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1
Focus - centre to violet, shorten the focus (increase micrometer reading)

(the reading)

Dome Temp.....

Transparency Conditions

4

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						DAVID DUNLAP OBSERVATORY	
						74" LOGBOOK	
						VOL 20	
						PLATE NOS. 16416-17815	
						AUG 1949 - OCT 1950	

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Date Friday Aug. 19-20/49 Observer L - Ma Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16415	Nova Scooti	18 50.9	-04 16	I-12 $\frac{1}{2}$	E-103 $\frac{0}{0}$	set .008	+18.9	20 01	22 09	1	0 51W
16416	A.G. 10315	19 39.0	27 44	"	"	"	+18.9	22 23	22 59	1	0 53W
16417	H.D. 196034	20 29.7	25 17	"	"	"	+18.9	23 03	23 43	2	0 47W
16418	A.G. 12398	21 17.0	29 51	"	"	"	+18.8	23 48	00 36	2	0 52W
16419	H.D. 210026	22 02.4	26 08	"	"	"	+18.8	00 39	01 07	3	0 38W
16420	" 215274	22 38.9	29 34	"	"	"	+18.9	01 09	01 39	3	0 34W
16421	" 219736	23 13.1	29 54	"	"	"	+18.9	01 41	01 57	4	0 17W
16422	A.G. 14185	23 32.3	25 13	"	"	"	+18.9	01 59	02 25	3	0 37W
16423	H.D. 1633	00 15.5	25 56	"	"	"	+18.8	02 37	03 11	1	0 20W
16424	4831	00 45.3	25 02	"	"	"	+18.7	03 13 ₁₆	03 29	1	0 17W
16425	6132	00 57.4	29 27	"	"	"	+18.8	03 32	04 02	2	0 38W
16426	10095	01 33.6	27 15	"	"	"	+18.8	04 04	04 20	2	0 20W
	Focus T cut							O.T. B.		2	

Date Temp.

Focus 12.9

Date Temp.

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(???)

Date Saturday, Aug. 20/21, 1949 Observer Wm. Mc Julian Day 2 133 ^{4°} ~~150~~ ⁴⁹

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16427	AG 10151	19 31.7	+30 10	7-12	E103a-0	SET 008	+18.5	22 07	22 41	3	0 ^m 48
16428	HD188015	19 48.0	+27 51	"	"	"	+18.6	22 44	23 18	3	1 ^m 09
16429	HD188258	19 49.2	27 50	"	"	"	+18.6	23 23	23 57	4	1 ^m 47
16430	AG 10838	20 1.8	29 26	"	"	"	+18.4	0 04	1 16	4	2 34 ^m
16431	HD 202521	21 11.3	27 35	"	"	"	+18.6	1 21	2 03	1	2 32 ^m
16432	HD 214434	22 33.0	25 55	"	"	"	+18.4	2 08	2 46	1	1 52 ^m
16433	HD 224085	23 49.9	28 06	"	"	"	+18.6	2 51	3 05		1 54 ^m
16434	HD 5650	0 53.1	26 15	"	"	"	+18.6	3 09	3 35		0 11 ^m
16435	HD 3650	0 34.2	26 29	"	"	"		3 53			
16435	HD ⁵³²⁸ 5164	0 ^{50.0} 42.1	⁺²⁸ 28 ⁰¹ 02	"	"	"	+18.4	4 17	4 39		1 00 ^m
Focus Test — Outside thro base											

Dome Temp. $\pm 58^{\circ}F$
 Focus... 12.980
 Dome Temp. $+57^{\circ}F$

Transparency Conditions *Same as 2e*

Mc & Wm showed M13 w 7a"
 & ass'td. objects w. 4 1/2"
 to ~150 visitors

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^w 48	+30°17'	0-1	8.98	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25 Set 2.5 Wm beat the ballout of the 7a" cross-wires - big eye piece	fine
1 ^w 09	+27°58'	0-1	8.96	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25 Set 7.5	1st star
1 ^w 47	27°58'	0-1	8.9	K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG 25 Set 2.5	need to stop
2 54W	29 38'	0-1	9.7	G5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	AG 25 Set 7.5 got the S fall. one ok Mc	weak
2 31W	27 48	0-1	9.2	K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	AG 25 Set 2.5	too strong
1 52W	26 10	0	9.0	K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	AG 25 Set 7.5	strong
0 54W	28 20	0	8.0	K0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	AG 25 Set 2.5	fine
0 21W	26 30	0	8.6	K2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	AG 25 Set 7.5	1st star
		0	8.4	G5	$\frac{1}{2}$	AG 25 Set 2.5	wrong star weak
1 28W	28 13	0	8.74	G5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	AG 25 Set 6	WRONG STAR
			7.42	A5	4-3	Set 10	

3 P.H. LOADED - PLATES NEEDED *focus OK*

Repair cross wires L.

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Date Sunday, Aug 21/22 1949 Observer L - Gu - Ma Julian Day 2433150

Plate No.	Object	R. A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16436	NOVA SCUTI	18 50.9	-04 16	I-12 $\frac{1}{2}$	E-103a-0	Set .008	+24	20 08	22 04	4	52 $\frac{1}{2}$ W
16437	AG 10499	19 47.4	+27 12	"	"	"	+24	22 09	22 31	4	0 24W
16438	AG 11332	20 23.3	+27 44	"	"	"	+24	22 46	23 30	1	0 47W
16439	HD 203030	20 14.6	+25 01	"	"	"	+24	23 39	24 09	1	0 35W
16440	AG 13070	21 54.7	+28 10	"	"	"	+23.8	24 12	24 46	2	0 32.5W
16441	" 13518	22 27.7	+25 04	"	"	"	+24.0	24 48	01 16	2	0 28.5W
16442	" 13821 HD 217351	22 54.8 55.0	+29 33 32	"	"	"	+23.8	01 19	02 06	5	0 52.5W
16443	H.D. 223231	23 42.6	+26 37	"	"	"	+23.9	02 09	02 49		0 47W
16444	" 2839	00 26.7	+27 58	"	"	"	+23.6	02 58	03 28		0 42.5W
16445	AG 814	01 21.3	+26 59	"	"	"	+23.8	03 32	04 12		0 31W
	Focus Test							07. B.			

Date Temp. +
Form. 12-98
Date Temp. +

Dome Temp. +73°F

Focus... 12.980

Dome Temp. +63°F

Transparency Conditions *Good!*

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Reading Time E.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 04	4	52W	-4 16	1+	9.3	Krs?	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ Set 2.5	fine
22 34	4	0 24W	+27 12	2	9.0?	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ " 7.5 AG 25	fine
23 30	1	0 47W	+27 44	2	9.3	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ Set 2.5 " " Took yellow star of ^{double}	fine
4 09	1	0 35W	+26 00	2	9.3	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ " 7.5 " "	fine
4 52	2	0 32W	+28 23	2	9.3?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ set 2.5 " "	fine
1 11		0 28W	+25 20	2	9.1?	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ set 7.5 " "	fine
2 04	3	0 52W	+29 48	2	8.4 9.7?	A2 G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ set 2.5 " " check too strong	fine
2 11		0 47W	+26 54	2	9.5?	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ set 7.5 unable to find H.D. 2854 on finder chart ^{pr. succedens}	fine
3 27		0 42W	+28 13	2	9.2?	G	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ set 2.5 " "	fine
4 12		0 31W	+27 15	2	9.5?	K3	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	{ set 6.0 " "	fine
							4-3	{ set 9.5 focus ok	

2 P.H. Loaded 8 plates in box.

MTW STW
-27^s +0.3

Date Mon Aug 23/23Observer Pa - GrJulian Day 2433151

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16446	Nova Scuti	18 50.9	-04 21	E12"	E103a-0	.008	25.8	2007	2200	1	052 W
16447	AG 40694	19 53.2	+29 40	"	"	"	25.9	2205	2245	1	036 W
16448	" 11519	20 32.2	26 03	"	"	"	25.8	2249	2321	2	032 W
16449	" 12158	21 03.4	29 58 23 14	"	"	"	25.8	2325	0005	2	045 W
16450	" 13020	21 51.7	25 58	"	"	"	25.8	0010	0050	3	042 W +
16451	HD 211407	22 11.7	+25 45	"	"	"	25.8	0052	0140	3	113 W +
16452	" 218113	23 00.3	+27 40	"	"	"	25.8	0144	0210	4	054 W +
16453	AG 14190	23 33.8	+25 33	"	"	"	25.8	0213	0241	4	052 W +
16454	HD 1996	00 19.1	+25 51	"	"	"	25.8	0244	0318	1	043 W +
16455	" 5449	00 51.2	+28 15	"	"	"	25.8	0321	0355	1	048 W +
16456	" 7300	01 08.1	+25 55	"	"	"	25.8	0357	0411	2	045 W +
16457	" 10766	01 40.2	+25 54	"	"	"	25.8	0414	0440	2	044 W +
	Focus Test						O.T.B.			2	

Dome Temp... 71

Focus... 12.980

Dome Temp.....

Transparency Conditions *fair, considerable scintillation*

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
052 W	-4 15	2	^{uis} 9.5	P	1-1-1	Sat 2.5 } Deep red color	1 week
036 W	29 48	2	9.5	G0	1-1-1	7.5 } AG 25	fine
033 W	26 14	3	9.6	K0	1-1-1	2.5 } "comp. weak"	fine
045 W	30 10	2	⁸⁸ 9.4	G0	1-1-1	7.5 }	strong
042 W	+26 12	1-2	9.4	G0	1-1-1	2.5 }	fine
1 13 W	+26 00	1-2	9.3	G5	1-1-1	7.5 }	fine
0 54 W	+27 55	3	9.4	K0	1-1-1	2.5 } guided on	weak
0 52 W	+25 40	2	9.0	K0	1-1-1	7.5 } red end ?	weak
0 43 W	+26 08	2	9.2	G5	1-1-1	2.5 }	strong
0 48 W	+28 31	2	9.2	G5	1-1-1	7.5 }	strong
0 45 W	+26 12	3	8.56	K0	1-1-1	2.0 }	fine
0 44 W	+26 10	3	9.4	G5	1-1-1	6.0 }	fine
					4/3	9.5 }	OK

4 P.H. loaded - Plates needed!
 Aug. 24 MC SC MTW STW
 -47.0 +27.5 -28.2 +0.4

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Date Wed Aug 24/25 1949 Observer Ba - Mi Julian Day 2433153

Plate No.	Object	R. A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16458	Nova Scuti	18 50.9	-04 21	512"	103a0	^{set} .012	25.0	19 58	21 52	1	0 52W
16459	HD 187548	19 45.4	+28 21	"	"	"	25.0	22 03	22 25	1	0 32W
16460	HD 190885	20 02.0	+27 51	"	"	^{set} .008	25.0	22 32	23 18	2	1 08W
16461	HD 201860	21 07.2	+25 55	"	"	"	25.0	23 24	00 10	2	0 55W
16462	HD 201826	21 05.7	+26 13	"	"	"	24.8	00 15	01 10	3	1 59W
16463	218153	23 00.6	+25 29	"	"	"	24.8	01 13	01 33	"	0 35W
16464	218610	23 04.3	+26 23	"	"	"	24.8	01 36	01 52	4	0 40W
16465	221170	23 24.6	+29 53	"	"	"	24.8	01 55	02 19	"	0 44W
16466	664	00 05.8	+29 01	"	"	"	24.9	02 16	02 36	1	0 22W
16467	2854	00 26.8	+27 06	"	"	"	24.9	02 39	03 09	1	0 35W
16468	6525	01 01.1	+29 10	"	"	"	24.9	03 13	03 29	2	0 20W
16469	9269	01 26.1	+30 06	"	"	"	24.9	03 31	03 53	2	0 15W
16470	11130	01 44.4	+29 00	"	"	"	25.0	03 55	04 19	3	0 37W
16471	13943	02 10.6	+29 20	"	"	"	24.8	04 22	04 40	2	0 22W
Focus Test) Set 10.0											
O.T.B.											

Dome Temp 7
Focus 12 98
Dome Temp 66

Dome Temp. 71°

Focus. 12.981

Dome Temp. 60°F

Transparency Conditions Cloud drift haze clear, etc 25
1.4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 52W	-04 21	0	9.8?	-	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	good
0 32W	+28 28	0	8.3	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 7.5 AC 25	1 star up
1 08W	+27 51	0	9.0	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	1 weak
0 55W	26 07	0-1	8.9	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 7.5	1 weak
1 57W	26 25	0-1	8.9	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Normal exposure time doubled to give a busy plate. Set 2.5	1 weak
0 25W	25 45	0-1	8.4	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	1 weak
0 40W	26 37	2+	8.8	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	poor seeing Set 2.5	1 weak
0 41W	30 10	2	8.8	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	seeing varying 3 to 4 during exposure. Set 2.5	1 weak
0 22W	29 15	2	8.9	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Set 2.5	1 weak
0 35W	27 22	1	9.0	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Image seems very faint. Set 2.5	1 weak
0 20W	29 24	2	8.6	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	1 weak
0 18W	30 21	2	9.0	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	1 weak
0 27W	29 10	1	8.8	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	1 weak
0 22W	29 34	2+	8.9	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	1 weak

4/3
focus OK
O.P.H. + Start fresh box

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Date Thurs Aug 25/6, 1949 Observer Wm - Ma Julian Day 2 433 154

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16 472	Nova Scuti	18 ^h 50 ^m 9	-04° 16'	I-12 $\frac{1}{2}$	E103a-D	SET 012	+24.3	20 09	21 47	4	0° 51'
16 473	AG 10601	19 ^h 51 ^m 3	+29° 44'	"	"	RESET 003	+24.0	21 55	22 35	4	0° 39'
16 474	HD 195 448	20 32.4	+28 52	"	"	"	+24.2	22 44	23 20	1	0° 44'
16 475	HD 204 079	21 21.1	+26 46	"	"	"	+24.1	23 24	00 04	1	0° 25'
16 476	AG 13167	22 00.6	+25 10	"	"	"	+23.9	00 08	00 44	2	0° 40'
16 477	H.D. 215360	22 39.5	+29 05	"	"	"	+24.0	00 47	01 35	2	0° 34'
16 478	H.D. 223094	23 41.5	+28 09	"	"	"	+24.0	01 39	01 57	3	0 12 W +2
16 479	H.D. 224458	23 53.0	+29 24	"	"	"	+24.0	02 00	02 42	3	0 45 W +2
16 480	H.D. 4549	00 42.4	+26 34	"	"	"	+24.0	02 46	03 08		0 22 W +2
16 481	AG 710	01 08.5	+25 45	"	"	"	+24.0	03 12	03 52	4	0 40 W +2
16 482	H.D. 11721	01 49.9	+25 37	"	"	"	+24.0	03 55	04 17	1	0 23 W +2
16 483	H.D. 14490	02 15.3	+29 28	"	"	"	+24.0	04 20	04 40	1	0 21 W +2
	Fowstent							O.T. B		1	

Dome Temp..... 74°F

Focus..... 12.981

Dome Temp..... +67°F

Transparency Conditions..... F.A.R., deteriorating - mag. Thick ^{0.12} clouds

Clouds at sunset.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality		
0 ^m 51	-4° 16'	1	V15 9.8		$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Telescope waves like mad	Set 2.5 fine		
0 ^m 39	+29° 51'	1	8.98	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 7.5 fine		
0 ^m 44	+29° 00'	1	8.90	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	some difficulty w. field	Set 2.5 stump		
0 ^m 39	+27° 00'	1	8.96	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 7.5 fine		
0 ^m 40	+25 25	1-2	9.3?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Allow 0.2 mag for haze	Set 2.5 stump		
0 52 W	+29 20	2	9.5?	M0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Set 7.5 stump		
0 12 W	+28 25	1-2	8.30	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Set 2.5 stump		
0 45 W	+29 42	1-2	9.2?	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Set 7.5 stump		
0 22 W	+26 50	2	8.68	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Set 2.5 stump		
0 40 W	+26 00	3	9.7?	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	0.4	Set 7.5 weak		
0 23 W	+25 52	3	8.99	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Set 2.5 stump		
0 21 W	+29 43	3	8.9?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	Set 7.5 stump		
					4-3		Set 10.5 OK		
						2 P.H. Loaded	12 photos in Box.		
						MC	SC	MTW	STW
Aug. 26						-50.2	+30.0	-27.2	+0.4

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Saturday Aug 27/28 Hd-Ma About 40 visitors - demonstrated
 wound both watches 21:20 telescope. Mainly cloudy with a few
 stars for short intervals.

Date Monday, August 29/30, 1949 Observer Wm - Gr Julian Day 2, 433, 158

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16484	Novo Scuti	18 50.9	-4 16	J-12's	E103a-0	SET 012	+21.3	20 24	22 54	1
16485	AG 12 677	21 30.9	+27 34	"	"	RESET .008	+21.1	23 22	00 12	1
16486	HD 211884	22 15.2	+25 13	"	"	"	+21.1	00 15	00 35	2
16487	" 213857	22 29.3	+29 14	"	"	"	+21.0	00 38	01 02	2
16488	" 218199	23 01.0	+30 11	"	"	"	+21.0	01 05	01 31	3
16489	AG 14232	23 38.8	+30 11	"	"	"	+21.0	01 33	02 21	3
16490	HD 2552	00 24.1	+28 16	"	"	"	+21.0	02 24	02 52	4
16491	" 6132	00 57.4	+29 27	"	"	"	+21.0	02 54	0 ³ / ₂ 10	4
	Focus Test		D.T.B.							

Dome Temp. 66
 Focus 12.32
 Dome Temp. 61

Hour Angle
 End

2^W 5 -
 0 53W -
 0 32W +
 0 45W +
 0 42W +
 0 54W +
 0 41W +
 0 24W +

Dome Temp... 66° F

Focus... 12.981

Dome Temp... 61° F

Transparency Conditions Occasional thin cloud

185

Aug. 29

MC SC MTW STW
reset +32.3 -23.2 +0.4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^W 15	-4° 12'	0-1	9.9		$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	TELESCOPE EAST OF PIER. TOOK A LITTLE SET 2.5 WHILE BECAUSE FINDERS OUT OF LINE W SP GRAPH DATA REMOVE	fine
0 53W	+27 46	0-1	8.79	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	TEL. NOW W CF PIER SET 7.5	fine
0 32W	+25 28	2	8.68	K ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25 " 2.5	fine or. guide.
0 45W	+29 28	2	8.77	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " " 7.5	strong
0 42W	+30 27	2	8.9?	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " " 2.5	fine
0 54W	+30 27	1-2	9.3?	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Muggy in W & SW. Horiz. Some lightning " 7.5	strong
0 40W	+28 32	2	8.51	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " " AG. 25 ($\frac{1}{2}$ mag for lens) 2.5	weak
0 24W	+29 43	1-2	8.62	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ 4-3	Light clouds closing in from W. + N.W. " " 7.0 + still some lightning in W. so will close... 9.5 Last half of exp. "blacked" intermittently, then continuously.	OK
Shutter - closing motor O.C.S. so closed shutters by hand.							
2 P.H. loaded + 4.							
Trouble located and repaired, faulty contact in relay.							

19

Tuesday

Date August 30-31st. 1949 Observer Mi Julian Day 2433159

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16492	HD 224895	23 56.5	+27 53	T-12	E103 a 0	.008	+21.6	0144	0158	1	0 20 W
16493	AG 63	00 09.3	26 30	"	"	"	21.4	0155	0217	1	0 25 W
16494	HD 2854	00 26.8	27 06	"	"	"	21.6	0221	0237	2	0 26 W
16495	5462	00 51.3	25 48	"	"	"	21.4	0240	0306	2	0 30 W
16496	9446	01 27.7	28 45	"	"	"	21.4	0309	0331	3	0 2 W
16497	11781	01 50.5	26 59	"	"	"	21.3	0334	0346	3	0 1 W
16498	12972	02 01.9	29 17	"	"	"	21.3	0349	0409	4	0 2 W
16499	14949	02 19.5	27 13	"	"	"	21.2	0416	0436	4	0 30 W
16500	18328	02 51.6	+29 19	"	"	"	21.2	0439	0454	1	0 2 W
9-11-10-11-12-13-14-15	O.T.B.										

Dome Temp. 66
Focus 12.98
Dome Temp.

Hour Angle
End

0 20 W

0 25 W

0 26 W

0 30 W

0 2 W

0 1 W

0 2 W

0 30 W

0 2 W

9/11/49

Dome Temp. 66°F

Focus 12.980

Dome Temp.

Transparency Conditions *Overcast during 0100 GST.*

No allowance for haze.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01	2m W	28 08	3-2	9.0	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		ok 2.5
0	25 W	26 45	3	9.4	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		7.5
0	26 W	27 21	3	9.0	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Lightning on S in horizon	2.5
0	30 W	26 03	3-	9.4	M ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Dr. 0257.15 V. brilliant meteor passed betw. Aldel. & Orion	7.5
0	20 W	29 00	2	9.0	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		2.5
0	11 W	27 14	3	8.8	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		7.5
0	24 W	29 30	3-	9.0	GA ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Wrong star identified on programme	2.5
0	32 W	27 26	2-3	9.1	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Difficult to identify field.	7.5
0	24 W	29 30	3-	9.2	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		2.5
							1 P.L. +8 + box of 4 foc. in spotting room (these a.k.a. 1-2).	
							Dome refused to turn, fortunately when in position.	
Wed Aug 31, Thunderstorms aft. and evening. Overcast.							HC SC LITW STW Aug. 31 -012 +35.4 -22.0 0.0	

Date Thurs, Sept 1/2, 1949 Observer Wm. Gu. - Ma Julian Day 2,433,16.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
16501	Nova Scuti	18 50.9	-04° 16'	I-12 $\frac{1}{2}$	E103a-0	SET 012	15.5	20 20	23 20	2	2.53	
16502	HD 210685	22 07.0	+26° 46'	"	"	008	15.5	23. 56	00 26	2	0 4.14	27
16503	HD 216685	22 49.8	+25 50	"	"	"	15.2	00 32	01 10	1	0 0.13	
16504	HD 223019	23 40.8	+25 47	"	"	"	15.4	01 16 ²⁵	02 00	1	0 0.13	
16505	AG 37	00 06.2	+29 54	"	"	"	15.4	02 04 ²²	02 40	2	2 0.13	
16506	HD 7426	01 09.3	+25 54	"	"	"	15.2	02 43	03 07	2	0 0.13	
16507	HD 9638	01 29.4	+28 36	"	"	"	+15.3	03 10	03 54	3	0 0.13	
16508	HD 12426	01 56.7	+24 17.	"	"	"	+15.4	03 37	04 05	3	0 0.13	
16509	HD 14876	02 18.9	+27 13	"	"	"	+13.5	04 08	04 30	2	0 0.13	
16510	HD 18450	02 52.1	+26 22	"	"	"	+15.3	04 32	04 54		0 0.13	
	Focus Test							O.T.B.				

Dome Temp. +5.
Focus 12.2
Dome Temp. -5.

Dome Temp... +56°F

Focus... 12.981

Dome Temp... +50°F

Transparency Conditions... Clouds near horiz.

Scattered clouds - rest of haze 0.2 mag

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.53W	-04° 12	0-1	^{VIS} 10.0	.	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	clouds @ sunset delayed starting telescope east of pier Clouds also delayed setting (Set 2.5) On guiding most of time	OK
0 43W	+27 02	1	8.82	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	(Set 7.5)	1 star
0 46W	+29 05	1	9.3?	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	bright Aurora meeting at mag with (Set 2.5)	2 stars
0 43W	+26 05	1	9.84	K ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	clouds from 0:25 - 0:45 (Set 7.5)	fine
0 58W	+30 13	1-2	8.8?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	clouds from 0:20 - 0:31 (Set 2.5)	1 star
0 22W	+26 12	2	8.7?	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	few clouds, 0.2 fr haze (Set 1.5)	1 star
0 29W	+28 51	2	8.88	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	0.2 fr haze (Set 2.5)	1 star
0 32W	+29 31	2	8.98	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	0.2 " " (Set 1.5)	fine
0 35W	+27 25	2	8.79	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	0.2 " " (Set 2.5)	fine
0 24W	+26 34	2	8.79	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	0.2 " " (Set 7.5)	fine
					4-3	(Set 10.5)	6 to Red slightly
2 P.H. Loaded in ref. sig.							
4 plates in Box.							

Date Fri, Sept 2-3 1949

Observer H. Mc

Julian Day 2433162

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16511	Nova Scuti	18 50.9	-04 16	1-12	^{new} E 10320	015	+18.6	20 11	23 33	4
16512	H.D 201626	21 57	+26 13	1-12	^{old} E 10300	008	18.5	00 18	01 48	1
16513	" 2713	0 25.6	27 34	1-12	^{old} "	"	18.7	01 56	02 30	2
16514	" 6274	0 58.6	26 03	"	^{old} "	"	18.5	02 33	03 09	3
16515	" 6286	0 58.7	26 04	"	^{old} "	"	18.6	03 11	03 37	4
16516	AG 1158	2 4.5	29 20	"	^{old} "	"	18.5	03 41	04 13	1
16517	" 1265	2 16.4	29 50	"	^{new} "	"	18.6	04 18	04 48	2
Focus Test						Outside Through Base				

Dome Temp

Focus 12 98

Dome Temp 52

Hour Angle
End

Dome Temp. 63 F

Focus 12.980

Dome Temp. 57° F

Transparency Conditions *Some haze low down* 24

Aurora from 2130 very brilliant at 0205

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 3 09	-4 13	2 → 1	Est. in 10.0		$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	<i>Seeing difficult w/c good seeing and faint image. Telescope east of pier</i>	<i>rounded with most of visible light to left (for above) slit.</i>
W 3 10	+26 26	2	9.0	K2	$\frac{2}{2} \frac{1}{2} \frac{1}{2}$	0.3 mag for haze. AG 25	
W 0 32	+27 51	2	9.1	G0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	" "	
0 39W	+26 16	2	9.1	G0	$\frac{1}{2} \frac{2}{2} \frac{1}{2}$	" AG 25	<i>aurora covering almost entire sky, 0250 please check if right star, dec 3' out.</i>
1 06W	+26 18	2	8.9	G0	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	0.2 " "	" 2'
0 36W	+29 34	2	9.1	G0	$\frac{1}{2} \frac{2}{2} \frac{1}{2}$	0.2 "	
0 59W	+30 04	2	9.1	?	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	0.2 "	set 5 Spectral type not in prog.
					4-3		set 9
						2 p.h. loaded + 8.	

25

Date Sat Sept 3/4 1949 Observer Ba
Gr Julian Day 2433163

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16518	HD 187460	19 45.0	29 38	I 12"	103a-0	.008.	22°	2103	2153	3
16519	195834	20 28.6	28 43	"	"	"	22	2156	2230	4
16520	203030	21 14.6	25 49	"	"	"	22	2233	2223	1
16521	209745	22 00.6	29 24	"	"	"	22	2328	2354	
	Focus Test	OTB								

22.0?

Dome Temp. 63
Focus 2.95
Dome Temp. 63

Hour Angle
End
040° W 29
033° W 25
041° W 2

Dome Temp. 7.4
 Focus 12.981 (Read)
 Dome Temp.

Transparency Conditions *Not good enuf. 2 open - passing clouds* 28

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																
0 ^w 57	+29°22'	1	8.89	KO	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG25	<i>strong</i>																
6 ^w 49	+26 01	1-0	8.78	G5	$\frac{1}{2} - \frac{1}{2}$	AG25 Getting hazier	<i>fine</i>																
	O.T.B.				A/3	Substantially solid 0' east - Set 9																	
<p>APH Loaded - need new box</p> <p>Mon Sept 5/6 Clouding over at sunset, sky remaining thick.</p>																							
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td colspan="3"></td> </tr> <tr> <td>Sep. 6</td> <td>-08°0</td> <td>+42.4</td> <td>+00°3</td> <td>+0°1</td> <td colspan="3"></td> </tr> </table>									MC	SC	MTW	STW				Sep. 6	-08°0	+42.4	+00°3	+0°1			
	MC	SC	MTW	STW																			
Sep. 6	-08°0	+42.4	+00°3	+0°1																			
<p>wed, sept 7/8 Solid overcast & rain W.</p>																							

29

Thursday

Date 8th/9 Sept. 1949

Observer L-Gu-Ma Julian Day 2,433,168

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16524	HD 206385	21 36.7	29 51	12 $\frac{1}{2}$ "	E103A-0	008	13.5	22 55	23 13	1	0 28 W 3
16525	HD 210789	22 07.7	24 59	"	"	"	13.5	23 24	00 02	2	0 06 W 2
16526	HD 1605	00 15.2	30 25	"	"	"	13.5	00 16	00 30	3	0 54 E 3
16527	HD 221133	23 24.3	25 16	"	"	"	13.5	00 33	01 05	4	2 32 W 2
16528	HD 2084	00 20.0	29 33	"	"	"	13.5	01 09	01 41	1	0 31 W 2
16529	AG 366	00 32.6	25 18	"	"	"	13.4	01 45	02 15	2	0 22 W 2
16530	HD 7352	21 08.6	25 17	"	"	"	13.5	02 18	02 52	3	0 35 W 2
16531	AG 991	01 44.0	29 27	"	"	"	13.3	02 55	03 15	4	0 22 W 2
16532	HD 13017	02 02.3	29 05	"	"	"	13.2	03 18	03 44	1	0 34 W 2
16533	HD 17963	02 47.1	29 42	"	"	"	13.4	03 46	04 15	2	0 22 W 2
16534	HD 19485	03 02.8	25 13	"	"	"	13.3	04 21	04 41	3	0 30 W 2
16535	HD 17382	02 42.2	26 40	"	"	"	13.4	04 43	04 57	4	1 07 W 2
16536	HD 17673	02 45.1	30 06	"	"	"	13.2	05 00	05 17	1	1 24 W 2
	Focus Test							O.T.B			

Dome Temp. 50

Focus 12.9

Dome Temp. 45

Dome Temp. 50°F

Focus 12.981

Dome Temp. 45°F

Transparency Conditions Fair
back of clouds passed over
Moon to star finder field
difficult to see faint stars.

5.68

Leading Time
L.S.T. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 28W	30 05	0	8.05	K ₂	1/2-1/2-1/2	AG. 25 Clouds earlier in evening	fine
0 46W	25 13	0	8.75	K ₀	1/2-1/2-1/2	AG. 25	ok
0 54E	30 43	1-0	8.05	G ₀	1/2-1/2-1/2	" " Set on wrong star first - set 8.0	fine
0 32W	25 32	0-1	8.87	K ₂	1/2-1/2-1/2	" "	ok
0 13W	29 49	0-1	8.86	G ₅	1/2-1/2-1/2	" "	ok
0 39W	25 33	1	8.99	G ₅	1/2-1/2-1/2	" "	ok
0 35W	25 34	1-0	8.9?	G ₅	1/2-1/2-1/2	" " NOT marked on finder chart.	ok
0 23W	28 27	2	8.88	G ₅	1/2-1/2-1/2	* " " 02:30 clouds	NOTHING
0 34W	29 20	1-2	8.98	K ₀	1/2-1/2-1/2	" "	ok
0 22W	29 54	1-2	9.2?	G ₀	1/2-1/2-1/2	" " numbered 11533	ok
0 30W	25 26	1-2	8.70	G ₅	1/2-1/2-1/2	" " partially veiled	ok
1 07W	26 55	1-2	8.33	K ₀	1/2-1/2-1/2	* " " exposed in tail overlap 1/4 sec	ok
1 24W	30 19	2	8.33	K ₀	1/2-1/2-1/2	" " { set 5.0	ok
					4-3	ok { set 9.0	

3 P.H. Loaded in 'lug' - New box needed
* Note - back plate holder 4

Friday

Date 9/10 Sept 49 Observer Ba + Ma Julian Day 2433169

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16537	Nova Scauli	18 50.9	-24 16	T12"	E103A-0	^{Cat.} .01"	14.5	1956	2330	3	2323
16538	HD 216632	22 49.4	+27 29	"	"	^{Reset} 0.008	14.2	0010	0019	4	21.1
16539	AG 13863	22 59.4	+27 16	"	"	"	14.3	0026	0058	1	0.5
16540	H.D. 223332	22 42.6	+27 49	"	"	"	14.2	0101	0117	2	0.28W
16541	H.D. 2243	00 22.2	+30 21	"	"	"	14.4	0120	0144	3	0.6W
16542	HD 3766	00 35.3	+29 28	"	"	"	14.4	0147	0207	4	0.2W
16543	AG 966	01 40.9	+29 03	"	"	"	14.1	0211	0225	1	0.22E
16544	H.D. 9714	01 30.0	+27 46	"	"	"	14.2	0227	0241	2	0.5
16545	HD 9984	01 32.4	+25 24	"	"	"	14.3	0244	0257	3	0.7
16546	H.D. 10296	01 35.6	+27 58	"	"	"	14.3	0302	0320	4	0.38W
16547	H.D. 14479	02 15.2	+30 14	"	"	"	14.2	0324	0338	1	0.8W
16548	H.D. 16139	02 30.4	+27 01	"	"	"	14.5	0342	0356	2	0.20W
16549	H.D. 18403	02 52.3	+26 56	"	"	"	14.4	0359	0413	3	0.5
16550	H.D. 19079	02 59.1	+29 48	"	"	"	14.3	0415	0439	4	0.4W
16551	HD 21820	03 26.0	+29 12	"	"	"	14.2	0442	0454	1	0.22W
16552	H.L. <u>24301</u> Fornax 1st	03 46.9	+26 22	"	"	"	14.2	0457	0507	2	0.15W

Dome Temp. 5
Focus 29
Dome Temp. 8

Hour Angle
End

Dome Temp. 57°F

Focus 12.981

Dome Temp. 50°F

Transparency Conditions Good

32

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2330	3	0333 W	-09 14	1-2	^{worst} 10.0	—	1-1-1	Much difficulty in finding Nova.	none
19		0 25 W	+27 45	2	8.0?	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Damaged watch by knocking off table.	much too strong
08		0 53 W	+27 33	2-1	9.2?	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Telescope lamp in Dec but fog out, must be necessary.	strong
12		0 28 W	+28 05	2	8.70	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	2230 Dome relays failed to operate, but worked after	too strong
14		0 16 W	+30 38	2-1	8.90	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	being freed manually. At conclusion of exp	strong
17		0 26 W	+29 45	2	8.91	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Found plunger for focus set partially withdrawn	strong
		0 22 E	+29 19	3	8.88	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$? Fogged by arc while being numbered?	too strong
		0 05 W	+28 00	3	8.88	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	* looks brighter than 8.7 pty	burned out
		0 21 W	+25 38	3	8.96	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		poorly guided
		0 38 W	+28 15	3	9.2?	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		much too strong
		0 18 W	+30 27	3	8.89	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		much too strong
		0 20 W	+27 15	3	8.86	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		strong
		0 15 W	+27 09	3	8.90	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		much too strong
		0 34 W	+30 02	3	9.3?	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	add $\frac{1}{2}$ min for hrs.	burned out
		0 22 W	+29 20	3	8.78	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	2 P# Loaded 2 platinum boxes	much too strong
		0 15 W	+26 31	3	8.61	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ 4-3	Low mag	burned out

33

Date Sat Sept 10-11, 1949 Observer Ad. Mi Julian Day 2433.170

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16553	AG 11990	20 55.7	+28 53	I-12	E10320	008	+17.1	22 05	22 35	3	4039
16554	HD 204934	21 26.8	27 56	"	"	"	17.0	22 39	23 07	4	4040
16555	HD 209994	22 02.2	27 51	"	"	"	17.1	23 10	23 36	1	4039
16556	HD 210608	22 06.4	29 09	"	"	"	17.0	23 39	23 59	2	051N
16557	AG 13862	22 59.4	28 17	"	"	"	17.0	00 03	00 18	3	020W
16558	HD 218454	23 03.1	29 54	"	"	"	17.0	00 22	00 32	4	
16559	221479	23 27.4	25 58	"	"	"	17.0	00 40	00 54	1	020W
16560	221479 O.T.B.			"	"	"					

Dome Temp. 75

Focus 1200

Dome Temp.

Dome Temp. +57 F

Focus 12.982

Dome Temp.

Transparency Conditions *Some cloud + haze*

34

about 75 visitors showed 4 with 74", 4 + 5 with 4"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 39	29 05	1	8.95+	G ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		to stars
W 0 40	28 08	1	8.89	K ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		stars
W 0 39	28 04	1	8.93	K ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		stars
O 53 N	29 23	2	8.89	K ₂	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	poorly guided	stars
O 20 W	28 34	2	8.6	G ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	poorly guided	-
	30 10	3	8.47	K ₅	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		stars
O 22 W	26 15	3	8.6	G ₋	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Clouds coming over. poorly guided	-
					4/3	center of Red?	
0300 E.D.T. light filmy cloud + scattered cirrus Closed down.							
3 P.H. Plates needed!							
Heat on mirror!							
Sunday Sept 11-12, 1949							
Overcast all night.							
sep. 12	MC	SC	MTW	STW	Gr		
	-13.0	+50.4	+09.2	+0.4			

Date Sun. Sept. 13/14 1948 Observer M. Julian Day 243373

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16560	HD 3252	00 38.6	+28 32	I-12	F103a0-	.008	17.0	01 28	01 44	2	0 25 W
16561	5917	00 55.6	28 29	"	"	"	16.9	01 46	02 06	3	0 22 W
16562	8300	01 17.2	26 03	"	"	"	16.9	02 09	02 23	4	0 17 W
16563	10766	01 40.2	25 54	"	"	"	16.8	02 27	02 47	1	0 15 W
16564	AG 1147 ⁵	02 01.9 ^{02.3}	29 05 ⁰⁵	"	"	"	16.9	02 50	03 08	2	0 18 W
16565	HD 14876	02 18.9	27 13	"	"	"	16.8	03 11	03 29	3	0 21 W
16566	17119	02 39.7	29 55	"	"	"	16.8	03 32	03 48	4	0 22 W
16567	19079	02 59.1	29 48	"	"	"	16.8	03 50	04 11	1	0 38 W
16568	19485	03 02.8	25 13	"	"	"	16.8	04 21	04 45	2	0 54 W
16569	19165	02 59.9	27 18	"	"	"	16.7	04 48	05 02	3	1 14 W
16570	18929	02 57.6	27 11	"	"	"	16.8	05 05	05 13	4	1 21 W
F. Lowell } O.T.B.											

Dome Temp. 5

Focus 1298

Dome Temp. 5

Dome Temp. 57°F

Focus 12.981

Dome Temp. 50°F

Transparency Conditions Good. No allowance for haze. 36

Overcast, clearing by 0100 E.S.T. except for few scattered clouds in SE.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	25W	28 48	1-	8.6	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Allowing 2.2 mag. throughout.	weak
2	22W	28 42	1	8.88	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		fine
2	17W	26 18	1	8.6	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		fine
2	18W	26 10	1-	8.8	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		o. good
3	18W	29 51	1	8.98	G ₅ K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	(programme star taken)	weak
3	22W	27 26	1	8.79	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Seeing variable	fine
	20W	30 06	1	8.7	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		fine
	30W	30 00	1-0	9.1	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		fine
	54W	25 25	1	8.7	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Time lost because of blown dec. setting frame. (large star, poly slit)	strong
1	14W	27 29	1-0	8.49	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		fine
1	28W	27 22	1+	8.2	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Seeing variable during Run - probably fainter - center to red	
						4/3.		
							4 P.H. loaded. Plates needed.	
							H ON M.	
							MC SC MTW STW Sep. 14 -15.3 +51.4 +18.3 +0.7	

37

Date Thursday Sept 15-16, 1949 Observer Hd. Gu., Mc Julian Day 2433.175

Dome Temp -5
Focus 12.9
Dome Temp 14

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16571	Nova Scuti	18 50.9	-04 16	I-12"	E103A-0	.015	+15.8	19 42	23 08	1	4336
16572	HD 217230	22 54.2	+26 57	"	"	^{reset} .008	+15.8	23 45	23 57	2	0 23 -
16573	HD 217351 AG 13827	22 55.0	+29 32	"	"	"	+16.0	00 02	00 28	3	0 52 -
16574	AG 13639	22 36.8	29 31	"	"	"	+16.0	00 35	01 29	4	1 10 -
16575	HD 6286	00 58.7	26 04	"	"	"	+16.0	01 34	01 48	1	0 09 +
16576	HD 6274	00 58.6	26 03	"	"	"	+16.0	01 49	02 05	2	0 22 -
16577	HD 5638	01 29.4	28 36	"	"	"	+16.0	02 08	02 30	3	0 8 -
16578	AG 1077	01 52.7	25 18	"	"	"	+16.0	02 35	02 57	4	0 20 -
16579	AG 1265	02 16.4	29 50	"	"	"	+15.9	03 02	03 16	1	0 50 +3
16580	HD 14608	02 16.5	29 53	"	"	"	+16.0	03 18	03 36	2	0 32 -
16581	HD 18554	02 53.9	30 12	"	"	"	+15.9	03 43	03 59	3	0 22 -
16582	HD 18202	02 50.3	28 45	"	"	"	+15.9	04 02	04 24	4	0 53 -
16583	HD 24301	03 46.9	26 22	"	"	"	+15.9	04 31	04 49	1	0 22 -
16584	HD 27741	04 17.6	27 58	"	"	"	+15.9	04 54	05 16	2	0 22 -
	Focus Test				Outside through base						

Dome Temp. +58°F

True focus 12.970

Transparency Conditions

Remaining good.

Focus 12.981 (then 12.970) - Didn't notice this at first - Hd.

