

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

(the reading)

3

Date Temp

From

Date Temp

Hour Angle

East

Decl

Dome Temp.....

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 Scuti	18 50.9	-04 16	I-12 $\frac{1}{2}$	E-10300	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 53W
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 35	4	0 37W
16423	H.D. 1633	00 15.5	25 56	"	"	"	+18.8	02 37	03 11	1	0 28W
16424	4831	00 45.3	25 02	"	"	"	+18.7	03 43 <sup>16</sup>	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 Test							O.T. B.		2	

Dome Temp. +65°F

Transparency Conditions *pretty good - trace of haze*

6

Focus 12.980

Dome Temp. +53°F

Ending Time L.S.T.	P.R.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
02 09	1	0 51W	-04 18	1	9.3?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	good
02 59	1	0 53W	+27 48	1	9.2?	G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5 - A.G. 2.5	good
03 43	2	0 47W	+25 27	1	9.4?	K <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	fine
00 36	2	0 53W	+30 03	1-2	9.4?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5 Seeing Variable Aurora low in North.	fine
01 07	3	0 38W	+26 21	1	8.8?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5 one bright band.	too strong
01 39	3	0 34W	+29 49	1	8.9?	G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5	distorted
01 57	4	0 17W	+30 10	2-1	8.2?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	too strong
02 35	4	0 37W	+25 27	1	9.1?	G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5 Dec seems low, but rest checks.	good
03 11	1	0 28W	+26 16	1	9.0?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5 high	fine
03 21	1	0 17W	+25 15	1	8.2?	G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5	fine
04 02	2	0 38W	+29 41	1	8.9?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	fine
04 20	2	0 20W	+27 30	1-2	8.2?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 6.0	fine
	2						4-3	Set 9.5 focus set to R	

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(??)

Date Saturday, Aug. 20/21, 1949 Observer Wm. Mc Julian Day 2 133 150

4<sup>th</sup> 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 10 151	19 31.7	+30 10	7-12	E103a-0	SET 008	+18.5	22 07	22 41	3	0 <sup>m</sup> 48
16428	HD 188015	19 48.0	+27 51	"	"	"	+18.6	22 44	23 18	3	1 <sup>m</sup> 09
16429	HD 188258	19 49.2	27 50	"	"	"	+18.6	23 23	23 57	4	1 <sup>m</sup> 47
16430	AG 10838	20 1.8	29 26	"	"	"	+18.4	0 04	1 16	4	2 54W
16431	HD 262521	21 11.3	27 35	"	"	"	+18.6	1 21	2 03	1	2 31W
16432	HD 214434	22 33.0	25 55	"	"	"	+18.4	2 08	2 46	1	7 52W
16433	HD 224085	23 49.9	28 06	"	"	"	+18.6	2 51	3 05	2	0 54W
16434	HD 5650	0 53.1	26 15	"	"	"	+18.6	3 09	3 35	2	0 21W
<del>16435</del>	<del>HD 3650</del>	<del>0 34.2</del>	<del>26 29</del>	<del>"</del>	<del>"</del>	<del>"</del>		<del>3 53</del>		<del>3</del>	
16435	HD <sup>5328</sup> <del>5164</del>	<del>0</del>	<sup>500+28</sup> <del>28 01</del>	<del>"</del>	<del>"</del>	<del>"</del>	+18.4	4 17	4 39	3	1 20W
	Focus Test — outside thro base										

Dome Temp.  $+58^{\circ}F$

Focus  $12.980$

Dome Temp.  $+57^{\circ}F$

Transparency Conditions *Same haze*

Mc & Wm showed M13 w 74"   
 *80ss'd. objects w. 4 1/2"   
 to ~150 visitors*

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22:41	0 <sup>w</sup> 48	+30°17'	0-1	8.98	K0	1/2-1/2-1/2	AG 25 - Set 2.5 <i>Wm beat the hollow of the 74" cross-wires - big eye piece</i>	fine
23:18	1 <sup>w</sup> 09	+27°58'	0-1	8.96	G5	1/2-1/2-1/2	AG 25 Set 7.5	1 strong
23:57	1 <sup>w</sup> 47	27°58'	0-1	8.9	K2	1/2-1/2-1/2	AG 25 Set 2.5	<i>much too strong</i>
1:16	2 54W	29 38'	0-1	9.7	G5	1/2 1/2 1/2	AG 25 Set 7.5 <i>got the S. fall. one ok Mc</i>	weak
2:03	2 31W	27 48	0-1	9.2	K2	1/2 1/2 1/2	AG 25 Set 2.5	too strong
2:46	1 52W	26 10	0	9.0	K0	1/2 1/2 1/2	AG 25 Set 7.5	strong
3:05	0 54W	28 20	0	8.0	K0	1/2 1/2 1/2	AG 25 Set 2.5	fine
3:35	0 21W	26 30	0	8.6	K2	1/2 1/2 1/2	AG 25 Set 7.5	1 strong
			0	8.4	G5	1/2	AG 25 Set 2.5 <i>wrong star</i>	weak
4:39	1 20W	28 13	0	8.74	G5	1/2 1/2 1/2	AG 25 Set 6 <b>WRONG STAR</b> <i>much too strong</i>	
				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 243315.0

