165989	18 03.5	26 24	"	"	"	14.0	02 13	03 09	5 W
13358	183399	19 24.3	29 14	"	"	"	14.0	03 12	03 54	5 W
	<i>Focus Test</i>									
	<i>Wed May 28 Cloudy with rain during night</i>									

Focus set. Mw. 15.612

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Showered R.H. Men's Club the Moon and Gamma Leonis.
2 52	1 32 W	24 54	0-1	8.35 K ₀	3-3-3 AG. 25 not good
0 1	1 08 W	27 15	0-1	8.27 K ₀	3-3-3 AG. 25 good
2 10	1 40 W	25 56	0-1	8.63 K ₀	3-3-3 AG. 25 not good
3 09	1 02 W	26 23	0-1	7.73 K ₀	3-3-3 AG. 25 not good
0 34	0 28 W	29 18	0-1	7.49 K ₀	3-3-3 AG. 25 n good, faintest out of focus compression for 7 sec. 2.1
		0. T. 5			10/7 Set 1 1/2
					3 P.Hs. LOADED. H. on M.
					m.c. m.c. s.w. m.c. m.c. m.c.
					May 27 +1 12.3 -12.7 +49.9 +35.5 +2.6
					s.c. m.c. s.w. m.T.W. s.T.W.
					May 29 +1 12.8 -44.4 +49.9 +35.5 +2.6
					s.c. m.c. s.w. s. m.T.W. s.T.W.
					Jun. 2 +1 14.4 -45.3 +87.6 +124.7 +2.1

Focus set Mic 15.564

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
27	1 44W	24° 35'	0-1	8.16 K ₀	3-3-3	A.G. 25. Cloudy early evening
28	2 27W	+29 03	0-1	7.84 K ₀	3-3-3	clouds 01.03-01.40
3 4	1 26W	+45 18	0~1	7.44 A ₀	3-3-3	Binary
3 5	0 18W	+27 34	0-1	7.28 G ₀	3-3-3	
		O.T.B. 7/7				light burned out in N. pier

Date Fri May 30-31/47 T_{air} - Julian Day

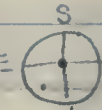
Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13363	(HD 114037 Focus test	13 02.7	+27 03	I - 2Y	E103A-0	.008	10.8	21 47	22 37	1 45
<p>Sat May 31 - June 1 about 200 visitors. Showed ϵ Boo and δ with 74". 4 @ 4 Praesepe with 4" & 2" Hd, No, M, Ho. Clouds - clouds - clouds! cirrus clouds showing signs of clearing up by 230 No.</p> <p>Sun Jun 1-2 Abundant rain + fog</p>										

Date Tues Jun 3-4/47 G-Ta/No. _____ Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13364	HD 105 262	12 02.1	+13 33	I-25'	E103a 0	.008	15.0	20 ^h 40 ^m	21 20	147 ^w
13365	HD 118 905	13 24.8	+27 12	I-25'	E103a 0	.008	15.0	21 31	22 13	107 ^w
13366	127093	14 24.3	+26 18	"	"	"	15.0	22 17	23 13	118 ^w
13367	133330	14 58.8	+28 40	"	"	"	15.0	23 17	23 41	111 ^w
13368	144287	16 00.0	+25 30	"	"	"	14.9	23 45	00 27	57 ^w
13369	157978-917	21.5	+07 41	"	"	"	14.8	00 33	00 53	01 ^w
13370	158013	17 21.7	+57 05	"	"	"	14.8	01 02	01 20	36 ^w
13371	162901	17 48.3	+25 00	"	"	"	14.9	01 34	03 22	34 ^w
13372	174369	18 45.1	+24 56	"	"	"	14.8	03 26	03 50	30 ^w
Focus test outside thru dome 7/6 ^s										
<i>Star not found off slit for exposure 1</i>										
<i>focus test</i>										