Dome Temp. +48°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 36	-4 13	1	est 10.5	-	1-1/2	Tel. east. No guiding	fine
0 23W	+27 13	1+	8.48	K0	1/2-1/2-1/2	Set focus 12.970 AG25	fine
0 52W	+29 49	1-0	9.0 ^{8.4}	A2 55	1/2 1/2 1/2	"	fine
2 12W	+29 48	1	^{prop} 10.0	K5	2 2 2	no Mpg given in prog	weak
0 09W	+26 17	1	8.6	G0	1/2 1/2 1/2	" dec 3' out <small>see plate 165/5 also 3' out is</small>	good
0 26W	+26 16	1	8.77	G0	1/2 1/2 1/2	" dec 3' out	good
0 20W	+28 51	0-1	8.88	K0	1/2 1/2 1/2	" r.p.t. spoiled	fine
0 24W	+25 35	0-1	8.93	G0	1/2 1/2 1/2	" dec up and down	fine
0 19W	+30 04	0-1	8.44	P?	1/2 1/2 1/2	no spectral type listed.	good
0 39W	+30 06	0-1	8.54	K0	1/2 1/2 1/2	"	fine
0 25W	+30 20	0-1	8.60	G5	1/2 1/2 1/2	dec 4' out.	l work
0 53W	+28 58	0-1	8.89	K0	1/2 1/2 1/2	seeing variable	to star
0 22W	26 31	0	8.61	G0	1/2 1/2 1/2	"	fine
0 20W	28 06	0	8.93	G0	2 2 2	set 5 } set 9 } <small>focus OK</small>	fine
						<small> Sep. 16 -20.2 SC +49.0 MTW +26^s STW -0^m.1 </small>	
2 plate holders loaded - plates needed							

Date Sept 16-17, 1949 (Friday) Observer Cu, Gr Julian Day 2433.176

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16585	HD 215274	22 38.9	+29 34	I-12	E103A-0	.008	18°	23 30	23 44	3	0 29W -8
16586	HD 215956	22 43.8	+28 12	"	"	"	17.8°	23 54	00 10	4	0 51W +2
16587	HD 223138	23 41.9	+27 52	"	"	"	17.8°	00 34	00 48	1	0 29W +2
16588	" 223869	23 48.1	+25 27	"	"	"	18.0	01 07	01 17	2	0 52W +2
16589	" 1633	00 15.5	+25 56	"	"	"	18.0	01 21	01 37	3	0 45W +2
16590	" 4372	00 41.0	30 24	"	"	"	18.0	01 41	01 49	4	0 32W +3
16591	" 4388	00 41.1	30 25	"	"	"	18.0	01 50	02 00	2	0 43W +3
16592	" 6525	01 01.1	+29 10	"	"	"	18.0	02 03	02 17	2	0 39W +2
16593	" 9224	01 25.7	+28 54	"	"	"	18.0	02 20	02 28	3	0 26W +2
16594	" 11781	01 50.5	+26 59	"	"	"	18.0	02 31	02 49	4	0 22W +2
16595	" 12052	01 53.2	+28 23	"	"	"	18.0	02 52	03 13	1	0 43W +2
16596	" 12728	01 59.6	+28 39	"	"	"	18.0	03 18	03 30	2	0 55W +2
16597	" 14874	02 18.9	+30 12	"	"	"	18.0	03 34	03 52	3	0 57W +3
16598	" 15326	02 22.9	+29 14	"	"	"	18.0	03 54	04 08	4	1 09W +2
16599	" 17119	02 39.7	+29 55	"	"	"	18.0	04 19	04 39	1	1 24W +3
16600	" 17674	02 45.1	+29 52	"	"	"	18.0	04 42	04 50	2	1 29W +3



Dome Temp. 5
Focus 9.9
Dome Temp. 5

Dome Temp. 59°F

Focus 12.970

Dome Temp. (see over)

Transparency Conditions poor at start, improving, good 40

Ending Time R.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 44 3		0 29W	+29 50	0	8.49	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Cloudy to start with 5 seeing poor, ^{bad} drawing	strong
0 10 4		0 51W	+28 28	0-1	8.54	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Field confusing at first! - set sidereal clock ^{hours fast} (corrected before 3rd exp.)	strong
0 48 1		0 29W	+28 08	2	8.7?	M ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	v strong
1 17 2		0 52W	+25 44	2	8.32	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	PH Not open for last 12 min.	fine
1 27 3		0 45W	+25 15	2	9.0?	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	fine
1 41 4		0 32W	+30 41	3	8.6?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Visitor's Eyepiece field 	strong
2 00 1		0 43W	+30 42	3	8.8?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 	strong
2 17 2		0 39W	+29 24	2-3	9.0?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
2 25 3		0 26W	+29 10	1-2	7.9?	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong
2 41 4		0 22W	+27 16	2	9.2?	G ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong
3 13 1		0 43W	+28 38	2	9.0?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
3 30 2		0 55W	+28 53	2	8.44	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong
3 52 3		0 57W	+30 27	2	8.9?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong
4 08 4		1 09W	+29 28	2-3	8.7?	G ₁	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong
4 39 1		1 24W	+30 07	2	9.0?	G ₅	$\frac{1}{2}-\frac{1}{2}$	Opened plate on wrong star - reset p.h. at 8.	v strong
4 50 2		1 28W	+30 06	3	8.2?	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	strong

Dome Temp.....+64°F

Transparency Conditions...some cloud.....

44

Focus.....12:37.0.....

Dome Temp.....

Ending Time
E.S.T.

P.H.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0^h 26

+28 33

1-

8.02

KO

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

AG25 Looks v. blue for KO, but field checks

good

CLOUDS

3 PH loaded + 4

H on M

45

Date Sunday Sept 18-19, 1949 Observer Gy - Mi Julian Day 2433.78

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
16604	HD 204658	21 25.0	+28 26	T-12 $\frac{1}{2}$	E-103 $\frac{1}{2}$ D	Set .008	19.0 ^o	22 45	23 11	2	1 16 W +2	
16605	" 205700	21 32.0	+29 05	"	"	"	19.0	23 14	23 28	3	1 26 W +2	
16606	AG 12707	21 32.3	+29 13	"	"	"	19.0	23 31	23 49	4	1 47 W +2	
16607	HD 218170	23 00.7	+28 29	"	"	"	19.0	23 53	00 06	1	0 35 W +2	
16608	218454	23 03.1	29 54	"	"	"	19.0	00 08	00 20	2	0 41 W +2	
16609	220684	23 20.6	25 39	"	"	"	19.0	00 23	00 37	3	0 46 W +2	
16610	1406	00 13.1	29 49	"	"	"	19.0	00 52	01 04	4	0 21 W +3	
16611	3650	00 34.2	26 12	"	"	"	19.0	01 11	01 29	1	0 25 W +2	
16612	6132	00 52.4	29 27	"	"	"		01 31	03 17	2	1 51 W +2	
Ground plates U.T.B.												

Dome Temp. 63
Focus 12.97
Dome Temp.

Dome Temp. 63°F

Focus 12.970

Dome Temp. 57°F

Transparency Conditions Cloudy - clearing 2200

Ground fog

46

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23	11	1 16 W +28 39	0	9.0?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	
23	29	1 26 W +29 19	0	8.4?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
23	49	1 47 W +29 27	1	8.8?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
		0 35 W +28 44	1	8.5?	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
		0 48 W 30 11	1+	8.5	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
		0 46 W 25 55	1+	8.8	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
		0 21 W 30 07	1+	8.6	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Possibly fog at lower level of dome. Tried for HD 201636 but too all the way off which	
		0 25 W 26 30	1+	8.89	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Seeing variable 3 to 5 sec.	
		1 50 W 29 45	2	8.62	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Fog comes over dome periodically obscuring. Extremely dense ground fog. Limited to close down because of uncertainty of how far it goes over the planet. Vis. about 100 yds.	weak
			OK			4/3.	H. on M. 4 P.M. +5.	
							MC SC MTW STW Sep. 19 -19.1 +53.8 +11.1 +0.2	

Date Tues. Sept 20/21, 1949 Observer Wm - M C Julian Day 2 433 180

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
16 613	AG 9459	18 ^h 55 ^m .9	+26° 13'	I-12 $\frac{1}{2}$	F103a-0	SET 008	+15.0	19 09	19 37	3	0 ^h 20'
16 614	AG 9594	19 ^h 03 ^m .0	+29° 03'	"	"	"	+15.0	19 42	20 10	1	0 ^h 46'
16 615	HD 187162	19 ^h 43 ^m .4	+28° 14'	"	"	"	+15.0	20 15	20 13	1	0 ^h 30'
16 616	HD 187280	19 44.1	+28 04	"	"	"	+15.0	20 46	21 14	2	1 ^h 0'
16 617	HD 197 2 64 ²⁷	20 37. ³ 7	+ 26 45 ^{28 58}	"	"	"	+15.0	21 20	21 43	1	0 ^h 50'
16 618	HD 205 237	21 29.2	+27 10	"	"	"	+14.8	21 53	22 21	1	0 ^h 3'
16 619	AG 13 194	22 03.6	+26 33	"	"	"	+14.8	22 26	22 54	1	0 ^h 3'
16 620	HD 215 732	22 42.2	+29 22	"	"	"	+14.8	22 58	23 26	1	0 ^h 3'
16 621	AG 991	01 44.0	+28 12	"	"	"	+13.0	02 01	02 29	1	0 ^h 2'
16 622	AG 1143	02 1.9	+29 09	"	"	"	+13.0	02 34	02 58	1	0 ^h 2'
16 623	HD 17396	02 42.3	29 56	"	"	"	+13.0	03 04	03 21	3	0 ^h 2' W
16 624	HD 19079	02 59.1	29 48	"	"	"	+13.0	03 29	03 51	4	0 ^h 3' W
16 625	HD 25461	03 57.6	28 56	"	"	"	+13.0	03 57	04 19	1	0 ^h 3' W
16 626	HD 3702	4 53.5	25 47	"	"	"	+13.0	04 28	04 44	2	0 ^h 3' E
	AG 2606	5 35.6	26 13	"	"	"					
16 626 F	Focus Test				Outside Through				Base		


Dome Temp. +55°F

Transparency Conditions FAIR

48

Focus 12.970

Dome Temp. +47°F

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 27		0 ^W 20	+26° 20'	0!	8.96	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG25	v good
10 11		0 ^W 46	+29° 08'	0	8.99	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" IT IS USELESS EVEN TO PRETEND TO USE THE VENERABLE DOME FLASHLIGHT TO READ THE DEC CIRCLE WITH	fine
10 23		0 ^W 38	—	0	8.95	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" FORGOT DEC	fine
10 44		1 ^W 09	+28° 12'	0	8.99	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <i>stars not ...</i>	fine
10 50		0 ^W 50	+29 12	0	8.96 ⁸²	K0 ^{G5}	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <i>fine</i>	fine
11 04		0 ^W 31	+27 22	0	8.89	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
11 19		0 ^W 29	+26 47	0	8.96	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	weak
11 34		0 ^W 23	+29 38	0	8.93	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" power shut off. some clouds.	v good
11 49		0 ^W 22	28 27	0	8.88	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" brighter star of pair  Visitor's piece	fine
12 04		0 35 W	29 23	0	8.93	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	v good
12 19		0 21 W	30 08	0	8.65	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
12 34		0 3 W	30 00	0	8.95	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
12 49		0 01 W	29 05	0	8.75	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" <i>fine</i>	fine
1 04		0 30 E	25 53	0	8.02	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" clouds near end of exp. <i>fine</i>	too weak
				0	9.0	M0		" clouded by solid before exp. begun 3 p.h. loaded +4. h on m	
							4-3		

49

Date Ved Sept 21/22 1949 Observer Ba - G. r Julian Day 24331.81

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16627	AG 12135	21 02.6	30 02	I 12"	103a-D	.008	13.0	22 03	22 21	1	102 W
16628	12398	21 17.0	29 51	"	"	"	13.0	22 24	22 42	2	103 W
16629	HD 204923	21 26.7	25 37	"	"	"	13.0	22 45	23 03	3	120 W
16630	206899	21 40.1	29 51	"	"	"	13.0	23 06	23 22	4	125 W
16631	AG 13246	22 06.3	25 19	"	"	"	13.0	23 26	23 46	1	123 W
16632	HD 21380	22 29.0	29 09	"	"	"	13.0	23 51	00 02	2	116 W
16633	" 215360	22 39.5	29 05	"	"	"	13.0	00 05	00 15	3	119 W
16634	" 216465	22 48.0	+28 54	"	"	"	13.0	00 19	00 32	4	129 W
16635	" 216685	22 49.8	+28 50	"	"	"	13.0	00 36	00 48	7	142 W
16636	AG 13850	22 57.9	+28 40	"	"	"	13.0	00 56	01 06	2	151 W
16637	HD 218113	23 00.3	+27 40	"	"	"	13.0	01 13	01 27	3	210 W
16638	" 3333	00 31.2	+29 18	"	"	"	13.0	01 39	01 49	4	101 W
16639	" 4268	00 40.0	+27 25	"	"	"	13.0	01 52	02 02	1	166 W
16640	" 5449	00 51.2	+28 15	"	"	"	13.0	02 05	02 19	2	111 W
16641	" 10829	01 41.0	+30 19	"	"	"	12.5	02 22	02 30	3	033 W
16642	AG 977	01 42.0	+27 59	"	"	"	12.5	02 37	02 51	4	052 W

Dome Temp. 5
Focus 1297
Dome Temp. 3

Dome Temp. 54

Focus 12970

Dome Temp. (see over)

Transparency Conditions

clouds huge clearing by 2115 ⁵⁰

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
102 W	30 15	2-1	8.91	CS	1-1-1	AG 25	fine
109 W	30 04	2-1	8.98	K0	1-1-1	"	fine
120 W	25 50	2-1	8.97	K5	1-1-1	"	fine
125 W	30 06	2-1	8.90	K5	1-1-1	"	good
123 W	25 36	2-1	8.90	K2	1-1-1	"	fine
116 W	29 20	3	8.91	K0	1-1-1	"	fine
119 W	29 20	3	8.91	M0	1-1-1	"	fine
128 W	29 10	2-3	9.0?	G0	1-1-1	"	fine
142 W	29 05	3	9.1?	G0	1-1-1	"	disturb
151 W	+28 56	3	9.0?	G0	1-1-1	"	fine
210 W	+27 56	3-2	9.0?	K2	1-1-1	"	(fine)
101 W	+29 35	3	9.0?	G5	1-1-1	"	good
106 W	+27 40	3	8.97	G5	1-1-1	"	"
111 W	+28 31	2-3	9.0?	G5	1-1-1	"	strong
033 W	+30 34	2-3	8.6	G0	1-1-1	"	fine
052 W	+27 14	2-3	9.2	G5	1-1-1	very faint!	fine

Dome Temp. *✓*.....

Transparency Conditions

Focus.....

Dome Temp. *50°F*

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 06		1 05 W	+ 29 13	2-3	8.8?	G5	1-1-1	AG 25	Extremely
03 29		1 20 W	+ 29 34	2	9-1?	G0	1-1-1	"	fine
03 40		1 34 W	+ 29 18	2-3	9-0?	K0	1-1-1	"	fine
04 05		1 36 W	+ 29 35	2-3	9-0?	G5	1-1-1	"	
04 23		1 23 W	+ 29 55	2	9-2?	G0	1-1-1	" Some light cloud passing over. Put focus test on last star spec.	
			<i>continued?</i>				4/3	2 P.H. loaded + 8 H. on M.	
<p>Thurs, Sept 22/23, 1949. More than 50% clouds. Wm. <i>Sept 21/24 49</i> like W cloudy at night quite clear at times. gave up at 03 on very solid!</p>									

Date Sat 24/25 Sep 49 Observer Ba Gu Julian Day 2432184

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16648	AG 0844	20 02.0	28 42	E12"	103a-D	0008	12.2	21 03	21 33	2	0126
16649	HD 196448	20 32.4	28 52	"	"	"	12.2	21 37	22 08	3	0126
16650	197440	20 52.1	27 07	"	"	"	12.2	22 06	22 38	4	0131
16651	203030	21 14.6	25 49	"	"	"	12.2	22 31	22 59	1	0134
16652	205760	21 32.4	25 10	"	"	"	12.2	22 53	23 11	2	0135
16653	208457	21 51.2	25 57	"	"	"	12.2	23 16	23 24	3	0137
16654	210608	22 01.4	29 09	"	"	"	12.2	23 39	23 59	4	0140
16655	214332	22 32.3	29 13	"	"	"	12.2	00 16	01 00	1	0234
- 16656	5584	00 52.5	+29 47	"	"	"	12.2	01 07	01 25	4	0235
16657	73 00	01 08.1	+25 55	"	"	"	12.2	01 28	01 41	3	0236
16658	11721	01 49.9	+25 37	"	"	"	12.2	02 02	02 48	2	0237
16659	18189	02 50.2	+25 41	"	"	"	12.2	02 57	03 19	1	0238
16660	18450	02 52.9	+26 22	"	"	"	12.2	03 30	03 48	4	0239
16661	18929	02 57.6	+27 11	"	"	"	12.2	04 15	04 27	3	0240
	Focus Test		O.T.B.								

Dome Temp
Focus 12.7
Dome Temp 2

Dome Temp. 45

Focus 12.970

Dome Temp. 41°F

Transparency Conditions Good

54

About 40 visitors showed Ring Nebula @ M15 at 79" 4 with 5"

The dec clamp on 4" telescope has been broken.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0126W	28 47	0	8.97	G5	1-1-1	AG 25	
0126W	29 02	0	8.90	K0	1-1-1	" Bright auroral arc	
0131W	27 18	1	8.91	K0	1-1-1	" well focused curtains	good
0130W	26 01	1	8.91	E5	1-1-1	PH #1 goes in stiffly & warped	"
0133W	25 23	1	8.85	K0	1-1-1	Saw a telescopic view in field of 79" eyepiece	"
0139W	26 11	1	8.86	E5	1-1-1		"
0147W	29 23	1	8.89	K2	1-1-1	Few clouds to the north, cleared	
0223W	29 28	1	8.91	E5	1-1-1	later and only a few	double expo
0222W	30 03	1	8.82	G0	1-1-1	scattered ones present at dawn	weak
0228W	26 11	1	8.56	K0	1-1-1		1 weak
0253W	25 52	1	8.99	G5	1-1-1		6 stars
0223W	25 53	0	8.82	G5	1-1-1		good
0247W	26 34	1	8.79	K0	1-1-1	Wrong star	much too strong
0128	27 07.8	0	8.22	K0	1-1-1	Some doubt about this star !!!	completely fogg
						completely fogged.	

Date Sun Sept 25-26, 1949 Observer Hd. Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16662	HD 197520	20 35.9	25 41	I	S. 200	set 008	+11.0	20 54	21 24	2
16663	HD 198526	20 45.8	28 37	"	"	"	+11.0	21 28	21 48	3

Dome Temp.
 Focus
 Dome Temp.
 Hour Angle
 End

11 37
 21 04
 21 01

Date Mon. Sept 26/27Observer Bo. G.U.Julian Day 2433186

49

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16661	AG 10077	19 28.3	25 13	512"	1034"	1008	17.1	1904	1930	1	000
16662	10151	19 31.7	30 10	"	"	"	17.1	1933	1954	1	031
16663	10154	19 31.9	26 16	"	"	"	17.1	2002	2026	1	057
16664	WD 185241	19 33.1	27 58	"	"	"	17.1	2032	2052	3	0134
16665	186860	19 41.8	30 00	"	"	"	17.1	2056	2119	4	0139
16666	189753	19 56.5	26 52	"	"	"	17.1	2122	2144	1	050
16667	AG 11571	20 34.7	26 21	"	"	"	17.1	2149	2213	2	039
16668	WD 198526	20 45.8	28 37	"	"	"	17.1	2215	2235	1	052
16669	201860	21 07.2	25 55	"	"	"	17.1	2239	2253	1	052
16670	204934	21 26.8	27 56	"	"	"	17.1	2259	2315	1	0150
16671	206899	21 40.1	29 51	"	"	"	17.1	2319	2335	2	0154
16672	206978	21 40.7	29 56	"	"	"	17.1	2338	2351	3	0216
16673	223424	23 44.3	+26 29	"	"	"	17.1	0032	0045	4	0104
16674	225292	23 59.9	+27 07	"	"	"	17.1	0058	0108	1	0111
16675	8791	01 21.6	+24 56	"	"	"	17.1	0150	0205	2	0049
16676	11464	01 47.6	+25 31	"	"	"	17.1	0217	0228	3	0046

Dome Temp

Focus 129

Dome Temp

Dome Temp. 60

Focus: 12.971

Dome Temp. 55°F

Transparency Conditions Transparency good. Strong scintillation. 58

clouds 4 A.M. D.T.

bleared quite well at 5 A.M. but is still quite a bit of some stuff.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0009W	25 19	0	8.77	EO	1-1-1	AG 25	fine
0031W	30 19	0	8.98	KO	1-1-1	"	fine
0057W	26 24	0-1	8.93	KO	1-1-1	" very weak	link
0121W	28 04	1-	8.82	KO	1-1-1	"	good
0139W	30 07	1-	8.95	MO	1-1-1	"	good
0150W	27 01	1+	8.91	K5	1-1-1	"	fine
0139W	26 31	2	8.93 8.06	KO	1-1-1	" looks too faint for 8.86	fine
0152W	28 47	2	8.88	KO	1-1-1	" at 4 AM clouds rolled in from comp. weak	fine
0150W	26 00	2	8.92	E5	1-1-1	" S.W. There was a rise on the comp. uph	fine
0150W	28 07	2+	8.89	KO	1-1-1	" wind earlier & it is comp. weak	fine
0158W	30 04	2	8.90	K5	1-1-1	" blowing 20-30 mph	link
0216W	28 59	2	8.84	EO	1-1-1	Dec. probably read incorrectly 9 am very much ahead that comp. heavy	link
0104W	26 46	1	8.50	KO	1-1-1	" these stars I have taken care	fine
0111W	27 24	1	7.35	G5	1-1-1	" not right; it has been a comp. heavy	link
0049W	24 07	1	8.70	KO	1-1-1	Wrong star	link
0046W	25 03	1	8.33	G5	1-1-1	Re-aid. wheel by one minute, I'm completely exhausted with the finder fields. Wrong star	link

TUES, SEPT 27/9, 1951
RAIN - W.M.

Date Thurs Sept 29-30 Observer L. Gu Julian Day 2,433,189

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16677	H.D. 191898	20 07.1	25 51	I-R ₂	E-103A ₀	set .008	+11.4	20 00	20 22	1	0 28 W
16678	" 196940	20 35.4	25 57	"	"	"	+11.4	20 28	20 48	2	0 30 W
16679	" 198821	20 47.9	28 30	"	"	"	+11.3	20 51	21 13	3	0 31 W
16680	" 203171	21 15.5	27 04	"	"	"	+11.3	21 16	21 36	4	0 35 W
16681	" 207243	21 42.5	29 39	"	"	"	+11.3	21 40	21 56	1	0 21 W
16682	" 209680	22 00.1	29 28	"	"	"	+11.3	21 59	22 43	2	0 56 W
16683	" 212750	22 21.5	28 02	"	"	"	+11.2	22 46	22 54	3	0 46 W
16684	" 216602	22 48.3	26 28	"	"	"	+11.2	22 57	23 09	4	0 35 W
16685	" 222033	23 32.1	30 07	"	"	"	+11.1	23 15	23 25	1	0 06 W
16686	" 224882	23 56.4	30 11	"	"	"	+11.0	23 29	23 43	2	0 00
16687	" 1996	00 19.1	25 57	"	"	"	+11.0	23 46	00 02	3	0 03 E
16688	" 2552	00 24.1	28 16	"	"	"	+11.0	00 16	00 29	4	0 18 W
16689	" 2713	00 25.6	27 51	"	"	"	+11.0	00 35	00 58	1	0 47 W
16690	" 3333	00 31.2	29 18	"	"	"	+11.0	01 02	01 16	2	0 58 W

Dome Temp. 15
Focus 12.97
Dome Temp. 15

Dome Temp. +50°F

Focus 12.971

Dome Temp. +41°F

Transparency Conditions good

60

Aug. 29

MC
-29.9

SC
+58.0

MTW
-27.2

STW
+0.3

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								Reversed telescope tried to find Nova Lenti, gave up after 1 hr. faint!	
22	1	0 28 W	25 57	0	8.81	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	weak
0 41	2	0 26 W	26 08	0	8.72	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	weak
1 13	3	0 39 W	28 41	0	8.81	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
1 50	4	0 35 W	27 17	0	8.43	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
2 14	5	0 27 W	29 52	0-1	8.67	K6	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
2 43	6	0 56 W	29 43	0-1	9.98	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	"
2 54	7	0 46 W	28 15	0-1	7.86	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	poor guiding
3 19	8	0 35 W	26 43	0-1-0	8.20	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
3 25	9	0 06 W	30 25	0	7.58?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	1 stamp
3 43	10	0 00	30 27	0	8.40	G4	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 02	11	0 03 E	26 08	0-1	8.69	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
1 21	12	0 18 W	28 33	0	8.51	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	1 weak
1 58	13	0 47 W	27 51	0	8.60	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
2 16	14	0 58 W	28 35	0	8.44	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	poor guiding

Dome Temp. +50°F

Focus 12.971

Dome Temp. +41°F

Transparency Conditions Good until 5:00 AM (DST) 62

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 47.3	19W 25 54	0	8.49	K ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG: 25 (abandoned first attempt)	1 weak
02 57.4	1 33W 25 30	0	8.48	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	1 weak
02 57.1	1 54W 30 04	0	8.47	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " comp. strong (tried 2, got 3)	good
1 05W	26 33	0	8.69	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " (couldn't hook up first, tried rest)	fine
1 20W	26 53	0+	8.33	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " COMING FROM NORTH	1 strong
1 46W	30 09	0-	8.65	G ₅	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " CLOUDS AT THIS POINT	weak
1 54W	30 04	1	7.64	G ₅	$\frac{1}{2}-\frac{1}{2}$	CLEAR, VIS. GOOD. pr guiding	good
2 11W	30 18	1-2	8.73	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	CLOUD AGAIN!	1 weak
						centre to red.	

Sep. 30

MTW	STW	MC	SC
+14.5	-0.1	-31.0	+58.8

Watch stopped. (but not run down)
* reset

(63) About 100 visitors from Forest Hill High + Orillia Public Schools.
 Hd, L, N showed 4 with 74", 3 with 5"

Date Fri Sept 30 - Oct 1/49 Observer Hd (N) L Julian Day 2433.190

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16699	HD 200391	20 58.1	27 24	I-25	E10390	set 008	+15.2	20 30	21 08	3	W 029
16700	^{MW 397} HD 218393	23 02.6	49 40	"	"	"	+15.2	22 19	22 31	1	E 022
16701	HD 212442	22 19.2	14 46	"	"	"	+15.2	22 38	22 48	2	W 040
16702	HD 210170	22 03.4	17 04	"	"	"	+15.2	22 51	23 03	3	W 117
16703	HD 210208	22 03.7	42 27	"	"	"	+15.2	23 11	23 33	4	W 140
16704	HD 222317	23 34.4	27 41	"	"	"	+15.1	23 41	00 01	1	O 45 W
16705	" 3590	00 33.7	25 47	"	"	"	+15.1	00 09	00 55	2	O 20 W
16706	" 4686	00 43.8	28 11	"	"	"	+15.2	00 38	01 06	3	O 41 W
16707	" 10095	01 33.6	27 15	"	"	"	+15.2	01 11	01 35	4	O 20 W
16708	" 11453	01 47.5	28 19	"	"	"	+15.2	01 38	01 58	1	O 29 W
16709	" 12897	02 01.2	25 51	"	"	"	+15.2	02 01	02 21	2	O 35 W
16710	" 14969	02 19.7	29 26	"	"	"	+15.2	02 24	02 46	3	O 45 W
16711	" 19485	03 02.8	25 13	"	"	"	+15.1	02 50	03 34	4	O 59 W
16712	" ⁸² 31778	04 53.5	25 47	"	"	"	+15.2	03 40	04 10	1	O 25 E
16713	" 32093	04 55.6	26 30	"	"	"	+15.1	04 13	04 47	2	O 10 W
16714	" 33541	05 05.9	73 09	"	"	"	+15.1	04 55	05 00	3	O 10 W

tools

Dome Temp. 58
Focus 15.642
Dome Temp. 48°F

Tri Sept. 30, 1949
changed to 25" camera
12 1/2 lens was

Transparency Conditions Good

64

{ Focus 12.970 25" lens is { Focus 15.570
Tilt 20.25 Tilt 23.18

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 08	3	W 0 28	27 39	1	8.12	G0	1-1-1	AG Clouds at end of exposure.	strong
2 31	1	E 0 13	49 55	1	6.8	Ave	1-1-1	Be	strong
2 08	2	W 0 46	15 00	1	6.71	B8	1-1-1	Bin	strong
3 3	3	W 1 17	17 19	1	6.98	A0	1-1-1	Bin	fine
3 13	4	-W 1 48	42 44	1	7.50	B9	1-1-1	Bin	fine
00 01	1	O 45 W	27 58	1	7.47	G0	1-1-1	AG	fine
00 56	2	O 20 W	26 04	1	7.87	K0	1-1-1	A.G. 25"	good
01 06	3	O 40 W	28 27	1	7.77	K0	1-1-1	" "	fine
01 35	4	O 20 W	27 30	1-2	8.08	K0	1-1-1	" " guiding	fine
01 58	1	O 29 W	28 35	2-3	8.06	K5	1-1-1	" "	fine
02 1	2	O 38 W	26 07	2-3	7.91	G5	1-1-1	" " guiding	fine
03 46	3	O 45 W	29 40	2-3	8.18	K2	1-1-1	" "	fine
03 34	4	O 50 W	25 24	2-3	8.70	G5	1-1-1	" " Double lines?	fine
04 0	1	O 25 E	25 52	2-1	8.02	G5	1-1-1	" "	strong
04 47	2	O 10 W	26 36	1-2	8.28	G5	1-1-1	" " I.P.H. loaded + 8	fine
05 00	3	O 10 W	73 13	1-2	5.76	A0	1 1/2 - 1 1/2	Bin. Focus set 1/4 focus OK.	good

65

Date Sat. Oct 4/2, 1949 Observer Wm - Gu Julian Day 2 433 121

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	D
16 715	HD 213 992	22 30.2	+29 27	I-25	F103a-0	^{ECT} 008	+14.8	22 25	23 07	4	0 5	2
16 716	HD 218 393	23 02.6	49 40	"	"	"	+14.8	23 13	23 27	1	0 4	4
16 717	HD 221 469	23 27.3	26 00	"	"	"	+14.7	23 34	00 33	2	0 3	7
16 718	HD 3590	00 33.7	25 47	"	"	"	+14.7	00 39	01 10	3	0 59	4
16 719	HD 4372	00 41.0	30 24	"	"	"	+14.7	01 15	01 40	4	1 22	4
16 720	HD 4388	00 41.1	30 25	"	"	"	+14.8	01 42	02 07	1	1 4	4
16 721	HD 10981	01 42.8	30 17	"	"	"	+14.7	02 14	03 06	2	1 4	4
16 722	HD 12897	02 01.2	25 51	"	"	"	+14.6	03 11	03 37	3	1 5	4
16 723	HD 15256	02 22.3	29 41	"	"	"	+14.6	03 42	04 01	4	2 0	4
16 724	HD 18202	02 50.3	28 45	"	"	"	+14.6	04 06	04 19	1	1 5	4
16 725	HD 21018	03 18.4	+04 31	"	"	"	+14.6	04 27	04 38	2	1 9	4
16 726	HD 23257	03 38.6	+27 37	"	"	"	+14.6	04 45	05 03	3	1 6	4
		FOCUS TEST				O.T. B.						

Dome Temp. 5
Focus 5.63
Dome Temp. 5

Dome Temp. 52 (2230 EST)

Transparency Conditions Good

Focus 15.636

Gu eWm showed approx ²⁷⁵ 3x10¹⁰ visitors Ring nebula 1/2" Cas
74", C in 5"

Dome Temp. 50°F

66

Ending Time E.S.T. P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 ^w 59	+29 42	0+	8.16	K2	1-1-1	AG25 <i>pr. guiding</i>	good
	0 ^w 47	+49 56	0+	6.9	Ave	1-1-1	Be	fine
00 33	0 28W	+26 16	0-1	8.51	G5	1-1-1	AG25	good
01 10 3	0 59W	+26 04	0-1	7.87	K ₀	1-1-1	AG 25	fine
01 40 4	1 22W	+30 40	1	7.74	G ₅	1-1-1	ITS A DOUBLE; I CHOSE THE LOWER OF THE TWO <i>the seeing is very junky</i>	fine
02 09 1	1 49W	+30 40	1	7.74	G ₅	1-1-1	AG 25	l strap
03 06 2	1 46W	+30 31	1	8.72	G ₅	1-1-1	AG 25	good
03 37 3	1 59W	+26 06	1	7.91	G ₅	1-1-1	AG 25	l weak
04 01 4	2 01W	+29 39	1	7.55	G ₀	1-1-1	AG 25	good
04 19 1	1 51W	+28 56	1+	7.12	K ₀	1-1-1	AG 25 <i>guiding poor</i>	
04 38 2	1 43W	+04 42	1+	6.97	F ₈	1-1-1	Bi.	good
05 03 3	1 45W	+27 45	1-2	7.44	G ₀	1-1-1	AG 25 (another double) took ^{of two} lower <i>focus OK</i>	l weak

67

Date Sun Oct 2/3 1949 Observer Ba Julian Day 2433.92

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
16727.	ND 161817	17 42.6	25 48	25"	103a D.	0.008	17.5	1902	1912	1	
16728	208606	21 52.3	61 39	"	"	"	17.5	1950	1954	2	
	208606	"	"	"	"	"	17.5	2000	2024	2	1025
16729.	209469	21 58.6	42 20	"	"	"	17.5	2116	2128	3	0025
16730.	209484	21 58.7	29 44	"	"	"	17.5	2143	2157	4	0025
16731	213992	22 30.2	29 27	"	"	"	17.5	2225	2300	1	0055
Focus Test	OTB	6/4									

Dome Temp. -0
Focus... 5
Dome Temp.

Dome Temp. 60
 Focus 15.670
 Dome Temp.

Transparency Conditions *Cumulus haze*

68

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
192	0156W	26 06	2	6.87	A0	1-1-1	High Velocity Star. <u>All wrong</u>	Strong
		61 06		7.30	K0 ₉	1	Buony In doubt about star. Set 5	Weak
	0102E	61 06	1	7.30	K0 ₉	1-1-1	Real field. Same star. Set 8.	Strong
228	0003E	42 30	2-	7.04	B9	1-1-1	Buony. Wasted lot time trying to find 209205	Weak
257	0025W	29 57	1	7.00	B9	1-1-1	Buony. Does not look like BD of old comp wt.	much too weak
270	0655W	29 42	2+	8.16	K2	1-1-1	Checked wahl found ST 9" out. <u>Right</u>	poorly guided
							focus center to violet Just in time I save my brain from collapsing at 7.5 or expanding - I don't know which. Haze thickening. Stopped at 2300.	
							Add 9" to indicated lim on first 4 *	
							3 PH + 10 Mon Oct 3/4 } Wet paint on dome Tues Oct 4/5 } floor 30' east Mon, 0' east & in Tues	
							- Wm.	

Dome Temp... 59

Focus... 15.675

Dome Temp.....

Transparency Conditions... *Cirrus haze*

70

Ending Time
E.S.T. P.H.

Ending Time E.S.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1859 1	0152 W	25 48	0	6.87	A0	1-1-1	High Velocity Star	poorly guided 1 wk
19 2		27 30		8.12	G0		Set on wrong star	Set 5
1956 2	0024 E	27 36	1	8.12	G0	1-1-1	Binary at mid-exposure	Set 7.5' poorly guided
				7.79	K2		AG 25	
							Still hazy at 2115. Cloud Down	
							3 PH + 20	4 on M.

71

Date Fri 7 Oct - Sat 8 Oct Observer Ba, Gu Julian Day 2433 ⁷~~199~~

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16734	^{HD} 218393	23 02.6	49 40	-E25"	102A-0	.008	16.2	2302.6	2316	2	0059W
16735	219418	23 10.5	25 08	"	"	"	16.2	2323	2353	4	0128W
16736	22239.0	23 35.0	26 59	"	"	"	16.2	2357	0009	1	0139W
16737	225292	23 59.9	27 07	"	"	"	16.2	00 12	00 28	3	1 14W
16738	28 39	00 26.7	27 58	"	"	"	16.2	00 33	01 09	1	1 28W
16739	4 550	00 42.4	25 44	"	"	"	16.2	01 14	01 30	2	1 34W
16740	4686	00 43.8	28 11	"	"	"	16.2	01 33	01 50	3	1 51W
16741	5137	00 48.2	28 58	"	"	"	16.2	01 54	02 08	4	2 06W
16742	11453	01 47.5	28 19	"	"	"	16.1	02 13	02 35	1	1 33W
16743	11464	01 47.6	25 31	"	"	"	16.1	02 40	03 10	2	2 09W
16744	13747	02 08.9	28 14	"	"	"	16.1	03 14	03 23	3	2 00W
16745	15256	02 22.3	29 26	"	"	"	16.1	03 29	03 48	4	2 12W
16746	15326	02 22.9	29 14	"	"	"	16.1	03 53	04 07	1	2 30W
16747	18554	02 53.9	30 12	"	"	"	16.1	04 13	04 30	2	2 22W
16748	33541	05 05.9	23 09	"	"	"	16.1	04 48	04 52	3	-
16749	35076	05 17.0	28 51	"	"	"	16.1	05 00	05 04	4	0 34W

Dome Temp. 60

Focus 15.655

Dome Temp. 56°F

Transparency Conditions Heavy cloud clearing gradually, after 2130. Cirrus high

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2316		00 59 W	49 56	0	6.8	Ave	1-1-1	Be Prog.	good
2353		01 28 W	25 24	0-1	7.44	K0	1-1-1	AG25	Declination setting switch. poor guiding
0-1	1	01 19 W	27 14	1	7.00	K0	1-1-1	"	Reduced .4 from gain mag
0028	3	1 14 W	27 24	1	7.35	G5	1-1-1	"	good
01 09	1	1 28 W	28 15	1	8.23	G	1-1-1	Took N of Dde in finds.	too weak
01 30	2	1 34 W	26 01	1+	7.33	K0	1-1-1	AG25	good
01 59	3	1 51 W	28 26	2	7.77	K0	1-1-1	"	very good
02 03	4	2 06 W	29 13	1+	7.23	G5	1-1-1	"	" "
02 35	1	1 33 W	28 34	2	8.06	K5	1-1-1	"	good
03 10	2	2 09 W	25 47	2	8.33	G5	1-1-1	"	1 weak
03 23	3	2 00 W	28 28	2	7.07	G5	1-1-1	"	good
03 48	4	2 12 W	29 39	1+	7.55	G0	1-1-1	"	good
04 07	1	2 30 W	29 26	2	7.58	G1	1-1-1	"	fine
04 30	2	2 22 W	30 25	2+	8.60	G5	1-1-1	"	guiding 1 weak
05 52	3	---	73 12	2	5.76	A0	1	Be pro. FORGOT HOUR L, BUT it is the star	0 1 star
05 04	4	0 34 W	28 54	2	6.37	B9	1-1	"	P.T. fine

Dome Temp. 60°F

Transparency Conditions Good

74

Focus 15.655

Dome Temp. 56°F

Ending Time
R.T.T.

P.E.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

0 15W

25:02

2

G₅

8.56

1-1-1

AG. 25

exposures for focus test are weak

good

focus OK

75

Date Sat Oct 8-9, 1949 Observer Ad - L Julian Day 2433198

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16751	HD 200391	20 58.1	27 24	I-25	E103a0	008	+19.6	21 02	21 46	1	21:58
16752	HD 201269	21 03.3	47 47	"	"	"	19.6	21 51	22 19	1	21:58
16753	HD ²¹⁴ 218393	23 02.6	49 40	"	"	"	19.6	22 24	22 40	2	21:58
16754	HD 223501	23 45.0	61 39	"	"	"	19.6	22 50	23 50	2	0 56W
16755	H.D. 5585	00 52.5	28 59	"	"	"	19.6	00 07	00 55	3	0 52W
16756	" 12638	01 58.7	25 27	"	"	"	19.6	00 59	01 45	3	0 52W

Dome Temp
Focus 15.70
Dome Temp 6

Dome Temp. 64
 Focus 15.701
 Dome Temp. 61

Transparency Conditions *Hazy*

About 80 visitors. Ad & L showed Ring neb with 74", I with 5", H with 4".

76

Ending Time
 R.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 28	27 36	0	8.12	G0	1-1-1	Double line AG. set 5	fine
W 2 06	47 59	0	7.50	A0	1-1-1	Bin. Set 9	good
W 2 22	49 55	0	6.8	Ave	1-1-1	Set 2 1/2 Be	fine
O 56 W	61 57	0	8.2	B3e	1-1-1	" 7 1/2 Be. Getting only work one way.	retrop
O 52 W	29 16	1	8.22	K0	1-1-1	Set 2.5 AG 25 haze	fine
O 36 W	25 41	1	8.02	G5	1-1-1	" 7.5 " " more haze	fine
						ground fog rising, while setting on next star I noticed dew on inside edge of shutter closed immediately upper ring of telescope wet with dew.	
						3 P.H.s loaded, plates needed in dome	

Date Sun 0-19-10 Observer Ba - L Julian Day 2433 179

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16757	HD 200391	20 58.1	27 24	525"	103a-D	.008	23°	20 35	21 05	4	400
16758	201269	21 03.3	47 47	"	"	"	23°	21 13	21 29	4	0120 W
16759	208606	21 52.3	61 04	"	"	"	23	21 37	21 50	1	-
16760	209205	21 56.5	31 03	"	"	"	23	21 56	22 20	1	01 W
16761	209469	21 58.6	42 20	"	"	"	23	22 26	22 42	2	0150
16762	218880	23 06.4	29 31	"	"	"	23	22 46	23 10	2	056
16763	219306	23 13.6	27 04	"	"	"	22.9	23 14	23 40	3	020 W
16764	223211	23 42.5	25 01	"	"	"	22.9	23 48	00 10	3	01 W
16765	224085	23 49.9	28 06	"	"	"	22.9	00 13	00 45	4	147 W
16766	" 11650	01 49.2	27 20	"	"	"	22.9	00 51	01 31	4	030
16767	" 14146	02 12.2	28 34	"	"	"	22.9	01 35	02 05	1	046 W
16768	" 14875	02 18.9	28 46	"	"	"	22.9	02 09		1	
	Focus Test										

O.T.B.

Dome Temp. 70
Focus 15.75
Dome Temp. 60

Dome Temp. 70

Focus 15.755

Dome Temp. 66

Transparency Conditions

Scattered cloud in early 78 evening. Curious haze.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0100 W	2737	2	8.12	G0	1-1-1	Set 2.5 Binocular Occasional cloud during ap	good
0120 W	4800	2	7.50	A0	1-1-1	Set 7.5 Bin. <i>poor guiding</i>	—
—	6117	2	7.30	K0 _q	1-1-1	Set 2.5 Bin. Rodd HA but forgot to record it <i>poor guiding</i>	stump
0116 W	3116	2	7.47	B9 _n	1-1-1	Set 7.5 Bin. <i>plate destroyed</i> Haze thick pers. at mid ap <i>cloud</i>	NOTHING
0135 W	4236	2-3	7.04	B9	1-1-1	Set 2.5 Bin. Estimate extent. <i>comp. weak</i> 0.5	good
0056 W	2946	2-3	7.77	K0	1-1-1	Set 7.5 AG 25 <i>comp. very weak</i>	good
0120 W	2720	2	7.91	K0	1-1-1	2.5 " Transparency improved <i>comp. weak</i> 10 ^M 2	fine
0121 W	2518	2-3	7.84	K0	1-1-1	7.5 " <i>comp. weak</i>	good
147 W	2822	2-3	8.12	K0	1-1-1	" 2.5 " "	stump
034 W	2735	2-3	8.49	G5	1-1-1	" 7.5 " "	stump
046 W	2847	2-3	8.20	Mo	1-1-1	" 2.5 " "	stump
	2901	2-3	8.21	K0		7.5 " " <i>focus OK</i> Haze increasing <i>ok spirit level scope peg d</i>	
6/4 ground fog rolling in through shutters, everything is damp! piers. telescope dripping.							
1 P.H. loaded in refrigerator							

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Date Mass Oct 10-11 Observer Ba, Gu Julian Day 2433200

49

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16768	161 817	17 42.6	25 48	[25"	103a-D	.008	23.0	1825'	18 43	2	05.1
16769	197508	20 39.1	83 17	"	"	"	23.0	1856	19 10	2	05.2
16770	199 095	20 49.8	82 10	"	"	"	23.0	1920	19 28	3	05.4
16771	192892	20 12.2	26 11	"	"	"	23.0	1937	20 17	3	01.1W
16772	195509	20 26.7	26 21	"	"	"	23.0	2020	21 00	4	02.9
16773	200391	20 58.1	27 24	"	"	"	22.9	2104	22 00	4	05.4
16774	210208	22 03.7	42 27	"	"	"	22.9	2207	22 33	1	01.25
16775	220286	23 17.5	28 53	"	"	"	22.9	2238	23 38	1	01.4
16776	1605	00 15.2	30 25	"	"	"	22.9	2341	00 11	2	05.2W
16777	1501	00 14.1	25 55	"	"	"	22.9	00 16	00 46	2	1.28
		FOCUS TEST		-	O.T.B.						
		RASC Toronto Centre		~80		rain					
		Hd demonstrated		74 - in		Oke demonstrated		proj. meas. engine			
		Ba		19 - in		Hossack		microphotometer			

RASC Oct. 12-13

RASC

Toronto Centre

~80

rain

Hd demonstrated 74 - in

Oke demonstrated proj. meas. engine

Ba

19 - in

Hossack

microphotometer

Dome Temp. 70
 Focus 15.755'
 Dome Temp. 66°F

Transparency Conditions Transparency fairly good 80

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0156W	25 49	0	6.87	A0	1-1-1 2.5	High Velocity Star	1 weak
0025E	83 27	0-	6.22	A2	1-1-1 7.5	Bin. comp. weak	good
0021E	82 21	0-	5.69	A0	1-1-1 2.5	Bin. poor guiding	good
0101W	26 20	0-1	7.93	B5	1-1-1 7.5	AG 25. Et. 0.2. 1 weak	1 weak
0129W	26 31	0-1	7.71	K0	1-1-1 2.5	" High thick mag	good
0158W	27 37	0-1	8.12	G0	1-1-1 7.5	" Clipping signal for RA. comp weak	good
0125W	42 42	0-1	7.50	B9	1-1-1 2.5	Bin. to act	good
0116W	29 10	1-2	8.96	B5	1-1-1 7.5	AG 25 Transparency improved	good
0052W	30 42	1-0	8.05	G0	1-1-1 2.5	CLOUDS " poor guiding	good
1 28W	26 12	0-1-28.07	G0	1-1-1 7.5	" " "	" " "	1 weak

for use - Banks of strata - cumulus rolling in, seems to originate in W; however it is very consistent now & am closing up, but will watch for a while. R.A. match O.K. now.