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	52W
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 32W
16441	" 13518	22 27.7	+25 04	"	"	"	+24.0	24 48	01 16	2	0 28W
16442	" <del>13821</del> HD 217351	<del>22 54.8</del> 55.0 32	+29 <del>33</del>	"	"	"	+23.8	01 19	02 06	3	0 54W
16443	H.D. 223231	23 42.6	+26 37	"	"	"	+23.9	02 09	02 49	3	0 47W
16444	" 2839	00 26.7	+27 58	"	"	"	+23.6	02 58	03 28	4	0 42W
16445	AG 814	01 21.3	+26 59	"	"	"	+23.8	03 32	04 12	4	0 31W
	Focus Test							O.T. B.		4	

Dome Temp. +73°F

Transparency Conditions *Good!*

(10)

Focus 12.980

Dome Temp. +63°F

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Remarks	Quality
22 08	4	52W	-4 16	1+	9.3	K <sub>1</sub> ?	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	fine
22 31	4	0 24W	+27 12	2	9.0?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 7.5 AG 25	not perfectly guided fine
23 30	1	0 47W	+27 44	2	9.3	G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5 " " Took yellow star of <sup>double</sup>	pr. guiding
4 09	1	0 38W	+26 00	2	9.3	G <sub>5</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" 7.5 " "	fine
4 46	2	0 32W	+28 23	2	9.3?	G <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5 " "	v. good
1 16	2	0 28W	+25 20	2	9.1?	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5 " "	distorted
2 06	3	0 52W	+29 48	2	8.4 9.7?	A <sub>2</sub> K <sub>3</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5 " "	check too strong
2 49	3	0 47W	+26 54	2	9.5?	K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 7.5 unable to find HD. 2854 in finder chart <sup>pr. guiding</sup>	strong
3 28	4	0 42W	+28 13	2	9.2?	G	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	weak
4 12	4	0 31W	+27 15	2	9.5?	K <sub>3</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 6.0	weak
							4-3	Set 9.5	focus OK

2 P.H. Loaded 8 plates in box.

MTW STW  
-27<sup>s</sup> +0.3

Date Nov 24/23 Observer Pa - Gr Julian 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	Novae Sock	18 50.9	-04 21	E12"	E1032-0	.008	25.8	2007	2200	1	052 W
16447	AG 40194	19 53.2	+29 40	"	"	"	25.9	2205	2215	1	03 W
16448	" 11519	20 32.2	26 03	"	"	"	25.8	2249	2301	2	02 W
16449	" 12158	21 03.4	<del>29 58</del> 29 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... 52

Transparency Conditions *Sun, considerable scattering*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
052 W	-4 15	2	<sup>uis</sup> 9.5	P	1-1-1	2.5 } Reproduced	
036 W	29 48	2	9.5	E0	1-1-1	7.5 } AG 25	
033 W	26 14	3	9.6	K0	1-1-1	2.5 } " "	
045 W	30 10	2	<sup>88</sup> 9.4	E0	1-1-1	7.5 } " "	
042 W	+26 12	1-2	9.4	E0	1-1-1	2.5 } " "	
1 13 W	+26 00	1-2	9.3	G5	1-1-1	7.5 } " "	
0 54 W	+27 55	3	9.4	K0	1-1-1	2.5 } " "	
0 52 W	+25 40	2	9.0	K0	1-1-1	7.5 } " "	
0 43 W	+26 08	2	9.2	G5	1-1-1	2.5 } " "	
0 48 W	+28 31	2	9.2	G5	1-1-1	7.5 } " "	
0 45 W	+26 12	3	8.56	K0	1-1-1	2.0 } " "	
0 44 W	+26 10	3	9.4	G5	1-1-1	6.0 } " "	
					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 24/45 1949 ..... Observer Ba - Mc ..... Julian Day 2433153 .....  
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.	Hour Angle Mid
16458	Nova Scuti	18 50.9	-04 21	512	103-0	Sub .012	25.0	19 58	21 52	1	0 52W
16459	HD 187548	19 45.4	+28 71	"	"	"	25.0	22 03	22 25	1	0 32W
16460	HD 190885	20 02.0	+27 51	"	"	Sub .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 201626	21 05.7	+26 13	"	"	"	24.8	00 15	01 10	3	1 52W
16463	218153	23 00.6	+25 29	"	"	"	24.8	01 13	01 33	4	1 35W
16464	218310	23 04.3	+26 23	"	"	"	24.8	01 36	01 52	4	0 41W
16465	221170	23 24.6	+29 53	"	"	"	24.9	01 55	02 19	5	0 44W
16466	664	00 05.8	+29 01	"	"	"	24.9	02 16	02 36	6	0 21W
16467	2854	00 26.8	+27 06	"	"	"	24.9	02 39	02 59	7	0 35W
16468	6525	01 01.1	+29 10	"	"	"	24.9	03 13	03 29	8	0 14W
16469	9269	01 26.1	+30 06	"	"	"	24.9	03 31	03 53	9	0 14W
16470	11130	01 44.4	+29 10	"	"	"	25.0	03 55	04 19	10	0 27W
16471	13943	02 10.6	+29 20	"	"	"	24.8	04 22	04 40	11	0 27W
Transit Field	1110.0										
	07.8										