116
260

Focus set 15.614

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
21 20	1 47 W	+3° 14'	0	698 B ₉	3-3-3	Wm. * Stop off set occasionally. <i>l. weak</i>
22 13	1 07 W	+26 55	0	730 K.	3-3-3	<i>good</i>
23 13	1 18 W	+26 03	0-1	779 M.	3-3-3	<i>l. weak</i>
23 41	1 11 W	+28 26	1	690 A.	3-3-3	Wm. * <i>jumping!</i>
00 27	0 57 W	+25 21	1	748 G.	3-3-3	<i>good</i>
00 53	0 01 W	+07 37	1	64 G	3-3-3	E  Double * as seen in visitor's eyepiece. <i>Birds</i>
01 02	0 36 W	+57 03	0-1	661 A ₂	3-3-3	thin cirrus clouds moving in from N. <i>l. weak</i>
03 22	2 04 W	+24 58	0-1	854 K ₀	3-3-3	telescope seems out of balance at back. <i>good</i>
03 51	1 36 W	+24 57	0-1	662 A ₂	3-3-3	than 1.30 W - tied chair to instrument and seemed O.K. 2 plates wrapped in paper, not in in cardboard box with other plates.

Wed Jun 4 SC MC SW M Tu STW
+1^m 147 -45.6 +1^m 50 +2^m 119 +2^m 2

Saturday, June 7/8. Rain. Waved 74" for 4 visitors.

Checked Plunger & Flippers

262

Foam. det 15.666

Ver. read. 23.40

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 ^h 14 ^m W	+10° 44'	0	7.21 A ₃	3-3-3
0 ^h 33 ^m W	+23° 14'	0	7.4 F ₅	3-3-3
	+25° 8'	0	8.30 G ₅	3-3-3 A.G. 25- Clouds 23 ^h 40 ^m
	O. T. B.			10/7 Put on by Dr. Yie.
				H.P.H.s. LOADED
				Clouds in from SW. Completely overcast Hopeless Closed 00 30

Date Mon Jun 9-10/47 Ta-No Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13376	HD 135330	1458.8	+28 40	I-2Y	F10300	008	17.2 ⁰	22 08	22 58
13377	156093	17 10.5	+26 11	"	"	"	17.2	23 03	01 05
13378	{	178450	15 3.6	+30 09	"	"	17.2	01 35	07 10

Sum of ... 7/68

WATCH CORR $\sim 0^m$, not $+2^m$.

Set focus 15.647

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS								
22.5	0 50W	+28 28	0-	6.90 A37	3-3-3	Wm + . Opened lute because of haze. Still hazy.								
21.5	0 45W	+26 06	0	7.70 K0	3-3-3	Less hazy in east. AG 5085. Thick in 2315, ²³²⁰ 2325 ²³³⁰ 2335								
21.0	0 40W	+30 29	1	8.15 G5	3-3-3	Strong east wind - very progressive by 22.00 - 22.10 - improving 22.30 but still quite thick - started to see outline of plate 13377 before beginning 13378. Finally good until 22.30 - filling in rapidly. Beginning to see at last - almost clear.								
						<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>3.c.</u></td> <td style="text-align: center;">m.c.</td> <td style="text-align: center;"><u>m.T.W.</u></td> <td style="text-align: center;"><u>STW</u></td> </tr> <tr> <td style="text-align: center;">June 10 +1 18.2</td> <td style="text-align: center;">-47.8</td> <td style="text-align: center;">+26.1</td> <td style="text-align: center;">+0.4</td> </tr> </table>	<u>3.c.</u>	m.c.	<u>m.T.W.</u>	<u>STW</u>	June 10 +1 18.2	-47.8	+26.1	+0.4
<u>3.c.</u>	m.c.	<u>m.T.W.</u>	<u>STW</u>											
June 10 +1 18.2	-47.8	+26.1	+0.4											