4 loaded plateholders in box, in pier

Date Wednesday Oct 12-13 Observer L. Gu Julian Day 2433202

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16778	H.D. 161817	17.42.6	25 48	I-25	E-10350	5ct 008	+16.2	18 50	19 20	1	2 42 W
16779	" 200391	20 58.1	27 24	"	"	"	16.1	19 25	20 12	1	0 18 W
16780	" 200491	20 58.7	28 35	"	"	"	16.0	20 15	21 05	2	1 11 W
16781	" 208987	21 55.0	29 25	"	"	"	16.0	21 08	22 08	2	1 17 W
16782	" 217576	22 56.6	28 10	"	"	"	16.0	22 11	22 55	3	1 03 W
16783	" 223094	23 41.5	28 09	"	"	"	15.9	22 58	23 44	3	1 07 W
16784	" 4006	00 37.5	29 34	"	"	"	16.0	23 47	00 21	4	0 48 W
16785	" 4798	00 44.9	27 50	"	"	"	15.8	00 24	00 53	4	1 13 W
16786	" 4831	00 45.3	25 02	"	"	"	15.8	00 56	01 19	1	1 39 W
16787	" 5650	00 53.1	26 15	"	"	"	15.8	01 24	02 16	1	2 26 W
16788	" 12535	01 57.8	27 00	"	"	"	15.8	02 21	02 47	2	1 56 W
16789	" 14875	02 18.9	28 46	"	"	"	15.6	02 50	03 45	2	2 31 W
16790	" 18602	02 54.4	30 09	"	"	"	15.6	03 52	04 55	3	3
	" 30907	4 22.1	26 55	"	"	"					

Dome Temp. 15.6
Focus 15.6
Dome Temp. 15.6

Dome Temp. +57°F

Focus 15.637

Dome Temp. +42°F

Transparency Conditions *Good*

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Siderial watch is 35 seconds slow.

Reading Time R.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 20	1	2 42 W	25 47.	0	6.87	A ₀	1-1-1	set 2.5 } High velocity star.	good
10 12	1	0 18 W	27 37	0	8.12	G ₀	1-1-1	" 7.5 } Double line binary.	l wke
11 05	2	1 11 W	28 47	0	8.37	K ₀	1-1-1	" 2.5 } A.G. 25	too wke
12 03	2	1 17 W	29 39	0-1	8.68	K ₂	1-1-1	" 7.5 } " "	wke
12 35	3	1 03 W	28 24	0-1	8.47	K ₀	1-1-1	" 2.5 } " "	too wke
13 04	3	1 07 W	28 25	0-1	8.30	K ₂	1-1-1	" 7.5 } " "	wke
13 21	4	0 48 W	29 50	0-1	8.09	G ₅	1-1-1	" 2.5 } " "	good
13 53	4	1 13 W	28 05	0-1	7.79	K ₀	1-1-1	" 7.5 } " "	good
14 19	1	1 39 W	25 17	0-1	7.63	G ₅	1-1-1	" 2.5 } " "	fine
14 26	1	2 28 W	26 31	0-1	8.55	K ₂	1-1-1	" 7.5 } " "	wake
14 47	2	1 56 W	27 14	1	7.93	K ₀	1-1-1	" 2.5 } " "	good
15 05	2	2 31 W	28 59	1-0	8.21	K ₀	1-1-1	" 7.5 } " "	good
15 25	3	30 22	1-0	8.91	K₀	1-1	" 2.5	" "	
								Forgot to pull the slide in lined out star.	
								3 loaded PHs in pairs, 3 plates in box.	

Date *Thurs., Oct. 13/14, 1949* Observer *Wm. - C.* Julian Day *2 433 203*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16 790	HD 200 391	20 58.1	+27 24	I-25	F103a-0	SET 008	+15.0	18 44	19 26	2	0 ^E 29
16 791	HD 199 095	20 49.8	+82.10	"	"	"	+15.0	19 40	19 46	2	0 0
16 792	AG 12 385	21 16.5	+29 42	"	"	"	+15.0	20 10	21 24	3	1 16
16 793	HD 211 407	22 11.7	+25 45	"	"	"	+15.0	21 31	22 39	3	1 27
16 794	HD 219 654	23 12.4	+29 20	"	"	"	+15.0	22 48	23 48	4	1 45W
16 795	HD 116 80	01 49.5	+26 47	"	"	"	+15.0	23 58	01 01	4	0 20
16 796	HD 108 29	01 41.0	+30 19	"	"	"	+15.0	01 05	01 45	1	1 08W
16 797	HD 120 29	01 53.0	+28 54	"	"	"	+15.0	02 03	02 34	1	1 50W
16 798	HD 194 85	03 02.8	+25 13	"	"	"	+15.0	03 02	04 06	2	
		FOCUS	TEST	-	O.T.B.						

Dome Temp. 5

Focus 5.5

Dome Temp. 5

Hour Angle
End

Dome Temp. 56

Focus 15.639

Dome Temp. 50°F

Transparency Conditions Rather Hazy

E.D.T. 03:45 - 04 + banks of Cirrus + Str

Cumulus.
4:20 cloud solid from E-W through belt of Orion.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^E 29	+27 37	1-0	8.12	G0	1-1-1	Galileo needle caught on fibers Worry abt PH's out of sequence -all ok??	fine
0 ^W 10	+22 22	1-0	5.69	A0	1 1/2 - 1 1/2	Set 7.5 } BIN	fine
1 ^W 16	+29 56	1-0	8.86	K0	1-1-1	Set 2.5 } AG 25 IV-moving Dec Setting motion M.G. (concave button); S-moving ok	good
1 ^W 37	+25 59	1	8.77	G5	1-1-1	Set 7.5 } AG 25	good
1 45W	+20 38	1	8.70	K5	1-1-1	Set 2.5 } AG 25 Tel. drive erratic.	fine
0 20W	+27 02	1-2	8.98	G5	1-1-1	" 7.5 } AG 25 A very bright flash in the	good
1 08W	+30 31	1-2	8.30	G0	1-1-1	" 2.5 } * " sky as setting no 16795 - unusual!?	good
1 50W	+29 08	1-2	8.12	K2	1-1-1	" 7.5 } " Globe + Mail phoned about it.	good
	+25 24	1-0	8.70	G5	1-1-	" 2.5 AG 25 Set on bright star.	weak
04.35 EDT. CLOUDED OVER						focus good	double lines, a heavy layer of Cirrus at 03.45
						* slide not fully closed - comp. cut off on side	
Oct. 15						5W +23 ^s	

Date Sat. Oct. 15/16, 1949 Observer Wm - Gr Julian Day 2433.205
Gr

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16 799	HD 200 391	20 58.1	+27 24	I-25	F 103a-0	SET 008	+15.0	21 49	22 39	3	2 ^W 57
16 800	HD 221 469	23 27.3	+26 00	"	"	"	+14.9	22 54	23 58	3	1 ^W 47
16801	HD 10866	01 41.5	+25 40	"	"	"	+15.0	00 03	01 03	4	0 31 ^W
16802	HD 13565	02 07.3	+30 06	"	"	"	+14.9	01 16	02 16	4	1 25 ^W +
16803	HD 19485	03 02.8	+25 13	"	"	"	+14.9	02 19	03 29	1	1 43 ^W +
16804	HD 44316	06 16.1	+28 57	"	"	"	+14.9	03 35	04 27	1	0 32 ^E +
16805	HD 48638	06 39.3	+27 47	"	"	"	+14.9	04 31	04 57	2	0 25 ^E +
16806	HD 48640	06 39.3	+24 46	"	"	"	+14.9	05 01	05 43	2	0 20 ^W +
16807	HD 51101	06 50.9	+24 47	"	"	"	+14.9	05 45	06 07	3	0 32 ^W +
		Focus test		O.T.B.							

Date Sun Oct 16-17, 1949 Observer Hd - Go - L Julian Day 2453.206

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16808	HD 191615	20 05.7	25 15	I-25	E103aD	008	15.0	18 48	19 48	1	W 104 2
16809	HD 200391	20 58.1	27 24	"	"	"	15.1	19 56	20 46	1	1 10W 2
16810	HD 216632	22 49.4	27 29	"	"	"	15.1	20 57	21 25	2	0 03E 2
16811	HD 218393	23 2.6	49 40	"	"	"	15.2	21 35	21 47	2	0 08W 4
16812	HD 216723	22 50.1	27 28	"	"	"	15.2	21 55	22 25	3	0 56W 2
16813	HD 218880	23 06.4	29 31	"	"	"	15.2	22 29	22 59	3	1 2W 2
16814	HD 4006	00 37.5	29 34	"	"	"	15.2	23 02	23 36	4	0 19 2
16815	HD 4798	00 44.9	27 50	"	"	"	15.1	23 40	00 12	4	0 48W 2
16816	" 12728	01 59.6	28 39	"	"	"	15.2	00 22	01 12	1	0 33W 2
16817	" 17119	02 39.7	29 55	"	"	"	15.2	01 18	02 10	1	0 51W 3
16818	" 17190	02 40.4	25 15	"	"	"	15.2	02 14	02 54	2	1 35W 2
16819	A.G. 2606	05 35.6	26 13	"	"	"	15.2	03 00	04 20	2	0 06W 2
16820	HD 46160	06 26.7	27 54	"	"	"	15.2	04 24	05 14	3	0 09W 2
16821	" 51886	06 54.0	27 02	"	"	"	15.2	05 17	05 59	3	0 27W 2
16821F	Focus Test				O.T.B.					4	

Dome Temp.
 Focus... 1565
 Dome Temp. 4

Dome Temp. +54 F

Transparency Conditions *Excellent*

88

Focus...15.639

Dome Temp. +47 F

Ending Time P.H.
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 48 1	W 104 25 26	0	8.39	K ₀	1-1-1	Set 2 1/2	l weak
10 46	1 10W 27 36	0	8.12	B ₀	1-1-1	" 7 1/2	good
21 25 2	0 03E 27 44	0	7.77	G ₀	1-1-1	Set 2.5	l weak
21 47 2	0 08W 49 56	0	6.8	Ave	1-1-1	" 7.5	guiding poor
22 25 3	0 56W 27 43	0+	7.79	G ₅	1-1-1	" 2.5	good
22 57 3	1 12W 29 46	0-1	7.77	K ₀	1-1-1	" 7.5	l weak
23 36 4	0 19W 29 49	±0-1	8.09	G ₅	1-1-1	" 2.5	weak
00 12 4	0 48W 28 04	0	7.79	K ₀	1-1-1	" 7.5	l weak
1 2	0 33W 28 51	0-1	8.44	G ₅	1-1-1	" 2.5	good
2 10	0 51W 30 06	1	8.51	G ₅	1-1-1	" 7.5	good
2 54 2	1 35W 25 27	1	8.33	K ₀	1-1-1	" 2.5	fine
4 20 2	0 06 W 26 14	1	9.2?	M ₀	1-1-1	" 7.5	weak
5 14 3	0 09 W 27 51	1	8.67	K ₅	1-1-1	" 2.5	good
5 59 3	0 27 W 26 56	1	8.19	K ₀	1-1-1	" 7.5	fine
4					6/4	4 P.H.s loaded + 8 Hor M	good

Start delayed by failure of one side of declination + phone call from BUP re earthquake. Later L & P called.

guiding poor

Tues, Oct 18/19, 1949 Overcast. Wm.

Date Wed Mar 19 1919 ⁻²⁰ Observer Ba - L Julian Day 3209

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16821	HD 200391	20 58.1	27 24	525"	103a-D	"	17.0	1827	1911	1
16823	201626	21 05.7	26 13	"	"	"	17.0	1913	2023	1
16824	208606	21 52.3	61 04	"	"	"	17.0	2034	2054	2
16825	209205	21 56.5	31 03	"	"	"	17.0	2104	2134	2
16826	210200	22 03.7	42 27	"	"	"	17.0	2139	2209	3
16827	218393	23 02.6	49 40	"	"	"	17.0	2214	2226	3
16828	222033	23 32.1	30 07	"	"	"	17.0	2230	2256	4
16829	4312	00 40.5	25 38	"	"	"	17.0	2259	2339	4
16830	4831	00 45.3	25 02	"	"	"	17.0	2342	23 58	4 ³⁾
16831	" 5705	00 53.6	27 08	"	"	"	17.0	00 03	00 27	4 ³⁾
16832	" 12232	01 55.0	29 27	"	"	"	17.0	00 31	01 19	1
16833	AG. 1264	02 16.4	27 09	"	"	"	17.0	01 23	02 07	1
16834	HD. 14918	02 19.3	25 02	"	"	"	17.0	02 11	02 47	2
16835	" 19485	03 02.8	25 13	"	"	"	17.0	02 51	03 37	2
16836	" 44391	06 16.5	28 02	"	"	"	17.0	03 44	04 38	3
	Focus Test				O.T.B.					3

Dome Temp. 66
Focus 15
Dome Temp. 55

Hour Angle
End
016 E 2
0055 W 2
0034 W 6
0109 W 3
0123 W 4
0056 W 4
0030 W
046 W
106 W
057 W
24
201 W
207 W
006 E

Dome Temp. 60
 Focus 15.665
 Dome Temp. 52°F

Transparency Conditions Good. Light haze

Handwritten notes:
 1-2-1 - 33-33

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1911		0016 E	27 36	0-1	8.12	G0	1-1-1	35 Be. Delay in start. S.W. off 2 min.	fine
2033	1	0055 W	26 25	1	8.85	K2	1-1-1	7.5 " Slight thickening of haze	ok
2054	2	0034 W	61 17	1	7.30	K0 _g	1-1-1	2.5 " Transparency improved	fine
2139	2	0109 W	31 17	1-0	7.47	B9 _s	1-1-1	7.5 "	fine
2211	5	0138 W	42 42	1-0	7.50	B9	1-1-1	2.5 "	fine
2235	7	0056 W	49 56	1-0	6.8	Ave	1-1-1	7.5 Be.	fine
2256	4	0056 W	30 24	1-7	8.0 ^{Est}	G0	1-1-1	2.5 AGZ5	fine
2319	1	0030 W	25 54	2-	8.49	K2	1-1-1	7.5 " how does he do it?	ok
2350	1	046 W	25 17	2-3	7.63	G5	1-1-1	2.5 " plate holder #1 in	fine
0027	1	106 W	27 23	2	8.11	K0	1-1-1	7.5 " spectrograph and the pin at the same time	good
0051	1	057 W	29 41	2-1	8.65	G0	1-1-1	2.5 " }	good
0107	1	124 W	27 22	1-2	8.58	G5	1-1-1	7.5 " }	fine
0147	2	201 W	25 16	2	8.37	G0	1-1-1	2.5 " }	fine
0207	2	207 W	25 24	2	8.70	G5	1-1-1	7.5 " double lines	fine
0248	3	006 E	28 01	2	8.84	K2	1-1-1	2.5 " }	fine
							6/4	7.5 focus clouds 4 P.H.s loaded + 12	

Date Thurs, Oct 20/21, 1949 Observer Wm. Julian Day 2 433 210

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
16 837	HD 218393 Focus Test	23 02.6	+49 40	I-25	E103a-0	SET 008	16.0	20 37	20 57	4

Dome Temp.

Focus 15.65

Dome Temp.

Hour Angle
End0^h 16

Dome Temp.....+56

Transparency Conditions

Terrible!

92

Focus.....15:651

Hd & Wm showed 17 II M&P students
2 w. 4" & BCys with 79"

Dome Temp.....

Please get 218293

933 210

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^E 18	+49°56'	0	6.8	Ave 1-1-1	Set 2.5	BE MT Watch stopped on this, but I believe times are checked with II M&P student's watches focus OK	late
	0 TB	6/4					
						Oct. 21	
						MC -51 ^s SC -03 ^s SW +1 ^m 28 ^s	
						reset by 1 ^m ; Corr. +28 ^s	
						Sat. Oct. 22-23 about 20 visitors Ba showed ring nebula to about 3/4 of group then sky clouded over Some breaks later but remained generally thick.	

93.

Date Sun Oct 23-24, 1949 Observer Ad Julian Day 2433213

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16838	HD 200391	20 58.1	+27 24	I-2.5	E10320	008	+9.7	21 36	22 36	1
16839	MW 397 HD 218393	23 02.6	49 40	"	"	"	+9.7	22 40	23 16	1

Dome Temp. 4
Focus 15.56
Dome Temp.Hour Angle
EndW 3 25
W 2 00

95

Date *from Oct. 24-25/49* Observer *L. Gu* Julian Day *2 433 1214*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16840	H.D. 200391	20 58.1	27 24	I-25	E-103a-0	set 008	+7.3	19 32	20 22	2	1 16 W 2
16841	" 213177	22 24.5	29 18	"	"	"	+7.3	20 25	21 15	2	0 43 W 2
16842	" 218393	23 02.6	49 40	"	"	"	+7.2	21 20	21 36	3	0 25 W 4
16843	" 218199	23 01.0	30 11	"	"	"	+7.3	21 40	22 36	3	1 27 W 3
16844	" 5007	00 47.0	25 14	"	"	"	+7.3	22 40	23 40	4	0 45 W 2
16845	A.G. 977	01 42.0	27 59	"	"	"	+7.2	23 43	00 12	4	0 22 W 2
16846	HD 12029	01 53.0	28 54	"	"	"	+7.0	00 14	06 50	1	0 49 W 2
16847	" 12535	01 57.8	27 00	"	"	"	+7.0	00 53	01 27	1	1 21 W 2
16848	" 19485	03 02.8	25 17	"	"	"	+7.0	02 30	03 22	2	2 6 W 2
16849	" 35076	05 17. ⁰ / ₉	28 51 +6 36	"	"	"	+7.0	03 27	03 32	2	0 07 W 2
16850	" 33541	05 05.9	73 09	"	"	"	+7.1	03 51	03 54	3	0 39 W 7
16851	" 42397	06 05.4	25 02	"	"	"	+7.1	04 09	05 04	3	0 52 W 2
		FOCUS	TEST	A.T.B.							

Dome Temp. +40°F

Focus 15.557

Dome Temp. +33°F

Transparency Conditions Fine after clearing
Clear until morning.

I have got 2 10³ - 3
Start delayed by clouds.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 22	1 16 W	27 37	0	8.12	Go	1-1-1	Set 2.5 } AG 25 dbl. lines	good
21 15	0 43 W	29 32	0	8.07	Ko	1-1-1	" 7.5 } " "	L. weak
21 36	0 25 W	49 55	0	6.8	Ave	1-1-1	" 2.5 } Be prog.	fine
22 36	1 27 W	30 27	0	8.28	Ko	1-1-1	" 7.5 } A.G. 25	weak
23 40	0 45 W	25 29	0-1	8.48	Ko	1-1-1	" 2.5 } " "	very good
00 12	0 22 W	28 15	0-1+	8.40	Go	1-1-1	" 7.5 } " "	L. weak
00 50	0 49 W	29 08	1	8.12	K2	1-1-1	" 2.5 } " "	fine
01 07	1 21 W	27 14	0-1+	7.93	Ko	1-1-1	" 7.5 } " "	fine
03 22	2 16 W	25 24	1	8.70	G5	1-1-1	" 2.5 } " " Wrong star double lines ← couldn't	too weak
03 32	0 07 W	28 54	0-1+	6.15	B9	1-1	" 7.5 } ← Birko recognize field noticed several bright prog guiding	
03 54	0 39 W	73 12	0-1	5.76	Ao	1	" 2.5 } ← Birko star before S.T. corrected also below De	
04 04	0 52 W	25 00	0	8.56	G5	1-1-1	" 7.5 } fuse. AG 25 CLOUDS	weak

focus OK

Just Oct 25/26 Cloudy all night

Oct 27

MC: -36.7 SC: -09 SW: -03.6 Watch next

Dome Temp. 40°F

Transparency Conditions

Focus 15.557

Dome Temp.

Please get 213393
Start delayed because of clouds

Reading Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	27 36	0	8.12	G0	1-1	Set 2.5 } A.G. 25 Double lines.	weak
					6/4	clouds rising rapidly from West. Star gone at 2034	OK
						3 PHs loaded + 16 plates in dome.	

99

Thu

Date Oct 27/28, 1949 Observer Cu, L Julian Day 243 321.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16852	HD 200391	20 58.1	+27 24	I-25 ^A	E103a-0	^{set} 0.008	+8.1	18 23	18 56	1	0 01
16853	HD 201669	21 06.0	+26 53	"	"	"	+8.1	19 04	19 54	1	0 52w
16854	HD 209858	22 01.3	+27 29	"	"	"	+8.1	19 59	20 23	2	0 26w
16855	HD 211555	22 12.8	+25 53	"	"	"	+8.0	20 26	20 46	2	0 36w
16856	HD 218393	23 2.6	+49 40	"	"	"	+8.0	20 51	21 03	3	0 05w
16857	HD 218660	23 04.7	+29 08	"	"	"	+8.0	21 07	21 27	3	0 26w
16858	HD 219418	23 10.5	+25 08	"	"	"	+8.0	21 31	21 49	4	0 03
16859	HD 220288	23 ^{17.5} 20.6	+25 ²² 39	"	"	"	+8.0	21 54	22 14	4	1 01w
16860	HD 4831	00 45.3	+25 02	"	"	"	+8.0	22 20	22 40	1	0 01E
16861	HD 5164	00 48.4	+28 02	"	"	"	+8.0	22 51	23 25	1	0 4w
16862	HD 11644	01 47.6	+25 31	"	"	"	+8.0	23 40	00 20	2	0 37w
16863	" 13836	02 07.7	26 54	"	"	"	+8.0	00 25	01 19	2	1 4w
16864	" 14874	02 18.9	30 12	"	"	"	+8.0	01 23	02 13	3	0 8w
16865	" 19485	03 02.8	25 13	"	"	"	+8.0	02 18	03 08	3	2 08w
16866	" 44391	06 16.5	28 02	"	"	"	+8.0	03 13	04 11	4	0 02E
16867	" 46366	06 27.7	27 07	"	"	"	+8.0	04 15	05 09	4	0 45w

Dome Temp. +4
Focus 15.54
Dome Temp. +4Hour Angle
End

Dome Temp. +46°F

Transparency Conditions

fine

Focus 15.540

Dome Temp. +41°F

7219293

Spectacular Aurora!

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 56	1	0 01W	27 36	1	8.12	G ₀	1-1-1	Set 2.5 } AG 25	<i>fine</i>
19 54		0 52W	27 06	0.1	8.36	K ₀	1-1-1	" 7.5 } " "	<i>fine</i>
20 23	2	0 26W	27 44	1+	7.72	G ₀	1-1-1	" 2.5 } " "	<i>fine</i>
20 46	2	0 36W	26 07	1+	7.74	K ₀	1-1-1	" 7.5 } " "	<i>fine</i>
21 03	3	0 05W	49 56	1	6.8	Ave	1-1-1	" 2.5 } Be pro.	<i>fine</i>
21 27	3	0 26W	29 21	1	7.52	K ₀	1-1-1	" 7.5 } AG 25	<i>fine</i>
21 49	4	0 43W	25 23	1+	7.44	K ₀	1-1-1	" 2.5 } " "	<i>good</i>
22 44	4	1 01W	25 37	2	7.99	K ₂	1-1-1	" 7.5 } " "	<i>good</i>
22 40	1	0 01E	25 18	1-2	7.63	G ₅	1-1-1	" 2.5 } " "	<i>fine</i>
23 25	1	0 41W	28 17	1	8.16	G ₅	1-1-1	" 7.5 } " "	<i>fine</i>
0 20	2	0 37W	25 48	1	8.33	G ₅	1-1-1	" 2.5 } " checked on br. star.	<i>good</i>
1 00	2	1 14W	27 07	1	8.61	G ₅	1-1-1	" 7.5 } " "	<i>fine</i>
2 00	3	1 58W	30 25	1	8.57	G ₅	1-1-1	" 2.5 } " "	<i>fine</i>
2 00	5	2 08W	25 25	1-2	8.70	G ₅	1-1-1	" 7.5 } " "double lines"	<i>fine</i>
4 11	4	0 02E	28 03	2	8.84	K ₂	1-1-1	" 2.5 } " "	<i>fine</i>
09 4	4	0 45W	27 05	1	8.58	K ₀	1-1-1	" 7.5 } " "large near end"	<i>good</i>

Dome Temp.....+53°F

Transparency Conditions...Occasional cloud.....

104

Focus.....15:604.....

Dome Temp.....+44°F

Cloudy @ sunset, clearing slowly.

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
21 29		0 ^W 48	+27° 35'	1-0	8.12	G0	1-1-1	Set 2.5 } AG25 - Dubl lines	Cloud's coming - fading passing clouds	fine
22 04		2 ^W 06	+26° 25'	1-0	8.85	K2	1-1-1	Set 7.5 } AG25 var R.V.		weak
22 30		1 ^W 22	+28 22	1	8.48	K2	1-1-1	Set 2.5 } AG25	H	good
22 48		1 ^W 24	+49.56	1	6.8	Ave	1-1-1	Set 7.5 } Be	A	fine
23 22		0 ^W 58	+26 49	1	8.68	G5	1-1-1	Set 2.5 } AG25	E	weak
00 24		0 48 ^W	+29 13	1	8.54	G5	1-1-1	Set 7.5 } AG25	↓	good
01 31		1 25 ^W	+28 17	0	8.56	G0	1-1-1	Set 2.5 } "	↓	fine
02 50		1 56 ^W	+25 25	1-3	8.70	G5	1-1-1	Set 7.5 } "	BAD ↓ HAZE AND CLOUD IN N.	fine
03 55		0 23 ^E	+28 01	2	8.35	K2	1-1-1	Set 2.5 } "	" " "	fine
04 59		0 40 ^W	+27 07	2	8.58	K0	1-1-1	Set 7.5 } "	" " N9E	fine
06 03		1 29 ^W	+25 32	2	8.51	K2	1-1-	Set 2.5 } "	" " "	fine
							6/5	Set 7.5 }	focus OK	
									4 P.H. Loaded	New box of plates needed
									H. on M.	

105

Date Sat Oct 29-30 1949 Observer Ad - Bin Julian Day 2433.219

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16880	HD 200391	20 58.1	27 24	I-25	E10320	008	+13.7	21 47 11	21 27 51	3
16881	^{mw 397} HD 218393	23 02.6	49 40	"	"	"	+13.5	21 27 55	22 07	3
16882	HD 219736	23 13.1	29 54	"	"	"	+13.5	22 "	22 49	4
16883	HD 5092	00 47.7	29 48	"	"	"	+13.6	22 50	00 10	4
16884	HD 12638	01 58.7	25 27	"	"	"	+13.2	00 16	00 46	1
16885	HD 12897	02 01.2	25 51	"	"	"	+13.2	00 50	01 15	1
16886	HD 15256	02 22.3	29 26	"	"	"	+13.2	01 19	01 44	2
16887	HD 15326	02 22.9	29 14	"	"	"	+13.2	01 49	02 15	2
	HD FOCUS TEST		O. T. B.							

Dome Temp. ...
Focus ...
Dome Temp. +

Hour Angle
End

Dome Temp. +51 F

Focus 15.620

Dome Temp. +48 F

Transparency Conditions

Good at first

10.6

about 150 visitors showed B with 74"
4 with 5" (4 with 4"

Ending Time
E.S.T.

P.R.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21	3 06	27 38	1	8.12	Go	1-1-1	Sat 2 1/2 AG 25 Double lines	fine
22 07	1 18	49 56	1	6.8	Ave	1-1-1	" 7 1/2 Be	fine
22 49	1 47	30 "	1	8.15	Ko	1-1-1	" 2 1/2 AG 25 Increasing haze	fine
00 10	1 34W	30 05	0-1	8.47	Ko	1-1-1	" 7 1/2 AG 25 Becoming very hazy	good
00 46	0 59W	25 41	1+	8.02	G5	1-1-1	" 2.5	fine
1 15	1 26W	26 06	1-2	7.91	G5	1-1-1	" 7.5	fine
1 42	1 34W	29 39	1-2	7.55	Go	1-1-1	" 2.5	fine
2 15	2 05W	29 27	1-2	7.58	G1	1-1-1	" 7.5 " Fog, Haze thickening	unstopped
FOG OVER EVERYTHING								
9 graded Ph's in pict also two plates.								
<div style="display: flex; justify-content: space-around;"> Oct 31 MC 00 next SC -11.5 SW -18.5 </div>								

107

Date *Mon Oct 31 - Nov 1 1949* Observer *L. G. V.* Julian Day *2 433 221*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16888	HD. 200391	20 58.1	27 24	I-25	E-10340	set .008	+8.0	19 08	20 08	2
16889	" 214458	22 33.2	29 24	"	"	"	+7.9	20 11	21 11	2
16890	" 218393	23 02.6	49 40	"	"	"	+7.8	21 19	21 39	3
16891	" 4963	00 46.5	27 13	"	"	"	+7.8	21 45	23 09	3
16892	" 10981	01 42.8	30 17.	"	"	"	+7.8	23 13	00 23	4
16893	" 13691	02 08.4	26 10	"	"	"	+7.7	00 30	01 12	4
	FOCUS TEST			O.T.B.						1

Dome Temp. +39°F

Transparency Conditions *Excellent*

108

Focus.....15.552

Dome Temp. +32°F

Cloudy with rain squalls all day, breaking at sunset.

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 08	2	1 31 W	27 37	0!	8.12	G0	1-1-1	Set 2.5 } ^{AG25} Double lines } plate marked 1688	good
21 11	2	0 59 W	29 41	0	8.26	K0	1-1-1	" 7.5 } " " } <i>poor guiding</i>	"
21 39	3	0 57 W	49 56	0	6.8	Ave	1-1-1	" 2.5 } Be Prog. } " " }	"
23 09	3	0 43 W	27 32	0	8.62	G5	1-1-1	" 7.5 } AG. 25 }	"
00 23	4	1 00 W	30 32	0	8.72	G5	1-1-1	" 2.5 } " " }	"
01 12	4	1 23 W	26 23	0	8.14	G5	1-1-	" 7.5 } " " } <i>cloudy in West.</i>	<i>1 week</i>
								<i>center sl. to 'red.</i>	
								<i>Overcast closed @ 3:00 D.S.T.</i>	
								<i>4 pl's loaded in pier</i>	
								<i>Eastman box with 5 plates.</i>	

109

Date Tues, Nov 1/2, 1949 Observer Wm - Cav Julian Day 2 433 222

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16 894	HD 197 508	20 ^h 39 ^m .1	+83° 17'	T-25	E _{103a-0}	SET 008	+5.4	18 05	18 15	1	1 ^m 06
16 895	HD 200 391	20 ^h 58 ^m .1	+27 ² 74	"	"	"	+5.3	18 24	19 14	1	5 ^m 40
16 896	HD 201 626	21 05.7	+26 13	"	"	"	+5.3	19 18	20 44	2	2 ^m 02
16 897	^{MWC 397} HD 218 303	23 02.6	+49 40	"	"	"	+5.1	20 50	21 02	2	1 ^m 14
16 898	AG 13 862	22 59.4	+28 17	"	"	"	+5.2	21 14	22 34	3	1 ^m 58
16 899	HD 19 485	03 02.8	+25 13	"	"	"	+5.2	22 43	23 53	3	2 ^m 16
16 900	HD 13 610	02 07.7	+24 55	"	"	"	+5.1	23 58	01 01	4	1 ^m 20
16 901	HD 14 969	02 19.7	+29 26	"	"	"	+5.1	01 05	01 38	4	4 ^m 30
16 902	HD 149 18	02 19.3	+25 02	"	"	"	+5.1	01 42	02 22	1	2 ^m 28
		FOCUS	TEST	O.T.B.							

Dome Temp..... +40°F

Focus..... 15.508

Dome Temp..... +38°F

Transparency Conditions..... Same haze; c.

03.30 D.S.T. cumulus from south

110

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5:15		0 ^W 06	+83 28	0	6.22	A2	1-1-1	Set 2.5 } Bin.	good
9:14		0 ^W 40	+27 37	0	8.12	G0	1-1-1	Set 7.5 } AG25 - Dubl-liner	(weak)
0:4		2 ^W 02	+26 24	0	8.25	K2	1-1-1	Set 2.5 } AG25 - Pec *	fine
1:2		0 ^W 24	+10 57	0	6.3	Ave	1-1-1	Set 7.5 } Be *	fine
1:4		1 ^W 58	+23 33	0	8.60	G0	1-1-1	Set 2.5 } AG25 Some clouds	good
1:53		0 ^E 46	+25 26	0	8.70	G5	1-1-1	Set 7.5 } AG25-Dubl-liner poor guiding	fine
1:01		1 18W	+25 09	1+	8.84	G0	1-1-1	Set 2.5 } AG25	v good
1:36		1 43W	+29 39	1-2	8.18	K ₂	1-1-1	" 7.5 } " " poor guiding	good
2:20		2 28W	+25 14	1-2	8.37	K ₂	1-1-1	" 2.5 } " " Clouds, travelling fast from South ^{poor guiding}	good
Centre focus exposure TOO WEAK									
4 Phs. loaded in pair. new box									
plates needed.									

Date Monday Nov. 7-8/49 Observer L- Julian Day 2433 228

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16904	H.D. 200391	20 58.1	27 24	I-25	E-103a-0	set .008	+7.4	20 10	21 00	2	2 50 W
16905	" 218393	23 02.6	49 40	"	"	"	+7.4	21 05	21 23	2	1 09 W
16906	" 2343	00 22.2	30 21	"	"	"	+7.6!	21 29	22 21	3	0 53 W
	Focus Test						0 T.B.			3	

Dome Temp. +4
Focus 15.53
Dome Temp.

Dome Temp. +46 °F

Transparency Conditions *Light haze*

114

Focus... 15.537

Dome Temp.....

228

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
								Clouds after sunset, then breaking, found telescope heavily dewed, waited with shutters open the. before opening mirror.	
00	2	2 50 W	27 37	0	8.12	Go	1-1-1	set 2.5 } A.G. 25 double lines.	fine
03	2	1 09 W	49 55	0	6.8	Ave	1-1-1	" 7.5 } Be prog.	fine
2 20	3	0 53 W	30 36	0-1	8.90	G5	1-1-1	" 2.5 } A.G. 25 haze, clouds, star	weak
	3						6/4	" 7.5 } gone at 22.21 focus OK	
								1 P.H. loaded plates needed	
								H on M	

Date Tuesday Nov 8-9/49 Observer ADR - L Julian Day 2433229

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
16907	HD 200391	20 58.1	27 24	E-25	E10300	008	+11.0	18 03	18 57	4	N 0 51
16908	HD 208415	24 51.0	30 21	"	"	"	+11.0	19 01	20 05	4	W 1 06
16909 A	^{MW 397} HD 218393	23 02.6	49 40	"	"	"	"	20 10	20 22	1	
B	"	"	"	"	"	"	"	20 22	20 34		
C	"	"	"	"	"	"	+11.2	20 34	20 46		W 0 35
16910	HD 217230	22 54.2	26 57	"	"	"	+11.0	20 50	22 00	2	W 1 56
16911	HD 200391	20 58.1	27 24	"	"	"	+11.0	22 05	23 05	2	W 5 00
16912 A	^{MW 397} HD 218393	23 02.6	49 40	"	"	"	"	23 12	23 28	3	
B	"	"	"	"	"	"	"	23 28	23 42		
C	"	"	"	"	"	"	+11.0	23 42	23 56		3 47 W
16913	" 14490	02 15.3	29 28	"	"	"	+11.0	00 05	01 17	4	54 W
16914	" 14608	02 16.5	29 53	"	"	"	+11.0	01 20	02 20	4	2 55 W
16915	" 44615	06 17.6	29 01	"	"	"	+11.0	02 25	03 45	1	0 19 W
	Focus Test										
					O.T.B.						

Dome Temp. +9
Focus 15.58
Dome Temp. +3

Dome Temp. +47

Transparency Conditions Excellent

116

Focus 15.586

Dome Temp. +35°F

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 57	4	W 0 51	27 36	0	8.12	G ₀	1-1-1	Set 2.5 Can it be there is only 1 unopened box 103a03	fine
20 05	4	W 1 06	30 39	0	8.33	K ₀	1-1-1	" 7.5 Right hand RA guiding sticking	"
20 22	1			0	6.8	Ave	1-1-1	Set 1	"
20 34				0			1-1-1	" 5	
20 46		W 0 35	49 58	0			1-1-1	" 9	
2 02		W 1 56	27 16	0	8.48	K ₀	1-1-1	Set 2.5	good
2 12		W 5 00	27 38	0	8.12	G ₀	1-1-1	" 7.5	poorly guided weak
2 29				0	6.8	Ave	1-1-	" 1	fine
2 32				0	"	"	1-1-1	" 5	
2 36		3 47 W	49 56	0	"	"	1-1-1	" 9	
01 7 4		1 54 W	29 43	0	8.70	G ₀	1-1-1	" 2.5 } AG.25	good
02 2 4		2 55 W	30 07	0	8.54	K ₀	1-1-1	" 7.5 } " "	"
3 40		0 19 W	29 00	0	8.89	G ₀	1-1-1	" 2.5 } " " light clouds near end	"
							6/4	focus ok sky falling in	
								3 PHs loaded + 4	
								Nov. 9 HC SC SW -00.4 -18.9 H on M. -31.3	

117

Date Wed Nov 9/15 Observer Ba, Cu Julian Day 3230

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
16916.	32 Ggg	20 12.4	47 24	525"	103a-D	008	7.1	1826	1846	2
16917	"	"	"	"	"	"	7.1	1846	1900	2
16918	"	"	"	"	"	"	7.1	1900	17 9	2
16919.	HD 218393	23 02.6	49 40	"	"	"	7.1	2002	2024	3
16920	2839	00 26.7	27 58	"	"	"	7.1	2035	21 35	3
16921	200391	20 58.1	27 24	"	"	"	7.0	2142	2300	4
16922	5585	00 52.5	28 59	"	"	"	7.0	2307	23 59	4
16923	5705	00 53.6	27 08	"	"	"	7.0	00 02	00 44	1
16924	12029	01 53.0	28 54	"	"	"	6.9	00 50	01 32	1
16925	12535	01 57.8	25 27 27 00	"	"	"	6.9	01 35	02 10	2
16926	33541	05 05.9	+73 09	"	"	"	6.9	02 23	02 28	2
16927	42454	06 05.7	29 31	"	"	"	7.0	02 38	03 30	3
16928	44316	06 16.1	28 57	"	"	"	7.0	03 47	04 39	2
16929	54825	07 05.3	26 34	"	"	"	7.0	04 43	05 05	4
16930	63016	07 41.7	28 55	"	"	"	7.0	05 08	05 46	1
FOCUS TEST							O.T.B.			

Dome Temp. 40
 Focus 15.540
 Dome Temp.

Transparency Conditions

Curves Haze cleared Sat/18
 Gradually clearing after 1840
 thickening & thinning continually.

clearing to good.

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
246	2	0128W	47 33	0-1	6.0	K	1-1-1	1 Exposure frequently interrupted by cloud.	
1930		0142W	"	0	"	"	1-1-1	5	
	2	0151W	"	0	"	"	1-	9 Terminated by haze	
	2	—	49 55	0-	6.8	Ave	1-1-1	2.5 BE. Stage cleared so re-observed, but haze	fine
2135		0003W	28 15	0	8.2	G	1-1-1	7.5 AG thickened again after beginning exp. ^{for 10 min} extended	very weak
		0457W	27 36	1	8.12	GO	1-1-1	2.5 " Transparency good	fine
	4	0200W	29 15	0-	8.22	K0	1-1-1	7.5 " This curve - outstanding sky	good
		2 46W	27 23	0-1	8.11	K0	1-1-1	2.5 } A G 25 High curves haze	poor finding
		2 35W	29 07	0-1	8.12	K0	1-1-1	7.5 } " "	poor finding
	2	3 09W	27 14	0-1	7.93	K0	1-1-1	2.5 } " "	very guiding
		0 16V	73 12	0-1	5.76	A0	1-1	7.5 } Bin. poor guide	good
	3	0 20W	29 30	1	8.68	G5	1-1-1	2.5 } A G, 25 very near moon, no finder	fine
	3	1 19W	28 56	1+	8.61	K0	1-1-1	7.5 } " " field almost done	good
	4	0 57W	26 29	1-2	7.7	K0	1-1-1	2.5 } A G, 25 Trouble because Moon too close to find	poor
	4	—	28 47	0-1	8.12	G5	1-1-1	7.5 } " two stars	good
<p>⁴/₃ all Ph's empty, new box plates used</p>									beam OK

119

I-25

Date Wed Nov 16/17 1949 Observer Bo - L Julian Day 13237

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16931	32 Cyg	20 12.4	47 24	E 15"	103aD	.008	4.2	1919	1927	1
16932	"	"	"	"	"	"	4.2	1927	1942	1
16933	"	"	"	"	"	"	4.2	1942	2002	1
16934	HD 200391	20 58.1	27 24	"	"	"	4.2	2010	2100	2
16935	32 Cyg	20 12.4	47 24	"	"	"	4.2	2108	2113	2
16936	"	"	"	"	"	"	4.2	2114	2124	3
16937	HD 218393	23 21.6	49 40	"	"	"	4.2	2146	2200	3
16938	216 723	22 50.1	27 28	"	"	"	4.2	2207	2247	4
16939	216632	22 49.4	27 29	"	"	"	4.2	2249	2339	4
16940	218393	23 02.6	49 40	"	"	"	4.2	2346	0002	2
16941	14146	02 12.2	28 34	"	"	"	4.2	00 10	00 44	2
16942	14875	02 18.9	28 46	"	"	"	4.2	00 48	01 18	3
16943	45336	06 21.7	29 19	"	"	"	4.2	01 24	02 20	3
16944	46944	06 31.0	28 03	"	"	"	4.2	02 24	03 20	4
	Focus feet				10TB					

Dome Temp 36
Focus 15.49
Dome Temp 13Hour Angle
End

Nov 21

12A

Date Mon. Nov. 21-22, 1949 Observer L- Julian Day 12 433 242

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16945	32 Cygni	20 12.4	47 24	I-25	E-103a0	5ex 008	-1.6	17 51	17 55	1
"	"	" "	" "	"	"	"	-1.6	17 56	18 10	1
16946	H.D. 200391	20 58.1	27 24	"	"	"	-1.5	18 15	19 05	2
16947	" 201626	21 05.7	26 13	"	"	"	-1.6	19 08	20 58	2
16948	" 200391	20 58.1	27 24	"	"	"	-1.8	21 02	22 10	3
	Focus Test					O.T.B.				