Dome Temp

Focus

Dome Temp

Dome Temp. 71°

Focus 12.981

Dome Temp. 60°F

Transparency Conditions Cloudless

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 52W	-04 21	0	9.87	-	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	
0 32W	+28 28	0	8.3	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	7.5 AC 20	
1 08W	+27 51	0	9.0	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 2.5	
0 55W	26 07	0-1	8.9	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	7.5	
1 57W	26 25	0-1	8.9	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Normal exposure time doublet by eye at best	Set 2.5
0 25W	25 45	0-1	8.4	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 2.5
0 40W	26 37	2+	8.8	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 2.5
0 41W	30 10	2+	8.8	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	been varying 3 to 4 grades in exposure	Set 2.5
0 22W	29 15	2	8.9	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 2.5
0 35W	27 22	1	9.0	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Large stars very faint	Set 2.5
0 20W	29 24	2	8.6	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 2.5
0 18W	30 21	2	9.0	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 2.5
0 37W	29 10	1	8.8	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 2.5
0 22W	29 34	2+	8.9	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		Set 1.5

loc. 0 R.H. + Start fresh box

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Date Thurs Aug 25/6, 1940 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 <sup>h</sup> 50 <sup>m</sup> 9	-04° 16'	I-12 <sub>2</sub>	E1037-D	SET 012	+24.3	20 09	21 47	4	00
16 473	AG 10501	19 <sup>h</sup> 51 <sup>m</sup> 3	+20° 44'	"	"	RECT 003	+24.0	21 55	22 35	4	00
16 474	HD 136 498	20 32.4	+23 52	"	"	"	+24.2	22 11	23 20	1	00
16 475	HD 209 079	21 21.1	+26 46	"	"	"	+24.1	23 24	00 04	1	00
16 476	AG 13167	22 00.6	+25 10	"	"	"	+23.9	00 08	00 44	2	00
16 477	HD 215360	22 39.5	+21 05	"	"	"	+24.0	00 47	01 35	2	00
16 478	H.D. 223094	23 41.5	+28 09	"	"	"	+24.0	01 39	01 57	3	00
16 479	H.D. 224459	23 53.0	+29 24	"	"	"	+24.0	02 00	02 43	3	00
16 480	HD 4349	00 42.4	+26 34	"	"	"	+24.0	02 46	03 07	2	00
16 481	AG 710	01 08.5	+25 45	"	"	"	+24.0	03 12	03 52	4	00
16 482	H.D. 11721	01 49.9	+25 37	"	"	"	+24.0	03 55	04 17	1	00
16 483	H.D. 14490	02 15.3	+29 28	"	"	"	+24.0	04 20	04 40	1	00
	Fowst-UT							OT. B		1	

Dome Temp..... 74°F

Focus..... 12.981

Dome Temp... +67°F

Transparency Conditions..... (faint handwritten notes)

Clouds at sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 <sup>w</sup> 51	-4°16'	1	9.5 9.8		1/2-1/2-1/2	Telescope wavers like nod	Set 2.5
0 <sup>w</sup> 39	+29°51'	1	8.98	K2	1/2-1/2-1/2		Set 7.5
0 <sup>w</sup> 44	+29°00'	1	8.90	K0	1/2-1/2-1/2	some difficulty w. field	Set 2.5
0 <sup>w</sup> 39	+27°00'	1	8.76	G5	1/2-1/2-1/2		Set 7.5
0 <sup>w</sup> 40	+25 25	1-2	9.3?	G0	1/2-1/2-1/2	Allow 0.2 mag for mag	Set 2.5
0 52 W	+29 20	2	9.5?	M0	1/2-1/2-1/2	"	Set 7.5
0 12 W	+28 25	1-2	8.30	K2	1/2-1/2-1/2	"	Set 2.5
0 45 W	+29 42	1-2	9.2?	K0	1/2-1/2-1/2	"	Set 7.5
0 22 W	+26 50	2	8.67	G5	1/2-1/2-1/2	"	Set 2.5
0 40 W	+26 00	3	9.7?	K0	1/2-1/2-1/2	0.4	Set 7.5
0 23 W	+25 52	3	8.77	G0	1/2-1/2-1/2	"	Set 2.5
0 21 W	+29 43	3	8.9?	G0	1/2-1/2-1/2	"	Set 7.5
					4-3		Set 10.5

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 August 27/22 - 11.11a About 40 visitors. ...  
 wound out outside 2:30 Disrupt ...

Date Monday, August 29/20, 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	Nova Scuti	18 50.9	-4 16	J 12's	L103a-0	SET 012	+21.3	20 24	22 51	1
16485	AG 12 677	21 30.9	+27 31	"	"	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 <sup>3</sup> 02 10	4
	Focus Test		D.T.B.							

Dome Temp  
 Focus  
 Dome Temp

Hour Angle  
 End

0.53W  
 0.32W  
 0.45W  
 0.42W  
 0.54W  
 0.46W  
 0.24W

Dome Temp... 66° F

Transparency Conditions *Occasional thin cloud*

18

Focus... 12.3.31

Aug. 29

MC	SC	MTW	STW
reset	+32.3	-23.2	+0.4

Dome Temp... 61° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 <sup>W</sup> 15	-4° 12'	1-1	9.0		$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	TELESCOPE EAST OF FIELD. TOOK A LITTLE WHILE BECAUSE FOCUS IS OUT OF LINE IN SEPT. DUE TO FLEWAVE	fine
0 53W	+27 46	2-1	8.79	G0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	TILL NOW W OF FIELD SET 7.5	fine
0 32W	+25 28	2	8.68	K <sub>2</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	A.G. 25 " 2.5	fine pr. guid.
0 45W	+29 28	2	8.77	K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" " " 7.5	strong
0 42W	+30 27	2	8.9?	K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" " " 2.5	fine
0 54W	+30 27	1-2	9.3?	G <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	Muggy in W & SW. Horiz. Some lightning " 7.5	strong
0 40W	+28 32	2	8.51	K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" " " " AG. 25 " 2.5	weak
0 24W	+29 43	1-2	8.62	K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ 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
Sketch - drawing of the 00.20 cloud cluster by hand!							
2 PH. loaded + 4.							
Trouble located and repaired, faulty contact in relay. L							



Dome Temp... 66°F

Focus... 12.980

Dome Temp.....