Date Tues June 10-11, 1947 Ad-No Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13379	<i>alcor</i> HD 116842	13 21.2	+55 30	I-25	Process	008		20 52	21 22	1
								21 22	21 52	
							23.2	21 52	22 26	
² 11380	"	"	"	"	"	"		22 26	22 56	2
								22 56	23 26	
							23.1	23 26	00 04	
13381	H.D. 155878	17 09.2	+28 04	I-25"	E-105 _a -O	.008	23.3	00 11	02 11	
13382	182256	19 18.7	+25 08	"	"	"	23.4	02 17	03 49	
	J. <i>teah</i> - outside through base						7 ^s /6 ^s			

Set focus \approx 15.734
 Vernier reads 23.34 (tab. - .12)
 checked plunger + flipper

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	55 10	1	4.16 A5	no filters 8,8 Set 1 Telescope runs away badly north
				8,8 " 6 of the zenith (in dec, that is)
				8,8 " 9
				8,8 " 1
				8,8 " 6
	3 38			8,8 " 9
1 53 W	+27 56	1-2	8.82 G5	3-3-3 haze? good
1 27 W	+25 10	2	8.54 G0	3-3-3 haze guiding! good

Next on program

Date Wednesday June 11th 12, 1947 ^{W.G.} ~~W.G.~~ 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
13383	HD 105 262	12 ^h 02 ^m	+13° 32'	I ~ 25	E-103 ₀₀	0.008	25.0 C	21 ^h 12 ^m	23 ^h 12 ^m	00 ^m
13384	HD 145 457	16 06.0	27 01	"	"	"	25.0 C	23 ^h 43 ^m	00 ^h 37	31 ^m
13385	165 589	18 01.6	28 41	"	"	"	25.1	00 44	02 30	
	171 550	18 30.4	29 40	"	"	"				
	164 898	17 58.3	45 21	"	"	"				
	<i>Focus Test</i>									

Set focus 15.765
Checked plunges and flipper.

268

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
4 09 ^m	13° 15' 4"	○	6.98 B9	Comp. 3~3~3	GR. guiding with instructions W m #
4 31 ^m	+26° 50'	○	7.40 K0	3~3~3	AG 25 G. guiding
4 40 ^m	28° 39'	○	7.86 K2	3-3-3	AG 25 " DEC. READING Low
			7.23 K0		had to omit owing to clouds.
			7.44 A0		" " " "
	O.T.B.			10/7	

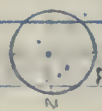
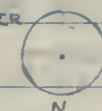
H. ON M.

3 P.H.s. LOADED.

	m.c.	s.c.	m. r. u.	l. r. u.
June 12	-487	+1 155	+39.6	+00.2

Checked sky
Checked paper

Intermittent heavy rain, squalls all day. Clearing around 10.00 P.M. E.S.T. 270
 Clouding on arrival; waited; clearing around 6.45; partially obscured 1.00; then clouded over,
 cleared 1.30 A.M. E.S.T.
 Set focus 15.621
 actual reading 15.710

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3.03	1 21 W	29 12	1-2	8.42 K ₀	3-3-3  FINDER
3.52	0 41 W	26 30	1	7.71 K ₀	3-3-3  FINDER
		O.T.B.		10/7	
					Centre to red. Check the reading.
					1 P.H. LOADED NEW BOX PLATES IN DOME
					H. NOT ON M.
					m.c. s.c. M.T.W. S.T.W.
					June 16 -51.0 +1 22 +37.7 +0.5

Some clouds
 Telescope would not move in R.A. (slow motion)
 when setting, than with loud noise.
 some clouds.