Dome Temp. +2
Focus 15.42
Dome Temp. 12

Hour Angle
End
1 25 W 4
1 40 W
1 56 W 2
3 35 W 2
4 55 W 2

Dome Temp. +26°F

Focus 15.425

Dome Temp. +20°F

Transparency Conditions

good thin haze.

122

occasional cloud, cleared snow
cleaning to fine in morning
Gu

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
7 55	1	1 25 W	47 34	0	^{EST} 5	K ₀ -A ₀	1½-1½	set 2.5	
8 0	1	1 40 W	" "	0	"	"	1½-1½	" 7.5	
9 05	2	1 56 W	27 36	0	8.12	G ₀	1-1-1	" 2.5	AG 25 Double lines
10 03	2	3 35 W	26 24	0	8.85	K ₂	1-1-1	" 7.5	" " some haze, light clouds
12 10	3	4 55 W	27 36	0	8.12	G ₀	1-1-1	" 2.5	" " Double lines light cloud
							6/4	" 7.5	snow!
									4 P.H.s loaded +4 Hon M.
									Tues. Nov. 22-23 cloudy all night

Date Wed Nov 23-24, 1949 Observer L- Julian Day 12 433 244

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16949	32 Cygnis	20 12.4	47 24	I-25	E-103a0	Set .008	+0.9	17 29	17 37	1
"	"	" "	" "	"	"	"	+0.9	17 37	17 59	1
16950	H.D. 200391 Focus Test	20 58.1	27 24	"	"	"	"	18 03	18 37	2
					O. T. B.					

Dome Temp. +3
Focus 15.45
Dome Temp.

Hour Angle
End
1 15 W 4
1 37 W -

125

Date FRIDAY, Nov. 25/26, 1949 Observer Wm-L Julian Day 12433.246

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16 951	HD 200 391	20 53.1	+27°24'	I-25"	E103a-D	^{SET} 008	-2.5	18 02	18 52	3	1 ^m 52
16 952	HD 201 626	21 05.7	+26°13'	"	"	"	-2.8	18 57	20 27	3	3 ^m 20
16 953	HD 200 391	20 58.1	+27 24	"	"	"	-2.8	20 33	21 33	4	4 ^m 34
16 954	^{MWC 397} HD 218 393	23 02.6	+40 40	"	"	"	-3.0	21 41	22 01	4	2 ^m 57
16 955	HD 6 475	01 00.7	+59 20	"	"	"	-3.0	22 12	22 42	1	1 ^m 36
16 956	HD ¹⁴⁸⁷⁶ 14949	^{18.9} 19.5	+27 13	"	"	"	-2.8	22 57	00 29	1	2 08W

Dome Temp. +2

Focus 15.4

Dome Temp. +11

Dome Temp.....+23°F

Focus.....15.408

Dome Temp.....+10°F

Transparency Conditions ^{low} Cloud in west; otherwise ok

126

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
252	3	1 ^w 52	+27 37	0!	8.12	GO	1-1-1	Set 2.5 } AG 25 - DUBL. LINER	
0 27	3	3 ^w 20	+26 26	0	8.85	K2	1-1-1	Set 7.5 } AG 25 - Bin? Rising wind - Cloud?	
2 03	4	4 ^w 34	+27 37	0!	8.12	GO	1-1-1	Set 2.5 } AG 25 - DL's	
2 51	4	2 ^w 57	+43°57	0	6.8	Ave	1-1-1	Set 7.5 } Be Prag.	
2 42		1 ^w 38	+59 36	0+	6.78	ADN	1-1-1	Set 2.5 } Bin	
0 29		2 08W	+27 26	0	8.72	K0	1-1-1	Set 7.5 } AG 25 light haze toward end then light snow. closed up at 2.30. sky overcast. 3 PHs loaded + full box Hon M.	

Date Sun Nov 27-28 1948 Observer Hd Julian Day 3248

Dome Temp. 1
Focus 1536
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16957	HD 192909-10 32 Cygni	20 12.4	47 24	I-25	E103aD	008		19 55	20 01	2
16958	"	"	"	"	"	"	-6.2	20 01	20 23	
16959	HD 200391 MW 397	20 58.1	27 24	"	"	"	-6.3	20 29	21 45	3
16960	HD 218393	23 02.6	49 00	"	"	"	-6.9	21 57	22 21	

Hour Angle
End
419
54
26

Dome Temp. 17 F

Focus 15.365

Dome Temp.

Transparency Conditions Excellent at first

128

Trouble opening & closing dome (snow)

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 01	Z		0	5.16	Comp	1-1-1	Set 2 1/2	
20 23	W 4 18	47 36		"	"	-1-1-1	" 7 1/2	
21 45	W of 54	27 37	0	8.12	Go	1-1-1	" 2 1/2 Double lines	
22 41	W 3 26	49 57	0	6.8	Ave	1-1-1	" 7 1/2 Thickening from 22 00	
							MC SC SW Nov. 30 +04.6 -49.2 -03.2	

Date Fri Dec 2-3, 1949 Observer Hdl - Cw Julian Day 2433253

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Star Angle End	D
16961	32 Cygni HD 192909-10	20 12.4	+47 24	J-25	E103a0	008		18 00	18 08	4		
16962							+0.4	18 08	18 30	4	W 24	4
16963	MW 397 HD 218393	23 02.6	49 40	"	"	"	+0.1	18 35	19 05	1	W 26	4
16964	HD 200391	20 58.1	27 24	"	"	"	0.0	19 14	20 30	1	W 35	2
16965	MW 397 HD 218393	23 02.6	49 40	"	"	"	0.0	20 35	21 05	2	W 26	4
16966	HD 66475	01 00.7	59 20	"	"	"	0.0	21 10	21 38	2	W 10	5
16967	MW 397 HD 218393	23 02.6	49 40	"	"	"		21 44	22 14	3		
16968	"	"	"	"	"	"	0.0	22 14	22 44	3	W 40	4
16968A 16969	HD 19083	03 02.8	25 13	"	"	"		22 50		3		
16969	HD 51886	06 54.0	27 02	"	"	"	0.0	02 40	03 10	4	W 45	0
16970	HD 46148	06 26.6	15 47	"	"	"	0.0	03 18	03 40	1	W 46	25
16971	HD 76396	08 50.9	51 49	"	"	"	0.0	03 55	05 55	1	W 33	5

Dome Temp. 26
Focus 15.43
Dome Temp. 50

Dome Temp. +26 F
 Focus 15.430, 15.420
 Dome Temp. +18 F

Transparency Conditions *Good*

130

$\frac{5}{10}$ clouds while opening but improving.

3253

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 9	4			0	5.2	comp	1 $\frac{1}{2}$ -1 $\frac{1}{2}$	Set 2 $\frac{1}{2}$ [control Some trouble with temp.	
18 30	4	W 2 41	47 35	0			1 $\frac{1}{2}$ -1 $\frac{1}{2}$	" 7 $\frac{1}{2}$	
17 05	1	W 26m	49 55	0	6.8	Ave	1-1-1	" 2 $\frac{1}{2}$ Be Prop.	fine
2 20	1	W 3 56	27 40	0	8.12	G5	1-1-1	" 7 $\frac{1}{2}$ some Obble lines clouds	fine
21 55	2	W 2 26	49 56	0	6.8	Ave	1-1-1	" 2 $\frac{1}{2}$	
5 38	2	W 1 01	59 35	0	6.78	Atom	1-1-1	" 7 $\frac{1}{2}$	
1 13	3			1	6.8	Ave	1-1-1	" 2 $\frac{1}{2}$	
2 2	4	W 4 06	49.55	1	"	"	1-1-1	" 7 $\frac{1}{2}$	
	4				8.70	G5	1-	" 2 $\frac{1}{2}$ } Re-started at 2-30 am	
02 10	4	O 45 W	26 58	0-1	8.19	K0	1-1-1	" 7.5	
03 01	1	1 46 W	25 46	0-1	7.63	F8	1-1-1	" 2.5 Bin. Rec buttons taking	
05 01	1	1 33 W	51 37	1	9.82	R4	-1-	" 7.5 } RA. fits and sliding 3 PH's loaded & filter in Eastman Box.	
<p>Didn't start new exposure at 6 am because of some Hg. mfgts. only available</p>									

Dome Temp..... 20

Focus..... 15.370

Dome Temp.....

Transparency Conditions

Prog. Com. Log. 134
June 2nd at 1930
Gradually improved visibility, 1830

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0244W	47 32	0-1	5 [?]	Comp.	1-1-1	Large blue Stroniger	good
0252W	"	0-1	"	"	1-1-1	Small blue Stroniger	v. clear
0348W	27 36	0	8.12	GO	1-1-1	Binary. Some haze cleared up	good
0210W	49 56	0	6.9	blue	1-2	Red colorless. Some haze cleared up	good
						to stop - too near to be read.	
						Clouded over at 2026.	

Date Thurs Dec 8-9/19 Observer Hd-1 Julian Day 243 3259

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16976	MW 397 HD 218393	23 02.6	49 40	I-25	E10300	008		22 25		1
16976	MW 397 HD 218393	23 02.6	49 40	I-25	E10300	008	-5.9	22 42	23 16	1
16977	HD 19435 Focus Int.	03 02.8	25 13	"	"	"	-5.7	23 22	00 52	2
					O.T. 13.					

Dome Temp. +19
Focus 15.36
Dome Temp. 14

Hour Angle
End
15 34
2 39 W 25

Dome Temp. +18 F

Focus 15.368

Dome Temp. +14 F

Transparency Conditions

fair
clearing after 200

136

Ending Time
E.S.T.

P.H.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
				6.8	Ave	1-1-1	set 2 1/2 wrong*. Found Str ego. 1 hr slow													
1	W 5-2	49 57	0	6.8	Ave	1-1-1	set 2 1/2													
2	2 39 W	25 26	0	8.70	G5	1-1-1	2 1/2 some light clouds. more clouds, light snow, gave up at 3.30 sky thick, more snow.													
							2 Plate holders loaded + 2 part boxes H on M.													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Dec 12</td> <td>+13.8</td> <td>-11.2</td> <td>-09.0</td> <td>-0.3</td> <td>-09.7</td> </tr> </table>		MC	SC	MTW	STW	SW	Dec 12	+13.8	-11.2	-09.0	-0.3	-09.7	
	MC	SC	MTW	STW	SW															
Dec 12	+13.8	-11.2	-09.0	-0.3	-09.7															
							1949 Sat, Dec 10/11 } Overcast - Solid. W m Sun, Dec 11/12 }													

13.7

Date July 13-14, 1949 Observer Boa Julian Day 326⁴/₇

Dome Temp.
Focus 15.4
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
16978	HD 200391	20 58.1	27 24	E25'	103aD	002	2.0	1952	2052	3
16979	218393	2302.4	49 40	"	"	"	1.4	2057	2131	
16980	11650	01 49.2	27 20	"	"	"	1.4	2139	2207	
	Forun 201		27 20			6/4				

Hour Angle
End
0554W
0337W
7

Dome Temp. 26

Focus 15.440

Dome Temp.

Transparency Conditions scattered clouds, clearing after sunset. Then considerable noise followed after opening up.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0504W	27 36	0	8.12	GO	1-1-1	²⁵ Bir.	
0337W	49 57	0	6.8	Aue	1-1-1	⁷⁵ Be	
	27 20	0	8.49	G5	1-1	²⁵ AG25 clouded over.	
						40M 4PM +4.	

139

Date Wed Dec 14 - 15, 1949 Observer Pa - L Julian Day 326⁵

Plate No.	Object	R. A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16981	HD 215393	23 02.6	49 40	53"	103"	"	-4.2	20 48	21 28	1	0 20
16982	12638	01 52.7	25 27	"	"	"	-4.8	21 34	22 14	2	0 12
16983	13691	02 08.4	26 10	"	"	"	-4.5	22 18	22 52	3	0 15
16984	13836	02 09.7	26 54	"	"	"	-4.8	22 55	23 55	4	0 57
16985	19485	03 02.8	25 13	"	"	"	-4.8	00 00	01 30	1	23 44
16986	45427	06 22.2	27 42	"	"	"	-4.8	01 35	03 13	2	2 05
16987	76396	08 50.8	51 49	"	"	"	-4.8	03 22	07 08	3	3 31
	<i>Transit</i>				O.T.B.						

Dome Temp. 1
Focus 15.39
Dome Temp. 1

Dome Temp. 1.6

Focus 15.395

Dome Temp. +13°F

Transparency Conditions

Variable cloud clearing
by mid eve. Light haze

140

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0339	W	49 57	<0	4.8	K ₂	1-1-1	25 Be	fine
0129	W	25 41	0	8.02	G5	1-1-1	5 AG25	good
0154	W	26 24	1	8.14	G5	1-1-1	5 AG25	good
0257	W	27 07	1+	8.61	G5	1-1-1	" Strong W. wind	fine
03 41	W	25 25	0	8.70	G5	1-1-1	" Double lines. image unstable	fine
2 05	W	27 41	0	8.77	K ₂	1-1-1	"	fine
3 31	W	51 37	1	9.8?	R ₄	1-1-1	" "R" star	fine
						6-4		
							1 P.H. loaded + 4	
							Non M.	

141

Date Thu Dec 15/16, 1949 Observer W.M. Julian Day 3266

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16 988	^{MWC 397} HD 218 393	23 02.6	+49°40'	I-25	E103a-0	^{SET} 000	-6.4	19 52	20 32	4	2 ^h 47
16 989	HD 6475	01 00.7	+59 20	"	"	"	-6.4	20 54	21 34	1	1 ^h 49
16 990	HD 13 565	02 07.3	+30 06	"	"	"	-6.4	21 45	22 15 <small>CLOSED CALL END 23 00</small>	2	2 ^h 15
	Focus Test					OTB					

Dome Temp.
Focus 15.3
Dome Temp.

Dome Temp. +15°F

Focus 15.364

Dome Temp.

Transparency Conditions Satisfactory

142

Cloudy, clearing ~ 1800

Lost ~ 45" discovering 10" error in setting RA circle on telescope

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 ^W 47	+49 58	0	6.8	Ave	1-1-1	Be Prag	fine
1 ^W 49	+59 36	0	6.78	Aon	1-1-1	Bin	fine
2 ^W 25	+30 20	0	8.30	G5	1-1-1	AG25	fine
					5/4		
						2 PH + 12	
						H on M	
						Dec. 16	
						NC +17.2	
						SC -1 16.5	
						MTW +25.6	
						STW +0.3	
						SW +21.5	
						Dec. 16-17	
						Heavy Haze	
						Dec. 17-18	
						" " clouding over at ~ 2100	
						Gr.	
						Dec. 23	
						NC +23.0	
						SC -1 ^m 32.4	
						MTW +20.8	
						STW +0.7	
						SW -55	

Dome Temp. 26°F

Transparency Conditions... Cloudy... clearing 1900 h. 144

Focus... 15.425

Dome Temp.....

Ending Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+28 38		8.85	G5	1-	Had trouble with focusing inverted + had to cut off exp. (I put plate in 2 nd but didn't number it)	
0 30W	+25 26	0	8.70	G5	1-	plate not kept. Heavy haze moving in — no star closed off exp after 26 min. Pulled pt without putting on focus test. 4 P.H. loaded H on M.	nothing
Dec. 23-24							
Opened up at midnight - set on S. Janis but she obscured by light clouds sky generally overcast by 0100 EST. Closed down.							
Sun Dec 25/26 ⁴⁹ Cloudy - cirrus; not good enough to work, even if it hadn't been Christmas! Wm							

145

Date *Shure Dec. 29-30/49* Observer *Mi-L* Julian Day *24332⁸⁰~~73~~*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
16992	H0 5584	00 52.5	+29 47	I-25	103a 0	.008	-2.0	1800	20 30	4	1 50W 30
16993	S Transl.	05 31.7	+21 05	"	"	"	-4.0		20 50	3	2 31E
16994	Bin. 6475	01 00.7	+59 20	"	"	"	-2.5	21 05	21 31	2	2 43W 59
16995	H0 19485	03 02.8	+25 13	"	"	"	-3.5	21 39	23 31	1	2 51W
16996	Bin. 4344	06 09.0	+14 38	"	"	"	-3.5	23 47	00 15	4	0 18W 14

Dome Temp. *2*
Focus *15.2*
Dome Temp. *1.1*

Dome Temp. 21°F

Transparency Conditions

460

Focus 15.420

Dome Temp. +15°F

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
203	4	1 50W	30 05	0	8.8	G ₀	1-1-1	Allowing for haze & drifting, filmy, cirrus.	very date
205	3	3 31E		0	3.0	B ₃	15 sec. set 1; 20 sec. set 5; 40 sec. set 9. ^{plate destroyed.}	NOTHING	
212	2	2 43W	59 35	0	6.78	A ₀	1-1-1	No allowance for haze.	1 weak
217	1	2 56W		0-1	8.7	G ₀	1-1-1	Go.	1 weak
0015	-	0 18W	14 35	0	6.30	B ₉	1-1-1	Light cirrus toward the end then slowly falling in from N.W. waited 15 mins then gave up.	1 weak
								3 P.H. 2 local NAM	

Dome Temp... +22°F

Transparency Conditions good.....

148

Focus... 15.381

Dome Temp... +19°F

81
27*

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9 54	2	1 18 W	26 32	0	8.55	K ₂	1-1-1	AG. 25	good
11 36	3	1 36 W	27 23	0-1	8.58	G ₅	1-1-1	" "	fine
11 56	4	1 24 E	21 07	1	3.00	B _{3e}	3, 3, 3	Exposures 40s, 80s, 160s,	slump → v. at.
12 30	1	2 44 W	25 26	1	8.70	G ₅	1-1-1	Double lines AG. 25	fine
12 44	2	0 57 W	26 42	1-2	8.72	K ₀	1-1-1	AG. 25	fine
12 57	2	0 53 W	27 25	2+	8.14	K ₀	1-1-1	Do. Perhaps numbered 17001 as 17002. Proper 17002 is dark. (17002 is dark) (17002 is dark) (17002 is dark)	fine
1 03	-	0 45 W	27 38	2-3	7.72	K ₀	1-1-1	Do.	fine
1 03	1	1 00 W	29 40	2	8.08	K ₀	1-1-1	Do. Very light cirrus beginning glow over sky. Giving 10 min extra exposure. Considerable cirrus around. Decided to shut down & await development.	fine
1 04	2	0 54 W	24 36	2	8.15	K ₂	1-1-1	AG. 25 Clean diff. considerable slipping.	fine
1 11	3	1 12 W	27 36	1-2	8.64	G ₀	1-1-1		fine
							10/7	4 P.H. + 4	fine
								Sat, Dec 31/Jan 1 '50 (Remain)	fine
								Mon Jan 2/3 '50 709	fine
								FRI JAN 6/7 '50. Snow - W m	fine

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions 1950.....

150

JANUARY

Sat. Dec 7 Cleaning after 2115

Attempted to open up at 2145. Shutter would only open

Ending Time
E.S.T.

Hour Angle
End

Declination

Seeing

Ptg.
Mag.

Sp.

Comp.

REMARKS

Quality

foot

again

much difficulty getting them closed

RHB

151

Date Sun. Jan 8-9, 1950 Observer Hd - Julian Day 2433290

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End	D.
1700 ⁷ / ₈	S Tau HD	5 31.7	21 05	I-25	E Process	008	-9.0	22 04	22 22	1		2
								22 22	22 30			
								22 30	22 36			2.04 ^m

Dome Temp. 21.6
Focus 15.32
Dome Temp.

Dome Temp.....+16.F.

Focus.....15.323

Dome Temp.....

Transparency Conditions.....Poor - variable 152

cleaning after sunset. on opening found dome would not turn. waited for S Tan to come 2 slit.

Ending Time P.M. EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
22 22		21 07	1	3.00	B ₃₂	no filter 8-8	Set 1	Where is dome flashlight?																								
22 32						16	" 5																									
23 36	E 04 ^m					16	" 9	1 haze & clouds at end																								
							Jan. 9	<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td></td> <td>+40.6</td> <td>-1 46.0</td> <td>-03.0</td> <td>+0.5</td> <td>s</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-05.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>rest</td> </tr> </table>		MC	SC	MTW	STW	SW		+40.6	-1 46.0	-03.0	+0.5	s						-05.1						rest
	MC	SC	MTW	STW	SW																											
	+40.6	-1 46.0	-03.0	+0.5	s																											
					-05.1																											
					rest																											
							Tues. Jan 10/11 '50	Variable cloudiness, but WINDY (Gusts ~ 70 mph @ Malton). Wm.																								

153

Date Wed. Jan 11-12 Observer Bo - L Julian Day 2433293
50Dome Temp. 24
Focus. 15405
Dome Temp. 115

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End	D
17006 ⁸	8862	2 22.3	43 32	25"	103.0	1008	-2.8	1743	1752	1	0027 E	4
17007 ⁹	218170	23 00.7	28 29	"	"	"	-2.5	1759	1855	2	0259 W	3
17008 ¹⁰	A. 214765	22 ^{31.9} 31.9	27 16	"	"	"	-2.0	1902	2002	3	0435 W	3
17009 ¹¹	12052	01 53.2	28 23	"	"	"	-2.0	2008	2130	4	0240 W	3
17010 ²	19485	03 02.8	25 13	"	"	"	-2.0	2134	2234	1	0235 W	1
17011 ³	35676	05 17.0	28 51	"	"	"	-2.0	2238	2248	2	0035 W	1
17012 ⁴	35522	05 20.2	15 23	"	"	"	-2.0	2255	2311	3	0055 W	1
17013 ⁵	36859 36859	05 29.6	27 36	"	"	"	-2.0	2316	2413	4	0135 W	1
17014 ⁶	45207	06 ^{21.1} 21.1	29 42	"	"	"	-2.0	2353	00 52	1	135 W	1
17015 ⁷	70402	08 16.7	27 51	"	"	"	-2.0	01 19	02 59	2	146 W	2
17016 ⁸	86778	09 55.6	29 16	"	"	"	-2.0	03 04	03 54	3	104 W	2
	Trans. Test				0-7 B							

Dome Temp. 24.....

Focus. 15405.....

Dome Temp. +15°F.....

Transparency Conditions cloud.....

54

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1752	0027 E	43 48	-0	6.54	B9	1-1-1	Bury, thick, mostly but less in part <u>OK</u>	wt <u>good</u>
1855	0258 W	28 45	0	8.16	K5	1-1-1	AG 25 E. diurnal light unusually clear	l. wt
1906	0434 W	27 31	0	8.19	K0	1-1-1	" in a very light sky. Visible with eye to zenith	fine
1910	0240 W	28 38	0-1	8.35	G5	1-1-1	"	good
1919	0235 W	25 25	0-1	8.7	G0	1-1-1	Double star	good
1928	0034 W	28 55	0-1	6.37	B9	1-1-1	Vinary	fine
1931	0054 W	15 27	0	7.02	B8	1-1-1	"	l. wt
1940	0113 W	27 37	0-1	7.65	K5	1-1-1	"	l. wt
1950	135 W	29 41	0	8.21	G5	1-1-1	AG 25	fine
1953	146 W	27 42	0	8.65	G5	1-1-1	AG. 25	fine
1954	104 W	29 01	0	7.88	K2	1-1-1	" "	and weak

6/4

1 P.H. loaded + 20 H on M.

Th, Jan 12/13 '50. Cloudy @ sunset → overcast. Wm

Jan. 13	MC	SC	MTW	STW	SW
	+44.0	-1 ^m 50.9	+22.2	+0.0 ^m	-1 ^m 19 ^s
18	-15.4	+ 02.8	-21.2	0.0 ^m	
	Rise 0.5 added	Rise 1.0 mm.			

15A

(Holiday)

Date Fri. Jan. 27-28, 1950 Observer Hd - Gu Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End	D
17024	HD 218113	23 00.3	27 40	I-12	E103a0	008	-2.8	18 21	19 05	2	W 4 12	-2
17025	HD 218153	23 00.6	25 45	"	"	"	-2.6	19 11	19 47	3	W 4 33	-2
17026	HD 14608	02 16.5	29 53	"	"	"	-2.7	19 57	21 11	4	W 5 01	-2
17027	HD 45207	06 21.1	29 42	"	"	"	-2.5	22 16	22 54	7	W 0 40	-2
17028	HD 46759	06 26.7	29 28	"	"	"	-2.5	22 58	23 48	2	W 1 19	-2
17029	HD 46160	06 26.7	27 54	"	"	"	-2.5	23 54	00 40	3	2 20	-2
17030	HD 63138	07 42.3	29 01	"	"	"	-2.7	00 54	01 24	4	1 45	-2
17031	HD 71730	08 23.8	24 41	"	"	"	-2.7	01 24	01 54	1	1 38	-2
	FOCUS TEST		- O.T.B.									

Dome Temp. +2

Focus.....

Dome Temp.....

Dome Temp. 22

Focus 12.950

Dome Temp. 18^{OF}

Transparency Conditions

Clouds coming in early evening clearing after 2130. Some light haze. 11/12

Some difficulty opening & centering

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0213W	2627	0	8.90	K2	1-1-1	AG 25	fair
0227W	2505	0	7.22	K0	1-1-1	"	fair
154W	2504	0+	7.92	G0	1-1-1	"	best
	2534		7.87	G0	1-	exposed 14 min. - thick cloud falling in. trouble closing with shutter. 4 Ph's braded.	weak

Plate holder numbers not recorded

Dome Temp. 22

Transparency Conditions

Good

W66

Focus 12.950

Dome Temp. 21.0 F

Ending Time
LST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 04	53 03	1	7.0?		$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Set 1	
19 15					$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Set 5	strong
19 24	W 514				$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" 9	
19 34	W 4 40 + 26 28	1	8.89	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG prop Ha guiding	fine
19 42	W 4 21 + 29 34	1	8.86	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " " "	fine
19 54	W 1 33 + 28 59	1	8.89	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Ha changing * seems faint	strong
20 03	1 29 W 26 07	1	8.86	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Orange	fine
20 15	1 40 W 27 44	1	9.35	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "	too strong
20 23	1 19 W 27 28	1	8.65	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Wind rising image unsteady	strong
20 35	0 02 W 28 53	2	8.88	K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Clouds 3.29, stars gone at 3.35.	low
					4/3	Closed at 4.15	

4 PHs loaded + 4, H. on M.

167

Date Sat Feb 4/5 1940 Observer Ba Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Hour Angle End
17044	Nova Lac 1940	^{1950 corr} 22 48.0	53 02	E 12"	103a0	1.008	-2.0	1833 ²	1846	1	
	HD 664	^{1900 corr} 00 05.2	29 01	"	"	"	-2.0	1846	1854	8	0412W
17045	HD 664	00 05.8	29 01	"	"	"	-2.0	1900	1950 2000	2	0433 0433W
17046	8791	01 21.6	24 56	"	"	"	-2.0	2006	2106	3	0131
17047	17963	02 48.1	29 42	"	"	"	-2.0	2111	2211	4	0921
17048 A	41708	06 01.7	27 27	"	"	"		2215			
17048	41999	06 03.2	27 13	"	"	"	-2.0	2228	2328	1	0203W
17049	48638	06 37.3	27 47	"	"	"		2333	0001	2	
		Form [unclear]		OTB		3/2					

Dome Temp. 2
Focus 12.95
Dome Temp.

Dome Temp. 25

Transparency Conditions Good

168

Focus 12.945

Try focus 12.945

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
	15302	0	?	-	1-1-1	Set 5		
							3 exposures - one with no comp.	
	0448W	0	8.75		1-1-1	Set 8		
	0433 0423 W	29 17	0-1	8.75	GO	1-1-1	Set 5 A G	strong
	0423W	25 12	1	8.70	KO	1-1-1	" "	fine
	0402W	29 59	0-1	8.82	KO	1-1-1	" "	fine
			0	8.89	KO	1	" "	weak
	0203W	27 13	1-2	8.89	KO	1-1-1	Set 8	fine
		27 44	1-0	7.77	KO	1-1-1	Set 5	good
						Set 9	Hazy - looking Hazy! Out with e set to red	
							2 P +12	

169

Date Jan 7/2 50 Observer P. P. Julian Day 50

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17050	Norm. 17	1950 22 42.0	53 02	12'	10340	100P	-3.5	1843	1903	
								1904	1914	4
17051	AG 63	00 08.3	26 30	"	"	"	-3.5	1921	2021	3
17052	HD 12860	01 45.5	25 40	"	"	"	-3.5	2031	2131	1
17053	18189	02 50.2	25 41	"	"	"	-3.5	2125	2233	2
17054	42981	06 18.7	25 17	"	"	"	-3.9	2248	00 05	3
17055	67542	08 03.4	29 23	"	"	"	-4.0	00 25	00 37	4
17056	{ 71730	08 23.8	24 41	"	"	"	-4.0	00 48	01 08	1
	{ FOCUS TEST		O. T. B.							

Dome Temp. 1.8

Transparency Conditions Good

170

Focus 12.940 *try focus 12.940*

Dome Temp. 12

RA clamp sticking, had to be completely held
all night. Pot for crosshair illuminator
needs replacing

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1703		53 02	0-	-	-	1-1-1	set 3	fine
1704	0512W		0+			1-1-1	set 3	not much diff. in exposure
1705	0503W	26 47	0	871	K0	1-1-1	Set 5 AG 25	lunar
1706	0430W	25 55	0	851	K0	1-1-1	" " " "	" "
1707	0439W	25 53	0	882	G5	1-1-1	" " " "	" "
1708	0256W	25 17	0+	9.3	K2	1-1-1	" " " "	good
1709	0123W	29 14	0+	7.02	G0	1-1-1	" " " "	fine
1710	0135W	24 31	0-	7.74	K0	1-1-1	" " " "	fine
							Set 8	Heavy cumulus coming over from south, light snow. Shutters sticky. Heavy overcast. 3 PH's loaded. 4 plates in Eastman box.
								focus checked

Feb. 8

MC	SC	MTW	STW	SW
-04.6	+14.0	-04.6	+0.1	+22.5
		reset		reset

171

Date Thurs Feb 9/10, 1950 Observer Wm - G.V. Julian Day

Dome Temp
Focus 12.9
Dome Temp

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
17057	HD 18450	02 52.9	+26 22	I-12 $\frac{1}{2}$	F1030-0	SET 008	-0.1	19 16	20 46	2	2 ^h 51
17058	HD 43383	06 10.8	+25 31	"	"	"	-0.2	20 53	22 13	3	1 ^h 00
17059	HD 57470	07 16.3	+30 01	"	"	"	-0.3	22 17	23 27	4	1 ^h 00
17060	HD 71132	08 20.6	+28 23	"	"	"	-0.3	23 31	00 35	1	1 ^h 14
17061	HD 76752	08 53.0	+25 48	"	"	"	-0.3	00 40	00 56	2	1 ^h 00
17062	HD 76766	08 53.1	+26 19	"	"	"	-0.3	01 00	01 30	4	1 ^h 00
17063	HD 77948	09 00.4	+26 31	"	"	"	-0.2	01 24	02 00	3	1 ^h 00
17064	HD 81855	09 23.1	+26 39	"	"	"	-0.2	02 34	02 40	1	2 ^h 00
17065	HD 91545	10 29.2	+28 30	"	"	"	-0.2	02 46	03 00	2	1 ^h 30
17066	HD 95363	10 53.5	+27 40	"	"	"	-0.2	03 05	03 25	3	1 ^h 30
17067	HD 100041	10 25.6	+29 00	"	"	"	-0.2	03 40			
	FOCUS TEST				C.T.3.						

?

Dome Temp.....+28

Focus.....1.2:035

Dome Temp.....+29

Transparency Conditions *Considerable haze*

172

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 ^W 51	+26°37'	0	8.79	K0	1-1-1	AG 25	good
	1 ^W 00	+25°33'	0	8.77	G0	1-1-1	" Transp some better guiding	good
	1 ^W 09	+29 57	0+	8.89	K2	1-1-1	"	lots
	1 13W	+28 13	0+	8.92	K0	1-1-1	"	strong
	1 02W	+23 37	1+	7.79	G5	1-1-1	set 5	strong
	1 26W	+26 07	1-2	8.01	G0	1-1-1	" " plate destroyed - BLANK	
	1 59W	+26 19	1-2	8.63	K0	1-1-1	" " 2 exposures overlapped	
	2 16W	+26 25	2	8.71	K0	1-1-1	" "	fine
	1 30W	+28 14	1-2	7.66	K0	1-1-1	" "	strong
	1 39W	+27 24	1-	7.93	G0	1-1-1	" " clouds appearing in S	lots
		+28 43		8.05	M0	1-	" " Overexposed with in.	too weak
							Set 1) Shutter very bad in timing center to head	
							4 P.H.s loaded; 4 plates in back in box.	

173

Date Sat Feb 11-¹²~~13~~ 1950 Observer H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
17068	N. Lac.	22 48.0 ¹⁹⁵⁰	53 02	T-12	E103.0	008	+2.0	18 47	19 07	4	?
17069	HD222390	23 35.0	26 59	"	"	"	+1.9	19 22	19 42	1	W512
17070	AG 991	01 44.0	28 12	"	"	"	+1.8	19 48	21 00	2	W422
17071	HD43693	06 12.5	28 05	"	"	"	+1.5	21 08	21 24	3	W113
17072	HD44394	06 16.5	28 02	"	"	"	+1.8	22 23	23 33	4	W222
17073	HD 62857	07 40.9	26 16	"	"	"	+1.8	23 38	00 16	5	142W 2
	Focus Test				OTB						

①

Dome Temp. 32
 Focus 12.930
 Dome Temp. +27°F

Transparency Conditions Fair

174

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
14 07	1	?	53 03	0	7.07		$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Set 1 Telescope Touched N pierce board	good
19 02	1	W 5 12	27 15	0	7.43	K ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		good
20 02	2	W 4 22	28 28	0	8.88	G ₅	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		good
21 02	3	W 1 13	28 05	0	8.91	K ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		lots of stars
22 04	4	W 2 22	28 02	0	8.84	K ₂	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		fine
23 06	5	1 42 W	26 10	0	8.12	G ₅	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	light clouds toward end. filling in solid. Closed at 3:00 AM 2 P.H. holders loaded plates needed in dome H. on M.	fine
							24/3		

c. d. to red

①

175

Date Feb 12/13 1950 Observer P. A. Gu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17074	HD 19949	02 19.5	27 13.	5-12"	1030	007	0.0	1950	21 17	2
17075	44030	06 14.4	25 39	"	"	"	0.0	21 15	22 45	3
17076	58683	07 21.6	27 30	"	"	"	0.0	22 49	23 33	4
17077	71730	08 23.8	24 41	"	"	"	0.1	00 08	00 48	1
17078	74699	08 40.2	27 57	"	"	"	0.1	01 05	01 45	2
	FOCUS TEST			D.T.B.						

Dome Temp. 2
Focus 129
Dome Temp. 2

Error Angle
End

Dome Temp. 24
 Focus 12.930
 Dome Temp. 20

Transparency Conditions Fair 5 some haze 176
 Cloudy in early eve
 Clearing after 1830

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0900 W	27 27	0	8.72	KO	1-1-1	AG 25'	fine
0141 W	25 30	0+	8.82	KS	1-1-1	" Haze thickening. Image V	fine what's left
0121 W	27 25	0	8.4	KO	1-1-1	" Add 0.2 for haze	fine
0131 W	24 32	0	7.79	KO	1-1-1	plate "undone", fix on some stars	l wts
	27 47	0-	7.79	Ko	1-1-1	" increasing haze.	too weak
						HAZED OUT!	c to red
						1PH loaded. Some plates in Eastern box	
						MC SC MTW STW SW Feb. 13 -02.3 +17.8 +25.7 +0.7 +134	

177

Date Fri Feb 17-18/50 Observer L Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.

Dome Temp. +21
Focus.....
Dome Temp.....

Hour Angle
End

179

Date Sun Feb 19-20, 1957 Observer Aaron Hd - L Julian Day _____

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17079	HD 45336	06 21.7	29 19	12	E103a0	008	-7.0	20 41	21 55	3
17080	HD 56629	07 12.7	29 21	"	"	"	-7.2	22 06	23 06	4
17081	HD 69349	08 11.5	27 43	"	"	"	-7.4	23 10	00 34	1
17082	{ " 93391	10 41.9	27 26	"	"	"	-7.6	00 41	02 11	2
	{ Focus Serv				O.T.B					

Dome Temp. +8 F

Focus 12.93.0

Dome Temp. -10 F

Transparency Conditions *Good*

180

Clearing after sunset. Trouble opening shutters. Chipped ice off lower rail.

Ending Time L.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 55	3	W 1 10	29 18	0!	8.84	K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	<i>Either seeing is would be worst or</i>	<i>weak</i>
23 06	4	W 1 31	29 18	0	8.37	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	<i>Case. focusing is not working.</i>	<i>1 wk</i>
00 34	1	2 00W	27 34	0	8.49	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	<i>Violent wind</i>	<i>1 wk</i>
02 11	2	1 08W	27 10	0	8.37	K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	<i>" "</i>	<i>1 wk</i>
							413	<i>centre of the Red</i>	

181

Date June 23 1950 Observer Bo Julian Day 171

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17083	M 15321	02 22.9	29 19	12"	102.0	100B	-5	1838	1913	3
17034	18929	02 27.6	27 11	"	"	"	-60	1924	2014	4
17084F	45351	05 21.7	27 19	"	"	"	"	2010	2028	
				Form T ₀	OTB					

Dome Temp. 2

Focus 12.9

Dome Temp. 17

Hour Angle
End

0244W

0310W

183.

Date Thurs Feb 24/25, 1950 Observer Wm. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17 085 ⁵	HD 12535	01 57.8	+27 00	I-12½	E103a-D	SET 008		19 09		2

Dome Temp. 14

Focus 12.93

Dome Temp.

Hour Angle
End

Dome Temp. $\pm 14^{\circ}$ F.

Focus..... 12:03:30.....

Dome Temp.....

Transparency Conditions Occasional thin clouds 104
More & more clouds. I estimate 10^m
exp on the plate below. Wind rising
& veering to SE - Snow flurries

Ending Time
E.S.T.

P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			7.93	KO 1-		AG 25	
						2 PH + 11	
						Hou M	
						HAD TROUBLE CLOSING	
						DOME; GOT IT WITHIN ABT	
						2 IN. OF CLOSED BY	
						CLEANING RAILS	
						Snow showers starting 00-55,	
						Wind stronger & shifting due	
						North - colder. Quit 03:00.	

Dome Temp. +13F

Transparency Conditions Good at first.

186

Focus 12.730

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 16 3	54 47 28.03	0	8.38	G5	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Clouds near end.	
22 7	W 2 00 28 56	0	8.61	Ko	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	Some clouds - in fact good deal! More cloudy than clear. Clouded 2245. Some not tightly closed.	
Monday 03.30 AM.							
It seems clear yet there is a light snow falling at times, haze is pretty bad, have decided against observing.							
04:00 wind setting in No more haze.							

187

Date Mon Feb. 27-28/50 Observer L Julian Day

Dome Temp. +
Focus 12.9
Dome Temp. +1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
17088	H.D. 14875	02 18.9	28 46	I-12 $\frac{1}{2}$	E-103 20 ^{set}	.008	-9.0	19 32	20 16	1
17089	" 46532	06 28.9	25 00	"	"	"	-9.0	21 01	22 31	2
	Focus Test				O. T. B.					

Hour Angle
End
4 06 W 29
2 11 W 24

Dome Temp. +15°F

Transparency Conditions Good

188

Focus 12.930

Dome Temp. +10°F

Start delayed as 1 of 3 phases out!

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 16	1	4 06 W	29 02	0	8.21	K ₀	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	A.G. 25 clouds to-ward end of ^{comp strong} eff.	H. Strong
22 31	2	2 11 W	24 58	0	8.61	K ₂	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " clearing again, more clouds ^{comp strong}	H. Strong
							$\frac{1}{3}$	Closed at 23.00 ^{center slightly to red} sky ^{featureless}	
								2 P.H. loaded	
								Hon M.	

189

1-2

Date Wed 1 Mar 50 Observer Ba Julian Day

Dome Temp. ...
Focus 12.93
Dome Temp. ...

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17090	HD 14146	02 12.2	28 34	12"	103a D	0.08	-5.8	1842	1917 ^{cut}	3

Hour Angle
End

- 2

Dome Temp. 16

Focus 12.930

Dome Temp.

Transparency Conditions

Some haze & scattered clouds. 190

Ending Time
E.S.T.

1917

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	28 48	0	820	M0	1-1-1	AG 25. Clouds from west. Exp. terminated by cloud. Variable clouds & occasional snow flurries. Closed down 2030 3:00 A.M. - Frequent cloud from West, wind high. Eye.	fine

Dome Temp.....+2°F.....

Focus.....12.9.30.....

Dome Temp.....

Transparency Conditions *Some haze*.....

192

Some Clouds near starting time.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			8.77	K2	1-	AG85	
						clouds ~ 2025	
						Snow ~ 2045	
						DOME STUCK ~ 12 in open	
						1 Strap broke off	
						secondary cover	
						Worst *image I've	
						ever seen	
						It on M	
						1 pit + ~16	

193

Date Fri Mar 3-4, 1950 Observer Hd - Ba - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17091	HD10829	01 41.0	+30 19	I-12	E10340	008	-11.0	19 33	20 13	1	254 86
17092	HD 45427	06 22.2	27 42	"	"	"	-11.1	20 27	20 37	2	5139
17093	HD 56 ⁴¹⁸ 224	07 11. ⁸	26 3 ¹	"	"	"	-11.2	21 43	22 33	3	4145
17094	HD 76866	08 53.8	25 00	"	"	"	-11.2	22 ⁴⁶ 34	00 46	4	0217W
17095	88532	10 07.5	28 47	"	"	"	-11.2	00 50	02 00	1	218W
17096	108805	12 25.0	26 41	"	"	"	-11.3	02 05	02 55	2	056W
17097	115256	13 10.9	29 17	"	"	"	-11.2	02 59	04 03	3	119W
17098	132304	14 53.3	25 05	"	"	"	-11.3	04 08	04 48	4	022W
17099	143271	15 54.4	27 09	"	"	"	-11.2	04 52	06 00	1	033W
	{ Horus Test				O.T.B.						

Dome Temp. 7.3
Focus 12.9
Dome Temp. 0

Dome Temp. +3 F

Focus 12.930

Dome Temp. 0° F

Transparency Conditions

? some haze. 194

Reading Time R.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 13	1	W4 56	30 35	0	8.30	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	About 20 visitors Walkerton C.T. C/o Daeth	Wk
01 37	2	W1 39	27 42	0	8.77	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		fine
02 33	2	W1 41	26 27	0	8.51	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Checked from finder field drawing.	fine
00 46	7	0217W	24 49	0-1	8.74	K0	$\frac{1}{2} - \frac{1}{2} - 1$	Set 9; wrong * at first, Right * looks faint.	lt strong
02 00	1	2 18W	28 32	0-1	8.92	K0	$1 - \frac{1}{2} - \frac{1}{2}$		comp strong too strong
02 55	2	0 56W	26 24	1	8.79	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		comp strong
04 03	3	1 19W	29 00	1-0	8.77	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		strong
04 49	4	0 22W	24 52	0-1	8.44	K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		lt. strong
04 50	1	0 33W	27 00	1	8.98	K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		lt strong
							4/3	2 PH0 loaded + 8 focus OK	
								At on Am.	

197

Date Mon 7/8 50 Observer Ba Julian Day

Dome Temp 28
Focus 12.32
Dome Temp

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17101 ^{17100 F}	ND 44615	06 17.6	2901	L2*	103a0	.008	2.0	2006	2034	

Hour Angle
End

Dome Temp. 28

Focus 12.930

Dome Temp.