Transparency Conditions *Overcast*

Ending Time  
L.S.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12m W	28 08	3-2	9.0	K <sub>0</sub>	1/2-1/2-1/2		2.5
0 25 W	26 45	3	9.4	K <sub>0</sub>	1/2-1/2-1/2		7.5
0 26 W	27 21	3	9.0	G <sub>5</sub>	1/2-1/2-1/2	Lightning on Sa. horizon	2.5
0 30 W	26 03	3-	9.4	M <sub>0</sub>	1/2-1/2-1/2	Sp. 0257.15 V. bright	7.5
0 20 W	29 00	2	9.0	G <sub>5</sub>	1/2-1/2-1/2		2.5
0 11 W	27 14	3	9.0	G <sub>0</sub>	1/2-1/2-1/2		7.5
0 24 W	29 30	3-	9.0	A <sub>0</sub>	1/2-1/2-1/2	Wrong star identified on programme	2.5
0 32 W	27 26	2-3	9.1	K <sub>0</sub>	1/2-1/2-1/2	Difficult to identify field	7.5
0 24 W	29 30	3-	9.2	G <sub>5</sub>	1/2-1/2-1/2		2.5

Wed Aug 31, Thunderstorms  
aft. and evening. Overcast.

1 P.M. + 0.5 - 1 hr of 4 for dia.  
spotting green. Blue - white light.  
Some - up to 100 ft. height  
when - position.  
Aug 31 110 70 450 500  
1300 2000

Date Thurs. Sept 1/2, 1949 Observer Wm. G. - 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
16501	Nova Scuti	18 50.9	-04° 16'	I-12½	E 102a-O	01R	15.5	20 20	23 20	2	
16502	HD 210685	22 07.0	+26° 46'	"	"	0208	15.5	23 56	00 26	2	
16503	HD 216685	22 49.8	+25 50	"	"	"	15.2	00 32	01 12	1	
16504	HR 223019	23 40.3	+25 47	"	"	"	15.4	01 16	02 00	1	
16505	AD 37	20 06.7	+22 54	"	"	"	15.4	02 04	02 40	2	
16506	HD 7426	01 09.3	+25 54	"	"	"	15.2	02 43	03 07	2	
16507	HD 9658	01 29.4	+28 36	"	"	"	15.3	03 10	03 36	3	
16508	HD 12424	01 51.7	+23 17	"	"	"	15.4	03 37	04 05	3	
16509	HD 14876	02 01.1	+27 13	"	"	"	15.3	04 18	04 36	4	
16510	HD 18450	02 33.9	+26 22	"	"	"	15.3	04 32	04 50	4	
	Focus Test							9.7.6.			

Dome Temp.

Focus

Dome Temp.

Dome Temp... +56°F

Focus... 12:29.1

Dome Temp... -50°F

Transparency Conditions... Clouds near box 2

3.0 cloud clouds - 1.5 of height 2.2 mag

Seeing Time P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.53W	+24° 12	0-1	10.0		1/2-1/2-1/2	clouds on horizon only at starting Dome also covered with 3.0 seeing in 1.5 mag	OK
0 43W	+27 02	1	8.82	K <sub>0</sub>	1/2 1/2 1/2	clouds east of field 3.0 2.5	1.5
0 43W	+29 05	1	9.3?	K <sub>0</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 2.5	1.5
0 43W	+25 05	1	8.74	K <sub>5</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.5	1.5
0 58W	+30 13	1-2	9.0?	K <sub>5</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.5	1.5
0 28W	+25 12	2	8.7?	K <sub>0</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.3	1.5
0 29W	+28 51	2	8.53	K <sub>0</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.5	1.5
0 32W	+29 31	2	8.7?	K <sub>5</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.5	1.5
0 35W	+27 25	2	8.74	K <sub>0</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.5	1.5
0 26W	+26 34	2	8.74	K <sub>0</sub>	1/2-1/2-1/2	clouds on horizon only at starting 3.0 1.5	1.5
					4-3		OK End clarity
						2 P.H. Clouded in rapidly + platinum 3.0.	

23

Date Fri. Sept 2-3 1949 Observer Hd. Mc Julian Day 2433.16

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 Sculpti	18	50.9	-04	16	1-12	<sup>new</sup> E 10220	015	+18.6	20	11	23	33	4	
16512	HD 201626	21	57	+26	13	1-12	E 10320	008	18.5	00	18	01	43	1	
16513	" 2713	0	25.6	27	34	1-12	" "	"	18.7	01	56	02	30	2	
16514	" 6274	0	58.6	26	03	"	" "	"	18.5	02	33	03	09	-	
16515	" 6286	0	58.7	26	04	"	" "	"	18.6	03	11	03	37	-	
16516	AG 1158	2	4.5	29	20	"	" "	"	18.5	03	41	04	13	1	
16517	" 1265	2	16.4	29	50	"	" "	"	18.6	04	18	04	47	2	
	Focus Test Outside Through Base														

Dome Temp.