Exposure Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Setting	REMARKS
4	1 ^h 4 ^m W	+55° 15'	1	4.16 A ₅	8~8	no filter	1
20	2 ^h 26 ^m W	55° 15'	1+		8~8		6
30	3 ^h 06 ^m W	+55° 5'	1+		8~8		9
40	4 ^h W		1		8~8		1
50	5 ^h 26 ^m W		1		8~8		6
1	6 ^h 06 ^m W		1+2		8~8		9
20	7 ^h 46 ^m W	-29° 51'	1	8.03 K ₀	3~3~3		finder light not working
30	8 ^h 26 ^m W	+26° 56'	1~3	7.4 K _{0.5}	3~3~3		4
<p>Focus test attempted at setting 9. 3 loaded plateholders left in north pier.</p> <p>Clear all night. Seeing improved during last exposure.</p>							

1947

Date *Tuesday, June 17-18,* S-L-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
133 ⁹ / 42	NG.C. 5909	15 16.0	+02 16	Newt	E-103a-D	-	-	21 22	21 25	35E
133 ⁹ / 43	" 6229	16 45.6	+47 37	"	"	-	-	21 33	21 49	35E
133 ⁹ / 44	" 6229	16 45.6	+47 37	"	"	-	-	21 51	22 07	35E
133 ⁹ / 45	" 6229	16 45.6	+47 37	"	"	-	-	22 09	22 25	35E
133 ⁹ / 46	" 6205	16 39.9	+36 33	"	"	-	-	22 29	22 31	35E
133 ⁹ / 47	" 5897	15 14.6	-20 49	"	"	-	-	22 38	22 48	35E
133 ⁹ / 48	5713	14 37.6	-00 05	"	"	-	-	22 53	23 03	35E
133 ⁹ / 49	5634	14 27.0	-05 45	"	"	-	-	23 11	23 23	35E
133 ⁴⁰ / 50	6171	16 27.1	-12 57	"	"	-	-	23 27	23 35	35E
133 ⁴⁰ / 51	6093	16 14.1	-22 52	"	"	-	-	23 39	23 45	35E
133 ⁴⁰ / 52	6779	19 14.6	+30 05	"	"	-	-	23 49	23 55	35E
133 ⁴⁰ / 53	6838	19 51.3	+18 38	"	"	-	-	00 10	00 20	35E
133 ⁴⁰ / 54	6838	19 51.3	+18 38	"	"	-	-	00 24	00 44	35E
133 ⁴⁰ / 55	6287	17 02.0	-22 40	"	"	-	-	00 50	01 00	35E
133 ⁴⁰ / 56	6333	17 16.2	-18 28	"	"	-	-	01 03	01 09	35E
133 ⁴⁰ / 57	6101	17 34.5	-23 53	"	"	-	-	01 14	01 28	35E

Guiding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 25	25E				focused on X-cep. - no guide star!
1 41	1 31E				Light passing clouds
2 00	1 13E				" " "
2 08	2 55E				
2 18					
2 28	2 59W				
3 03	1 53W				spiral nebula? focused on β Lib focus out by 3/4 turn.
3 15	2 22W				
3 35	0 31W				
3 45	0 56W				
3 55	1 23E				
4 01	2 05E		poor		No guiding - hard to see
4 04	1 42E		better		
4 10	1 24W				
4 15	1 18W		poor		
4 21	1 15W		"		1/2 full exp

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 47	0 22 W				
01 55	0 48 W				
02 10	0 15 E				
02 23	1 52 W				
02 40	1 22 W				
02 48	1 12 E				
03 14	0 27 W				<p>Not centered, unavoidable!</p> <p><u>June 18</u> $\begin{matrix} m \text{ TWX} \\ S \\ +46.3 \end{matrix}$ $\begin{matrix} S \text{ TWX} \\ m \\ +0.7 \end{matrix}$</p>