Transparency Conditions Good, late start because of late return from city. 198

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2900	<0	3.89	GD	1-2	Set 5 AG25 Clouding up 2030!?! Stop on 2034	too wk.
	Focus at OTB				4/4	set 9. focus OK Cloud continuing to come in closed down 2100	
						4 PA + 4	

199

Date Fr 11/12 Mar 50 Observer Bu Julian Day

Dome Temp.
Focus 12.2
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17101	HD 4415	06 17.6	29 01	I-12"	103.0	.008	-4.0	1856	2026	1
17102	45800	06 29.5	25 57	"	"	"	-4.0	2031	2201	2
17103	53472	07 00.1	25 01	"	"	"	"	2205	2225	3

Hour Angle
End

Dome Temp. 22
 Focus 12.930
 Dome Temp.

Transparency Conditions Good

20

Wound ~~to~~ set watch

MT OK
 ST 1/2 min slow

Ending Time
 R.T.

2026
 2201
 2225

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0100W	29 00	0	889	GO	1-1-1	AG 25. marked scintillation.	fine
	25 56	0-1	891	KO	1-1-1	" Thickening haze	fine
		1	829	KZ	1-1	" Est set 0:4	lt-wk
						Abandoned, let new haze	
						focus OK	
<p>Monday - Tuesday 13th - 14th It's a beautiful night, but the shutters just won't open. We have agreed to let the night go - it's <u>too</u> bad! Gu. 00:25</p>							

201

Date Wed Mar 14/46 - Observer W. - G. - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17104	M 45427	06 22.2	27 42	13"	22341	100μ	-1.1	1904	2008	4
17105	46944	06 31.0	28 03	"	"	"	-1.3	2011	2201	1
17106	65724	08 08.6	27 01	"	"	"	-1.6	2206	2332	2
17107	83341	09 32.6	25 48	"	"	"	-2.0	2336	01 00	3
17108	88476	10 07.1	26 44	"	"	"	-2.1	01 06	01 30	4
17109	90861	10 24.3	29 05	"	"	"	-2.1	01 33	01 57	1
17110	91198	10 26.3	24 36	"	"	"	-2.0	02 03	02 45	2
17111	105771	12 05.4	29 37	"	"	"	-2.0	02 50	03 30	3
17112	113771	13 00.9	27 07	"	"	"	-2.0	03 36	04 06	4
17113	118905	13 34.8	27 12	"	"	"	-2.0	04 12	04 30	1
17114	122796	13 58.9	27 58	"	"	"	-2.0	04 36	04 56	2
17115	131972	14 51.6	24 48	"	"	"	-2.0	05 01	05 31	3
1116	{ 134246	15 03.7	28 53	"	"	"	-2.0	05 34	05 50	4
	{ FOCUS TEST - O.T.B.									

Dome Temp
Focus
Dome Temp

Hour Angle
End

P.
Y

Dome Temp. 24

Focus 12.930

Dome Temp. 13.0 F

Transparency Conditions Good A fair ²⁰² ~~at~~ clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
098W	27 41	0-1	8.77	K2	1-1-1	AG 2K	
242W	28 01	0-1	8.90	G5	1-1-1	" Broken clouds coming in 2030-2050	
236W	26 53	0-1	8.76	G5	1-1-1	" slight haze	
241W	25 36	1-0	8.71	G5	1-1-1	"	
236W	28 29	0+	7.55	G5	1-1-1	"	
246W	28 51	0+	7.54	K0	1-1-1	"	
332W	24 20	0+	8.14	G5	1-1-1	"	
238W	29 21	0-1	8.07	K0	1-1-1	" (5th)	
219W	26 51	0-1	7.93	K0	1-1-1	" Seeing is very poor.	
209W	26 56	0-1+	7.30	K0	1-1-1	"	-
211W	27 44	1	7.69	G5	1-1-1	" Seeing pretty good.	-
153W	24 35	1-3	8.16	K0	1-1-1	"	
201W	28 42	1+	7.73	G5	1-1	" Abandon because of sky light.	-

3 PII's loaded new box

P.S. Have just discovered, as about to of planet needed. c.s. to see.
~~Time of P.T., the blinger 1/2 way out.~~ May 17 MC SC HTW STW SW
 +136 -126 +22.2 0.2 -07.6

203

Date Saturday, Mar. 18/19, 1950 Observer Wm - Gu Julian Day 3359

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17 117	HD 52 101	06 54.8	+29 54	T-12 1/2	E103a-0	SET 008	-5.7	19 37	20 41	1	1 ^W 10 +
17 118	HD 65 934	07 56.1	+26 55	"	"	"	-5.8	20 50	22 00	2	1 ^W 23 +
17 119	HD 83 617	09 34.7	+25 29	"	"	"	-5.8	22 05	23 19	3	1 ^W 09 +
17 120	HD 91 366	10 27.8	+25 38	"	"	"	-5.9	23 31	00 31	4	1 ^W 34 +
17 121	10 4580	11 57.6	25 00	"	"	"	-6.0	00 45	01 50	1	1 ^W 19 +
17 122	11 0883	12 40.2	27 57	"	"	"	-6.0	01 55	02 55	2	1 ^W 06 +
17 123	11 5339	13 11.5	28 17	"	"	"	-6.1	03 10	04 10	3	2 ^W 25 +
17 124	12 5728	14 16.2	26 31	"	"	"	-6.1	04 15	04 37	4	1 ^W 09 +
17 125	{ 14 2204	15 48.2	28 54	"	"	"	-6.1	04 43	05 21	1	0 ^W 51 +
	{ FOCUS TEST	" 0.	T.B.								

Dome Temp. ...

Focus ...

Dome Temp. ...

Hour Angle
End

Dome Temp. +15

Focus 12.030

Dome Temp. 7°F

Transparency Conditions FINE

Seeing poor.

254

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																	
1:00	1°10'	+29 49	0	8.63	G5	1-1-1	AS25	l weak																	
1:00	1°28'	+26 47	0	8.70	K0	1-1-1	"	l weak																	
1:00	1°09'	+25 17	0	8.86	G0	1-1-1	"	l weak																	
1:31	1 34W	+25 23	0	8.90	K0	1-1-1	" 03.30 very bright corona	good																	
1:50	1 19W	+24 44	0	8.73	K0	1-1-1	" extending from zenith to N.	fine																	
2:00	1 40W	+27 40	0+	8.47	K0	1-1-1	" horizon, wave like & curtain.	sc																	
2:00	2 25W	+28 00	0+1	8.49	K0	1-1-1	" Dec. fringe up 100 yds	lnt																	
2:54	1 46W	+26 13	0-1	7.21	K0	1-1-1	" several minutes - unexplained	fine																	
3:00	0 59W	+28 45	0-14	8.92	K2	1-1-1	working a K. now	fine																	
							05.00 - Aurora reached a climax with a splendid corona and a magnificent display of colours. The most beautiful 4' arc ever seen!!	sc																	
Tues, Nov. 21/22, 1950.																									
Solid overcast. - Wm																									
Clouds from W at dawn.																									
2 PH's loaded, 4 in E.																									
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Mar. 20</td> <td>+15.2</td> <td>+24.7</td> <td>-22.8</td> <td>-0.3</td> <td>+17.5</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2">adv. 1 min</td> <td></td> </tr> </table>								MC	SC	MTW	STW	SW	Mar. 20	+15.2	+24.7	-22.8	-0.3	+17.5				adv. 1 min			
	MC	SC	MTW	STW	SW																				
Mar. 20	+15.2	+24.7	-22.8	-0.3	+17.5																				
			adv. 1 min																						

205

Date Sat Mar 25-26, 1950 Observer Hd - Pa - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17126	MW 164 HD 52721	6 57.2	-11 09	I-12	E103a0	008	+4.0 +6.0	19 19	19 31	1	40 25
17127	MW 174 HD 57386	7 15.9	-8 15	"	"	"	+4.2	19 35	20 13	2	40 48
17128	MW 189 HD 65176	7 52.4	-1 20	"	"	"	+4.0	20 16	20 54	3	40 53
17129	HD 72907	8 30.3	+29 03	"	"	"	+4.1	20 58	21 58	4	41 19
17130	HD 83632	9 34.8	26 28	"	"	"	+4.0	22 02	23 24	1	41 40
17131	HD 98155	11 12.4	25 37	"	"	"	+4.0	23 28	00 40	2	1 19 W
17132	" 115613	13 13.2	27 58	"	"	"	+4.0	00 52	01 30	3	0 09 W
	Focus East				O.T.B.						

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp.....

Transparency Conditions

Fair

206

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 31	W 0 25	-11 12	0	6.6	Bse	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	B, set 1	
20 13	W 0 48	-8 17	0	8.1	Bsne	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Be	
20 54	W 0 53	-1 25	0	8.1	B(s)ne	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Be	
21 58	W 1 19	+28 54	0	8.63	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG	
23 24	W 1 40	26 15	0	8.72	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" * seemed faint - some haze ^{comple}	good
01 40	1 19 W	25 20	0	8.56	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" haze continuing, 5 thicker	good
03 30	0 09 W	27 43	0	8.64	G5	$\frac{1}{2} - \frac{1}{2}$	" star gone at 1.30	fine
						4/3	3 PHs loaded + 8 focus OK	good
							H on M.	
							MC SC MTW STW SW Mar. 29 +18.3 +28.0 -00.7 +0.2 -06	

Dome Temp. 26

Focus 12.930

Dome Temp. 20°F

Transparency Conditions Good, Cloud clearing after sunset. 203

High Wind.
High wind blowing all night.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2057	0113W	306	0+	7.7	B _{3ne}	1-1-1	set 5 RB1 Prog.	fine
2136	0225W	28 54	0-	8.95	G0	1-1-1	" 5 AG.	good
2350	2 37W	26 35	1	8.96	G5	1-1-1	" 3	fine
2053	2 36W	28 46	1-2	8.70	K2	1-1-1	" AG.	fine
0110	1 21W	25 01	1-2+	7.94	G5	1-1-1	" "	poor guiding
0133	1 03W	27 42	1-2	8.64	G5	1-1-1	" "	fine
0202	0 97W	24 56	1-2	7.95	G0	1-1-1	" "	fine
0323	1 15W	24 47	1-2	7.92	G0	1-1-1	" "	fine
0350	1 20W	24 49	1-2	8.78	K0	1-1-1	" "	fine
0420	1 46W	25 31	1+	7.93	G5	1-1-1	" "	lots
0520	1 35W	26 40	1±2	8.96	K0	1-1-1	" "	fine

focused to red

4 Ph's loaded. 8 plates in a box.

Date Thurs Mar 30-31/50 Observer Hd Julian Day 3371

Dome Temp.

Focus

Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17144	MW164 HD 52721	6 57.2	-11 09	i-12	E103a0	008	-0.1	19 23	19 39	1
17145	X <u>MW188</u> X HD 65176	7 52.4	-1 20	"	"	"	-0.1	19 47	20 43	2

Hour Angle
End

D

W 50 53 -
51 01 -

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions *Very hazy*
*only opened to get bright **



210

*There was a young fellow named Heard
who in looking his * seldom cried*

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.
19 39	W 0 53	-11 14	1	6.6	Bse	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$
20 43	W 1 01	-1 29	1	8.1	Bse	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$

REMARKS

Quality

*Just on one hazy night
He seldom was right* fine

*That was doubt can be safely inferred.
She says she saw the [unclear] [unclear]
Were not in [unclear] [unclear]*

1950.-Friday, March 31/Apr 1 Haze, thickening
Wm.

Sat. April 1/2. Cloudy or O'cast
Showed 74" to [unclear]
Wm.

Tues April 4/5. Over cast Wm

24

Date Thurs Apr 6/7 1900 Observer Ba, Qu Julian Day 3378

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17146	MW 189	7 52.4	-1 20	12"	R 103aD	.002	-0.8	1934	20 04	3
17147	" 188	7 51.9	3 14	"	"	"	-0.8	20 08	20 26	4
17148	" 139	6 17.7	15 9	"	"	"	-0.8	20 32	20 58	1
17149	HD 70688	8 18.2	29 04	"	"	"	-0.8	21 06	22 24	3
17150	HD 88476	10 07.1	28 44	"	"	"	-1.0	22 34	22 54	4
17151	" 90009	10 18.2	26 04	"	"	"	-1.1	22 57	23 15	1
17152	" 90861	10 29.3	29 05	"	"	"	-1.0	23 19	23 41	2
17153	" 91545	10 29.2	28 30	"	"	"	-1.0	23 45	00 09	3
17154	" 102192	11 40.3	27 46	"	"	"	-1.0	00 12	00 36	4
17155	" 106184	12 08.6	29 11	"	"	"	-1.0	00 40	01 44	1
17156	" 119093	13 03.2	25 21	"	"	"	-1.0	01 48	02 00	2
17157	" 118905	13 34.8	27 12	"	"	"	-1.0	02 04	02 20	3
17158	" 123612	14 03.6	24 47	"	"	"	-1.1	02 24	02 42	4
17159	" 143271	15 54.4	27 09	"	"	"	-1.1	02 46	04 10	1
17160	{ " 150779	16 38.2	25 33	"	"	"	-1.1	04 24	05 08	2
	FOCUS TEST			O.T.B.						

Dome Temp 29
Focus 29
Dome Temp 29

Hour Angle
End

Dome Temp. 28

Focus 12.930

Dome Temp. 21.95

Transparency Conditions Good

212

Focus needs adjusting.

Ending Time
R.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2004	050W	-1 28	0	8.1	B _{ne}	1-1-1	Be Prog.	lute
2014	115W	3 06	0+	7.7	B _{ne}	1-1-1	" (shutter not fully closed)	fine
203	317W	15 8	0-1	7.7	B _{3e}	1-1-1	"	fine
222-3	295W	29 55	1	8.5	G ₀	1-1-1	AG badly scraped	good
204	126W	28 28	1-2	7.55	G ₅	1-1-1	"	fine
205-1	136W	25 48	1-2	7.63	K ₀	1-1-1	"	lute
204-2	156W	28 49	1-2	7.54	K ₀	1-1-1	" all kinds of seeing!	7.1
203-3	219W	28 13	0-2	7.66	K ₀	1-1-1	"	strong
206-4	135W	27 29	1-2	7.72	G ₅	1-1-1	"	strong
207-5	221W	28 53	1-2	8.88	K ₅	1-1-1	"	lute
208-6	137W	25 05	1-2	7.12	K ₀	1-1-1	" poorly guided	strong
209-7	126W	26 56	1-2	7.30	K ₀	1-1-1	"	fine
210-8	118W	24 37	1-2	7.56	K ₂	1-1-1	" poorly guided	strong
211-9	057W	27 00	1-2-3	8.98	K ₂	1-1-1	" 3 P.N. banded	fine
212-0	111W	25 32	1-2	8.49	G ₀	1-1-1	" 4 lens in box	good

c sl to red

113

Date 5th Apr 1919 Observer Ba-L Julian Day 3380

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17161	WD 833A1	09 32.6	25 48	12"	F153AD	1008	-2.8	21 26	23 00	
17162	98155	11. 12.4	25 37	"	"	"	-2.8	23 06	00 06	
17163	" 114172	13 03.8	29 55	"	"	"	-2.8	00 20	01 30	1
17164	" 126598	14 21.4	26 43	"	"	"	-2.8	01 35	02 35	2
17165	" 142243	15 48.4	29 13	"	"	"	-2.8	02 40	03 48	3
17166	AG. 7774	16 38.0	25 37	"	"	"	-2.8	03 53	05 13	1
	Focus Test			O. T. B.						

Dome Temp. 2
Focus 12.5
Dome Temp. +2

Hour Angle
End
215
141 W
114 W 2
101 W 2
0.48 W 2
124 W 2

Dome Temp. 24
 Focus 12.930
 Dome Temp. +20°F

Transparency Conditions Fair: Moist
 High Wind 214

Atmos 20 ves to
 " " " " " " " " " " " "

Ending Time E.S.T. P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2300	215W	25 35	<0	8.95	G1	1-1-1	KG-25. Ed. ver J. 2	lowest
0050	141W	25 21	0	8.56	K0	1-1- $\frac{1}{2}$	"	good
0130	114W	29 38	0	8.77	G0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	good
0235	101W	26 29	0	8.51	K5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	good
0348	048W	29 02	0	8.76	K2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"	good
0513	124W	25 30	0	8.93	G0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" (earlier hauls)	good
						4/3	1 P.H. loaded +12, H on M	
							no centre exposure	

215

Date Sun Apr 9-10, 1950 Observer Hd-Cau Julian Day 3381

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17167	MW 139 HD 44637	6 17.7	15 09	I-12	E10320	008	+1.1	20 02	20 24	4
17168	HD 78194	9 01.8	28 23	"	"	"	+1.1	20 30	21 32	1
17169	HD 88416	10 06.6	27 36	"	"	"	+1.0	21 37	22 47	2
17170	HD 99594	11 22.4	26 59	"	"	"	+1.0	22 50	00 00	3
17171	" 108675	12 24.0	29 26	"	"	"	+1.0	00 04	00 54	4
17172	" 120421	13 44.2	28 22	"	"	"	+1.0	01 00	01 20	1
17173	" 126009	14 17.9	29 51	"	"	"	+0.9	01 24	01 52	2
17174	" 126307	14 19.6	27 53	"	"	"	+0.9	01 55	02 15	3
17175	" 127093	14 24.3	26 18	"	"	"	+0.9	02 18	02 40	4
17176	" 133460	14 59.5	26 25	"	"	"	+0.9	02 44	03 04	1
17177	" 134246	15 03.7	28 53	"	"	"	+0.9	03 06	03 26	2
17178	{ 142053	15 47.3	25 37	"	"	"	+0.9	03 30	04 04	3
	FOCUS TEST - O.T. B.									

Dome Temp. +30

Transparency Conditions

Good

246

Focus 12.930

Dome Temp. +26.0°F

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 24	W 257	15 09	1	7.7	B3e	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Be Prng. (see funder field sketch)	good
21 32		28 11	1	8.91	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		strong
22 52	W 131	27 20	1	8.96	K ₀	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		good
00 00	129W	26 43	1	8.95	K ₂	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		good
01 24	124W	29 08	1	8.68	G ₀	1-1-1	AG Pr.	comp. weak good
02 28	028W	28 06	1	7.63	G ₅	1-1-1	" "	comp. weak good
03 26	026W	29 35	1-2	7.94	M ₃	1-1-1	" "	comp. weak strong
04 53	048W	27 38	2-3	7.83	K ₅	1-1-1	" "	comp. weak strong
05 08	108W	26 04	1-2	7.79	M ₀	1-1-1	" " (late M.)	comp. weak strong
06 58	158W	26 13	1-2	7.72	G ₀	1-1-1	" "	comp. weak too strong
07 26	115W	28 41	2	7.73	G ₅	1-1-1	" "	comp. very weak too strong
08 09	109W	25 27	2	8.35	K ₀	1-1-1	" " Clouds at 03:40	comp. ^{very} weak very str.
							3 PH's broad d. cloud	
							B plates in loop. comp. very weak	
							MC SC MTW STW	
							Apr. 10 +27.2 +36.4 -29.2 -0.4	
							(adv. 1 min.)	

217

Date Thurs April 13-14, 1950 Observer Hd - G.V. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17179	MW 139 HD 44637	6 17.7	+15 09	I-12	E103a0	008	-2.6	19 44	20 16	4
17180	HD 77729	8 59.2	26 34	"	"	"	-2.6	20 23	21 23	1
17181	HD 77948	9 00.4	26 31	"	"	"	-2.7	21 26	22 30	2
17182	HD 99947	11 24.9	25 52 ²⁷	"	"	"	-2.7	22 35	23 47	3
17183	HD 107468	12 16.1	26 17	"	"	"	-2.9	23 44	00 48	4
17184	" 121183	13 48.0	27 35	"	"	"	-2.9	00 57	02 17	1
17185	" 134287	15 03.9	27 05	"	"	"	-2.9	02 24	03 28	2
17186	{ 793688	15 56.8	24 44	"	"	"	-2.0	03 32	05 00	3
	{ FOCUS TEST		-O.T. B.							

Dome Temp. +
Focus ... 12.12
Dome Temp. +2

Hour Angle
End
17304
17130
17280
17120
17380
17350
17320
17130

Dome Temp. +24
 Focus 12.930
 Dome Temp. +20°F

Transparency Conditions *good*

218

00:20 High wind.
 increasing cloud just.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:04	W 3 04	15 08	0	7.7	B3e	1-1-1	B3e Prog	ok
01:30	W 1 30	26 23	0	8.58	K2	1-1-1	K2	ok
02:36	W 2 36	26 21	0	8.63	K2	1-1-1	"	ok
03:22	W 1 22	25 10	0	8.72	K0	1-1-1	"	ok
04:38	W 1 38	25 59	0.7	8.72	K0	1-1-1	"	ok
05:35	W 1 35	27 19	0-1.2	8.82	K0	1-1-1	"	ok
06:32	W 1 32	26 52	0	8.63	K0	1-1-1	"	ok
07:13	W 2 13	29 35	0-1	8.91	K0	1-1-1	"	ok

3 PH's loaded, 1 full box
 white in room.

star spectrum burnt out with ink comp.
 and a star spectrum over focus test.

291

Date Sat Apr 15-16, 1950 Observer Hd - Gen Julian Day 3387

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17188	HD 96393	11 01.6	26 17	I-12	E10320	008	+3.0	22 10	23 28	2	1191
17189	HD 107463	12 16.1	26 07	"	"	"	+3.0	23 31	00 24	1	1123
17190	HD 119748	13 40.0	29 29	"	"	"	+2.0	00 28	01 28	2	1032
17191	HD 122052	13 54.3	25 12	"	"	"	+1.8	01 31	01 57	3	1186
17192	" 126991	14 23.8	29 59	"	"	"	+1.5	02 00	02 30	4	1216
17193	" 132256	14 53.0	25 43	"	"	"	+1.2	02 33	02 55	1	1174
17194	" 142418	15 49.4	29 46	"	"	"	+1.0	03 01	04 01	2	1280
17195	" 152306	16 47.5	28 17	"	"	"	+0.5	04 04	04 24	3	0552
17196	{ 159510	17 00.8	28 14	"	"	"	+0.4	04 29	04 47	4	1042
	FOCUS TEST - O.T. B.										

Dome Temp. 5

Focus 11.2

Dome Temp. 2

Dome Temp. 32

Focus 12-930

Dome Temp. 28°F

Transparency Conditions

Good.

222

About 40 visitors. Hd. Cen showed by 71 with 74" Pleiades. Main tube with 4."

Ending Time L.S.T.	P.B.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 28	2	W 1 41	26 00	0	8.79	G ₅	1-1-1	AG 25	good
0 24	1	W 1 23	26 00	1	8.78	K ₀	1-1-1	" "	1. strap
0 13	2	L 03W	29 14	1	8.81	G ₅	1-1-1	" "	1. strap
0 17	3	L 18W	24 56	1+	7.95	G ₅	1-1-1	" "	1. strap
0 20	4	L 21W	24 45	1+	8.06	K ₀	1-1-1	" "	good
0 25	1	L 17W	25 20	1-2	7.93	G ₅	1-1-1	" "	very strap
0 4 12		L 28W	29 36	0-1	8.82	K ₀	1-1-1	" "	1. strap
0 4 23		O 52W	28 11	1-2	7.72	G ₅	1-1-1	" "	1. strap
0 4 44		L 01W	28 09	1-2	7.56	K ₀	1-1-1	" "	1. strap

centre focus altered
4 PH's loaded, full load
in room.

223

Date See Apr 16/17 50Observer BaJulian Day 3388

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17197	MW 188 HP 65079.	7 51.9	3 14	12"	E10320	.008	9.4	1953	2003	4
17198	68724	8 08.6	27 01	"	"	"	9.4	2012	2056	1
17199	78967.	9 06 0	29 17	"	"	"	9.3	2100	2130	2
			Focus <u>ext</u>		OTB		9/3.			

Dome Temp. 4Focus 2Dome Temp. Hour Angle
End

0125W

0305W

0141W

Dome Temp. 4.6

Focus 12.930

Dome Temp.

Transparency Conditions Good. Some slight haze 2214

Ending Time
EST. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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202 4

0128 W	3 6	2-3	7.7	Bene	1-1-1	Be P. ray.	Good
--------	-----	-----	-----	------	-------	------------	------

256 1

0205 W	26 53	2	8.96	GS	1-1-1	AG-25. Occasional light cloud	
--------	-------	---	------	----	-------	-------------------------------	--

2130 2

0141 W	29 05	2	8.96	KD	1-1-1	" Haze thickening. Haze out at 2130	Weak
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3 PM. +10 focus OK

	MC	SC	NTW	STW
Apr. 17	+30.4	+39.6	+01.0	+0.1

235

Date Mon April 17-18, 50 Observer L. E. E. Julian Day 2 433 389

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End	
17200	H.D. 80327	09 14.0	24 51	I-12 $\frac{1}{2}$	E-103 $\frac{1}{2}$	set 0.008	+13.0	20 00	20 32	3	0 40W	2
17201	" 88533	10 07.5	27 55	"	"	"	+13.0	20 39	21 39	1	0 54W	2
17202	" 10185C	11 38.3	28 07	"	"	"	+13.0	21 44	22 40	4	0 24W	2
17203	" 107132	12 14.0	25 24	"	"	"	+12.9	22 44	23 48	3	1 07W	2
17204	" 111541	12 44.9	26 58	"	"	"	+12.9	00 01	00 29	4	1 07W	2
17205	" 116029	13 15.9	25 10	"	"	"	+12.9	00 34	01 18	1	1 25W	2
17206	" 122796	13 58.9	27 58	"	"	"	+12.9	01 21	01 45	2	1 07W	2
17207	{ 147665	16 18.1	24 59	"	"	"	+12.9	03 23	04 35	3	1 44W	2
	FOCUS TEST -		O.T.P.									

Dome Temp. +
Focus 12.93
Dome Temp.

Dome Temp. + 52
 Focus 12.930
 Dome Temp.

Transparency Conditions haze

226

Bank of clouds in south Orion hidden

Ending Time
 E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 52	3 O 40W	24 38	1	8.00	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25	very str.
21 59	1 O 54W	27 40	1	8.70	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
22 40	4 O 24W	27 51	1.0	8.72	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Sky clearer.	good
23 19	3 1 07W	25 08	1.0	8.89	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " (marked 023)	good
23 29	4 L 07W	26 41	1.0	7.81	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	ok
23 43	1 E 25W	24 54	1.0	8.35	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
23 52	2 C 09W	27 44	1	7.69	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Hazy cloud.	ok
23 53	3 C 44W	24 52	0.5	8.91	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Clearing.	good

1 PH loaded, 5 plates in box

	MTW	STW	MC	SC
Apr. 20	+12.2	+14.2	+32.6	+41.1

027

Fri. Apr. 21-22, 1950

3

Date Sat Apr 22/50 Observer Ba - Gw Julian Day 3299

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
17208	HD 74925	8 41.8	28 21	12"	103a D	.008	+5.2	1956	2120	4
17209	87804	10 02.4	27 16	"	"	"	+5.0	2123	2233	1
17210	94833	10 51.8	25 49	"	"	"	+5.0	2235	2345	2
17211	106184	12 08.0	29 11	"	"	"	+5.0	2348	0051	3
17212	117555	13 26.0	24 44	"	"	"	+5.0	0055	0139	4
17213	126009	14 17.9	29 51	"	"	"	+4.9	0143	0207	1
17214	126307	14 19.6	27 53	"	"	"	+4.9	02 10	02 30	2
17215	142929	15 52.2	25 28	"	"	"	+4.9	02 35	03 23	3
17216	143688	15 56.8	24 44	"	"	"	+5.0	03 28	04 32	4
	FOCUS TEST O. T. B									

Dome Temp. 3
Focus 12.32
Dome Temp. 37

Hour Angle
End
2150
2040
2300
2220
1520
1200
1480
1110
2500

Dome Temp... 36

Focus... 12.930

Dome Temp... 32°

Transparency Conditions

Scattered cloud stage 228
clearing away after sunset

Ending Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:20	215W	28 10	0	8.98	GO	1-1-1	AG25	good
21:25	208W	27 01	0	8.82	K0	1-1-1	"	fine
21:35	231W	25 39	0	8.84	GO	1-1-1	"	good
21:45	222W	28 54	0-1	8.88	K5	1-1-1	"	good
21:50	152W	24 28	1-2	8.30	G5	1-1-1	" (2-1-1)	fine
21:57	128W	29 36	1-2	7.94	M3	1-1-1	"	fine
22:02	148W	27 38	1-2	7.83	K5	1-1-1	"	fine
22:28	111W	25 19	0-2	8.79	G5	1-1-1	"	fine
22:34	215W	24 35	1	8.91	K0	1-1-1	" blinks at 4:03	fine
							from OK	
							2 PH's loaded. 9/16 in box.	
							+24	
							1950 Apr. 22-23. Showed telescope to 13 visitors. Cloudy - sprinkle of rain N, L.	

229

Date Sun Apr 23-24, 1950 Observer Ad - Cim Julian Day 3395

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17217	HD 94336	10 48.2	26 44	I-12	E10320	008	+8.2	21 05	21 57	1
17218	HD 102161	11 40.4	25 41	"	"	"	8.2	22 01	23 31	2
17219	HD 45339	13 11.5	28 17	"	"	"	+8.0	23 34	00 34	3
17220	{ " 121319	13 49.7	28 50	"	"	"	+8.0	00 38	01 16	4
	{ FOCUS TEST		U. T. B.							

Dome Temp. 7
Focus 12.9
Dome Temp.

Star Angle
End
2555
4137
0941
1112

Dome Temp. +42

Focus 12.930

Dome Temp.

Transparency Conditions Poor

230

Delayed opening a/c murky sky
Further delayed by finding mechanical bands
of S.O.D. stopped. Did not re-set.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:57	W 55	26 29	0	8.12	M ₀	1-1-1	AR 25	good
22:12	W 137	25 25	0	8.75	G ₅	1-1-1	" "	good
00:23	1 09W	28 01	0+	8.49	K ₀	1-1-1	" "	good
01:04	1 14W	28 34	0+	8.19	K ₀	1-1-1	" " Clouds being especially filling in Closed down 02:00.	good
							2 911 o loaded, see box of white needed	
							<div style="display: flex; justify-content: space-around;"> MC SC MTW STW SW </div> <div style="display: flex; justify-content: space-around;"> Apr. 24 +36.0 +37.4 -30.0 -0.2 -15.5 </div>	

234

1950

Date Wed Apr 26 - 27

Observer Pa - Cu

Julian Day 2298

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
17221	HD 20819	09 16.9	26 12	12"	E 103.0	.008	8.8	20 25	21 15	1	2.5 W
17222	58532	10 07.5	28 47	"	"	"	8.6	21 28	22 33	2	2.1 W
17223	101396	11 35.0	26 42	"	"	"	8.6	22 36	23 36	3	1.5 W
17224	" 139608	15 34.0	24 51	"	"	"	8.3	01 48	02 10	4	0.35
17225	{ 142053	15 47.3	25 37	"	"	"	8.3	02 13	02 35	1	0.47
	{ FOCUS TEST - O.T.B										

Dome Temp. 4

Focus 12.9

Dome Temp.

Hour Angle
End

Dome Temp. 45

Focus 12.930

Dome Temp.

Transparency Conditions Scattered clouds some haze 232

Ending Time L.L.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21.5	205 W	26 00	0-1	835	G5	1-1-1	AG 25	fine
22.5	221 W	28 32	1	892	K0	1-1-1	" slightly hazy	good
23.0	158 W	26 26	1	882	K0	1-1-1	" Epistemiplate. broken by passing cloud 2305 2315 2335	fine
22.0	035 W	24 41	1	7.81	M3	1-1-1	"	fine
22.35	047 W	25 27	1-	8.35	K0	1-1	" clouds again; Closing down - its solid.	good focus
							?	
							1 PH loaded, some plates in a E box.	

Date Friday April 28-29/50 Observer L Julian Day 2,433.400

Dome Temp. +3
Focus 12.93
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17226	HD. 139007	15 30.5	25 20	I-12½	E-103a0	set .008	+3.9	01 16	02 02	2
17227	" 149132	16 27.7	29 49	"	"	"	+3.9	02 10	03 12	3
17228	" 160952	17 37.7	29 39	"	"	"	+3.8	03 16	04 30	4
	Focus Test				O T B					

Hour Angle End
0 38 W
0 51 W
0 59 W

Sat

Dome Temp. +34°F

Transparency Conditions Fair

234

Focus 12.930

Dome Temp.

clouds earlier!

Ending Time E.S.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 02 2	0 38W	25 11	0	8.30	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	A.G. 25	good fine
03 03 3	0 51W	29 42	0	8.70	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " some haze	
04 04 4	0 59W	29 37	0	8.91	K0	$\frac{1}{2} - \frac{1}{2}$	" "	1st
						4/3		
							e PAs loaded +4	
							Hon M.	

Sat Apr 29-30 H₂ - H₂. About 70 visitors showed
 h + c with 74" c + a sem with 4".
 Cloudy after visitors.

May 1 MC +40^s SC +48^s MTW 00± STW +0.3 SW_s -03

Sun. Apr 30 - May 1 Overcast, Wm.

Tues May 2/3 - Cirrus until 22 00; leaving it until 2nd 1/2 Wm.

Date May 2/3, 1950 Observer Cue Julian Day 2,933,409

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17229	HD 130500	14 43.5	+25 53	I-12 $\frac{1}{2}$	E-1032-0	Set .008	+10.3	01 03	02 11	1
17230	HD 143705	15 56.9	+29 13	"	"	"	+9.4	02 15	02 55	2
17231	{ HD 150665	16 37.4	+26 17	"	"	"	+8.9	02 59	03 05	3
	FOCUS TEST - O.T.B.									

Dome Temp. +

Focus 12

Dome Temp.

Hour Angle
End

1 49 W 13

12 W

145 W

Dome Temp. +43°F

Focus 12.970

Dome Temp.

Transparency Conditions Fair

736

Sat May 6, about 120 visitors. Showed Saturn & Mars with 8" & 4" telescopes. High wind, did not open 74" RLB

33.404

Ending Time L.L.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
02:11	1	49W	+25 40	0-2	8.96	Ko	1-1-1	AG 25	too dim												
02:52	2	1 21W	+29 04	1-2	8.44	G5	1-1-1	" "	same												
03:33	3	1 45W	+26 11	1-2	8.64	Ko	1-1-1	" "													
								3 plates loaded, full, box in P. Room.													
								<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>May 5</td> <td>+42.8</td> <td>+50.2</td> <td>+13.0</td> <td>+0.6</td> <td>+06</td> </tr> </table>		MC	SC	MTW	STW	SW	May 5	+42.8	+50.2	+13.0	+0.6	+06	
	MC	SC	MTW	STW	SW																
May 5	+42.8	+50.2	+13.0	+0.6	+06																

237.

Date Sun May 7-8, 1950 Observer Ad - C. W. Julian Day 3409

Plate No.	Object	R. A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17232	HD 97658	11 09.2	26 16	I-12	E10320	008	+9.7	20 45	21 35	4
17233	HD 107611	12 17.0	27 51	"	"	"	+9.6	21 39	22 43	1
17234	HD 117028	13 22.5	29 24	"	"	"	+8.1	22 47	23 57	2
17235	HD 126327	14 19.7	26 11	"	"	"	+8.1	00 02	01 02	3
17236	HD 135145	15 10.6	28 19	"	"	"	+8.0	01 07	01 51	4
17237	HD 143705	15 56.9	29 13	"	"	"	+8.0	01 56	02 40	1
17238	HD 150087	16 33.7	29 02 27 35	"	"	"	+8.1	02 44	03 44	2
17239	HD 166781	18 07.1	26 38	"	"	"	+8.1	03 48	04 06	3
	FOCUS TEST		O. T. B.							

Dome Temp. 4

Focus. 12

Dome Temp. 3

Hour Angle
End

1106

1107

111W

112W

125W

126

159W

043

Dome Temp. 41

Transparency Conditions *Good*

238

Focus 12.930

Dome Temp. 34°F

Reading Time
E.S.T. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-------------------	-------------	--------	--------------	-----	-------	---------	---------

21 35 4

W 106	+25 59	0	8.35	K ₀	1-1-1	AG 25	
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22 43

W 107	27 35	0	8.64	G ₀	1-1-1	" "	
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23 57 2

1 17W	29 08	0	8.77	K ₀	1-1-1	" "	
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01 23

1 24W	25 57	0-1	7-8V	M8	1-1-1	" " Vis. mag. only.	
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02 51 4

1 25W	28 07	0-1	8.42	G ₅	1-1-1	" "	
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02 40 1

1 26W	29 05	1	8.44	G ₅	1-1-1	" "	
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03 44 2

1 54W	27 29	1-2	8.89	G ₅	1-1-1	" "	
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04 06 3

0 43W	26 39	1-2	7.49	G ₅	1-1-1	" "	
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3 PH's loaded. 4 plates
in a box.

239

Date Mon May 8-9 1950 Observer L. Ba. Cav Julian Day 3410

Dome Temp. 74
Focus 12
Dome Temp. 74

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
17240	HD 133459	14 59.5	+27 28	I-12 ^{1/2}	103a-0	·008	+9.2	00 37	01 17	1
17241	" 142053	15 47.3	+25 37	"	"	"	+9.1	01 21	02 01	2
17242	{ " 149403	16 29.3	25 04	"	"	"	+9.2	02 05	03 15	3
	{ FOCUS TEST		O.T. B.							

Hour Angle
End

1 09
2 00
3 13W

24

Date Wed May 10-11, 1950 Observer H. - B. S. Julian Day 3412

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17243	HD 118905	13 34.8	+27 12	L-12	E10300	008		22 59		1
17243	HD 137003	15 18.6	+28 24	J-12 ¹	E10300	008	+11.8	01 15	01 55	2
17244	HD 199803	16 32.0	+29 56	"	"	"	+11.8	01 59	02 59	3
17245	AG 8084	17 10.2	+29 39	"	"	"	+11.8	03 04	04 00	4
	FOCUS TEST O.T.B.									

Dome Temp. +
Focus 12.9
Dome Temp.Hour Angle
End

Dome Temp. +46
 Focus 12.930
 Dome Temp.

Transparency Conditions

Poor
 Partly cloudy at sunset. worse shortly after.
 Better again at 22:00 Good 01:00 E.S.T.

242

Ending Time
 R.S.T. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			7.13	Ko	1-1-1	Watch correction $-0^m.5$ (note past entries!) This delayed starting: <u>Clouds</u>	
1:30W	+28 12	0	8.14	Ko	1-1-1	AG 25	fine
1:21W	+29 50	0-1	8.78	G5	1-1-1	" "	fine
1:44W	+29 36	1	8.72	G0	1-1-1	" " 03:20 slight haze.	good
						9 PH10s loaded 8 1/2 in box.	

243

Date *Thurs May 11/12*
50Observer *Ba - L*Julian Day *3413*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17246	HD 115103	13 09.9	29 55	12"	E103aD	.008	13.8	22 42	23 56	1
17247	126970	14 23.7	29 43	"	"	"	+16.0*	23 59	00 37	2
17248	" 141690	15 45.3	25 46	"	"	"	+16.0	00 45	02 55	3
17249	" 163949	17 53.7	28 00	"	"	"	+16.0	02 59	04 03	4
	Focus Test				O.T.B.					

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. 58
 Focus 12:43.0
 Dome Temp.

Transparency Conditions Good

240

Start delayed because of faulty contact on rails to shutter motor

01:10 Condition rapidly deteriorating

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:40	145 W	24 21	0-1	8.82	G5	1-1-1	AG 25	fine
22:24	102 W	28 54	1	8.73	G5	1-1-1	" Very red color for this spectral type	good
22:57	126 W	26 39	0-1	8.96	K0	1-1-1	"	good
23:00	137 W	25 40	0	8.91	K2	1-1-1	" 01:30 falling in.	weak
							4PIII loaded, new box needed	
							no centre exposure in focus test	

Dome Temp. +45°F

Focus 12.930

Dome Temp. +47°F

Transparency Conditions haze

248

About 90 visitors. Cirrus clouds delayed opening of 74 in. for visitors. Showed 74 with both 74" and 4". Some cloud still around N at 23 00, gradually improving.

Ending Time E.S.T. P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 30	01 19W	+24 57	0	8.05 8.56	K ₀	1-1-1	A ₂ -25 (HD 120895 not marked on chest)	fine
01 00	01 10W	+27 20	0-1	8.61	K ₀	1-1-1	" " " " " "	fine
01 57	01 20W	+25 13	1-2	8.84	G ₅	1-1-1	" " " " " "	later
02 00	01 21W	+26 40	1-2	8.83	K ₂	1-1-1	" " " " " "	fine
02 57	01 05W	+29 03	0-1	8.57	G ₅	1-1-1	exposures overlapped plate destroyed exposures overlapped	
							3 plates in box; 3 PH's loaded.	
							MC SC MTW STW SW _s May 15 +13.3 -06.9 +00.3 -0.2 -06	

249

Date 1950 Mon May 15-16 Observer Hd - Gu. Julian Day 3417.
a

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17258	HD 100993	11 32.3	25 58	I-12	E103a0	008	+17.0	20 27	21 31	2	11
17259	HD 108466	12 22.6	28 40	"	"	"	+17.0	21 36	22 06	3	W 56
17260	HD 115613	13 13.2	27 58	"	"	"	+17.0	22 09	23 21	4	W 2
17261	AG 6888	14 29.9	24 51	"	"	"	+16.8	23 26 ²⁹	00 39	1	
17262	HD 140913	15 41.4	28 47	"	"	"	+16.7	00 33	01 21	2	0.1
17263	HD 149291	16 23.2	27 55	"	"	"	+16.5	01 24	02 28	3	
17264	HD 159635	17 01.6	25 38	"	"	"	+16.3	02 27	03 27	4	
17265	HD 156362	17 12.0	27 16	"	"	"	+16.2	03 30	03 50	1	1.2
	} FOCUS TEST — O.T. B.										

Dome Temp. +57 F.
 Focus 12.930
 Dome Temp. +48 F.

Transparency Conditions *Poor at first.*
 00.00, scattered cloud from N.
 00.45, high wind rising, W. clouded

250

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 31	2	11	+25 42	0	8.49	G ₀	1-1-1	Thin clouds at first.	fine
22 06	3	W 56	+28 23	0-1-0	7.93	K ₀	1-1-1		very good
23 21	4	W 1 21	+27 43	0	8.64	G ₅	1-1-1		good
		01 12W	24 38	0-1	8.68	G ₀	1-1-1	Set 9. Wrong * at first	good
		0 53W	28 36	0-1	8.49	G ₀	1-1-1	A 9. 25 seeing very steady.	fine
		1 02W	27 47	1	8.79	K ₅	1-1-1	" "	good
		1 39W	25 34	0	8.65	K ₀	1-1-1	" " cloud	fine
		1 52W	27 11	0-1	7.58	K ₀	1-1-1	" "	fine
3 PH's loaded, new box needed.									
to violet.									
<p>Jues. May 16 About 50 University Women's Faculty N.L.S. showed Saturn with 74" through light cloud. Blink and projection measuring engines in Main Building.</p>									

253

Date Fri May 19-20, 1950 Observer Hd-L Julian Day 2433.91

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17267	HD 100091	11 25.6	29 00	I-12	E103a0	008	+12.5	20 30	21 10	3
17268	HD 109627	12 31.0	25 58	"	"	"	12.7	21 13	22 39	4
17269	HD 121149	13 48.6	28 09	"	"	"	+12.5	22 42	23 55	1
17270	" 139007	15 30.5	25 20	"	"	"	+12.5	00 00	00 56	2
17271	" 149142	16 27.8	26 15	"	"	"	+12.5	01 00	01 54	5
17272	(" 159479	17 29.9	26 46	"	"	"	12.5	01 58	03 28	4
	(Gen. Star				O.T.B.					