Focus 12.92

Dome Temp.

Hour Angle  
End

Dome Temp. 63 F

Focus 12.980

Dome Temp. 57° F

Transparency Conditions *Some haze low down*

24

*Aurora from 2130**end of last at 2225*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 3 09	-4 13	2 → 1	<i>Est in</i> 10.0		$\frac{1}{2} - \frac{1}{2} \frac{1}{2}$	<i>Seeing difficult w/c good seeing and point image. Telescope out of focus</i>	<i>Handled with most of weather fixed to left of about 1/2 slit.</i>
W 3 10	+26 26	2	9.0	K2	$\frac{2}{2} \frac{1}{2} \frac{1}{2}$	23 mag for base. AG 25	
W 0 32	+27 51	2	9.1	GO	$\frac{2}{2} \frac{1}{2} \frac{1}{2}$	" Aurora covering almost entire sky, 2250	
0 39W	+26 16	2	9.1	GO	$\frac{1}{2} \frac{2}{2} \frac{1}{2}$	AG 25 fine check of right star. Dec 3' out.	
1 06W	+26 10	2	8.9	GO	$\frac{1}{2} \frac{1}{2} \frac{1}{2}$	0.2 " " 2'	
0 36W	+29 34	2	9.1	GO	$\frac{1}{2} \frac{2}{2} \frac{1}{2}$	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. set 9	
					4-3		
						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 127460	19 45.0	29 38	12"	103a-D	"	22°	2103	2153	3
16519	195834	20 28.6	28 43	"	"	"	22	2154	2230	4
16520	203030	21 14.6	25 49	"	"	"	22	2233	2323	1
16521	209745	22 00.6	29 24	"	"	"	22	2328	2354	
	Focus Test	OTB								

20.0?

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

Hour Angle  
End ...  
Hour Angle  
End ...

Dome Temp. 63

Focus 12.980

Dome Temp. 63

Transparency Conditions Hazy + Cloud.  
About 40% visible. Shaded  $\frac{1}{2}$  of way out 74. 26  
7" with 4"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
040 <sup>m</sup> W	29 46	1	2.92	K0	1-1-1	2.5. .3" for large AG25	fine
033 <sup>m</sup> W	28 53	1-2-0	2.82	K2	1-1-1	" .2" "	fine
040 W	26 01	0-1	2.91	E5	1-1-1	" .3 " " ? " large thick lens	fine
	29 38	2	2.89	E5	1-1	4 ? P. Program Mag too small. Clouding over at 2359	fine
						4/3 1/2 2.89 2 PH	

Date *Sunday, September 14, 1919* Observer *Wm -* Julian Day *2439.184*

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.
16522	AG 8898	18 21.9	+29 21	I-12 $\frac{1}{2}$	E103a-7	<i>500</i>	21.6	19 48	20 44	4
16523	HD 185270 FOCUS TEST	19 33.2	+25 56	"	"	"	21.7	20 49	(21 45)	3

Hour Angle  
End

Dome Temp. 7.4  
 Focus 12.931 (Good)  
 Dome Temp.

Transparency Conditions *Not good in a.s. area - see in clouds*

Ending Time  
 I.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
0 <sup>m</sup> 57	+29°22'	.1	8.89	KO	$\frac{1}{8} - \frac{1}{2} - \frac{1}{2}$	AG25	<i>at</i>										
2 <sup>m</sup> 49	+26 01	1-0	8.89	35	$\frac{1}{8} - \frac{1}{2}$	AG25 <i>center</i>	<i>at</i>										
	O.T.B.				1/3	<i>solid</i>											
						<i>Set 9</i>											
						<i>APL level - need new box</i>											
						<i>Imp. spot. Sp. clearing in at sunset, sky remaining clear.</i>											
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> </tr> <tr> <td>Sep. 6</td> <td>-08.0</td> <td>+42.4</td> <td>+00.3</td> <td>+0.1</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													
						<i>wed, sept 7/8 Solid overcast &amp; rain W.</i>											

29

Date 8<sup>th</sup> 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
16525	HD 210789	22 07.7	24 59	"	"	"	13.5	23 24	00 02	2	0 46
16526	HD 1805	00 15.2	30 25	"	"	"	13.5	00 16	00 30	3	0 10
16527	HD 20173	22 24.3	25 15	"	"	"	13.5	00 33	01 15	4	0 22
16528	HD 20734	00 20.0	29 33	"	"	"	13.5	01 01	01 41	1	0 10
16529	HD 202	00 30.6	21 55	"	"	"	13.4	01 45	02 30	2	0 20
16530	HD 2352	21 42.5	25 17	"	"	"	13.5	02 18	02 52	3	0 30
16531	HD 991	01 44.5	27 27	"	"	"	13.2	02 55	03 35	3	0 20
16534	HD 13017	02 04.3	27 02	"	"	"	13.2	03 18	03 58	1	0 20
16532	HD 17933	02 47.1	29 42	"	"	"	13.4	03 46	04 26	2	0 40
16534	HD 17455	03 02.2	25 13	"	"	"	13.3	04 21	04 51	3	0 20
16535	HD 17392	02 42.2	26 41	"	"	"	13.4	04 43	04 57	4	0 20
16536	HD 17673	02 45.1	30 06	"	"	"	13.2	05 00	05 17	1	0 20
	Format Test							O.T.B			