Date Wed Jun 18-19/47 S-No-Ta

Julian Day

Plate No.	Object	R.A. 1900 ₅₀	Declination 1900 ₅₀	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 ⁴¹ 365	NGC 5904	15 16.0	+02 16	Newt	E103A-0	-	-	21 26	21 29	1
13 ⁴¹ 366	6229	16 45.6	+47 37	"	"			21 34	21 40	2
13 ⁴¹ 367	6229	16 45.6	+47 37	"	"			21 41 ¹⁰	21 55	1
13 ⁴¹ 368	6229	16 45.6	+47 37	"	"			21 56 ³	22 10	2
13 ⁴¹ 369	6229	16 45.6	+47 37	"	"			22 12 ³⁰	22 24	1
13 ⁴² 370	6205	16 39.9	+36 33	"	"			22 27 ⁴⁵	22 31 ⁴	2
13 ⁴² 371	5897	15 14.6	-20 49	"	"			22 36	22 46	1
13 ⁴² 372	5897	15 14.6	-20 49	"	"			22 48	22 58	
13 ⁴² 373	5634	14 27.0	-05 48	"	"			23 07 ³⁰	23 21	1
13 ⁴² 374	6402	17 35.0	-03 13	"	"			23 30	23 44	
13 ⁴² 375	6093	16 14.1	-22 52	"	"			23 47 ³⁰	23 51	1
13 ⁴² 376	6171	16 29.7	-12 57	"	"			23 54	00 02	2
13 ⁴² 377	6333	17 16.2	-18 28	"	"			00 05	00 11	1
13 ⁴² 378	6356	17 20.7	-17 46	"	"			00 14	00 28	2
13 ⁴² 379	6356	17 20.7	-17 46	"	"			00 29	00 43	1
13 ⁴³ 380	6333	17 16.2	-18 28	"	"			00 45	00 51	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20-12	0 19 E				Focus β Serp.
20-14	1 37 E		Rather poor		
20-15	1 22 E				
20-16	1 06 E				
20-17	0 52 E				
20-18	0 42 E				
20-19	1 00 W				
20-20	1 13 W				
20-21	2 24 W		Lousy	No Guiding	Focus β Libr.
20-22	0 21 E				
20-23	1 07 W				
20-24	1 02 W				
20-25	0 24 W				
20-26	0 37 W				
20-27	0 53 W				
20-28	1 04 W				

Date Thurs. June 19-20/47 S-No-D Julian Day

Plate No.	Object	R.A. 1900- 50	Declination 1900- 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
13389 43	N.G.C. 5904	15 16.0	+02 16	Newt.	E 103 ₀ -0	—	—	21 24 ³⁰	21 37	
13390 44	6229	16 45.6	+47 37	"	"	—	—	21 33	21 37	35E
13391 44	6229	16 45.6	+47 37	"	"	—	—	21 38 ²⁰	21 52	35E
13392 44	6229	16 45.6	+47 37	"	"	—	—	21 54	22 08	35E
13393 44	6229	16 45.6	+47 37	"	"	—	—	22 09	22 21	35E
13394 44	6205	16 39.9	+36 33	"	"	—	—	22 25	22 37	35E
13395 44	6402	17 35.0	-3 13	"	"	—	—	22 32	22 46	35E
	5877	15 14.6	-20 49	"	"	—	—			
13396 44	6171	16 29.7	-12 57	"	"	—	—	22 59	23 00	35E
13397 44	6171	16 29.7	-12 57	"	"	—	—	23 30	23 42	35E
13398 44	6402	17 35.0	-3 13	"	"	—	—	23 49	00 01	35E
13399 44	6093	16 14.1	-22 52	"	"	—	—	00 04	00 10	35W
13400 5	6233	17 16.2	-18 28	"	"	—	—	00 12	00 18	35W
13401 5	6356	17 20.1	-17 46	"	"	—	—	00 20 ¹⁵	00 31	35W
13402 5	6335	17 16.2	-18 28	"	"	—	—	00 36	00 42	35W
13403 5	6603	18 15.6	-18 26	"	"	—	—	00 45	00 50	35W

Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1.37	0 ^h 16 ^m E				Focused on α Lep.
1.37	1 35 E				
1.50	1 20 E				
2.00	1 05 E				
2.10	1 51 E				
2.15	0 30 E				
2.20	1 16 E				Trouble to the way above. couldn't see far clouds!
2.20	0 11 W				clouds cleared by 23 30
2.25	2 46 W				— focused on γ phi.
2.30	0 01 E				
2.35	1 30 W				
2.40	0 36 W				
2.45	0 47 W				
2.50	1 20 W				
2.55	0 00 W (exposed only once/10 times)				clouding in from south - cleared out

Date Fri Jun 20-21 1947

S-No-Tc

Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
134 ⁵ 14	NGC 5904	15 16.0	+02 16	Newt	E103a0	-	-	21 23	21 26	
134 ⁵ 15	6229	16 45.6	+47 37	"	"	-	-	21 31 ¹⁵	21 35	1
134 ⁵ 16	6229	16 45.6	+47 37	"	"	-	-	21 36 ³⁰	21 48	2
134 ⁵ 17	6229	16 45.6	+47 37	"	"	-	-	21 50 ²	22 04 ²	04:
134 ⁵ 18	6229	16 45.6	+47 37	-	-	-	-	22 05 ²	22 17 ¹⁰	52:
134 ⁵ 19	6205	16 39.9	+36 33					22 22	22 24	79:
134 ⁶ 10	6402	17 35.0	-03 13					22 29	22 43	
134 ⁶ 11	6366	17 25.1	-05 02					22 46	22 56	53:
134 ⁶ 12	6171	16 29.7	-12 57					23 00	23 10	
134 ⁶ 13	5897	15 14.6	-20 49					23 12 ¹	23 22	40:
134 ⁶ 14	6402	17 35.0	-03 13					23:31:31	23:51:31	
	KA 109	17 42.5	-0 11					23.56.17	00:16 17	
134 ⁶ 15	NGC 6093	16 14.1	-22 52					00 20	00 26	50 W
134 ⁶ 16	6333	17 16.2	-18 28					00 30 ³⁰	00 36 ³⁰	20 W
134 ⁶ 17	6356	17 20.7	-17 46					00 39	00 53	59 W
134 ⁶ 18	6603	18 15.6	-18 26					00 56	01 16	20 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21:30	0 13E				focused on α Serp. Zens α Serp
21:35	1 34E				
21:48	1 20E				
22:0-	1 04E				
22:07	0 52E				
22:20	0 39E				
22:43	1 15E				
22:56	0 53E				
23:00	0 17W				
23:20	1 44W				Heavy haze in SW.
23:40	0 06E				} No guiding } * Sequence
23:46	0 11W				
23:50	1 50W				
23:56	0 57W				
23:59	1 59W		Look pretty good		
00:00	0 25W				

* Focus 50 PL

Focus set 15.782

Checked plunger + flipper
2910

Ver. read. 23.30

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	+38° 35'	1	2.90 Aop 10	} too close-comp. overex. } 3 exposures on one plate. } plates incorrectly numbered.
	"	"	" 10	
1-53" W	"	"	" 5-5	
0-58" W	+23° 13'	1-2	7.4 F ₅ 3-3-3	
0-45" W	-10° 10'	"	5.36 F ₀ 5-5	
0-50" W	+29° 40'	"	8.07 G ₅ 3-3-3	AG 25- Focus Test O.T.B.
		"	Variable star: too faint Ocp discarded on Mr. Hoff's suggestion	
1 40 W	27 21	1-2	8.65 K ₀ 3-3-3	movement of tel. in RA. is very difficult; too stiff. Time wasted in changing lens
1 35 W	26 20	2	8.57 K ₀ 3-3-3	lens
	O.T.B.		10/7	

4 P.Hs. LOADED

Saturday's plates in old plate box. Sunday's plates in new box. New box taken because of broken hood on old box. See below below for new plate box!

$$\begin{matrix} \text{m.c.} & -5.11 & +1.247 & +0.28 & +1.0 \\ \text{f.w.} & -0.57 & & +0.28 & 0.8 \end{matrix}$$
 advanced 1 minute