Dome Temp. +
Focus ... 12.9
Dome Temp.Hour Angle
End

Dome Temp. +50 F

Transparency Conditions Uncertain at first 254

Focus 12.930

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 10 3	W 1 13	+28 44	0	8.05	M ₀	1-1-1		good
22 39 4	W 1 36	25 41	0-1	8.54	K ₂	1-1-1	Hayf.	good
22 51	1 37 W	27 54	0-1	8.58	G ₀	1- $\frac{1}{2}$ - $\frac{1}{2}$	"	v strong
22 56 2	0 55 W	25 10	0-1	8.30	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		v strong
1 1 4	0 56 W	26 09	0-1	8.27	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		fine
1 1 4	1 28 W	26 42	0-1	8.96	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		1 strong
						4/3	A PH. 0 bracket +.7	fine
							Har. M.	

255

Date Sat May 20-21 1950 Observer Hd (Gr) - Gr Julian Day 243342

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17273	HD 118658	13 33.2	27 18	I-12	E 0800	008	+18.0	22 05	22 45	1
17274	HD 126778	14 22.5	29 02	"	"	"	+17.1	22 48	23 38	2
17275	HD 132304	14 53.3	25 05	"	"	"	+17.0	23 40	00 00	3
17276	HD 140385	15 38.2	+29 57	"	"	"	+16.7	00 28	01 28	4
17277	HD 150431	16 35.9	+25 44	"	"	"	+16.9	01 32	02 25	7
17278	HD 156775	17 14.4	+25 54	"	"	"	+16.9	02 28	02 44	2
17279	HD 166914	18 07.7	+25 21	"	"	"	+16.9	02 47	03 57	3
	Focus Test		C.T.B.							

Dome Temp. +59 F

Focus 12.930

Dome Temp. +50 F

Transparency Conditions *improving after early clouds* ²⁵⁷⁰

About 120 visitors. Showed to with 74" (esp. good!) (with 4"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 5	W 0 45	+27 04	3-2	8.61	G5	1-1-1		
22 5	W 0 49	28 49	2	8.82	K0	1-1-1		
22 8	W 1 01	24 55	2	8.44	K2	1-1-1		
22 8	W 1 24	29 48	2-1	8.91	G5	1-1-1		
22 25	W 1 25	25 32	1-2	8.82	K0	1-1-1		
22 44	W 1 04	25 51	2	7.61	K0	1-1-1		
22 5	W 1 16	25 22	1-0	8.84	G0	1-1-1		
						4/3	4 ph. loaded + 9	
							H.O.M.	

257

1950

Date Sun May 21/50 Observer Ba, Gu Julian Day 3423

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17280	^{VAD} 101856	11 38.3	28 07	12"	E103a0	10B	21.1	20 49	21 40	1
17281	109463	12 29.8	24 47	"	"	"	21.1	21 43	22 48	2
17282	120802	13 46.6	27 37	"	"	"	21.1	22 51	00 00	3
17283	136901	15 18.1	+ 25 59	"	"	"	21.0	00 04	00 00	4
17284	AG 7420	^{54.6} 15 54.6	+ 28 02	"	"	"	21.0	00 45	01 29	1
17285	HD 150 205	16 34.4	+ 29 52	"	"	"	21.0	01 33	02 03	2
17286	152264	16 47.3	29 45	"	"	"	20.9	02 07	02 31	3
17287	156652	17 13.7	29 02	"	"	"	20.9	02 34	03 04	4
17288	{ 166867	18 07.5	29 53	"	"	"	20.9	03 07	03 45	1
	{ FOCUS TEST		O. T. B.							

Dome Temp.

Focus 12.93

Dome Temp.

Hour Angle
End

0138 W 2

056 W 2

00 W 2

059 W 3

12 W 3

11 W 4

122 W 4

10 W 4

18 W 4

Dome Temp. 65

Focus 12.930

Dome Temp. +59.5 F

Transparency Conditions

Good

258

Start delayed by blown generator fuse.
 Curious rattle from upper end of tube
 when focussing

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:40	0138W	27 51	0+	8.72	K0	1-1-1	AG-25	fine
22:48	0156W	24 30	0+	8.86	K2	1-1-1	"	fine
	1 51W	27 22	0	8.82	G5	1-1-1	"	good
	0 59W	25 47	0-1+	8.22	K0	1-1-1	"	v. good
	1 12W	27 53	0-1	8.44	K0	1-1-1	"	fine
	1 06W	29 46	0-1	8.07	G5	1-1-1	"	fine
	1 22W	29 39	1-2	8.07	G5	1-1-1	"	fine
	1 28W	28 58	0-1	8.09	M0	1-1-1	" Haze from W.	fair
	1 18W	29 53	0	8.07	K0	1-1-1	"	good
							a. slightly, to v. 4 PH's loaded, new box of plates needed	
							Mon May 22.	
							About 30 exchange teachers	
							Sky overcast, Gr. L demonstrated telescopes	

259

Date May 23/24, 1950 Observer L-R-G Julian Day 2433.425


Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17289	H.D. 11706E	13 22.7	24 50	I-12 ¹ / ₂	E-1030-0	set .008	+18.7	21 40	22 56	2
17290	" 13197E	14 51.6	24 48	"	"	"	+18.7	23 00	23 46	3
17291	" 13257E	14 54.5	25 27	"	"	"	+18.5	23 53	00 33	4
17292	AQ 7920	15 54.6	28 02	"	"	"	+18.4	00 37	01 11	1
17293	HD 14919E	16 27.8	28 15	"	"	"	+18.3	01 17	01 44	2
17294	" 15665E	17 13.7	29 02	"	"	"	+18.1	01 48	02 18	3
17295	" 16050E	17 35.2	26 49	"	"	"	+18.1	02 21	02 57	4
17296	" 16598E	18 03.5	26 24	"	"	"	+18.1	03 01	03 23	1
17297	{ 171550	18 30.4	29 40	"	"	"	+18.1	03 26	03 33	2
	FOCUS TEST		O.T.B.							

Dome Temp. $+61^{\circ}F$
 Focus: 12.930
 Dome Temp. $+54^{\circ}F$

Transparency Conditions *Fair* *Slight haze* ²⁶⁰
Heavy mist at dawn.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 19 W	24 34	0	8.57	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG25		
0 40 W	12 4 36	0	8.16	Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"		1st op
1 25 W	25 15	0-2	8.19	G5	1-1-1	"	Seeing jumping from 0 to 2.	fine
1 03 W	27 53	1-2	8.44	Ko	1-1-1	"		fine
1 02 W	26 08	1-2	8.27	G5	1-1-1	"		fine
0 57 W	28 58	1-2	8.09	Mo	1-1-1	"	badly matched polyjet	
1 08 W	26 48	0-1-2	8.23	G0	1-1-1	"	Set 9	st. op
1 05 W	26 25	2	7.73	Ko	1-1-1	"		fine
0 54 W	29 42	1-2	7.23	Ko	1-1-1	"		fine
							calt v. 2 PH1s loaded (3.4) 4/16 in an F box.	

261

Date  Wed. May 24/5 1950

Observer Wm. Hcl. Gu Julian Day 2 433 426

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17 298	HD 109 552	12 30.5	+29°23'	I-12	E-103a-0	SET 008	22.0	20 26	21 40	3
17299	HD 118971	13 35.3	26 26	"	"	"	22.0	21 43	23 03	4
17300	HD 126598	14 21.4	26 43	"	"	"	+21.8	23 06	00 06	1
17301	HD 15008	16 33.7	29 02	"	"	"	+21.8	00 11	01 15	2
	FOCUS TEST O.T.B.									

Dome Temp. 66

Focus 12.93

Dome Temp. 66

Hour Angle
End

Dome Temp... 64°F

Focus... 12:930

Dome Temp... 70°F

Transparency Conditions Cirrostratus on horiz, esp in W 262 becoming hazy

01:00... clouds from W. haze very faint.

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
21:40	3	-W 58	+29 07	0	8.39	G0	1-1-1	AG25	good												
23:04	4	W 17	+26 11	0	8.71	G0	1-1-1	Hazy	poor												
		1 34W	26 30	0+	8.51 8.82	K5 K5	1-1-1	"	poor												
		0 31W	28 56	0+	8.42	G5	1-1-1	" "	poor												
2 PHs loaded. need plates																					
<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>May 25</td> <td>+27.6</td> <td>-01.2</td> <td>-07.6</td> <td>-0.3</td> <td>-43</td> </tr> </table>										MC	SC	MTW	STW	SW	May 25	+27.6	-01.2	-07.6	-0.3	-43	
	MC	SC	MTW	STW	SW																
May 25	+27.6	-01.2	-07.6	-0.3	-43																

263

Date Thurs May 25/51

Observer R. P.

Julian Day 2927

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17302	104589	11 57.0	25 54	I-12 $\frac{1}{2}$	103u0	0.002	21.0	20 55 "	21 30 "	3
17303	119748	13 40.0	29 29	"	103u0	"	+21.0	21 44 "	22 44 "	4
17304	130205	14 41.5	+27 56	I-12 $\frac{1}{2}$	"	"	+21.0	22 55 m	00 05	V

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. $+65^{\circ}F$

Focus 12.930

Dome Temp. 11.05

Transparency Conditions

264

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality															
21:50	3	$129^h W$	$+25^{\circ}35'$	0-1	8.84	K_0	1-1-1	AG 2.5																
22:40		$7^h 50^m W$	$+29^{\circ}12'$	1	8.61	S_5	1-1-1	AG 2.5																
23:50	1	$16^h W$	$27^{\circ}44'$	0	8.88	K_0	1-1-1	AG 2.5																
<p>delaying in the evening due to clouds at 0130 - heavy cloud in SW - light cloud on the 1st evening. 4.0 3 PM to 1st + 8.</p>																								
<p>Fri. May 26/27 Sky overcast.</p>																								
<p>Sat May 27/28 Showed 1150 people $h_2 - 74''$ $\ll - 4''$ Clouds at 2200 - 2300</p>																								
<p>May 29</p> <table style="width: 100%; border: none;"> <tr> <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> <td style="text-align: center;">(W) W.</td> </tr> <tr> <td style="text-align: center;">$+31.4$</td> <td style="text-align: center;">-01.6</td> <td style="text-align: center;">$+16.8$</td> <td style="text-align: center;">-0.0</td> <td style="text-align: center;">SW</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">-60^s</td> </tr> </table>										MC	SC	MTW	STW	(W) W.	$+31.4$	-01.6	$+16.8$	-0.0	SW					-60^s
MC	SC	MTW	STW	(W) W.																				
$+31.4$	-01.6	$+16.8$	-0.0	SW																				
				-60^s																				

265

Date Mon. May 29/30 Observer Gr Julian Day 2433431

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17305	HD 154183	16 58.8	+25 48	F-12 $\frac{1}{2}$	E-103a ⁰	^{set} .008	+15.8	01 14	02 24	2
17306	HD 170619	18 25.3	+29 20	"	"	"	+15.7	02 27	02 54	3
17307	HD 171232	18 28.5	+25 25	"	"	"	+15.7	02 58	03 25	4
17308	HD 185289	19 33.3	+26 08	"	"	"	+15.6	03 28	03 58	1
	Focus det.		O.T.B.							

Dome Temp. +54°F

Focus 12.930

Dome Temp. +53°F

Transparency Conditions Cloudy - starting 00^h30 266

Com. double - high!

Full moon.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11.30	1 34 W	+25 44.	0	8.72	G ₀	1-1-1	AG 25	good
11.50	0 38 W	+29 32	1	7.90	G ₅	1-1-1	"	v. good
12.15	1 06 W	+25 28	1	7.87	G ₅	1-1-1	"	v. good
12.40	0 35 W	+26 15	1	8.00	G ₅	1-1-1	"	fine
						4/3	col. L.V.	
							3 P.H. 1-1-1 + +.	

267

Date Tues. May 30-31/50 Observer L-GZ - Gu Julian Day 2433432

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17309	A.G. 6529	13 30.5	25 19	I-12 $\frac{1}{2}$	E-1030-0	set .008	+19.4	21 20	22 24	2
17310	HD 128185	14 30.4	28 49	I-12 $\frac{1}{2}$	"	"	+19.3	22 35	23 21	3
17311	HD 150665	16 37.4	26 17	"	"	"	+19.0	00 52	01 32	4
17312	HD 155344	17 05.9	26 34	"	"	"	+19.0	01 35	01 59	1
17313	(HD 158038	17 21.8	27 23	"	"	"	+19.0	02 02	02 50	2
	} FOCUS TEST		O. T. B.							

Dome Temp. 15
Focus 12.93
Dome Temp. 1Hour Angle
End

06 W 2

104 W 28

08 W 20

107 W 2

142 W 2

Dome Temp. +59°F

Focus 12.930

Dome Temp. +53°F

Transparency Conditions light haze

268

Richmond Hill United Church Choir about 24. B-G&L showed Saturn with 74."

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
22 24	06 W	25 05	0	8.47	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG.25	1 wk												
23 21	1 04 W	28 37	0	7.95	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Cloud at 23 20	good												
23 32	1 08 W	26 10	0-1	8.64	K0	1-1-1	" Clearing at 00 30	good												
24 19	1 07 W	26 30	0-1	7.59	K0	1-1-1	"	good												
25 28	1 42 W	27 19	0-1	8.33	K0	1-1-1	" Solid cloud bank coming in from S.W.	good OK												
							2 pH's loaded + full box.													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Jan 1</td> <td>+34.3</td> <td>-00.8</td> <td>+35.8</td> <td>+0.2</td> <td>0.67³</td> </tr> </table>		MC	SC	MTW	STW	SW	Jan 1	+34.3	-00.8	+35.8	+0.2	0.67 ³	
	MC	SC	MTW	STW	SW															
Jan 1	+34.3	-00.8	+35.8	+0.2	0.67 ³															

269

Date 1950 Jun. 1-2. Observer L-R, C. Julian Day 2,433, 434

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17314	HD 134 680	15 ^h 06.1 ^m	+27° 37'	F-12 $\frac{1}{2}$	103a20	0.008	19.0	22 ^h 59 ^m	00 19	3
17315	HD 150 102	16 33.8	+27 15	"	"	"	18.8	00 24	01 14	4
17316	HD 153 698	16 55.9	+27 29	"	"	"	18.8	01 17	02 05	1
17317	HD 156 966	17 15.4	+27 23	"	"	"	18.7	02 09	02 55	2
17318	HD 166 842	18 07.4	+25 32	"	"	"	18.5	02 59	03 21	3
17319	HD 171 550	18 30.4	+29 40	"	"	"	18.5	03 24	03 40	4
	FOCUS TEST O.T.B.									

Dome Temp. 60

Focus 12.930

Dome Temp. 55°F

Transparency Conditions *Light haze*

Clouds earlier delayed opening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 19	35W	27° 37'	0-1	8.93	K ₀	1-1-1	AE 25	fine
02 14	01W	27 09	0-1	8.42	M ₀	1-1-1	" "	l w
02 25	30W	27 24	0-1	8.58	M ₃	1-1-1	" "	l w
02 25	01W	27 19	0-1-2	8.48	M ₀	1-1-1	" "	good
03 21	35W	25 33	1	7.44	K ₀	1-1-1	" " <i>guiding</i>	fine
03 40	31W	29 43	1	7.23	K ₀	1-1-1	" " <i>numbered 17318</i>	fine
							<i>9 PH's loaded, 4 plates in F box.</i>	<i>focus</i>
							<i>Sat. Jun 3-4/50 Sky overcast - Ba-G +</i>	<i>Level</i>
							<i>about 40 visitors the telescope.</i>	

271⁷

Sun

Date 1950 Jun 4-5 Observer L(R) - Gr Julian Day 2,433,437

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. °C	Starting Time E.S.T.	Ending Time E.S.T.	P.
17320	118823	13 ^h 34 ^m .2	+24° 45'	I-12 ^{1/2}	10320	0.008	+17.2	21 ^h 05 ^m	22 ^h 00 ^m	1
17321	130766	14 ^h 44 ^m .9	+25° 35'	I-12 ^{1/2}	10320	0.008	+17.0	22 ^h 31 ^m	23 ^h 05 ^m	1
17322	142 209	15 ^h 48 ^m .2	+28° 54'	I-12 ^{1/2}	103 20	0.008	+16.9	23 ^h 16 ^m	00 34	3
17323	HD 150567	16 36.8	+29 06	"	"	"	+16.8	00 37	01 37	4
17324	" 165473	18 01.1	+29 04	"	"	"	+16.8	01 39	02 09	1
17325	" 165589	18 01.6	+28 41	"	"	"	+16.8	02 11	02 49	2
	Focus test		O.T.B.							

Dome Temp. 5
Focus 12.93
Dome Temp. 5

Hour Angle
End

1^h 19^m +

0^h 53^m +

1^h 19^m +

1^h 38^m +

1^h 04^m +

2^h 11^m +

Dome Temp. 58°F

Focus 12.930

Dome Temp. 48°F

Transparency Conditions *Good*

272

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^h 19 ^m W	+24° 31'	0-1	8.68	G5	1-1-1	AG 25.	fine
0 ^h 53 ^m W	+25° 23'	1	8.06	K0	1-1-1	"	ok
1 19 W	+28° 45'	0-1	8.92	K2	1-1-1	"	fine
1 3 ^h W	+29 00	0-1	8.75	K2	1-1-1	intermittent light clouds passing over	fine
10 41 W	+29 04	1	7.84	K0	1-1-1	" " " " " "	very good
1 21 W	+28 41	1	7.86	K2	1-1-1	" clouds thickening - (lenses held during last 10 min) but image still visible faintly	fine

4/3

centre rd to violet

4 P.H. loaded + 8

H on M.

Jun. 5 Watch advanced 1 min.

" 6	MC	SC	MTW	STW	SW
	+38.6	+08.9	+04.8	-0.0	-65 ^s

2A3

Date Tues June 6-7, 1950 Observer Had. Gu Julian Day 3939

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17326	HD 126991	14 23.8	24 59	T-12	E103a0	008	25.0	22 12	22 52	1	W 108
17327	HD 138156	15 25.2	27 26	"	"	"	24.9	22 55	00 09	2	2 20W
17328	COMET HAC 1016	17 36.6	(1950) +10 47	"	"	"	24.4	00 34	01 48	3	0 59 +
17329	AG 8656	18 01.9	25 40	"	"	"	24.1	01 55	02 31	4	1 10W
³ 17330	HD 169819	18 21.4	25 56	"	"	"	24.0	02 35	03 10	1	1 30W
³ 17331	HD 17594	18 52.7	28 04	"	"	"	24.1	03 13	03 35	2	1 20W
	{ FOCUS TEST		O. T. B.								

Dome Temp. -
Focus 2.9
Dome Temp. +Hour Angle
End

Dome Temp. $+71^{\circ}\text{F}$
 Focus 12.940 (reset)
 Dome Temp. $+65^{\circ}\text{F}$

Transparency Conditions *blondy thin clearing with haze*
Bands of haze toward dawn.

Reading Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:02	W 108	24 44	0-1	8.06	Ko	1-1-1	AQ 25	fine
22:09	1 29W	27 16	1	8.96	Ko	1-1-1	" "	"
22:48	0 59W	+10 45	1-2	9?		1-1-1	<i>re</i> Doubt whether this is comets, but this object <i>A-type</i> does not seem to appear on chart	star
22:31	1 10W	25 41	1-2+	8.49 8.72	G	1-1-1	AQ 25 Everything double checked	1 star
23:10	1 30W	26 01	1-2-0	8.28	Ko	1-1-1	" " for good	(good)
23:35	1 29W	28 09	1-2	8.00	Ko	1-1-1	" "	1 star
1 PH ₁ . loaded, 9 plates in an E. box.								
Jun. 7 MC SC MTW STW SW +39.8 -00.8 +10.2 -0.1 -77°								

275

Date 1950 Jun 7-8 9d Observer R - Cu Julian Day 2,433,440

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17332	HD 128 095	14 ^h 29.9 ^m	+28° 55'	D-12½	103a0	0.008	27.0	22 ^h 04 ^m	23 ^h 20 ^m	3
17332	147 527	16 ^h 19.5 ^m	+29° 05'	I-12½	103a0	0.008	26.7	23 ^h 37 ^m	00 30	4
17333	HD 150086	16 33.7	29 02	"	"	"	26.9	00 33	01 23	1
17334	HD 155839	17 09.0	25 07	"	"	"	26.8	01 28	02 08	2
17335	HD 166867	18 07.5	29 53	"	"	"	26.6	02 12	02 50	3
17336	HD 174414	18 45.3	27 36	"	"	"	26.5	02 53	03 31	4
	FOCUS TEST		O. T. B.							

Dome Temp. 72
Focus 12.9
Dome Temp. 72Hour Angle
End35^m W +57^m W +34^m W -44^m W +27^m W -730^m W

277

Date Wed June 14/15 1950 Observer G.R. - R Julian Day 2433447

Dome Temp. 6
 Focus 12.9
 Dome Temp. 6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17337 ⁷	HD 142898	15 52.0	+27 20	I-12 $\frac{1}{2}$	E 103aD	set .008	+21.0°C	21 00	21 46	1	1 06W+
17337 ⁸	" 153224	16 53.0	+29 45	"	"	"	+20.9	21 49	00 33	2	0 53W+
17340 ³⁹	" 161196	17 39.1	+29 42	"	"	"	+20.8	00 43	01 30	3	1 03W+
17341 ⁰	" 174695	18 46.7	+28 25	"	"	"	+20.8	01 39	01 58	4	0 23W+
17342 ¹	" 183399	19 24.3	+29 14	"	"	"	+20.8	02 04	01 ⁰²³ 18	1	0 06W+
17343 ²	" 185270	19 33.2	+25 56	"	"	"	+20.8	02 24	03 15	2	0 54W+
17344 ³	" 195967	20 29.3	+29 11	"	"	"	+20.7	03 22	03 47	3	0 30W+
	L Focus test										

Dome Temp. 63°F

Focus 12.940

Dome Temp. 60

Transparency Conditions *cloudy - clearing 2200 hrs. 278*
some haze & ground fog

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 46	1 06W	+27 11	0	8.93	K ₀	1-1-1	AG 25 Wrong star, identity uncertain. Focussed on 2 Cor. Bor. with no trouble	good
00 33	0 53W	+29 40	0	8.70	G ₀	1-1-1	Allowing 1.5 mag for mirror with no haze allowance.	l. strong
01 30	1 03W	+29 41	0	8.82	M ₃	1-1-1	"	strong
01 58	0 23W	+28 27	0	7.85	K ₀	1-1-1	"	strong
02 18	0 06W	+29 21	0	7.49	K ₀	1½-1½	"	guiding
02 50	54W	+26 03	0	8.78	G ₅	1-1-1	"	guiding
03 47	30 30W	+29 21	0	8.23	K ₅	1-1-1	Sex 5 plate partially fogged	guiding

Sex 9.

3 P.H. load:

	M.C.	SC	MTW.	STW.	SW.
June 9	+42.8	-01.2	+16.8	-0.0 ^m	-80.8 ^s
June 12	~+42.0	+06.6	~0.0	~+0.7 ^m	~0.6 ^s
June 13	+42.2	-02.9 ^s	+6.2	+0.8 ^m	+0.1 ^s
June 15	+43.2 ^s	+36.7 ^s	+14.2 ^s	+0.3 ^m	-2.0 ^s

watches reset

Dome Temp. +65°F

Transparency Conditions *Hazy*

286

Focus 12.939

30 visitors shown in

Dome Temp. +62°

34+8

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22	+	1 06 W	29 28	0	8.19	G5	$\frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2}$	AG 25 <i>[after exposure]</i> Cass focusing belt broken, replaced	good
23	12	W 0 40	29 03	0	8.76	K2	1-1-1	" <i>fair</i>	<i>l with</i>
23	-0	W 0 35	25 56	0	8.63	K0	1-1-1	" "	good
01	38	0 53 W	25 34	0	8.65	K0	1-1-1	" " <i>poor guiding</i>	
01	38	1 01 W	28 00	0	8.71	G5	1-1-1	" <i>Thickening at end</i>	good
<p><i>Hazy closing in at 0210</i> <i>2 PH + 18 in refrig.</i></p>									
<p> $\begin{matrix} HC & SC & HW & SW & SW \\ & S & S & m & S \\ June 16 & +42.8 & -04.8 & +17.8 & +0.4 & -3.2 \end{matrix}$ </p>									

281

June

1950

Date ~~Sat~~ Mon 17/10 Observer Bo - Cu Julian Day

Cu

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17349	KD 143271	15 54.4	27 09.	12"	103a-0	.008	13.0	22 35	23 17	1
17350	150087	16 33.7	27 35	"	"	"	13.2	23 21	23 57	2
17351	150799	16 38.2	25 38	"	"	"	13.2	00 01	00 57	3
17352	161112	17 38.6	26 36	"	"	"	13.0	01 07	01 29	4
17353	166867	18 07.5	29 53	"	"	"	13.1	01 32	01 52	1
17354	170951	18 27.0	25 06	"	"	"	13.1	01 55	02 35	2
17355	AQ 9364	18 51.3	26 52	"	"	"	13.0	02 38	03 10	3
17356	HD 188721	19 48.5	28 17	"	"	"	13.0	03 15	03 45	4
	FOCUS TEST				O. T. B.					

Dome Temp. 4

Focus 12.94

Dome Temp. 9

Error Angle
End

Dome Temp. 48

Focus 12.940

Dome Temp. 99.0 F

Transparency Conditions

Good

20 150 visitors showed M 51 on 74", hood with 4" M 51 very fine, spiral arms clearly visible.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 11	00 48W	27 00	<0	8.98	K2	1-1-1	AG 25 allowing 1" @	good
23 17	0 97W	27 27	0	8.89	G5	1-1-1	" "	fine
23 21	0 1 43W	25 32	0	9.4	G0	1-1-1	" "	very good
23 27	1 15W	26 33	>0	8.93	K0	1-1-1	" " R.A. clamp sticking!	good
23 32	1 09W	25 17	0-1	8.56	G0	1-1-1	" "	v good
23 36	1 32W	25 07	0-1+	8.95	M0	1-1-1	" "	weak
23 40	1 49W	26 56	0	8.96	K0	1-1-1	" "	fine
23 45	1 21W	28 24	0-1	8.82	G0	1-1-1	" " light cloud towards end	

2 PH's loaded, new box needed.

	HC	SC	HTW	STW	SW
June 19	+45.4	-05.7	+12.4	0.0	-14.5
June 21	+46.2	-07.0	+22.2	+0.4	-17.0

283:

21-22 June 1950

Date Wed 21 June 1950

Observer Pass - Gu

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17357	HD 123877	14 05.1	26 18	I-12'	E10360	.008	19.5	21 04	21 46	1	0119 W
17358	143272	15 54.4	26 49	"	"	"	"	21 50	22 30	2	0016 W
17359	150087	16 33.7	27 35	"	"	"	"	22 33	23 09	3	0050 W
17360	155041	17 04.1	29 17	"	"	"	"	23 12	23 42	4	10017 W
17361	168331	17 50.5	27 37	"	"	"	19.2	00 33	00 53	1	042 W
17362	166070	18 03.9	27 23	"	"	"	19.2	00 56	01 16	2	052 W
17363	166822	18 07.3	25 17	"	"	"	19.1	01 20	01 44	3	117 W
17364	{ 168956	18 17.3	26 39	"	"	"	19.1	01 46	02 16	4	159 W
	{ FOCUS TEST		O. T. B.								

Dome Temp. →

Focus 12.0

Dome Temp. 5

Dome Temp. 63

Transparency Conditions Good

284

Focus 12.940

Haze at 01:30

Dome Temp. 52°F

Blonde in W.

Reading Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2146	0119 W	26 04.0	0	8.92	K5	1-1-1	AC 25	
2230	0016 W	26 40.0	0	8.96	K0	1-1-1	" "	
2309	0015 W	27 28.0	0	8.89	G5	1-1-1	" "	
2342	0017 W	29 12.0	0+	8.84	K2	1-1-1	" " Stop in anticipation of Hydro break	
0033	0042 W	27 37.1	+	8.64	K0	1-1-1	" " No. breaks so far!	
0116	0052 W	27 22.1	1	8.65	K0	1-1-1	" "	
0148	1 17 W	25 17.0	2	8.56	G0	1-1-1	" "	
0216	1 39 W	26 40.0	0	8.60	G0	1-1-1	" " 2 PH's loaded, 4 in a box.	

Dome Temp. +58°F

Focus 12.940

Dome Temp. +57°

Transparency Conditions *Fair slight haze* 286

Ending Time P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 17	1 0 23W	24 46	0-1	7.80	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	<i>fine</i>
21 35	2 0 19W	26 16	0-1	7.72	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>l str.</i>
21 52	3 0 31W	28 43	0-1	7.73	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>fine</i>
22 28	4 0 22W	29 37	0-1	8.82	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>pr good</i>
23 05	1 0 19W	25 35	1	8.84	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>l wk</i>
23 39	2 0 32W	27 40	1-2	8.74	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>Light clouds toward end.</i>	<i>fine</i>
00 06	3 0 35W	26 46	0-1	8.70	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>fine</i>
00 27	4 0 27W	29 48	1	8.40	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>fine</i>
01 27	1 0 39W	27 13	1	8.62	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>poor guiding</i>
02 07	2 0 32W	25 15	0-1	8.54	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>earlier than G0</i>	<i>weak</i>
02 59	3 0 41W	29 33	0-1	8.75	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	<i>l weak</i>
03 43	4 0 17W	27 58	0-1	8.47	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>sky getting bright.</i>	<i>fine</i>

2 PH loaded. 4 plates in a box.

June 23 $+46.2$ $+8.5$ $+33.2$ $+0.5^m$ -06.5
 ME SC MTW STW SW

287

1950

Date *Sun Snow Jun 25/26* Observer *R - Co* Julian Day *2,438,458*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17377	H.D. 137003	15 ^h 18. ^m 6	+28°24'	S-12½	E 103a0	0.008	+26.6	21 ^h 56 ^m	22 ^h 30	1	250
17378	" 147527	16 17.4	+29 13	"	"	"	+26.8	22 30	23 27	2	106
17379	" 158332	17 23.6	+26 53	"	"	"	+26.7	23 36	00 06	3	0 38
17380	" 163077	17 49.2	25 01	"	"	"	+26.3	00 10	00 30	4	0 37
17381	" 165989	18 03.5	26 24	"	"	"	+26.3	00 37	00 50	2	0 93
17382	" 166683	18 06.7	29 04	"	"	"	+26.3	00 54	01 12	3	02
17383	" 170738	18 25.9	25 42	"	"	"	+26.1	01 16	01 34	4	1 04
17384	" 173909	18 42.8	27 23	"	"	"	+26.1	01 36	01 52	1	05W
17385	AG 9949	19 21.3	25 31	"	"	"	+26.1	01 56	02 16	2	0 51W
17386	" 9950	19 21.3	26 09	"	"	"	+26.1	02 18	02 34	3	0 9W
17387	HD 185241	19 33.1	27 58	"	"	"	+26.1	02 39	02 59	4	22W
17388	AG 10315	19 39.0	27 44	"	"	"	+26.0	03 02	03 120	1	39W
17389	HD 189884	19 57.2	26 54	"	"	"	+26.0	03 22	03 32	2	32W
	FOCUS TEST	O.	T.B.	✓							

Dome Temp. 72
 Focus 12.940
 Dome Temp. +67°F

Transparency Conditions *Fair*

288

*clocks running early.
 Haze in West coming up at 01:30*

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 20	0 ^h 59 ^m W	+28° 15'	0	8.14	Ko	1-1-1	AG 25	weak
23 27	1 06	+29 06	0	8.98	G0	1-1-1	" "	much too weak
00 06	0 38 W	+26 49	0	8.51	G5	1-1-1	" " we focused at 00:00	entry
00 30	0 37 W	29 59	0-1	8.54	Ko	1-1-1	" "	fine
00 50	0 43 W	26 24	0-1	7.73	Ko	1-1-1	" "	l weak
01 23	1 02 W	29 03	1-2	8.57	G5	1-1-1	" "	fine
01 34	1 04 W	25 45	1-2 ³	8.79	G5	1-1-1	" "	fine
01 52	1 05 W	27 27	2-3	8.63	Ko	1-1-1	" "	fine
02 16	0 51 W	25 37	2-3	8.98	Ko	1-1-1	" " (sandip)	good
02 34	1 09 W	26 14	2-3	8.84	Ko	1-1-1	" "	good
02 59	1 22 W	28 04	2-3	8.82	Ko	1-1-1	" "	fine
03 20	1 38 W	29 50	? 0	8.99	G0	1-1-1	" " Haze poor finding	—
03 32	1 32 W	27 03	2-3	8.23	K2	1-1-1	" " Plate upside down	—
June 28		MC ^s +47.2	SC ^s -13.8	MTW ^s +11.2	STW ^s -0.9	SW ^s -78.8	9 PH6 loaded, new line needed	
June 26		MC ^s +47.8	SC ^s -21.5	MTW ^s +63.8	STW ^s 0.2	SW ^s -58.8		
27				+08 ^s	-0.1 ^m		watch reset (both found 1 st fast)	

Dome Temp... +74 F

Focus... K 940

Dome Temp... +56 F

Transparency Conditions

Clouds at first. 290
clearing in zenith but
hazy. Thunderheads
about.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 56	1 W 1 25	25 14	0	8.84	G5	1-1-1	moonlight, haze, lightning, aurora, clouds.	v good
02 10	2 O 29 W	30 03	0	8.42	K0	1-1-1	Closed 23 25	
03 12	3 O 50 W	29 59	0	8.73	G0	1-1-1	Opened up 02 30 (daylight time) Full moon, cloud at end	
03 44	4 O 24 W	29 18	0	8.21	G0	1-1-1	3 1/2 P.H. loaded 8 in box.	
							June 30 ^{nc} +4.6.4 ^{sc} +16.4 ^s +19.4 ^{HTW} +18.1 ^{STW} -74.8	

291

← ✓ ?

Date Fri-Sat June 30-Jul 1 Observer R Julian Day 2433463

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17393	HD 174369	18 ^h 45. ^m	+24° 56'	I-25	E103A0	0.008	+18.3	00 ^h 44 ^m	00 ^h 58 ^m	2
17394	" 178798	19 ^h 04. ^m	+30° 08'	"	"	"	+18.2	01 05	01 36	2
17395	" 200391	20 58.1	+27 24	"	"	"	+18.2	01 45	02 35	2
17396	" 206773	21 39.3	+57 17	"	"	"	+18.2	03 55	04 13	2
	FOCUS TEST		0.1 B							
<p>Sat July 1 - 2/50 Ba Su Haye, about 50 visitors Showed ♂ with 5" ♀ Her with 7"</p>										

Dome Temp. 67

Focus 15.709

Dome Temp.

Transparency Conditions

Overcast m. 24:00. ~~292~~ 292
clearing 24:00-24:30 in north & south.

Fri. June 30 changed to 25" camera
12 1/2" was Tilt-20-27 Focus-12.940

25" is Tilt-23-18 Focus-15.708

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 ^h 29 ^m W	+25° 00'	0.6-6.2	A2	m	- -		good
0 ^h 47 ^m W	+30 14	0.7-7.7	K5		- -		good
0 ^h 14 ^m E	+27 40	0.8-1.2	G0		- - -	Fuse blew in gear. NOT NUMBERED	fine
0 ^h 50 ^m W	+57 30	0.7-0.0	B0		- - -	sky spectrum superposed. 3 PH loaded, 4 in box.	2 exposures - too str - good
						NO FOCUS TEST	
						Focus Test Plate { 15.688 15.708 ← Best 15.728	
						Exposures could be a little stronger.	

Dome Temp... +62°F

Transparency Conditions

294

Focus... 15.680

Dome Temp... +60°F

Clouds and haze first half, fairly clear at Midnight

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																					
01 08 20 31 W	+23 15	0	6.9	B ₃₂	1-1-1	Be	r wk																					
01 42 30 43 W	+18 11	0	6.9	B _{90ed}	1-1-1	" Heavy clouds closed in at 01 45.	v wk																					
1 PH loaded, 4 plates in box.																												
<table border="0"> <tr> <td></td> <td>mc</td> <td>sc</td> <td>MTW</td> <td>STW</td> <td>sw</td> <td></td> </tr> <tr> <td>July 3</td> <td>+46.2</td> <td>-18.7</td> <td>+33.2</td> <td>-0.3</td> <td>-13.9</td> <td></td> </tr> <tr> <td>July 4</td> <td>+47.4</td> <td>+41.1</td> <td>-25.6</td> <td>-0.8</td> <td>+7.5</td> <td></td> </tr> </table>								mc	sc	MTW	STW	sw		July 3	+46.2	-18.7	+33.2	-0.3	-13.9		July 4	+47.4	+41.1	-25.6	-0.8	+7.5		
	mc	sc	MTW	STW	sw																							
July 3	+46.2	-18.7	+33.2	-0.3	-13.9																							
July 4	+47.4	+41.1	-25.6	-0.8	+7.5																							

295

Date Wed July 5-6 1950 Observer A. R. (Ma) - G. U. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
17399	H.D. 174369	18 45.1	+24 56	I-25	103a-0	.008	21.8	22 24	23 08	4	103E+2
17400	154528	17 00.9	+77 48	"	"	"	20.8	23 20	23 50	1	129W+7
17401	HD 200391	20 58.1	+27 24	"	"	"	21.8	00 01	01 05	2	120E
17402	HD 183143	19 23.0	18 05	"	"	"	21.8	01 12	01 34	3	0.4
17403	HD 208835	21 53.9	+46 23	"	"	"	21.8	01 46	02 30	4	0.55E+4
17404	HD 200391	20 58.1	27 24	"	"	"	21.5	02 37	03 37	1	
	(FOCUS TEST	O. T. B.									

Dome Temp. 61
Focus 15.78
Dome Temp. 59

Dome Temp. 64° F

Focus. 15.739

Dome Temp. +57° F

Transparency Conditions. Cloudy - clearing 21:30²⁹⁶
considerable haze, seeing very poor

Ending Time L.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 59	4	1 03 E	+24 57	0	6.66	A _{2n}	1-1-1	} doubled Occasional clouds, add 10 min exposures +0.2 mag for haze	
23 50	1	1 28 W	+77 42	0	6.62	A ₀	1-1-1		
01 05	2	1 20 E	27 35	0	8.12	G ₀	1-1-1	A _G 25	
01 30	5	0 46 W	18 12	0-1	6.9	B _{90ed}	1-1-1	Be program	
01 40	4	0 55 E	+46 37	<0	7.37	B ₈	1-1-1	3	
01 57	1		27 36	1	8.12	G ₀	1-1-1	A _G 25	
								6/4	
								3 PH's loaded, 8 plates in E box	
								July 6 HC ⁵⁶ SC ⁵ M1W ⁵ MSTW ⁵ SW ⁵ +46.4 +46.6 -16.4 -0.6 +13.5 -22.0	

297

Date Shurs 6/7 July 50 Observer Bae - R Julian Day 2433.469

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17405	HD 144287	16 00.0	25 30	125'	103aD	6x .008	21	20 47	21 17	4
17406	154528	17 00.9	77 48	"	"	"	21	21 32	21 50	3
17407	MWC 278 164284	17 55.7	4 22	"	"	"	20.5	22 04	22 08	2
17408	154510	17 00.8	28 14	"	"	"	20.5	22 18	22 52	1
17409	MWC 307 174886	18 47.7	-10 21	"	"	"	21	23 02	00 04	2
17410	HD 198478	20 45.5	+45 45	"	"	"	+21.0	02 33	02 37	3
17411	" 206773	21 39.3	+57 17	"	"	"	+21.0	02 51	03 11	4
17412	" 208682	21 52.9	+64 52	"	"	"	+21.1	03 20	03 30	1
	FOCUS TEST	O.T.B.								

 Dome Temp. 6
 Focus 15.72
 Dome Temp. 6
Hour Angle
End

Dome Temp. 68

Focus 15.720

Dome Temp. 60

Transparency Conditions scattered cloud stage 298
 Cloudy most of latter half.

Ending Time L.S.T.	P.S.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
217	4	00 05E	25 23	0	7.48	CO	1-1-1	- A.G.	fine										
2450	3	00 28E	77 42	0	6.66	AO	1-1-1	Special Prog. Considerable haze in front											
2711	2	01 10E	4 22	0	4.8	B _{SNR}	1-1-1	Be Prog.	fine										
282		00 24W	28 10	0+	7.56	KO	1-1-1	A.G.	good										
304		00 07E	-10 18	0	8.1	B _{3e}	1-1-1	Be Prog. some cloud near end of exp	weak										
037	3	00 30W	+45 56	0	4.9	B _{2e} Be	1/2-1/2	No clouds to continue - R. Weather clearing by 2 nd - 2 1/2 ^h	good										
1314		0 10W	+57 28	0	7.0	B _{0ne} Be	1-1-?	Cloudy	weak										
0320		0 17W	+65 04	0	5.8	B _{3ne} Be	1-1-1		l wk										
							10-7.												
								No centre exp.											
								<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>NTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>+46.8</td> <td>-24.9</td> <td>-11.2</td> <td>-0.5</td> <td>+12.5</td> </tr> </table>	MC	SC	NTW	STW	SW	+46.8	-24.9	-11.2	-0.5	+12.5	
MC	SC	NTW	STW	SW															
+46.8	-24.9	-11.2	-0.5	+12.5															

299

Date Fri 7/13 July 50 Observer Bra - Gu Julian Day 3470

Dome Temp. 74
Focus 15.795
Dome Temp. + 6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17913	HD 126009	14 17.9	29 51	E-25'	103-0	.008	25.5	2043	2138	3
17914	126598	14 21.4	26 43	"	"	"	25.8	2141	2200	2
17915	178798	19 04.9	30 08	"	"	"	25.8	2311	2351	4
17916	200391	20 58.1	27 24	"	"	"	25.8	23 59	01 15	1
17917	190228	19 58.9	28 02	"	"	"	25.5	01 19	01 45	2
17918	208835	21 53.9	+46 23	"	"	"	25.5	01 52	02 24	3
17919	{ 200391	20 58.1	27 24	"	"	"	25.5	02 28	03 42	4
	{ FOCUS TEST		O. T. B.							

Hour Angle
End
02 01 W
03 20 W
1 38 W
1 07 E
0 38
0 50 E
1 27 W

Dome Temp. 74.....

Transparency Conditions Good.....

300

Focus 15.795.....

Dome Temp. + 69°F.....

Ending Time R.A.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:38	3	0201W	29 37	0	7.94	M3	1-1-1	AG	fine
2:50	2	0320W	26 30	0	8.51	K5	1-1-1	"	l wash
2:51	4	1 38 W	30 12	0	7.77	K5	1-1-1	"	good
01:5	1	1 07 E	27 36	0+	8.12	G ₀	1-1-1	" 25	fine
01:45	2	0 38 W	28 09	0-1-2	7.78	G ₅	1-1-1	" 25	good
2:22	3	0 50 E	46 37	1-2	7.37	B8	1-1-1	3	good
02:42	4	1 27 W	27 36	1	8.12	G ₀	1-1-1	AG 25	fine
								6/4 OK	
								9 PH1's loaded, 4 min loss.	

Dome Temp. 72° F

Focus 15.815

Dome Temp.