Dome Temp. 5  
Focus 27  
Dome Temp. 4

Dome Temp. 50°F

Focus 12.981

Dome Temp. 45°F

Transparency Conditions Fair - in allowance for haze 30

back of clouds - ground over clouds  
17 points at 2000 ft. from field  
1/2 in. clouds from field

Ending 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 <sub>2</sub>	1/2-1/2-1/2	AG. 25 Clouds earlier in evening	Good
0 46W	25 13	0	8.75	K <sub>0</sub>	1/2-1/2-1/2	AG. 25	Good
0 54E	30 43	1-0	8.05	G <sub>0</sub>	1/2-1/2-1/2	" " Set on wrong star first - S 28.0	Good
0 32W	25 32	0-1	8.57	K <sub>2</sub>	1/2-1/2-1/2		Good
0 13W	27 49	0-1	8.86	G <sub>3</sub>	1/2-1/2-1/2		Good
0 31W	25 33	1	8.91	G <sub>3</sub>	1/2-1/2-1/2		Good
0 35W	25 34	1-0	8.91	G <sub>3</sub>	1/2-1/2-1/2		Good
0 25W	25 27	2	8.98	G <sub>3</sub>	1/2-1/2-1/2	* 02:30 clouds - faint - plate destroyed	NOTING
0 34W	27 29	1-2	8.98	K <sub>0</sub>	1/2-1/2-1/2		Good
0 22W	29 54	1-2	9.21	G <sub>0</sub>	1/2-1/2-1/2	numbered 11533	Good
0 30W	25 26	1-2	8.90	G <sub>3</sub>	1/2-1/2-1/2	" "	Good
1 07W	26 55	1-2	8.33	K <sub>0</sub>	1/2-1/2-1/2	* " " expanded in the evening	Good
1 24W	30 19	2	8.33	K <sub>0</sub>	1/2-1/2-1/2	" " (S 25.0)	Good
					4-3	OK (S 25.0)	
						3 P.H. ...	
						* Note = ...	

Friday  
Date 9/10 Sept 49 Observer Ba-Ma Julian Day 2933169

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	Novo Saur	18 40.9	+24 15	112"	E03A-0	<sup>Set</sup> .01K	14.5	1956	2330	3	0.87
16538	HD 216632	22 49.4	+27 29	"	"	Reset 0.008	14.2	0010	0019	4	0.87
16539	AG 13063	22 59.4	+27 16	"	"	"	14.3	00 26	00 52	1	0.87
16540	H.D. 22822	22 42.0	+27 42	"	"	"	14.2	01 01	01 17	2	0.87
16541	H.D. 22943	00 22.2	+30 21	"	"	"	14.4	01 20	01 44	3	0.87
16542	HL 3765	00 35.3	+29 28	"	"	"	14.4	01 47	02 07	4	0.87
16543	AG 966	01 48.9	+29 03	"	"	"	14.1	02 11	02 25	1	0.87
16544	H.D. 9714	01 30.0	+27 45	"	"	"	14.2	02 27	02 41	2	0.87
16545	H.D. 9954	01 22.4	+25 24	"	"	"	14.3	02 44	02 51	3	0.87
16546	H.D. 10296	01.35.6	+27 58	"	"	"	14.3	03 02	03 20	4	0.87
16547	H.D. 14474	02 15.3	+20 14	"	"	"	14.2	03 24	03 35	1	0.87
16548	H.D. 16137	02 30.4	+27 01	"	"	"	14.5	03 42	03 56	2	0.87
16549	H.D. 18402	02 52.2	+26 56	"	"	"	14.4	03 57	04 10	3	0.87
16550	H.D. 17079	02 37.5	+27 43	"	"	"	14.3	04 15	04 33	4	0.87
16551	HL 21910	02 26.0	+24 12	"	"	"	14.2	04 42	04 54	1	0.87
16552	HL <u>24301</u>	02 45.9	+23 22	"	"	"	14.3	04 57	05 07	2	0.87

Dome Temp. 57°F

Focus 12.981

Dome Temp. 50°F

Transparency Conditions *Good*

Ending Time  
L.S.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0333 <sup>W</sup>	-09 14	1-2	<sup>mag. 2.1</sup> 10.0	—	1-1-1	Mark difficulty in identifying stars.	
0 25W	+27 45	2	8.03	G <sub>0</sub>	1/2-1/2-1/2	Damaged watch by knocking off table.	
0 53W	+27 33	2-1	9.27	G <sub>5</sub>	1/2-1/2-1/2	Teles. ...	
0 28W	-15 15	2	8.70	K <sub>0</sub>	1/2-1/2-1/2	2230 Focus lens failed to operate, but work done	
0 16W	+30 30	2-1	8.90	G <sub>5</sub>	1/2-1/2-1/2	being freed manually. At conclusion of ...	
0 26W	+27 45	2	8.91	K <sub>0</sub>	1/2-1/2-1/2	Found plug ...	
0 22E	+29 19	3	8.88	G <sub>0</sub>	1/2-1/2-1/2	? Fogged by arc while being numbered?	
0 05W	+28 00	3	8.78	G <sub>5</sub>	1/2-1/2-1/2	* looks brighter than 8.81 pto	
0 21W	+25 38	3	8.76	K <sub>0</sub>	1/2-1/2-1/2		
0 38W	+23 15	3	9.27	K <sub>0</sub>	1/2-1/2-1/2		
0 13W	+30 27	3	8.77	G <sub>5</sub>	1/2-1/2-1/2		
0 20W	+27 15	3	8.86	G <sub>0</sub>	1/2-1/2-1/2		
0 15W	+27 01	3	8.10	G <sub>0</sub>	1/2-1/2-1/2		
0 34W	+30 02	3	7.77	G <sub>5</sub>	1/2-1/2-1/2		
0 22W	+29 20	3	8.77	K <sub>0</sub>	1/2-1/2-1/2	2 PHL loaded	
0 15W	+26 31	3	8.61	T <sub>0</sub>	1/2-1/2-1/2		