Date Mon Jan 23-24/47 S - No - T_u Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
13485	NGC 6229	16 48.6	+47 37	Hewlett	E103a-0	-	-	22 07.	22 21	1 0 37.5
13486	6229	16 48.6	+47 37	"	"			22 23	22 27	2 0 30.5
13487	6205	16 39.9	+36 33	"	"			22 30	22 32	1 0 20
13488	6402	17 35.0	-03 13	"	"			22 37	22 51	2 0 50.5
13489	5897	15 14.6	-20 49	"	"			23 16	23 26	1 0 59.5
13490	6333	17 16.2	-18 28	"	"			23 29	23 35	2 0 08.5
13491	6356	17 20.7	-17 46	"	"			23 38	23 52	1 0 20.5
13492	6402	17 35.0	-03 13	"	"			00 07	00 21	2 0 35.5
13493	6287	17 02.0	-22 40	"	"			00 26	00 40	2 0 26.5
13494	6333	17 16.2	-18 28	"	"			00 43	00 49 ³⁰	2 0 21.5
13495	6325	17 14.9	-23 42	"	"			00 55	01 19	2 0 53.5
13496	6401	17 35.5	-23 53	"	"			01 24	01 44	2 0 17.5
13497	6402	17 35.0	-03 13	"	"			01 48	02 02	1 0 10.5
13498	6626	18 21.5	-24 54	"	"			02 06	02 12	2 0 39.5
13499	6656	18 33.3	-23 58	"	"			02 14	02 18 ³⁰	1 0 33.5
13500	6717	18 49.1	-22 50	"	"			02 23	02 33	2 0 32.5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	0 37E		marvellous!		Focus set at Serp. Trouble with Newt platform down motion
27	0 30E		One night in a hundred		
232	0 20E				
251	0 56E		Not quite so good here		Focus 8 Ophi. Re-collimated slightly
326	1 59W				
335	0 08W				
352	0 20W				Focus v Ophi
302	0 35W				No guiding
340	1 26W				Lower part of sky not very transparent
349	1 21W				
319	1 53W				No guiding - poor guide stars (faint)
14	1 57W		Not so good		" "
202	2 16W				
212	1 39W				In 4 0 35 W at start is convenient for access to plate
218	1 33W				
233	1 32W	-22 51			Can't see cluster. Circles checked

Date Tues Jun 24.25/47

S/N. T.

Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angl End
13503	NGC 6093	16 14.1	-22 52	Newt	E103-a-o	-	-	23 34 ³⁰	23 42 ³⁰	20w
13504	5904	15 16.0	+02 16	"	"			23 46	23 50	27w
13505	6779	19 14.6	+30 05	"	"			23 55	00 03	28E
13506	6838	19 51.3	+18 38	"	"			00 06	00 16	4E
13507	6171	16 29.7	-12 57	"	"			00 21	00 33	5w
13508	6333	17 16.2	-18 28	"	"			00 37	00 47	24
13509	6366	17 25.1	-05 02	"	"			00 57	01 13	14w
13510*	6218	16 44.6	-01 52	"	"			01 20	01 27	26E
13511	6254	16 54.6	-04 02	"	"			01 31	01 37	25w
13512	6712	18 50.3	-08 47	"	"			01 40	01 54	20w
13513	6626	18 24	-24 54	"	"			01 57	02 05	136w
13514	6656	18 33.3	-23 58	"	"			02 07	02 13	32w
13515	6838	19 51.3	+18 38	"	"			02 16	02 26	28E
13516	7089	21 30.9	-01 03	"	"			02 33	02 37	00E
13517	6981	20 50.7	-12 44	"	"			02 42	03 01	003


Starting Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
3 42	1 20 W		Abominable		Focussed S Scorp
3 50	2 27 W				
4 03	1 20 E		Poor; hopeless		
4 10	1 44 E				
4 33	1 56 W				
4 47	1 24 W				
4 13	1 41 W				Focus S Ophi (ok) No guiding
4 37	2 06 W				" " front guide * (1" too long no way
4 37	2 05 W				
4 54	0 56 W		very thick in SW		
5 08	1 36 W				
5 15	1 33 W				
5 20	0 28 W				Telescope turns very stiffly in R.A.
5 33	1 00 E				Ta guiding
5 34	0 03 W				Clouding in SW [* ... ?] Shutters close with sweeps & scans.