Transparency Conditions Clear

302

About 150 visitors; showed π Boo., M13 with 74-inch Saturn and Mars with 4-inch. Gr. N.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 07 E	+24 59	1-2	6.62	A _{2n}	1-1-1	Prog. 16 Binary	
01 21 W	+26 42	1-3	8.96	K ₀	1-1-1	AG 25	good
01 07 W	+25 03	1	6.9	B _e ⁵	H-1	Be prog.	fine
00 59 W	+25 00	1	6.62	A ₂	1-1-1	AG 25 Binary	fine
01 25 W	+59 57	1	6.9	B _e ⁴	1-1-1	Be prog.	fine
00 58 W	+15 22	1	8.00	M ₁	1-1-1	AG 25 Binary	dark
01 36 W	+46 50	0-1	7.7	B _e ³	H-1	Be Prog.	fine
00 44 W	+46 37	1	7.37	B ₈	1-1-1	AG 25 Binary	
					10-7		
4 P. H. loaded, 8 in box July 12 ^{nc} +46.6 ^{sc} -24.5 ^{MTW} +19.6 ^{STW} 0.00 ^{SW} +7.5							

303

Date ^{Wed.} July 12-13, 1950

Observer

G. G. S.

Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17428	NGC 6218	16 44.6	-01 52	NEWT	E10300	—	—	22 08 ³⁵	22 12		233A
17429	" 6254	16 54.5	-04 02	"	"			22 16 ⁰⁰	22 19		233A
17430	" 6366	17 25.1	-05 02	"	"			22 27 ⁰⁰	22 47		26W
17431	" 6838	19 51.3	+18 38	"	"			22 52 ⁰⁰	23 00		47E
17432	" 6779	19 14.6	+30 05	"	"			23 05 ³⁰	23 13		56E
17433	" 6838	19 51.3	+18 38	"	"			23 36 ⁴⁵	23 44		03E
17434	" 6934	20 31.7	+07 14	"	"			23 56 ⁰⁵	00 10		16E
17435	" 6838	19 51.3	+18 38	"	"			00 14 ³⁰	00 18 ⁴		18E
17436	" 6838	19 51.3	+18 38	"	"			00 25 ¹⁵	00 31		15E
17437	" 6712	18 50.3	-08 47	"	"			00 35 ³⁵	00 48 ¹⁵		12W
17438	" 6934	20 31.7	+07 14	"	"			00 54 ⁰⁰	01 10		17E
17439	" 6838	19 51.3	+18 38	"	"			01 22 ⁴⁰	01 30		14W
17440	" 6934	20 31.7	+07 14	"	"			01 34 ³⁵	01 48		12W
17441	" 7089	21 30.9	-01 03	"	"			01 52 ⁵⁵	01 55		10E
17442	" 6838	19 51.3	+18 38	"	"			02 00 ⁵⁵	02 06		11W
17443	" 6934	20 31.7	+07 14	"	"			02 17 ³⁰	02 29		14W

Dome Temp.

Focus

Dome Temp.

Hour Angle
End

Dome Temp. +74°F

Transparency Conditions

304

Focus.....

Dome Temp.....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:2		0 33 W						Focused on β Ophiuchi	
1:8		0 28 W							
1:4		0 26 W						Faint guide star	
1:43		1 47 E							
1:12		0 56 E						Landing over - guide star gone at 23 07 ^h then returning + being intermittently	
1:32		1 03 E						← Focused on Altair	
1:43		1 16 E							
1:47		0 28 E						trouble with clock - not following properly - cutoff stop	
1:52		0 15 E							
1:54		1 03 W							
1:10		0 17 E						← Focused on Altair	
1:36		0 44 W							
1:44		0 22 W							
1:55		0 30 E							
1:58		1 20 W						seeing good ← Focused on Altair.	
1:24		1 04 W							

307.

Date *Thurs July 13-14, 1950* Observer *S-L-Ma* Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Star Angle End
17448	NGC 5904	15 16.0	+02 16	Newt	E-103a-0	-	-	21 23	21 25	1	7.5
17449	5897	15 14.6	-20 49	"	"	-	-	21 30	21 38	2	32 W
17450	6366	17 25.1	-05 02	"	"	-	-	21 41	21 49	1	28 E
17451	5897	15 14.6	-20 49	"	"	-	-	21 53	22 01	2	55 V
17452	6093	16 14.1	-22 52	"	"	-	-	22 05	22 09	1	03 W
17453	6838	19 51.3	+18 38	"	"	-	-	22 15	22 19	2	24 E
17454	6366	17 25.1	-05 02	"	"	-	-	22 23	22 31	1	15 W
17455	6356	17 20.7	-17 46	"	"	-	-	22 36	22 44	2	30 W
17456	6235	16 50.4	-22 06	"	"	-	-	22 47	23 11	1	23 W
17457	6838	19 51.3	+18 38	"	"	-	-	23 19	23 23	2	20 E
17458	6934	20 31.7	+07 14	"	"	-	-	23 28	23 36	1	47 E
17459	6712	18 50.3	-08 47	"	"	-	-	23 44 ⁴⁵	23 54 ⁴⁵	2	13 W
	KA. 110	18 39.5	+00 03	"	"	-	-	23 57 ⁰⁵	00 07 ⁰⁵	2	36 W
17460	KA. 110	18 39.5	+00 03	"	"	-	-	00 08 ³⁷	00 22 ³⁷	1	51 W
	I.C. 1276	18 07.5	-07 15	"	"	-	-	00 28 ²⁸	00 42 ²⁸	1	44 W
17461	NGC. 6934	20 31.7	+07 14	"	"	-	-	00 46	00 54	2	39 E

Dome Temp. $+63^{\circ}\text{F}$

Transparency Conditions

Good

308

Focus.....

Dome Temp.....

Ending Time E.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 55	1	44E		Poor				Focused S Ophiuchi	
21 58	2	32 W		"					
21 49	1	28 E		"					
22 01	2	55 W						← Refocused on nearby star. numbered after removing from plate holder.	
22 09	1	103 W							
22 19	2	24 E							
22 31	1	15 W		V. Poor					
22 44	2	30 W							
23 11	1	29 W							
23 23	2	20 E							
23 35	1	47 E						← Focused on Altair	
23 54 ⁴⁵	2	13 W							
20 57 ⁵⁵	0	36 W							
00 22 ³⁷	1	51 W							
00 42 ⁴⁵	1	44 W							
00 54	2	29 E							

Dome Temp.....

Transparency Conditions.....

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 0	19 W							
01 9	22 24 W							
01 29	2 16 W							
01 56	2 11 W							
02 06	2 18 W							
02 41	0 58 W						20 secs Dec trail. closed shutter - at end of exp. noted shutter didn't open Clock not driving well at times. } reset motion	
02 53	1 31 W		Better				" " " " " " } on both.	
03 01	2 19 W						July 14/50 HC SC HTW SW SW +46.8 -33.6 +28.8 +0.1 +1.5	
03 08	0 48 W							
03 13	0 51 W						Very cold the last half of night. Outside temp 48°. Focussed several more times than has been noted in records. Seeing very poor & focus hard to get.	

Date Fri Jul 14-15, 1950 Observer S-Ho-Gu-Gr Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
17472	NGC 5904	15 16.0	+2 16	NEWT	E10320	—	—	21 ^h 22 ^m ¹⁵	21 24 ^m ¹⁵		20W
17473	" 5897	15 14.6	-20 49					21 ^h 28 ^m ⁸	21 36		33W
17474	5634	14 27.0	-5 45					21 46 ^m ³	21 54		40W
17475	5897	15 14.6	-20 49					21 56 ^m ⁵⁷	22 04		62W
17476	6366	17 25.1	-5 02					22 10 ^m ⁰⁰	22 18		09W
17477	{ 6426	17 42.4	+3 12					22 26 ^m ¹³	22 42		13W
	{ K.A. 109	17 42.5	-0 11					22 51^m⁰⁸	22 55		53W
17478	6093	16 14.1	-22 52					22 51 ^m ⁵⁸	22 55		53W
17479	6356	17 20.7	-17 46					22 58 ^m ³⁴	23 06 ^m ⁰⁸		58W
17480	6838	19 51.3	+18 38					23 19 ^m ²¹	23 22 ^m ²⁸		06E
17481	6934	20 31.7	+7 14					23 37 ^m ²⁸	23 45		34E
17482	6712	18 30.3	-08 47					23 49 ^m ¹⁴	23 59 ^m ⁴		22W
17483	I.C. 1276	18 07.5	-07 15					00 08 ^m ⁴⁴	00 28 ^m ⁴⁵		134W
17484	{ 6544	18 04.3	-25 01					00 41 ^m ⁴⁵	00 53 ^m ⁴⁵		02W
	{ K.A. 134	18 12.8	-14 59.5					00 56 ^m ²⁵	01 08 ^m ²⁵		09W
17485	6626	18 21.5	-24 54					01 12 ^m ³³	01 16 ^m ³³		08W

Dome Temp. 6
Focus
Dome Temp.

Dome Temp. 62 F.

Transparency Conditions

312

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Focussed on δ Oph.	
21 24	1 20 W.						Seeing improved over last night.	
21 36	1 33 W.							
21 54	2 40 W						Seeing very good	
22 04	2 02 W							
22 18	2 05 W						Focussed afterwards on star in the field	
22 22	2 13 W						← { bygone plate No. A 109 Possible that the dome cut off part of the telescope's field	
22 35	2 53 W							
22 45	1 53 W							
23 06	2 58 W						← { 10 ^s interruption } due to running to end of motion Oiled grease from the slow motion gears.	
23 22	0 06 E						← { Gear 2nd from left was sticking. The spring was tightened & a chase would help	
23 45	1 34 E		Seeing not so good				← { 20 ^s det. trail at end - Seeing not so good. focussed after on { δ Aqu. - 19 ^h 32 ^m + 13 ^s + 6	
23 59	2 22 W							
01 04	1 34 W		poorer seeing					
01 03	2 02 W							
01 08	2 09 W							
01 12	2 08 W							

Date *Fri July 15 - Cont.* Observer *S. G. G. Ho* Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17486	NGC 6656	18 33.3	-23 58	Newton	F103a0			01 19 ⁵³	01 12.2 ⁵³	
17487	6838	19 51.3	+18 38					01 28 ¹⁸	01 32.8 ¹⁸	
17488	6934	20 31.7	+07 14					01 39 ²⁶	01 47 ¹⁸	
17489	6717	18 52.1	-22 47					01 52	02 12	
17490	6981	20 50.7	-12 44					02 15 ²⁰	02 33	
17491	6981	20 50.7	-12 44					02 35 ²¹	02 51	
17492	7089	21 30.9	-01 03					02 54 ¹⁷	02 55	
17493	6934	20 31.7	+07 14					02 59 ²⁵	03 07	
17494	6838	19 51.3	+18 38					03 11 ¹⁴	03 15	
17495	7078	21 27.6	+11 57					03 20 ⁰⁵	03 20 ⁰⁵	

Dome Temp.

Focus

Dome Temp.

Star Angle
End

03W

154W

128W

133W

158W

13W

137W

148W

137W

07W

Dome Temp.....

Transparency Conditions

314

Focus.....

Dome Temp.....

Ending Time L.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:22 ⁵³		2 03 W							
01:32 ⁸		0 54 W						Focussed on Altair 19 ^h 48. ^m 37 ^s + 8° 44' ^m	
01:47		0 28 W							
02:12		2 33 W							
02:33		0 53 W						10 ^s interruption due to gear	
02:51		1 13 W							
02:55		0 37 W							
03:07		0 48 W							
03:15		0 37 W							
03:21		0 07 W							

Date Sat July 15/16 1950 Observer Ba. R Julian Day 2433478

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17496	^{HVS} 154510	17 00.8	28 14	2.25"	E103aD	.008	22.5	22 37	23 20	1
17497	174369	18 45.1	24 56	"	"	"	22.5	23 24	23 4	2
17498	174695	18 46.7	28 25	"	"	"	22.5	23 50	00 26	3
17499	200 391	20 58.1	+27 24	"	"	"	+22.2	00 34	01 23	4
17500	208 835	21 53.4	+18 28	"	"	"	+22.2	01 47	02 25	1
17501	208 6830	21 ^{52.9} 54.2	+64 52	"	"	"	+22.3	02 34	02 46	2
17502	217 850	22 52.7	+18 09	"	"	"	+22.2	02 54	03 02	3
17503	200 391	20 58.1	+27 24	"	"	"	+22.2	03 15	04 15	4
	FOCUS TEST		O.T.B.							
	~ 13" beyond down limit.									
	Monday July 17-18 1950 N.L.									
	showed about 80 Art + Craft group & Merc. through passing cirrus.									

Dome Temp. 51
Focus 15.74
Dome Temp.

Error Angle End

01 34

00 14

00 14

01 52

01 10

01 34

02 34

Dome Temp. 62
 Focus 15.745
 Dome Temp.

Transparency Conditions *Some haze*
 About 175 visitors were shown with 74" K1000
 on 5/1, with 6" ♂

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
2320	0134W	28 10	0	7.56	K0	1-1-1	AG Sat 7.55 <i>power started about 10:00</i>	<i>weak</i>												
	0014W	25 00	1	6.62	Azn	1-1-1	<i>Transparency improved</i>	<i>poor guiding</i>												
	0054W	28 28	1	7.85	K0	1-1-1	AG <i>Waning again</i>	<i>weak</i>												
	0005E	+27 38	0-1	8.12	G0	1-1-1	AG 25 <i>Trouble with</i> <i>fogged</i>	<i>good</i>												
	0041W	+13 37	0-1	7.37	B8	1-1-1	<i>Mag 3, 3.5</i> <i>poor guiding</i>	<i>fine</i>												
	0009W	+65 04	0-1	5.8	B3 _{ne}	1-1-1	<i>BE Mag</i> <i>POOR GUIDING</i>	<i>weak to weak</i>												
	0036E	+48 28	0-1	5.2	B3 _{ne}	1-1-1	<i>BE Mag</i> <i>POOR GUIDING</i>	<i>—</i>												
	231W	+27 37	0	8.12	G0	1-1-1 10-7	AG 25 <i>Fog, cloudy</i> <i>poorly</i> <i>planned</i> <i>guiding</i>	<i>too weak</i>												
							<i>404 <u>used</u></i> <i>part of one comp. at alt. 9'</i>													
							<table border="0"> <tr> <td></td> <td>40</td> <td>54</td> <td>HTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>July 17</td> <td>+46.8^s</td> <td>+4.8^s</td> <td>-16.2^s</td> <td>0.0^m</td> <td>-18.0^s</td> </tr> </table>		40	54	HTW	STW	SW	July 17	+46.8 ^s	+4.8 ^s	-16.2 ^s	0.0 ^m	-18.0 ^s	
	40	54	HTW	STW	SW															
July 17	+46.8 ^s	+4.8 ^s	-16.2 ^s	0.0 ^m	-18.0 ^s															

13" beyond down limit

Date July 18-19/50 June Observer S-L.G.F.-Gr Julian Day

Plate No.	Object	R.A. 1900 ⁵⁰	Declination 1900 ⁵⁰	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Error Angle End
17504	N.G.C 5904	15 16.0	+2 16	Newt	E105a-D	-	-	21 16	21 18	1	29W
17505	" 6218	16 44.6	-1 52	"	"			21 22	21 26	2	08W
17506	" 6254	16 54.5	-4 02	"	"	-	-	21 29	21 32	1	05W
17507	" 5897	15 14.6	-20 49	"	"			21 36	21 48	2	01W
17508	" 6366	17 25.1	-05 02	"	"			21 53	22 05	1	07W
17509	" 6356	17 20.7	-17 46	"	"			22 10	22 22	2	29V
17510	" 6093	16 14.1	-22 52	"	"			22 25	22 29	1	47W
17511	" 6838	19 51.3	+18 38	"	"			22 34	22 38	2	46E
17512	" 6426	17 42.4	+03 12	"	"			22 53	23 17	1	32V
17513	" 6838	19 51.3	+18 38	"	"			23 22 ³⁰	23 26	2	58-
17514	" 6934	20 31.7	+7 14	"	"			23 34	23 41	1	30E
17515	" 6779	19 14.6	+30 05	"	"			23 52 ³⁰	23 56	1	0W
17516	" 6535	18 01.3	-00 18	"	"			00 01	00 17	2	44W
17517	" 6838	19 51.3	+18 38	"	"			00 21	00 27	1	54W
17518	" 6626	17 1.5	-24 54	"	"			00 35 ¹⁰	00 41	2	42W
17519	" 6656	18 33.3	-23 58	"	"			00 44 ²¹	00 48	1	43N

Dome Temp

Focus

Dome Temp

Error Angle
End

Dome Temp. 68°F

Transparency Conditions _____

318

Focus _____

Dome Temp. _____

Ending Time L.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 13	1 129 W		fair				Focussed on α Serpentis	
21 26	0 08 W							
21 32	0 05 W							
21 45	2 01 W						Haze Image guide star gone near end.	
22 01	0 07 W						← Refocussed on star in field	
22 22	0 29 W							
22 49	1 43 W		poor				Haze thickening	
23 01	1 46 E						Haze	
23 08	1 02 W						Clouds. 20 s Dec TRAIL	
23 31	0 58 E						← Refocussed on Altair	
23 41	1 20 E		poor					
23 51	0 10 W							
24 01	1 44 W		v. poor				transparency deteriorating } 20 sec dec trail	
24 08	0 04 W						base of cloud	
24 22	1 42 W						"	
24 31	1 43 W						"	

Dome Temp.

Transparency Conditions

320

Focus

Dome Temp. 59.0 F

Ending Time EST.	P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 00								transparency improved considerably ← focused on Altair	
01 21		0 20 W							
01 32		1 09 W							
01 36 ¹⁵		0 23 E							
01 44 ¹⁵		0 20 E							
01 55		0 52 W						light cloud passing over	
02 03		1 40 W						"	
02 23		1 05 W						"	
								1 P.H. backd. 2 plates in box.	
								NC SO HTW STW SW July 19 +43.6 -28.6 -06.4 -0.3 -47.5	

32

Hurs

Date July 20-21, 1950

Observer S-G-M

Julian Day

Plate No.	Object	R.A. 1900 1950	Declination -1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17528	NGC 6254	16 54.5	-04 02	NEWT	E10300	-	-	21 19 ³⁰	21 23	2
17529	" 6366	17 25.1	-05 02	"	"	-	-	21 28 ²⁰	21 44 ⁰⁰	1
17530	" 6838	19 51.3	+18 38	"	"	-	-	21 54 ⁴⁰	21 58	2
17531	" 6426	17 42.4	+03 12	"	"	-	-	22 13 ⁵	22 31	1
17532	" 6093	16 14.1	-22 52	"	"	-	-	22 35 ³⁰	22 39	2
17533	" 6235	16 50.4	-22 06	"	"	-	-	22 42 ¹⁰	23 06	1
17534	" 6838	19 51.3	+18 38	"	"	-	-	23 10 ²⁵	23 14	2
17535	" 6934	20 31.7	+07 14	"	"	-	-	23 20 ¹⁰	23 28	1
17536	{ " 6535	18 01.3	-00 18	"	"	-	-	23 34 ³²	23 46	1
	{ K.A. 110	18 39.5	+00 03	"	"	-	-	23 48 ⁴⁶	00 00	1
17537	NGC 6544	18 04.3	-25 01	"	"	-	-	00 04 ⁰⁰	00 18	1
17538	" 6626	18 21.5	-24 54	"	"	-	-	00 20 ³⁵	00 24	2
17539	" 6656	18 33.3	-23 58	"	"	-	-	00 27 ³⁵	00 30	1
17540	IC 1276	18 07.5	-07 15	"	"	-	-	00 41	01 01	2
17541	6712	18 50.3	-08 47	"	"	-	-	01 02 ³⁵	01 10	1
17542	6838	19 51.3	+18 38	"	"	-	-	01 14 ²⁰	01 18	1

Dome Temp. 65°F

Transparency Conditions Cloudy in S-W 322

Focus —

Dome Temp. —

N. Gr. Ma. demonstrated telescope for 2 1/4 5 Normal until about 23:00
School teachers. C shown with 4-inch on laws. All away by dark.

Ending Time L.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 23							Focused on ϵ Serp.	
							Cloudy in S & SW so must go east	
21 44	0 05 E							
21 58	2 18 E						← Focused on Altair	
22 31	0 24 W							
22 34	2 01 W							
23 06	51 W							
23 14	0 01 E							
23 28	2 28 E						← Focused on Altair	
23 41	2 21 W							
00 00	0 57 W							
00 08	50 W		not too good					
00 24	1 38 W							
00 31	1 33 W						← Focused on η Serpente	
01 01	2 24 W							
01 10	56 W		v. poor					
01 18	1 03 W							

Dome Temp.

Transparency Conditions

324

Focus

Dome Temp. 59°F

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality	
01 24	34W								
01 32	37W						20 sec. dec trail. Focused on star in field		
02 5	01W								
02 19	25W								
02 30	35W								
02 33	43W								
02 35	45W								
03 08	46W								
03 17	02W								
3 plates left in box.									
July 21.							$\begin{matrix} MC & SC & HTA \\ +44.8 & -29.3 & -00.2 \end{matrix}$	$\begin{matrix} STW \\ m \\ -0.7 \end{matrix}$	$\begin{matrix} SW \\ -0.6^S \end{matrix}$

325

Date Friday - Sat July 21/22 ¹⁹⁵⁰ Observer G. - R Julian Day 2433484

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
17552	RS Vulp	19 ^{13.4} 16	+22 ¹⁶ 22	I-25"	103a-0	^{set} 008	+24.0	20 50	21 20	1
17553	HD 149142	16 27.8	29 ²⁶ 8 ¹⁵	"	"	"	+23.8	21 27	22 07	2
17554	" 150205	16 34.4	29 52	"	"	"	+23.2	22 11	22 47	3
17555	" 151369	16 41.9	26 13	"	"	"	+23.0	22 51	23 55	4
17556	" 159998	17 32.3	25 41	"	"	"	+22.0	23 58	00 36	1
17557	RS Vulp	19 ^{13.4} 16	+22 ¹⁶ 22	"	"	"	+21.3	00 46	01 10	2
17558	" 178 029	19 02.0	+29 11	"	"	"	+21.3	01 22	02 24	3
17559	" 174 369	18 45.1	+24 56	"	"	"	+20.6	02 30	02 50	3
17560	" 208 835	21 53.9	+46 23	"	"	"	+20.2	03 01	03 41	1
FOCUS TEST O.T.B.										

Dome Temp. +70°F
 Focus... 15.798
 Dome Temp. +63°F

Transparency Conditions... Good
 scattered light cloud 22:30

326

Ending Time E.S.T.	Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:30	2	16E	+22 22	1	7.6	-	1-1-1	Eclipsing variable	wk
22:27	1	16W	26 10	1-2	8.27	G5	1-1-1	AG 25	too wk
22:47	1	50W	29 45	1-2	8.07	G5	1-1-1	" "	wk
23:15	2	50W	26 07	0-1	8.89	G5	1-1-1	" "	too wk
00:36	2	42W	25 39	1-2	8.18	K0	1-1-1	" "	wk
01:00	1	35W	+22 22	1	7.2	-	1-1-1	Eclipsing variable. Finders crosswires out of focus.	Good
02:24	03	00W	+29 15	1	8.70	K0	1-1-1	AG 25	comp wk poor
02:50	03	43W	+24 59	0-1	6.62	A2m	1-1-1	16	good
03:41	01	25W	+46 36	0	7.37	B8	1-1-1	3	guiding ok good
							10, 7.	3 P.H. loaded, 4 in box.	
<p>Sat. Jul. 22-23. Mostly cloudy. Demonstrated telescope, showed slides + finally showed C, 3 with 4-inch for about 50 visitors. N, G, G.</p>									

Dome Temp. +70°F
 Focus 15.755
 Dome Temp. +65°F

Transparency Conditions *Just so hot.*
light cloud toward the end of the night
also a fine haze.

328

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 29	10 17W	+46 36	0-1	7.37	B8	1-1-1	3	
02 55	20 58W	+57 29	0-1	7.0	B _{one}	1-1-1	Be prog.	v. wk
03 45	31 40W	+28 31	0	8.20	G5	1-1-1	AE 25 seeing very poor at times Hazy about on lead plate. 4 pit's loaded. new box needed.	v. wk

Dome Temp. 67°F
 Focus 15.738
 Dome Temp.

Transparency Conditions Cirrus to south, otherwise clear

497

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 08	1 18 E	+22 22	0-1	7.6	B8	1-1-1	{ special prog. for Baglow. flexure some plate used as on July 23-24/1950, set at 8. Prog 13	
22 31	1 27 W	+77 43	1	6.66	A0	1-1-1	{ Occasional cirrus clouds passing over ^{pr. guiding}	vgood
23 09	0 18 W	+24 59	1-2	6.62	A2n	1-1-1	More clouds (+0.4 mag) Prog 13	fine
23 45	0 22 W	+28 28	1-2	8.22	K0	1-1-1	AG 25. clouds to south, haze overhead?	good
23 28	01 37 E	+46 37	2	7.37	B8	1-1-1	Prog. 3	fine
23 31	01 13 W	+25 45	2	8.72	K5	1-1-1	AG 25 Quite cloudy.	weak
23 40	00 02 W	+65 03	1	5.8	B3me	1-1-1	Be Prog.	strong
23 47	01 23 W	+38 26	1	6.4	B3me	1-1-1	Be Prog. Sky clearing - guiding	(fine)
23 50	00 07 W	+27 55	1	8.44	K2	1-1-1	AG 24 3. Getting cloudy.	weak
23 50	03 02 W	+27 36	1	8.12	G0	1-1-1	AG Prog. cloudy. Too cloudy for a good plate. 10.7. 2PH loaded, 4th box.	

July 26
 HC +44.6
 SC -29.2
 HTW +23.6
 STW +0.22
 SW -52.0

Dome Temp. 72° F

Transparency Conditions Stage at horizon

334

Focus 15770

Dome Temp.

33489

Ending Time
L.S.T.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 24	1 23 E	+25 00	0-1	6.62	A ₂₁	1-1-1	16	strong
22 11	1 12 W	+77 42	0	6.66	A ₀	1-1-1	13 (guide)	strong
22 56	0 29 E	+18 13	1	6.9	B ₉ sed	1-1-1	MWC 317 Be PROG.	good
23 52	0 11 E	+15 22	1	8.00	M ₁	1-1-1	16 guiding	(faint)
00 31	0 02 W	+44 08	1	7.2	B ₁ oc	1-1-1	Be prog. MWE 347. few clouds.	good
01 25	0 54 W	+24 41	1-2	8.19	G ₅	1-1-1	AG 25	dark
02 2	0 25 W	+46 36	1-2	7.37	A ₀	1-1-1	3 bank of clouds to south west + few in zenith	too strong
03 05	0 33 W	+26 20	2	8.07	K ₂	1-1-1	AG 25 { RA guiding fast motion doesn't always work - relay closes but motor doesn't go, either button. set 10	good
							6-4	
							clouding in fast 0:3 15 looks solid closing up.	
							2 ph. loaded - 3 plates in box.	

335

Date Thurs 27/28 July 1950 Observer Ba-R Julian Day 2433490

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17581	Hyd 126598	14 21.4	26 43	5-25"	E103aD	.008	25°	20 38	21 20	3
17582	136901	15 18.1	25 59	"	"	"	25°	21 23	21 50	4
17583	144287	16 00.0	25 30	"	"	"	25	21 54	22 10	1
17584	179369	18 45.1	24 56	"	"	"	25	22 16	22 32	2
17585	190658	20 ^{00.9} 03.2	15 13	"	"	"	25	22 42	23 12	2
17586	208835	21 53.9	46 23	"	"	"	25	23 24	24 00	1
17587 17586F	FOCUS TEST		O.T.B.							

↑
record to tent

Dome Temp. 75
Focus 15.735
Dome Temp. 68

Star Angle
End

300W

232W

212W

0012E

0047E

0082E

Dome Temp. 75
 Focus 15.785
 Dome Temp. 68

Transparency Conditions Good

336

at start cloudy before 10^h EST & remained cloudy until dawn.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
2120	0300 W	26 36	2	8.51	K5	1-1-1	A.G.	v. poorly guided wks												
2150	232 W	25 48	3	8.22	K0	1-1-1	"	1 wks												
2210	212 W	25 30	3	7.98	G0	1-1-1	" Some haze	good												
2228	0012 E	24 59	3-2	6.62	A2n	1-1-1	Bin. Some cloud during exp	too strong												
2312	0047 E	15 19	2	8.00	M1	1-1-1	" Torricelli in place & exp. started after flying saucer. Report acknowledged with start.	2 wks sawyer.												
	0152 E	46 38	2-1	7.37	B8	1-1-1	" Considerable cloud towards end of exp.	good												
							10, 8. Too cloudy to continue Heavy cloud terminated exp. 3 P.H. loaded.													
							<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>NTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>July 28</td> <td>+43.4^S</td> <td>-29.8^S</td> <td>-27.6^S</td> <td>-0.9^N</td> <td>-61^S</td> </tr> </table>		NE	SE	NTW	STW	SW	July 28	+43.4 ^S	-29.8 ^S	-27.6 ^S	-0.9 ^N	-61 ^S	
	NE	SE	NTW	STW	SW															
July 28	+43.4 ^S	-29.8 ^S	-27.6 ^S	-0.9 ^N	-61 ^S															

Dome Temp. 74
 Focus 15.820
 Dome Temp. +68°F

Transparency Conditions *Some haze in 338*
early evening - Poor.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 08	08 W	+26° 02'	0	8.84	KO	1-1-1	Flashlight not working <i>plate scratched</i> AG-25,	weak
22 10	10 W	+24 58	0	6.62	A2M	1-1-1	Prog 16. R.A. guide only partly working.	good
23 54	00 E	+46 38	0	7.37	B8	1-1-1	Prog 3. Not functioning at change-over	good
02 19	37 E	+46 09	0±	6.5	B3MC	1-1-1	Be Prog. caused delay. The relay	fine
03 30	41 W	+46 37	1-2	7.37	B8	1-1-1	Prog 3 contacts of the R.A. <i>py. fine delay</i> fast motion might need cleaning!!! Ba, R, Gu present and finally in ops again. <i>spots spoiled</i> Desk light U.S., will not	good
<p><i>All plates have <u>comparison too weak</u> go on unless punched by downtain switch. These little mechanical gremlins arrived at the same time.</i></p> <p>SHORT SLIT. USED.</p> <p>4 PHs loaded; Guian F box</p>							<p>RA gone again 02:00 clock driving well - thank God for small miracles</p>	
<p>July 31</p>							<p>ME_S SC MEW STEW SW_S +40.5 -30.0 -11.5 -0.5 -51^S</p>	

339-

Date 1950 Wed. 2/3 Aug Observer Ba - G7
12, G7 Julian Day 3496.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Other Angle End
17592	HD 166914	18 57.7	25 21	L-25"	E 103a D	.009'	23.0	22 26	24 00	1	2
17593	HD 208835	21 54.7	+30 03	"	"	"	23.0	01 34	01 25		04 E, 14
17594	HD 208951	21 54.7	+30 03	"	"	"	23.0	01 34	02 40	3	10 W, 3
17595 17594F	21 54.7	21 54.7	127 40	"	"	"	22.9	02 49	04 05	4	31 W, 2
Focus Test O.T.B.											
Saturday - July 29 Ba-67											
about 25 visitors shown through dome											
Telescope moved, but too cloudy to view											
objects.											

Dome Temp. 66
Focus 15.75
Dome Temp. 66Dome Temp. 66
Focus 15.75
Dome Temp. 66

Dome Temp. 66
 Focus 15.755
 Dome Temp. +61° F

About 40 visitors
 from Trip-Top Club.
 Cloudy. Demonstrated the Telescope

Transparency Conditions

Cloud in the early evening 3:40
 clearing by 2200. Hazy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
2:40		-2521	0+	8.84	G0	1-1-1	AG Exp. interrupted by cloud. <i>comp. too heavy increasing haze</i>	<i>too weak</i>												
02:45	0 04 E	+46 37	0-1	7.37	B8	1-1-1	3. Heavy Ground Fog. <i>comp. heavy</i> Fuse <i>to work on</i>	<i>work on guide</i>												
02:40	1 10 W	30 18	0-1	8.07	K2	1-1-1	AG 25 declination setting.	<i>too weak</i>												
02:40	1 31 W	27 56	1-2	8.44	K2	1-1-1	AG Exposure cut off by cloud at 02:55 for about 15 minutes; again at 03:35, cut off most of remaining exposure.													
							3 P.M. loaded. 3 plates in box.													
							<table border="0"> <tr> <td></td> <td>HC₅</td> <td>SC</td> <td>HTU</td> <td>SCW</td> <td>SW</td> </tr> <tr> <td>Aug 4</td> <td>+16.5</td> <td>-28.5</td> <td>+16.5</td> <td>-0.7</td> <td>-114.5</td> </tr> </table>		HC ₅	SC	HTU	SCW	SW	Aug 4	+16.5	-28.5	+16.5	-0.7	-114.5	
	HC ₅	SC	HTU	SCW	SW															
Aug 4	+16.5	-28.5	+16.5	-0.7	-114.5															

341

Date Sat Aug 5-6 1950 Observer Hd - Gy Julian Day 2432499

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
17595	HD 208835	21 53.9	+46 23	F-25	E10320	^{set} 008	^{0C} 22.2	22 32	23 14	1
17596	" 174369	18 45.1	+24 56	"	"	"	22.0	23 21	23 43	2
17597	—	19 41.3	+05 44	"	"	"	22.0	23 49	01 19	3
17598	" 206374	21 36.6	+26 18	"	"	"	22.0	01 24	02 12	4
17599	" 210925	22 08.6	+25 26	"	"	"	22.0	02 15	02 45	1
17600	{ " 208835	21 53.9	+46 23	"	"	"	22.0	02 50	03 36	2
	{ Focus Test		O.T.B.							

Dome Temp. 74°C.

Transparency Conditions Clear

344

Focus 15.790

Aurora at 12^h

Dome Temp.

33500

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 07	3 06 E	+46 38	0	7.37	B8	1-1-1	Prog. 3	fine
22 42	0 38 W	+24 59	0	6.62	A _{2n}	1-1-1	" 16	good
22 48	0 46 W	+25 18	1	8.56	G ₅	1-1-1	AG 25 Plate solder not spread.	fine
22 51	1 17 W	+27 18	0	8.54	K ₂	1-1-1	AG 25.	good
22 57	3 2 W	+38 25	0	0.4	B _{3n}	1-1-1	Be Prog (M.V.C. 395) P.H. set at 9.	fine
23 00	1 0 W	+44 30	0	7.02	B8	1-1-1	Prog 3	good
23 02	3 4 W	+46 37	0	7.37	B8	1-1-1	Prog 3.	good
						8,5	2 PH solder, 9 in loop. OK	

345

Date Mon-Tues. Aug. 7-8. 1950 Observer Gz-R Julian Day 243 3501

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Filter Angle End
17607	H.D. 159968	17 32.4	+27 39	I-25	F103a0	.008	+25.9	21 01	22 21	3	21 34 W.T.
17608	H.D. 174369	18 45.1	+24 56	"	"	"	+25.9	22 26	23 20	4	22 W.T.
17609	" 192892	20 12.2	+26 11	"	"	"	+25.8	23 29	00 39		1 12 W.T.
17610	" 200 391	20 58.1	+27 24	"	"	"	+25.4	00 45	02 15	2	02 W.T.
17611	" 208 835	21 53.9	+46 23	"	"	"	+25.5	02 21	03 21	3	2 14 W.T.
17612	" 225 095	23 58.3	+55 00	"	"	"	+25.6	03 27	04 35		1 23 W.T.
	FOCUS TEST O.T.B.										

Dome Temp. +75° F

Transparency Conditions *Clear. Brilliant aurora in zenith.*
till 21:30

Focus 15.798

Dome Temp. 64° F

3501

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																		
22 21	01 34W	+27 36	0-1	8.00	Mo	1-1-1	AG 25	fine																		
23 20	01 20W	+24 59	0-1	6.62	A2m	1-1-1	16 Transparency deteriorating	good																		
01 30	01 12W	+26 20	0	7.93	G5	1-1-1	AG 25 aurora prominent - <i>we aurora</i>	good																		
02 15	02 02W	+27 36	0	8.12	G0	1-1-1	AG 25 Aurora in N, E, W. zenith <i>aurora</i>	wk																		
03 21	02 14W	+46 38	0	7.37	B8	1-1-1	Prog 3. Aurora active <i>aurora</i>	l wk																		
04 25	01 23W	+55 16	0	7.6	B1e	1-1-1	Be Prog. MWC 107. 8,5	weak																		
							OK																			
							A.P.H. loaded, 8 in box.																			
							<table border="0"> <tr> <td></td> <td>NE_s</td> <td>SE_s</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Aug 8/50</td> <td>+37.7</td> <td>(+14.2)</td> <td>-13.8</td> <td>+0.1</td> <td>-76^s</td> </tr> <tr> <td>Aug 9/50</td> <td>+38.0</td> <td>-24.7</td> <td>-9.0</td> <td>+0.2</td> <td>-63^s</td> </tr> </table>		NE _s	SE _s	MTW	STW	SW	Aug 8/50	+37.7	(+14.2)	-13.8	+0.1	-76 ^s	Aug 9/50	+38.0	-24.7	-9.0	+0.2	-63 ^s	
	NE _s	SE _s	MTW	STW	SW																					
Aug 8/50	+37.7	(+14.2)	-13.8	+0.1	-76 ^s																					
Aug 9/50	+38.0	-24.7	-9.0	+0.2	-63 ^s																					

Dome Temp. +73

Transparency Conditions Fair

348

Focus 15.787

Dome Temp. 64°F

Uncertain at first.
Pool.

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	12 14	28 10	0	8.14	Ko	1-1-1	⁴⁴ Lightning in N. Some haze	
	1 37	25 50	0	6.62	A22	1-1-1	Bun	
0 14	2 46 W		0	7.7	B(3)28	1-1	- Plate holder unhooked. Clouds at 01:00	
							2 P.H.'s loaded, 8 in box.	

349

S-GZ-Gr

Date Thur Aug 10-11/50 Observer..... Julian Day 2433504

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Angle End
17615	NGC 6254	16 54.5	44 02	NEWT	E103a-D	—	—	21 37 ⁰⁵	21 43	2	47W
17616	" 6838	19 51.3	+18 38	"	"			21 47 ¹⁵	21 55	1	25E
17617	" 6779	19 14.6	+30 05	"	"			21 59 ⁰⁰	22 07		09E
17618	" 6712	18 50.3	-08 47	"	"			22 45 ³⁰	23 01		10W
17619	" 6656	18 33.3	-23 58	"	"			23 06 ⁴⁰	23 14		40W
17620	" 6535	18 01.3	-00 18	"	"			23 24 ¹⁵	23 48		45W
17621	" 6838	19 51.3	+18 38	"	"			23 52 ⁰⁰	00 00		07W
17622	" 6205	16 39.9	+36 33	"	"			00 04 ⁰⁵	00 06		25W
17623	" 6934	20 31.7	+07 14	"	"			00 11 ²⁰	00 21		48W
17624	" 7078	21 27.6	+11 57	"	"			00 30 ⁰⁰	00 30 ¹⁰		02W
17625	7078	21 27.6	+11 57	"	"			00 32 ⁴⁵	00 36		08W
17626	7089	21 30.9	-01 03	"	"			00 39 ³⁰	00 41		09W

Home Temp... 68°F

Dew Point... —

Home Temp... 63°F

Transparency Conditions... Cloud 9 haze delayed starting ³⁵⁰

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 43	0 47 W						→ focussed on Altair transparency very poor	
21 55	0 58 E						" " everywhere	
22 17	0 09 E						← focussed on Altair " " " "	
23 00	1 10 W						" " " "	
23 14	1 40 W						" " " "	
23 48	2 45 W						" " " "	
00 00	1 07 W						" " " "	
00 16	1 25 W						" " " "	
00 21	1 48 W						" " " "	
00 30	0 02 W						← Focussed on Altair	
00 36	0 08 W						" " " "	
00 41	0 09 W						" " " "	

One of the poorest nights I've ever had.

	MC	SC	MTW	STW	SW
Aug 11/50	+36 ^s .5	-24 ^s	+1.5 ^s	-0.3 ^s	-109 ^s

351-

Date FRI Aug 11-12, 1950 Observer S-Gu-Gr Julian Day 2433505

Plate No.	Object	R.A. 1900- 1950	Declination 1900 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
17627	NGC 5904	15 16.0	+02 16	NEWT	E10320	—	—	20 41 ⁵⁵	20 43	3	2 30 W
17628	" 6838	19 51.3	+18 38	"	"			20 49 ¹⁰	20 53		1 36 E
17629	" 6934	16 14.1	-22 52	"	"			20 57 ¹⁵	21 03		1 51 W
17630	" 6934	20 31.7	+07 14	"	"			21 47 ¹⁰	22 03		1 26 E
17631	" 6838	19 51.3	+18 38	"	"			22 17 ¹⁵	22 23		0 26 E
17632	" 6535	18 01.3	-00 18	"	"			22 39 ¹⁰	23 03		1 20 W
17633	" 6712	18 50.3	-08 47	"	"			23 07 ¹⁵	23 23		1 35 W
17634	" 6760	19 08.6	+00 57	"	"			23 26 ⁰⁰	23 56		1 50 W
17635	" 6934	20 31.7	+07 14	"	"			00 03 ⁰⁵	00 15		1 46 W
17636	" 6838	19 51.3	+18 38	"	"			00 18 ⁵⁰	00 22		1 34 W
17637	" 6760	19 08.6	+00 57	"	"			00 31 ⁰⁰	01 01		55 W
17638	" 6981	20 50.7	-12 44	"	"			01 05 ⁰⁰	01 21		1 34 W
17639	" 6934	20 31.7	+07 14	"	"			01 25 ⁵⁵	01 33		1 05 W
17640	" 6838	19 51.3	+18 38	"	"			01 38 ¹⁵	01 42		54 W
17641	" 6779	19 14.6	+30 05	"	"			01 46 ¹⁰	01 50		39 W
17642	" 7089	21 30.9	-01 03	"	"			01 54 ¹⁰	01 55		27 W

Dome Temp. 62°F

Transparency Conditions Cloudy in west at beginning

Focus

Dome Temp.

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 43	2 30 W					← Focused on α Serpantis not numbered 17627, but 17267	
20 53	1 56 E					no number	
21 03	1 51 W					← Delayed by passing clouds.	
22 05	1 26 E					← Focused on α Aquilae	
22 23	0 26 E					← Delayed by clouds.	
23 03	2 04 W						
23 23	1 35 W						
23 56	1 50 W					← Focused on α Aquilae (did not have to change focus)	
00 15	0 46 W						
01 28	1 34 W						
01 01	2 55 W						
01 21	1 34 W						
01 33	2 05 W					Meteor passed through field of eyepiece 01 ^h 28 ^m EST	
01 42	54 W						
01 50	39 W						
01 55	27 W					number looks like 17692	

Dome Temp.....

Focus.....

Dome Temp..... 56°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 4	0 37 W							
02 56	2 22 W							
03 3	1 29 W							
							<p>Disappointing with clouds in scope till 21^h in time - sparkling clear last half of night. I think I have never written one night with so many meters. Many zero mag or brighter</p>	

355

Date Aug. 12-13 1950 Observer ^NGu - R Julian Day 2,433,506

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
✓ 17646	HD 174126	18 43.9	+28 32	I-25	103a-0	.008	+21.8	22 27	23 37	3
✓ 17647	" 184150	19 28.0	+29 59	"	"	"	+21.6	23 40	00 14	4
✓ 17648	" 174369	18 45.1	+24 56	"	"	"	+21.7	00 20	00 50	1
✓ 17649	" 208 835	21 53.9	+16 23	"	"	"	+21.7	01 21	02 41	2
17650	" 218.393	23 02.6	+49 40	"	"	"	+21.5	02 47	03 25	3
17651	" 225 095	23 58.3	+55 00	"	"	"	+21.5	03 31	04 37	4
	FOCUS TEST O.T.B.									

Dome Temp. $+62^{\circ}\text{F}$

Focus 15.738

Dome Temp.

Transparency Conditions Good

356

Showed 150+ visitors M13 with 74-inch, 2 with 4 1/2-in.