Dome Temp. +57 F

Focus 12.982

Dome Temp. ....

Transparency Conditions *Some cloud + haze*

34

*about 75 visitors showed up with 74" H x 5 with 4"*

Ending Time  
P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 39	29 05	1	8.95+	G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
W 0 40	28 03	1	8.59	K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
W 0 39	28 04	1	8.93	K <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
0 53 N	29 23	2	8.59	K <sub>2</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
0 20 W	28 34	2	8.6	G <sub>0</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
	30 10	3	8.47	K <sub>5</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
0 22 W	26 15	3	8.6	G <sub>-</sub>	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	<i>Clouds coming over</i>	
					4/3		
						0300 E.D.T. light filmy cloud + scattered cirrus cloud down.	
						3 P.H. Plates needed!	
						Heat on mirror!	
						Sunday Sept 11-12, 1949	
						Clearcast all night.	
						MC          SC          MTW   STW   Gr Sep. 12    -13.0    +50.4    +09.2   +0.4	



Dome Temp. 57°F

Focus 12.981

Dome Temp. 50°F

Transparency Conditions Good. No allowance for haze. 36

Overcast, clearing by 0100 EST except for  
few scattered clouds in SE.

Seeing Time  
E.S.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 25W	28 48	1-	8.6	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Allowing 2.2 mag. throughout.	
0 22W	28 42	1	8.88	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0 17W	26 18	1	8.6	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0 18W	26 10	1-	8.8	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0 18W	29 51	1	8.98	GK0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	(programme star taken)	
0 22W	27 26	1	8.79	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Seeing variable	
0 21W	30 06	1	8.7	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0 30W	30 00	1-0	9.1	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0 54W	25 25	1	8.7	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Final lock beam of cloud at high phase	
1 14W	27 29	1-0	8.49	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
1 28W	27 22	1+	8.2	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
					4/3.		
						4 P.H. loaded. Plates needed.	
						H on N.	
						MC SC MTW STW Sep. 14 -15.3 +51.4 +18.3 +0.7	



Dome Temp. +58°F

Focus 12.981 (then 12.970) - *John* notice this at first - Hd.

Dome Temp. +48°F

Transparency Conditions

*Planned good*

Ending Time P.H.  
2.57

Hour Angle End	Declination	Seeing	Ftg. Mag.	Sp.	Comp.	REMARKS	Quality
23 36	-4 13	1	<sup>cut</sup> 10.5	-	1/2-1/2	Telescope too guiding	
0 23W	+27 13	1+	8.49	K0	1/2-1/2-1/2	Set focus 12.970 AG25	
0 52W	+29 49	1-0	<sup>8.4</sup> 9.0	A2 G5	1/2-1/2-1/2		
2 12W	+29 48	1	<sup>9.0</sup> 10.0	K5	2/2-2/2	no Mg given in prog	
0 09W	+26 17	1	8.6	G0	1/2-1/2-1/2	" dec 3' out <sup>see p. 16/17 also 3' out</sup>	
0 26W	+26 16	1	8.77	G0	1/2-1/2-1/2	" dec 3' out	
0 20W	+20 51	0-1	8.88	K0	1/2-1/2-1/2	"	
0 24W	+25 35	0-1	8.93	G0	1/2-1/2-1/2	"	
0 19W	+30 04	0-1	8.44	F?	1/2-1/2-1/2	no spectral type listed	
0 32W	+30 06	0-1	8.54	K0	1/2-1/2-1/2	"	
0 25W	+30 20	0-1	8.60	G5	1/2-1/2-1/2	dec 4' out	
0 53W	+28 58	0-1	8.89	K0	1/2-1/2-1/2	Seeing variable	
0 22W	26 37	0	8.61	G0	1/2-1/2-1/2	"	
0 20W	28 06	0	8.45	G0	2/2-2/2	set 5	
					4-3	set 9	
						<sup>100-100K</sup> Sep. 16 -20.2 SC +49.0 MTW STW +26° -0.1	
						2 plate holders loaded - plates needed	