NO
DIRECTIONS

Focus set 15.747

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 50	12 39	2-1-1	7.61 A₂ 7.50 G ₁	7-3	Binary l. wtk
1 19	25 72	1-2-2	7.93 G ₅	3-3-3	AG 25 Clouds on horizon guiding fine
2 33	28 05	1-2-1	8.42 G ₅	3-3-3	Brighter of double AG 25 clouds threaten N double AG 25 l. wtk.
2 49	45 21	2-1-1	7.44 A ₀	3-3-3	Binary fine
2 12	57 03	1-0-0	7.61 A ₂	3-3-3	Binary l. wtk
3 00	41	1-2-1	7.23 G ₀	3-3-3	Have seeing in process but large contrast flipper in use
	OTB		10.7		
			2 PH's	LDR	
				1 FULL AND	
				1 PARTLY FULL	
				BOX OF PLATES	
				IN DARK ROOM	
					n.c. s.c. m.t.g. s.
					June 24 -55.4 +1 20 1 +11.2 +0.2 +1.1

Focus Set. Mic 15:760

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
143	W	25 15	0	8.19 G ₅	3-3-3 A.G. 25 <i>cross hairs, light cond, dark.</i>
117	W	+29 38'	0-1	8.07 G ₅	3-3-3 " " <i>good</i>
121	W	+57 02'	0-1	6.61 A ₂	3-3-3 <i>Rings</i> <i>strong</i>
129	W	+27 37'	0~1	8.12 G ₅	3~3~3 <i>fine</i>
126	W	+25 54'	0~1	8.09 G ₄	3~3~3  <i>fine</i>
					<i>center slightly to right</i>
					<i>1st plate holder left in N-piece</i>
					<i>FIRST FOCUS TEST SPOILT. TWO MORE TESTS</i>
					<i>MADE ON SEPARATE PLATE MARKED</i>
					<i>"FOCUS TEST # 2"</i>

Timing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus set 15.805	REMARKS												
3 05	10 ^m E	+57° 03'	2	6.61 A ₂	3-3-3		bit of haze in sky generally. <u>strong</u>												
0 55	37 ^m W	+26 09'	2-2	8.27 G ₅	3-3-3		<u>weak</u>												
5	37 ^m W	+29 30	2	7.90 G ₅	3-3-3		trouble with holder #3 sticking in <u>film</u> camera. Periodic out with screwdriver <u>into</u>												
2 52	05 ^m W	+28 33	2 ⁺	7.70 K ₆	3-3-3		seeing deteriorating just before dawn; <u>9-1</u> haze and ground-fog. <u>focus good</u>												
14	2 ^m W	+25 57	3-2-	8.09 G ₅	3-3-3		10-7												
							3+8 plates in <u>alone</u>												
							<table border="0"> <tr> <td></td> <td>m.c.</td> <td>S₂</td> <td>S₁</td> <td>m.t.u.</td> <td>th.v.</td> </tr> <tr> <td>June 30</td> <td>-58.2</td> <td>+1.356</td> <td>+1.300</td> <td>+22.7</td> <td>+0.4</td> </tr> </table>		m.c.	S ₂	S ₁	m.t.u.	th.v.	June 30	-58.2	+1.356	+1.300	+22.7	+0.4
	m.c.	S ₂	S ₁	m.t.u.	th.v.														
June 30	-58.2	+1.356	+1.300	+22.7	+0.4														

Ending Time
E.S.T.