N, Ga.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 27 3	1 57W	28 32	0-1	8.8	K ₂	1-1-1	AE 25 } The dec is reading 02 minutes, out e.g. 28 35 and 28 32 when set on star. Field check	1 week
10 14 4	1 54W	30 02	0-1	8.44	K ₂	1-	" " }	too weak
10 58 3	B 19W	+24 57	0	6.62	A2m	1-1-1	Prog 16. No batteries in field light	strong
10 4 21	52W	+46 36	0	7.37	B8	1-1-1	Prog 3. Dec slow motion not working	strong
7 13 25 3	01 30W	+49 53	0	6.8	Ave	1-1-1	Be Prog MWC 397 Many Perseids meteors	good
11 37 01	44W	+55 14	0	7.6	Bie	1-1-1	Be Prog MWC 109 mostly bright swift	good
						8,5		
							4 P.H. loaded.	

Dome Temp. +69°F

Focus 17.758

Dome Temp. +60°F

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																		
2 58	0 43E	+24° 38'	0-1	6.62	A2m	1-1-1	16	fine																		
3 12	2 16W	+29 40	1-2	8.16	G5	1-1-1	AG 25 Dec trouble (sector) ^{Qu-Gz} O.K.	good																		
3 43	0 14W	-2 35	1-2	6.3	B9e	1-1-1	Be pro.	good																		
3 49	2 00W	+25 20	1	8.94	K5	1-1-1	AG 25	good																		
3 52	1 30W	+46 36	1	7.37	B8	1-1-1	3	l strap																		
3 55	1 16W	+25 39	1	7.99	K2	1-1-1	AG	fine																		
3 59	1 58W	+28 21	1	8.12	K0	1-1-1	AG	v. good																		
						6/4																				
							4 P.H. loaded. 5 plates in box.																			
							Last 3 plates are from new box, and have greater background fog.																			
							<table border="0"> <tr> <td></td> <td>Mc</td> <td>se</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Aug 14/50</td> <td>+37.2^s</td> <td>-20.5^s</td> <td>+26.2^s</td> <td>-0.7^m</td> <td>+13.5^s</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>19.7^s</td> </tr> </table>		Mc	se	MTW	STW	SW	Aug 14/50	+37.2 ^s	-20.5 ^s	+26.2 ^s	-0.7 ^m	+13.5 ^s						19.7^s	
	Mc	se	MTW	STW	SW																					
Aug 14/50	+37.2 ^s	-20.5 ^s	+26.2 ^s	-0.7 ^m	+13.5 ^s																					
					19.7^s																					

359

Date Mon Aug 14-15, 1950 Observer Gy - Gu Julian Day 2433508

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17659	HD 174369	18 45.1	+24 56	T-25	E 10320	Set -008	°C 23.7	22 58	00 00	1
17660	" 199763	20 54.1	+30 00	"	"	"	+23.4	00 07	00 57	2
17661	" 208835	21 53.9	+46 23	"	"	"	+23.2	01 01	02 05	3
17662	" 210925	22 08.6	+25 26	"	"	"	+23.1	02 10	02 46	4
17663	(AG 13 821	22 54.8	+29 33	"	"	"	+23.0	02 50	03 56	1
	FOCUS TEST		O. T. B.							

Dome Temp... 68°F

Focus... 15.764

Dome Temp... +62°F

Transparency Conditions

Cloudy - clearing 22^h30 360
considerable haze at beginning
aurora in north
(arch and streamers confined
to an azimuth of $\approx 60^\circ$ and altitude 30°)

Clouds in N \rightarrow NE

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 20	2 32W	+24 58	0	6.62	A _{2n}	1-1-1	Prog. 16	strong
00 57	1 16W	+30 10	0	7.19	K ₀	1-1-1	AG 25 long scratch on negative	good
02 45	1 24W	+46 36	0-1	7.37	B ₀	1-1-1	3 OK. Just one more!	fine
02 45	1 50W	+25 39	0-1	6.98	G ₅	1-1-1	AG 25	good
03 56	2 14W	+29 48	0	8.72	G ₅	1-1-1	10 " " Comes at 03:00 Clouded out.	weak
							9 P.H.s loaded, plates needed	

361

Date 1950 Aug 15-16 5:40-9:40 Observer R Julian Day 2433509

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17664	HD 211460	22 ^h 12 ^m 11	+28° 41'	I-12 ^{1/2}	E103A0	1:008	+22.9	00 33	02 19	2
17665	HD 222207	23 33.5	+41 57	"	"	"	+22.8	02 25	03 29	3
17664F	FOCUS TEST		O.T.B.							

Dome Temp. ...
Dome 15.7°
Dome Temp. 16

Hour Angle
End
24W
12W+

Dome Temp. $+67.0^{\circ}F$

Focus 15.752

Dome Temp. $+66.0^{\circ}F$

Transparency Conditions *Very hazy.* 362

Very bad at first, getting better. cloudy after 3h.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
01 24W	$+28^{\circ}55'$	0	6.84	G5	1-1-1	AG-25. Haze correction = $+1.5^m$													
01 12W	$+42^{\circ}14'$	0	6.77	B9	1-1-1	Prog 13. Haze correction = $+1.0^m$ 8.5.													
						2 PH loaded.													
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Flu-16/50</td> <td>$+35.8$</td> <td>-17.1</td> <td>-25.2</td> <td>$+0.6$</td> <td>-8.5</td> </tr> </table>		MC	SC	MTW	STW	SW	Flu-16/50	$+35.8$	-17.1	-25.2	$+0.6$	-8.5	
	MC	SC	MTW	STW	SW														
Flu-16/50	$+35.8$	-17.1	-25.2	$+0.6$	-8.5														

263

Date Wed Aug 16-17, 1950 Observer Hd - R Julian Day 2,433,510

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Star Angle End
17665	HD 158038	17 21.8	27 23	-25	E10320	008	25.5	20 31	22 21	4	W 219 2
17666	HD 174369	18 45.1	24 56	"	"	"	25.4	23 18	23 58	1	W 232 2
17667	HD 200391	20 58.1	27 24	"	"	"	+25.8	00 08	01 28	2	W 50W -2
17668	HD 15 472	02 24.4	+70 30	"	"	"	+25.8	01 53	03 23	3	W 49E -7
17669	HD 200391	20 58.1	+27 24	"	"	"	+25.7	03 36	04 52	4	W 4W +2
	FOCUS TEST		O.T.B.								

Aug 7/50
Battery

Dome Temp. +74

Focus 15.777

Dome Temp. +64°F

Transparency Conditions

Good

364

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 21	W 2 19	27 20	0.1	8.53	K0	1-1-1	AG Prog. Clouds passing while setting - waited	
23 58	W 2 32	24 58	1-2	6.62	A22	1-1-1	Bin. 1mm. power interruption at 0001	
01 28	1 50W	+27 37	0.1	8.12	G0	1-1-1	Bin.	fine
03 27	1 48E	+70 41	0	8.0	B4mc	1-1-1	Be prog. Perseids seen, not very frequent.	
04 52	1 4W	+27 37	0	8.12	G0	1-1-1	Bin.	too weak and too late
						8.4½	3PH loaded, 6 in. det. sky light on focus test Quick motion in A.A. & Sec. separated at the last, telescope not brought to position, done and chained.	
			HC		ATW			
	Aug. 17/50		-3.6		-19.8			
	Battery failure, HC reset.							
	<p><u>Note</u> all slow motions quit at 22.20. Checked with Ba who was having trouble with Bro circuit. Found 6V battery down to 3.3. Borrowed replacement from microphotometer. See to this</p>							

Dome Temp. $\pm 6.4^{\circ}\text{F}$

Focus..... 15.742

Dome Temp..... $\pm 6.1^{\circ}\text{F}$

Transparency Conditions

Good

360

about 180 visitors, showed M13 with 74", (with 5", 4 with 4".

Ending Time
2.57.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
09m	27 36	1	8.12	G0	1-1-1	Very brilliant aurora Bin. slit looks short but slithead feels OK. <i>numbered 16670</i>	
3 15 W	+13 02	0-1	7.7	B3) x0	1-1-1	Be Clouds at 0030 to 0038	
1 31 W	+28 17	1	7.86	K0	1-1-1	AG25 Clouds in north-west being in, aurora prominent through clouds. 6/4 4 P.H. Linder, 2 plates in box	

367

Date 1950 Aug 20-21 Sun Observer R - Gz Julian Day 24335.14

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17673	HD 174 369	18 ^h 45.1 ^m	+24° 56'	J42	E103900	0.008	+20.0	20 ^h 25 ^m	21 ^h 03 ^m	1
17674	HD 204 540	21 24.2	+25 31	"	"	"	+20.0	21 11	22 07	2
17675	HD 208 682	21 52.9	+64 52	"	"	"	+20.0	22 16	22 30	3
17676	HD 223 501	23 45.0	+61 39	"	"	"	+20.0	22 43	00 53	4
17677	" 209858	22 01.3	+27 29	"	"	"	+19.9	01 01	02 07	2
17678	" 222317	23 34.4	+27 41	"	"	"	+19.5	02 12	03 06	1
17679	" 5164	00 48.4	+28 02	"	"	"	+19.5	03 11	04 47	3
	Fused Test a.T.B.									

Dome Temp. 60°F
 Focus 15703
 Dome Temp. 49°F

Transparency Conditions *Fair*

368

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
03 06 ^m	01 06 ^m	+24° 58'	0.662	12a	H-1	Bin		ok
07 30	01 42	+25 43	0	7.58	K2	1-1-1	AG 25	good
08 30	01 46	+65 05	0	5.8	B3ne	1-H	MWC 381	
09 53	01 16	+61 55	0	8.3	B3e	1-1-1	MWC 402 Transparency v. good	
02 07	01 42	+ 27 41	0	7.72	G ₀	1-1-1	AG 25 lid not on properly on P.H. #1. Plate removed.	pr good
03 00	01 07 W	+ 27 57	0	7.47	G ₀	1-1-1	AG Guiding appears to be confined to upper part	good
04 41	01 35 W	+ 28 16	0	8.16	G ₅	1-1-1	AG 25 of chit. image does not fade out sharply on lower side.	good
							2 T.H. bracket. 8 plates in box.	

369

Date Mon. Aug 21-22, 1950 Observer Gr - Gu Julian Day 2433515

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17680	HD 174369	18 45.1	+24 56	T-25	E10320	^{set} -008	19.8	20 35	21 25	
17681	172169	18 33.6	+29 29	"	"	"	19.8	21 32	22 32	
17682	187614	19 45.8	+26 50	"	"	"	19.7	22 40	23 30	
17683	199598	20 53.2	+26 01	"	"	"	19.6	23 35	00 13	
17683	20039.1	20 58.1	+27 24	"	"	"	19.5	00 16	01 28	
17684	210026	22 02.4	+26 08	"	"	"	19.2	01 32	02 22	
17685	217230	22 54.2	+26 57	"	"	"	19.1	02 30	03 34	
17686	{ 225292	23 59.9	+27 07	"	"	"	19.1	03 37	04 23	
	{ FOCUS TEST		O. T. 13.							

Home Temp. 62°F

ocus. 15.706

Home Temp. +56°F

Transparency Conditions

370
Hazy at beginning - clearing

03:00 EST Wind SW - strong. South down
morning

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
21 25	20W	+24 58	0	6.62	A _{2n}	1-1-1	Prog. 16													
22 32	38W	+29 32	0	7.69	K ₀	1-1-1	A.G. 25													
23 30	24W	+26 57	0	7.44	G ₅	1-1-1	" plate numbered 17683													
00	59W	+26 12	0-1	7.23	G ₀	1-1-1	" not late in PH no. 3													
01 08	10W	+27 36	0	8.12	G ₀	1-1-1	"													
02 11	52W	+26 23	0-3	7.83	K ₀	1-1-1	"													
03 10	19W	+27 13	0-2	8.48	K ₀	1-1-1	" RA clamps technique													
04 05	03W	+27 23	0	7.35	G ₅	1-1-1	Set 5 " Clouds from West.													
							" 10													
							3 PH ₀ loaded, new box needed													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Aug. 23/50</td> <td>-01.2</td> <td>-06.8</td> <td>+19.8</td> <td>+0.9^m</td> <td>-0.6^m</td> </tr> </table>		MC	SC	MTW	STW	SW	Aug. 23/50	-01.2	-06.8	+19.8	+0.9 ^m	-0.6 ^m	
	MC	SC	MTW	STW	SW															
Aug. 23/50	-01.2	-06.8	+19.8	+0.9 ^m	-0.6 ^m															

Dome Temp... 67°F

Focus... 15797

Dome Temp... 67°F

Transparency Conditions

Poor

372

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
25	W 2:02	25 51	0	7.61	K ₀	1-1-1	AG/Hanf													
22	W 1:35	24 59	0	6.56	A ₂ K	1-1-1	Bin													
31	2:09 W	+26 50	0	8.06	M ₀	1-1-1 6/4	AG 25. light cloud for last few min of exp. Heavy cloud clearing in from south.													
							4 P.H. loaded + 8													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Aug 25/50</td> <td>-02.3</td> <td>-02.6</td> <td>+31.2</td> <td>+1.7^m</td> <td>-1.7^m</td> </tr> </table>		MC	SC	MTW	STW	SW	Aug 25/50	-02.3	-02.6	+31.2	+1.7 ^m	-1.7 ^m	
	MC	SC	MTW	STW	SW															
Aug 25/50	-02.3	-02.6	+31.2	+1.7 ^m	-1.7 ^m															
							Sat Aug 26, 11d. Exp, 90 visitors showed slides, 79".													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Aug 30/50</td> <td>-4.4</td> <td>+12.1</td> <td>-33.5</td> <td>+0.3^m</td> <td>-10.1</td> </tr> </table>		MC	SC	MTW	STW	SW	Aug 30/50	-4.4	+12.1	-33.5	+0.3 ^m	-10.1	
	MC	SC	MTW	STW	SW															
Aug 30/50	-4.4	+12.1	-33.5	+0.3 ^m	-10.1															

373

Date Sat - Sun, Sept 2/3, 50 Observer Pa. G. B. Julian Day 2,433,527

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17689 F	focus test	by GFL								
17690	BD +28° 4211	21 46.7	+28° 23.7	12"	103a0	t.008	+18.2	22 51	00 51	2
17691	AG 128 50	22 57.9	+28 40	"	"	"	18.0	00 58	01 50	3
17692	HD 111	00 21.7 00.9	27 43	"	"	"	18.1	01 54	02 24	4
17693	HD 1996	00 19.1	25 51	"	"	"	18.0	02 27	03 07	1
17694	HD 5584	00 52.5	29 47	"	"	"	18.0	03 12	04 12	2
17695	HD 12237	01 55.0	29 27	"	"	"	12.0	04 22	05 00	3
			Power 2.1	OTB	3/2					

375

Date ~~Tues. Sept 5-6/50~~ ¹⁵² ~~150~~ ¹⁵² Sept 5-6/50 Observer ~~H. G. - G. Z.~~ ^{H. G. - G. Z.} Julian Day 243 ³⁰ ~~327~~

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Star Angle End
17696	BD +28° 4211	21 46.7	+28 24	I-12	E103a0	short 0/2	18.0	20 42	23 22	4	14 ^m
17697	14 D 209457	21 58.4	29 12	I-12	"	normal 008	18.0	23 29	00 19	1	15 ^m
17698	HD 209500	21 58.8	29 17	"	"	"	17.9	00 21	01 01	2	14 W
17699	" 216586	22 49.0	28 06	"	"	"	17.8	01 08	01 38	3	128 W
17700	" 217576	22 56.6	28 10	"	"	"	17.8	01 44	02 16	4	
17701	" 5585	00 52.5	28 59	"	"	"	17.8	02 22	02 46	1	03 ^m
17702	" 6132	00 57.4	29 27	"	"	"	17.8	02 50	03 24	2	06 ^m
17703	" 12260	01 55.2	29 04	"	"	"	17.8	03 28	04 00	3	052 ^m
17704	AG 1265	02 16.4	29 50	"	"	"	17.8	04 10	04 40	5	02 ^m
17705	{ HD 14969 Focus Test	02 19.7 O.T.B.	29 26	" 3/2	"	"	17.8	04 44	05 08	1	

Dome Temp. 78

Focus 12.940

Dome Temp. 53°F

Transparency Conditions *Good*

376

Replaced lamp on relay *turned out*. Replaced by lamp from North pier dark room.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 22	✓ 14 ^m	28 37	1?	9.9	.	1-1-1	<i>focused on brightest * in field at no time real Mr. Rac's * sure of field! * on slit in dec.</i>	
00 19	✓ 1 00	29 26	0	8.99	K5	1-1-1	AG 25	comp too heavy for guide
01 01	1 41 W	29 30	1	8.72	K5	1-1-1	"	
01 31	1 28 W	28 22	1	8.48	K2	1-1-1	"	
1 01	1 59 W	28 26	0-1	8.47	K0	1-1-1	"	
1 02	0 32 W	29 15	1	8.22	K0	1-1-1	"	
1 03	1 06 W	29 43	1	8.62	K0	1-1-1	"	
1 04	0 50 W	29 18	0-1	8.65	K0	1-1-1	"	
1 05	1 02 W	30 03	0-1	8.44	-	1-1-1	"	
1 06	1 27 W	29 39	1	8.18	K2	1-1-1	"	
							3 P.H. loaded. 4 plates in box	

377

Date 1450 Paper 791-5th Observer R-Ba Julian Day 24335.31

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17706	BA +28°4211	21 ^m 16.7	+28°24'	I 17 ^L	E10320	6'008	+22.0	19 ^h 52 ^m	22 ^h 42 ^m	2
17707	HD 200391	20 58.1	+27 24	"	"	"	+21.8	22 49	23 23	1
17708	HD 216502	22 48.3	+27 24	"	"	"	+21.8	23 29	00 07	1
17709	200391	20 58.1	27 24	"	"	"	+21.6	00 28	0 100	1
17710	AG 13639	22 36.8	29 31	"	"	"	21.6	01 05	0 205	1
17711	HD 217351 13827	22 54.8 55.0	29 33 32	"	"	"	21.6	02 08	0 258	2
17712	HD 12426	01 56.7	29 17	"	"	"	21.6	03 03	04 03	4
17713	" 14456	02 15.0	28 04	"	"	"	"	04 07	04 47	1
			Focus Test	OTB	3/2					

Dome Temp. 67°F
 Focus 12.940
 Dome Temp. 58

Transparency Conditions Fair Good 378

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00h 22m	+28° 37'	1-0	9.9	Early	1-1-1	McPac's Star. Set clock to 2 hrs.	
00 08	+27 36	1	8.12	G0	1-1-1	AG 25	
00 02 E	+26 44	0-1	8.20	K0	1-1-1	AG 25	
02 45 W	27 36	0	8.12	G0	1-1-1	Binary. Started to set in MWC 23 but gradually faded as from light on north side of heart out.	
02 09 W	29 47	0+	8.9	K5	1-1-1	AG 25	l wks
02 45 W	29 47	0	8.9 8.4	G5 A2	1-1-1	"	
00 49 W	29 32	0-1	8.98	G5	1-1-1	"	
01 15 W	29 18	0	8.56	G0	1-1-1	"	

3 PA + 8
 MC SC MTC STW SW
 Sept 150 -6.5^s +23.1^s +2.5^s -0.2^m -41^s

Dome Temp. 68°F

Transparency Conditions Cloudy - clearing

380

Focus 12.940

clock driving poorly till evening

Dome Temp. 66°F

Ending Time
E.S.T.

22 50

23 45

00 28

01 08

02 22

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 10 E	+28 37	1-2	9.9	-	1-1-1	^{AC} M _A Ras's * bits of thin cloud throughout exp. but image unaffected.	
01 05 W	+25 49	1-2	8.97	K ₅	1-1-1	AG 25 Haze.	
00 47 W	+25 20	1-2	8.77	K ₀	1-1-1	" " + light cloud	luck
00 59 W	+28 26	1-2	8.47	K ₀	1-1-1	" " "	luck
02 17 W	+29 38	1-2	8.93	K ₂	1-1-1 3/2	Cloud becoming worse so am closing up!	good
Comparison all HEAVY							
2 P.H. loaded + 4 rain box							
Sept 8/50 ^{MC} -7.5 ^{SC} +25.5 ^{MTW} +7.5 ^{STW} +0.3 ^{SW} -18 ^S							
Sat. Sep 9 / 50							
Wm - Gr showed about 60 visitors the telescope - by							
overcast							
Sept 11/50 ^{MC} -7.8 ^{SC} +35.0 ^{MTW} +19.2 ^{STW} +0.2 ^{SW} -2 ^S							
13/50 ^{MC} -9.8 ^{SC} +39.9 ^{MTW} -31.8 ^{STW} +0.1 ^{SW} +4 ^S							

Dome Temp.....

Transparency Conditions *Fine*

Focus..... 12.940

*Focus test on 12 1/2" Filt was 20.25 Filt is 19.5
Focus was 12.940 Focus is 12.940*

Dome Temp. +45°F

Ending Time
L.T.

74
4"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						<i>Set 1 } Focus 12.890 1950 Sep. 14.15</i>	
						<i>Set 6 } " 12.990 on E-103a-F</i>	
						<i>Set 9 } " 12.940</i>	
						<i>Spt. n₂₀ MC SC HTU STW SW -11.4^s +39.2 -24.4 -0.2 -29</i>	
1 30W	+28 37	0	9.9		1-1-1	<i>Power interruption of 1 min. unshel exposure.</i>	<i>too weak</i>
0 36W	+27 18	0-1	7.91	K ₀	1-1-1	AG 25	<i>fine</i>
0 58 E	+27 02	0-1	8.98	G ₅	1-1-1	"	<i>fine</i>
0 18 E	+29 18	0	8.65	K ₀	1-1-1	"	<i>fine</i>
0 28W	+29 41	0	8.65	G ₀	1-1-1	"	<i>fine</i>
0 55W	+29 35	0	8.63	G ₅	1-1-1	"	<i>good</i>
1 29W	+25 16	0	8.37	G ₀	1-1-1	<i>Cloud over ind. exposure 4 P.H. loaded 8 in box</i>	

385

Date 1927 Sep 17-19 Sun. Observer R - Gu Julian Day 2433542

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17726	BD +28°42'11	21 ^h 46 ^m .7	+28°24'	12 ^{1/2}	10320	0.2	+16.2	20 ^h 5 ^m	22 ^h 10 ^m	
17727	HA 213 178	22 24.5	+28 32	"	"	0.08	+16.2	22 47	23 17	
17728	HA 213 857	22 29.3	+29 14	"	"	"	+16.0	23 26	00 10	3
17729	HD 219736	23 13.1	+29 54	"	"	"	+16.0	00 15	00 55	4
17730	HD 220684	23 20.6	+25 39	"	"	"	+16.0	00 38	01 23	1
17731	HD 225292	23 59.9	+27 37	"	"	"	+16.0	01 11	01 20	2
17732	HD 229085	23 49.9	+28 06	"	"	"	+15.9	01 25	01 45	3
17733	HD 12426	01 56.7	+31 17	"	"	"	+15.9	01 51	02 31	4
17734	AG 1143	02 01.9	+29 09	"	"	"	+15.9	02 34	03 04	1
17735	HD 14420	02 15.3	+29 28	"	"	"	+15.9	03 07	03 22	2
17736	HD 14874	02 18.9	+30 12	"	"	"	+15.9	03 35	03 55	3
17737	HD 14608	02 16.5	+29 53	"	"	"	+15.9	04 05	04 25	4
1773E	HD 19243	03 00.7	+62 00	"	"	"	+15.9	04 33	04 36	1
17739	{ HD 23626	03 41.5	+31 54	"	"	"	+15.9	04 49	04 52	2
	{ FOCUS TEST		C. T. B.							

Dome Temp. 53°F

Focus 12.750

Dome Temp. +48°F

Transparency Conditions

Fair

384

Some rain in early evening

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 19	+28° 37'	1	9.9	Early	1-1-1	Must time spent setting up McEwen Star.	
00 22	+28 46	2-1	8.8	K0	1-1-1	AG 25.	fine
1 07W	+29 28	1-1	8.77	K0	1-1-1	AG 25	v. good
0 48W	+30 11	0-1	8.15	K0	1-1-1	"	fine
1 13W	+28 54	0-1	8.77	K0	1-1-1	"	good
-	+27 23	0-1	7.35	G5	1-1	"	l. weak
1 21W	+28 22	0	8.12	K0	1-1-1	"	fine
0 00	+29 31	0-1	8.98	G5	1-1-1	" Chit line enters	l. weak
0 23W	+27 23	1	8.93	G5	1-1-1	"	l. weak
0 42W	+27 41	1-2	8.70	G0	1-1-1	"	fine
1 02W	+30 26	1-2	8.57	G5	1-1-1	" 1950 Sept 18/19 Mon. Overcast -wm	fine
1 34W	+30 05	1	8.54	K0	1-1-1	"	fine
1 01W	+62 07	1-2	6.5	32e	1/2-1/2-1/2	Be program	-
0 42W	+32 01	1-2	6.65	F6	1/2-1/2-1/2	16	fine

9 PH's loaded, 4 plates in a box

Mc	SE	MTW	STW	SW
5	5	5	5	5
Sept 18 -11.4	+46.5	-08.4	+0.2	+0.5

386

Date Tues Sept 19-20, 1950 Observer Ad-L Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17740	AG 9585	19 02.5	28 34	I-12	E103aD	008	18.3	19 ³¹ / ₂₆	20 31	1	W 102
17741	HD 189087	19 53.2	29 33	"	"	"	18.2	20 34	21 14	2	W 055
17742	AG 10644	19 53.2	29 40	"	"	"	18.1	21 16	22 16	3	W 157
17743	HD 204711	21 25.4	25 22	"	"	"	18.2	22 20	23 10	4	W 118
17744	HD 215944	22 43.7	27 36	"	"	"	18.1	23 13	00 03	1	W 53W
17745	" 6132	00 57.4	29 27	"	"	"	18.1	00 14	01 04	2	W 20E
17746	" 12728	01 59.6	28 39	"	"	"	18	01 16	01 56	3	W 30E
	{ Grows Test				O T B						

Dome Temp. 66 F
 Focus 12.940
 Dome Temp.....

Transparency Conditions.....

386

Sept 18 Gill changed back to 20.25 L

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
20 31	W 1 02.	28 36.	0	8.90	G ₀	1-1- $\frac{1}{2}$	Wrong* at first. React to 1.													
21 05	W 1 55	29 40	0	8.56	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$														
22 16	W 1 57	29 47	0	8.88	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$														
23 10	W 1 18	25 36.	0	8.77	K ₂	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$														
00 05	0 53W	27 51	0	8.62	G ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$														
01 04	0 20 E	29 43	0	8.62	K ₀	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$														
01 56	0 30 E	28 52	0	8.44	G ₅	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ 3/2	Light clouds toward end. Closed at 03.00 sky cloudy with some broken intervals 1 P.H. loaded 1404M													
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Sep. 22</td> <td>-11.8</td> <td>+54.2</td> <td>+10.2</td> <td>+0.5</td> <td>00</td> </tr> </table>		MC	SC	MTW	STW	SW	Sep. 22	-11.8	+54.2	+10.2	+0.5	00	
	MC	SC	MTW	STW	SW															
Sep. 22	-11.8	+54.2	+10.2	+0.5	00															
							1950 Fri Sept 22/23 - O'cast, becoming cloudy w													
							1950 Sat Sep. 23 - Ba - Gr slowed ~50 winds in the telescope and the slides.													

387

Date Tues, Sept 26/27, 1950 Observer Wm - C. W. Julian Day 243 3551

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.
17 747	AG 11471	20 29.4	+25 30	I-12	E103a-0	SET 008	+17.7	20 44	21 44	4
17 748	HD 204921	21 26.7	+29 50	"	"	"	+17.7	21 49	23 09	1
17 749	HD 219736	23 13.1	+29 54	"	"	"	+17.4	23 16	00 16	3
17 750	AE 63	00 08.3	+26 30	"	"	"	+17.5	00 19	01 31	3
	FOCUS TEST - O.T.B.									

Dome Temp. 56.0°F

Focus 12.940

Dome Temp. +7.0°C

Transparency Conditions

HORRIBLE!

388

Waited with dome open for telescope to dry, before opening. Considerable ground haze.

Ending Time E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
----------------	-------------	--------	-----------	-----	-------	---------	---------

1 ^W 17	+25 41	0	8.19	G5	1-1-1	Ag 05	weak
-------------------	--------	---	------	----	-------	-------	------

1 ^W 45	+30 05	0	8.49	K0	1-1-1	"	fine
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1 55W	+30 11	0-1	8.15	K0	1-1-1	" (Red*)	fine
-------	--------	-----	------	----	-------	----------	------

1 5W	+26 47	-0	8.79	K0	1-1-1	" image very poor.	good
------	--------	----	------	----	-------	--------------------	------

0.20 at 20, 25, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.

E box

MC	SC	MTW	STW	SW
-13 ^s	+1 ^m 04 ^s	-22 ^s	-0.0	-39 ^s

adv 1 min.

sep. 27

389

Date Thurs Sept. 29/29Observer BaJulian Day 3553

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17751	HD 172311	20 34.9	20 15	12"	E103a0	0.008	19.3	18 54	20 44	1
17752	32 Cugni	20 12.4	47 24	"	"	"	19.3	20 52	20 54	
								20 54	20 58	
17753								20 58	21 04	
17753	HD 193347	20 14.7	26 40	"	"	"	19.3	21 15		
	Focus test	0	TB	3/2						

Home Temp. 64
 Focus 12.940
 Home Temp.

Transparency Conditions Wazy 390

Found watch run down after opening up
 Reset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
20-4	N 0219	28 15	<0	8.91	KD	1-1-1	Exp interrupted from 1930-2000. O again at 2025 Seeing poor! Heavy cloudage from west mid exp.	1 wk.																												
20-5			0	5.2	Comp.	2	Set 3																													
20-5						2	Set 5	good																												
21-04	N 0100	47 35				2	Set 7.																													
		26 50	0	8.06	MO	1	Heavy cloud at 2130 Wazy continues very thick 2st 1 mag? Still cloudy at 2200. So close down. 1 PH + 9	1 wk																												
							<table border="0"> <tr> <td></td> <td>W</td> <td>HC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Sep. 29</td> <td>13</td> <td>-14.8</td> <td>+08.4</td> <td>-08.0</td> <td>+0.2</td> <td>-01</td> </tr> <tr> <td></td> <td></td> <td></td> <td>adv. 1 m.</td> <td></td> <td>reset</td> <td>reset</td> </tr> <tr> <td></td> <td></td> <td></td> <td>wt 0.1 added</td> <td></td> <td></td> <td></td> </tr> </table>		W	HC	SC	MTW	STW	SW	Sep. 29	13	-14.8	+08.4	-08.0	+0.2	-01				adv. 1 m.		reset	reset				wt 0.1 added				
	W	HC	SC	MTW	STW	SW																														
Sep. 29	13	-14.8	+08.4	-08.0	+0.2	-01																														
			adv. 1 m.		reset	reset																														
			wt 0.1 added																																	

Dome Temp. 64
 Focus 13:040
 Dome Temp. +56

Transparency Conditions Considerable haze &/or ³⁹² cirrus

Cloudy at sunset, slowly clearing.

3554

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:40	1 ^W 25	+29 06	0!	8.40	G0	1-1-1	AG 25	comp to strong disk
20:09	1 34W	+26 43	0	8.20	K0	1-1-1	AG 25	good
	1 26W	+26 07	-0+	8.69	G _s	1-1-1	"	fine
22:01	1 49W	+28 06	0-1	7.79	K0	1-1-1	"	fine
21:50	2 27W	+30 34	-0+	8.30	G ₀	1-1-1	" fog clearing in comp & strong 03:05 E.S.T.	disk
20:30	1 19W	+25 50	0-1+	7.92	G ₀	1-1-1	"	disk
20:20	1 24W	+26 09	1-2	7.83	G _s	1-1-1	"	disk
							focus OK	
							3 PHs loaded, 8 plates in an E box - in N. pier.	

Dome Temp.
 Focus..... 12.940.
 Dome Temp.....

Transparency Conditions

Haye

394

About 120 visitors. Showed M13 with 74", H with 4"

Ending Time
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 02	29 26	1	8.51	G5	$1\frac{1}{2}$	Numbered 17760 by error.	good
W 1 36	29 19	1	8.21	G0	$\frac{1}{2}$	Aurora	good
W 1 40	29 50	1-2	8.95	G0	$\frac{1}{2}$		good
					focus OK	Condensation dripping from dome so closing up.	
						3 PH. loaded + 16 plates in N-pier.	

Date Oct 11/22 Observer B. - G. Julian Day 2986

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17764	AG 7101	18 35.5	26 06	"	K13-D	100B	22.8	19 19	19 30	3
17765	VE 181047	19 13.8	25 11	"	"	"	22.8	19 33	19 59	4
17766	AG 10151	19 31.7	30 10	"	"	"	22.8	20 04	20 44	1
17767	AG 11671	20 34.7	26 21	"	"	"	22.8	20 48	22 08	5
17768	HD 211884	22 15.2	25 13	"	"	"	22.8	22 11	22 51	3
17769	HD 27287	22 19.1	30 15	"	"	"	22.8	22 54	00 14	4
17770	HD ²⁷¹³ 2732	00 25.0	+27 34	"	"	"	22.2	00 17	01 11	1
17771	HD 4312	00 40.5	+25 38	"	"	"	22.1	01 15	01 45	2
17772	HD 7352	01 08.6	+25 17	"	"	"	22.0	01 47	02 47	3
17773	HD 12757	02 08.8	+28 14	"	"	"	22.0	02 50	03 08	4
17774	HD 17674	02 45.1	+29 52	"	"	"	22.0	03 05	03 35	1
17775	HD 25834	04 00.6	+30 00	"	"	"	22.0	03 38	05 08	2
	FOCUS TEST O.T.B.									

Dome Temp. 7
Focus 1.2
Dome Temp. 7
Hour Angle End

Dome Temp. 72

Transparency Conditions *log*

396

Focus 12940

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
115W	26 07	1-0	8.80	G0	H-1	AG 25 East e. direction 0 ^m , 2-3.	l wk
106W	25 16	2	8.83	G0	1-1-1	"	l wk
134W	30 16	1-2	8.92	K0	1-1-1	"	l wk
154W	26 31	1-2	9.3	K0	1-1-1	" Haze thickening	l wk
057W	25 30	1-2-3	8.88	K2	1-1-1	"	good
218W	30 29	0	8.68	K2	1-1-1	"	good
1 07W	27 50	1±	8.60	G0	1-1-1	"	good
1 26W	25 55	1±	8.49	K2	1-1-1	"	l wk
1 59W	25 33	0±	8.51	G5	1-1-1	"	good
1 14W	28 27	1 ⁰	27.07	G5	1-i-1	" haze very bad	good
1 10W	30 05	0±	7.64	G5	1-1-1	"	good
1 29W	30 09	0±	8.96	K2	1-1-1	"	good
						OK	
						No field, white in box in	
						W p. i.	
						Oct-2	SW
						13	+04 ^s
						MC	
						SC	
						MTW	
						STW	
						-16.8	+0.6
						+10.2	

Dome Temp. 50

Focus 12.940

Dome Temp.

Transparency Conditions Clouds clearing after 398 sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0111 W	27 04	0	8.93	K0	1-1-1	AB	
—	26 58	0	8.84	G5	1-1	Set 7 ^{Exp interrupted by cloud at 2050.} (as 40188223 briefly exposed at 5)	
29 43	0-1	8.98	K5	1-2		Cloud clearing after 2200. Heavy cloud again at 2230 so close down. 4 PH 0 no plates Hon M.	

Dome Temp.....52.....
 Focus.....12.940.....
 Dome Temp.....

Transparency Conditions...Considerable...cirrus
 Cloudy @ sunset,
 clearing (I think!) 400

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 ^w 32	+27° 19'	0	8.37	KO	1-1-1	AG 25	wk
0 ^w 54	+28° 32'	0	7.54	G5	1-1-1	AG 25 Clouds thickening	too wk
					4/2	Thicker & thicker - N.G., 2 PH loaded + 1 Box plates H on M	

Dome Temp. 55°
 Focus 12.940
 Dome Temp.

Transparency Conditions

402

Ending Time
 R.S.T.

19th 51

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$4^h 15^m W$	$3^{\circ} 17'$	0-	8.43	G5	1-1-1	A.D. 25 - seeing very poor Clouded up at about 19.50 Remained cloudy, so closed down, 22.00 4 p.h.'s loaded. (2 full boxes + 1 box with plate)	good
			8.42	G5			
						SAT, Oct 7/8, 1950. Gu & Wm demonstrated 74" foc abt. 75 visitors; tried to show 24 in 4", despite considerable cloud, which gradually thickened.	
						MON, Oct 9/10, 1950. RAIN. - Wm	

403

Date Friday Oct. 13/14, 1950 Observer Ho - Gu Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17781	HD 209543	21 ^{h. m.} 59.1	+26° 28'	I 12	F10300	008	9.5°C	20 58 ³²	21 35	3
17782	HD 213857	22 29.3	29 14	"	"	"	8.6	21 43	22 43	4
17783	HD 2343	00 22.2	30 21	"	"	"	8.2	22 50	24 05	1
17784	AG 366	00 32.6	25 18	"	"	"	7.3	00 09	01 09	2
	[FOCUS TEST O. T. B.									

Dome Temp. 4
Focus 12.94
Dome Temp. 2Hour Angle
End10 45 W
1 23 W
0 51 W
1 45 W

Dome Temp. 46°

Focus 12.940

Dome Temp. 38°

Transparency Conditions

404

Cloudy till 18^h 25^m. Shutter wouldn't open - circuit breaker fixed.
Dec. clamp stuck - fixed. Sidereal watch found 1 hour out.
R.A. clamp stuck - not fixed - by hand. Finally started. - 21^h

Ending Time
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 35 00 45 W	26° 42'	0	8.70	K ₀	1-1-1	Seeing not very good. (2 haze) AG 25	weak
22 43 21 23 W	29 28	0	8.77	K ₀	1-1-1	Seeing improving - then back to bad. AG 25	good
24 56 00 51 W	30 37	0	8.90	G-5	1-1-1	AG 25	good
0 17 00 145 W	25 34	0-1-0	8.99	G-5	1-1-1	" " R.A. clamp now working 00 00 haze coming in from South-west seeing extremely poor. 9 PH's loaded, 5 in a dome.	too weak

Dome Temp. +43°F

Focus 12.940

Dome Temp. +38°F

Transparency Conditions

Cleaning family well ⁴⁰⁶
towards 0300 DST.

Bright Aurora

Ending Time
E.S.T.

13 25

14 2

15 02 3

05 41 4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 38 W	+27 31	0	8.49	G0	1-1-1	AG 25 <i>earlier sp. class</i>	good
1 01 W	+28 35	0	8.26	G.5	1-1-1	" "	fine
0 38 W	+29 10	0-1	7.56	K0	1-1-1	" "	fine
1 01 W	+25 46	0-1	7.85	K0	1-1-1	" "	fine
9 PH's banded, 1 white in line, 1 full box in N pier							
Oct. 15.							
MTW STW ~ -30° +0.2 rest.							

409

Date Mon Oct 16/17 1950 Observer L. C. C. Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
17799	H.D. 187565	19 45.5	29 08	I-12 $\frac{1}{2}$	E-103q-0	Set .008	+12.0	18 32	19 54	2	1 28W
17800	" 203171	21 15.5	27 04	"	"	"	+12.0	19 58	21 08	3	1 12W
17801	" 214202	22 31.6	29 14	"	"	"	+12.0	21 11	22 17	4	1 05W
17802	" 4268	00 40.0	27 25	"	"	"	+12.0	23 08	00 18	1	0 57W
17803	{ " 6525	01 01.1	29 10	"	"	"	+11.9	00 25	01 25	2	1 44W
	{ FOCUS TEST		O. T.	B.							

Dome Temp. +50°F

Focus 12,940

Dome Temp. +49°F (emulsion 47°F)

Transparency Conditions Fair

410

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 54	1 28 W	29 15	0	8.83	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25 comp too strong	-
20 03	1 12 W	27 17	0	8.43	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" comp strong pr. guiding	
20 17	1 05 W	29 30	0	8.61	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Light clouds, slight haze.	
00 0	0 57 W	27 41	1-2	8.97	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Light cloud comp strong	l.u.k.
01 00	1 44 W	29 26	1-2	8.33	G5	1-1-1 4/2	" Considerable haze, increasing with strong W-SW wind, temperature outside rising occasional cloud during the exposure	l.u.k.
							2 PH's loaded, 8 in. done.	
							It was found that no filter was in for comp.	
							L. put filter back in, and exposures $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	
							are satisfactory.	

411-

Out 4
7 PMDate Thurs/Fri Oct 19/20, 1950 Observer G. W. Julian Day 2,433,574

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
178 04	HD 49 63	00 46.5	+27 13	I-12 $\frac{1}{2}$	E-103a0	set .008	+17.9	23 46	00 46	3
178 05	" 73 00	01 08.1	+25 55	"	"	"	+17.5	00 53	01 53	4
	AG 1143	02 01.9	+29 09	"	"	"				1
	FOCUS TEST			O. T.	B.					

Dome Temp. +54°F

Transparency Conditions Good

412

Focus 12.940

Very high wind.

Dome Temp.

33,574

Ending Time
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:40	1 31W	+27 31	0-1	8.62	G5	1-1-1	AG 25	good
01:53	2 17W	+26 11	0-1	8.56	K0	1-1-1	" "	fine
				8.93	G5		" "	
						9/2	Clouds from ^{OK} 4N. at 3:00	
							4 Ph's loaded, 9 p. in box.	

413

Date Fri. Oct. 20/21, 1950 Observer Wm - L Julian Day 2 43 3575

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17 806	HD 190 470	20 00.0	+25 30	7-12 $\frac{1}{2}$	E103a:0	SET 008	+13.0 ^c	18 34	19 44	2
17 807	HD 204 658	21 25.0	+28 26	"	"	"	+13.0	19 49	21 09	3
17 808	HD 216 331	22 47.0	+29 30	"	"	"	+13.0	21 14	22 24	4
17 809	HD 220 684	23 20.6	+25 39	"	"	"	+12.7	22 29	23 49	1
17 810	AG 814	01 21.3	+26 59	"	"	"	+12.8	23 53	01 13	2
17 811	H.D. 17382	02 42.2	26 40	"	"	"	+12.8	01 18	02 08	3
17 812	" 17673	02 45.1	30 06	"	"	"	+12.8	02 13	03 03	4
17 813	" 30945	04 46.8	26 37	"	"	"	+12.7	03 08	03 54	1
17 814	" 33585	05 06.2	26 21	"	"	"	+12.7	04 16	04 56	2
17 815	{ " 40460	05 53.8	27 17	"	"	"	+12.7	04 59	05 49	3
	{ Focus Test				O.T.B.					

Home Temp. +51°F

Transparency Conditions Good

4/4

ocus...12:940.....

Home Temp.....

3575

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							* PH 1 USED IN TRIAL EXP FOR ARC FILTER	
19 44	1 ^W 20	+25 39	0!	8.51	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 Looked rather faint for this <small>mag & Sp. T.</small>	good
21 09	1 ^W 20	+28 39	0	8.77	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	ok
22 24	1 ^W 13	+29 48	0	8.69	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
23 49	2 ^W 05	+25 56	0	8.77	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25 (Red*)	good
01 13	1 27W	+27 14	0	8.89	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
02 08	1 01W	+26 52	0	8.33	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	1 star
03 03	1 54W	+30 19	0-1	8.33	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
03 54	0 42W	+26 42	0-1	8.44	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Hydro went off at 03.54	good
04 56	1 26W	+26 24	0-1	8.11	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" on again at 4.06	ok
05 49	1 31W	27 16	0	8.02	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	ok
						3/e	4 PHs loaded + 4 <u>used to red</u>	
							1+ on M	

4160

Ending Time
E.S.T.

417.