Date Sep 15-17, 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 20	23 44	3	0 39W
16586	HD 215956	22 43.8	+28 12	"	"	"	17-8°	23 54	00 10	4	0 51W
16587	HD 223138	23 41.9	+27 52	"	"	"	17-8°	00 34	00 48	1	0 29W
16588	" 223869	23 48.1	+25 27	"	"	"	18-0	01 07	01 17	2	0 52W
16589	" 1633	00 15.5	+25 56	"	"	"	18-0	01 21	01 37	3	0 45W
16590	" 4372	00 41.0	30 24	"	"	"	18-0	01 41	01 49	4	0 32W
16591	" 4388	00 41.1	30 25	"	"	"	18-0	01 50	02 00	2	0 43W
16592	" 6525	01 01.1	+29 10	"	"	"	18-0	02 03	02 17	2	0 39W
16593	" 9224	01 25.7	+28 54	"	"	"	18-0	02 20	02 28	3	0 26W
16594	" 11781	01 50.5	+26 59	"	"	"	18-0	02 31	02 44	4	0 22W
16595	" 12052	01 53.2	+28 23	"	"	"	18-0	02 52	03 13	1	0 43W
16596	" 12728	01 59.6	+28 39	"	"	"	18-0	03 18	03 30	2	0 55W
16597	" 14874	02 18.9	+30 12	"	"	"	18-0	03 34	03 52	3	0 57W
16598	" 15326	02 22.9	+29 14	"	"	"	18-0	03 54	04 08	4	1 09W
16599	" 17119	02 39.7	+29 55	"	"	"	18-0	04 19	04 39	1	1 24W
16600	" 17674	02 45.1	+29 52	"	"	"	18-0	04 42	04 50	2	1 29W

Dome Temp.

Focus

Dome Temp.

Dome Temp. 59°F

Focus 12.970

Dome Temp. (see over)

Transparency Conditions *Good at start, improving, cloud 40*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 29W	+29 50	0	8.49	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Blondy to start with, seeing poor, <sup>had</sup> drawing	stars
0 51W	+28 23	0-1	8.54	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Field confusing at first! - set sub. <sup>hours for</sup> and <sup>corrected</sup> before 3rd step.	stars
0 29W	+28 08	2	8.7?	M0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	stars
0 52W	+25 44	2	8.32	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	PH Not open for last 12 min.	fine
0 45W	+25 15	2	9.0?	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	fine
0 32W	+30 41	3	8.6?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Visitor's Eyepiece field	stars
0 43W	+30 42	3	8.8?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars
0 39W	+29 24	2-3	9.0?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 26W	+29 10	1-2	7.9?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars
0 22W	+27 16	2	9.2?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars
0 43W	+28 38	2	9.0?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 55W	+28 53	2	8.44	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars
0 57W	+30 27	2	8.9?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars
1 09W	+29 28	2-3	8.7?	G1	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars
1 24W	+30 07	2	9.0?	G5	$\frac{1}{2}-\frac{1}{2}$	Opened plate on wrong star - want p.h. at 1.	stars
1 28W	+30 06	3	8.2?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	stars



(Continued)

Date SEP. 16-17, 1949 (FRI.) Observer Gr. Julian Day           

Dome Temp  
Focus  
Dome Temp 5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16601	HD 19165	02 59.9	+27 18	I-12½	E 10320	-008	18.0	04 54	05 10	3
16602	" 26372	04 05.1	+26 15	"	"		18.0	05 13	05 29	4
	Focus test			OTB						

Hour Angle  
End

1344 +2  
0494 +2

Dome Temp.....

Transparency Conditions *fairly good*

47

Focus.....

Dome Temp. *54°F*

Ending Time E.S.T. P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>5 10 3</i>	<i>1 34 W</i>	<i>+27 30</i>	<i>2</i>	<i>8.3?</i>	<i>G<sub>0</sub></i>	<i>1/2 - 1/2 - 1/2</i>	<i>AS-25 still lit by moon + some sky</i>	<i>atmp</i>
<i>5 54</i>	<i>0 48 W</i>	<i>+26 23</i>	<i>2</i>	<i>9.1?</i>	<i>G<sub>0</sub></i>	<i>1/2 - 1/2</i>	<i>AS-25 spot off slat all emptied</i>	<i>atmp</i>
						<i>4/3</i>	<i>also non-pisces x for focus test 4 ph. loaded + 4 H.O.M.</i>	<i>poor</i>
							<i>well exposed focus test</i>	





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Date Sunday Sept. 18-19, 1949 Observer G. - M. Julian Day 2953.78

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
16604	HD 204658	21 25.0	+28 26	1-12 $\frac{1}{2}$	E-10320	Set .008	19.0 <sup>o</sup>	22 45	23 11	2	1 16 W +2
16605	" 205700	21 32.0	+29 05	"	"	"	19.0	23 14	23 29	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	1 50 W +2
16608	218451	23 02.1	29 54	"	"	"	19.0	00 08	00 20	2	2 00 W +2
16609	230114	23 20.6	25 39	"	"	"	19.0	00 23	00 37	3	2 03 W +2
16610	1406	00 13.1	29 49	"	"	"	19.0	00 52	01 04	4	2 06 W +2
16611	3650	00 31.2	26 12	"	"	"	19.0	01 11	01 24	1	2 07 W +2
16612	6132	00 52.0	29 27	"	"	"		01 31	03 17	2	2 08 W +2
From M. J. S. O. T. B.											

Dome Temp. 63  
Furn. 117.2  
Dome Temp.Hour Angle  
End

Dome Temp.  $63^{\circ}F$   
 Focus.....12.970.....  
 Dome Temp..... $57^{\circ}F$

Transparency Conditions *Cloudy - clearing 2200*

46

Ending Time P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:16	16 W	+28 39	0	9.0?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	
1:26	26 W	+29 19	0	8.4?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
1:47	47 W	+29 27	1	8.8?	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0:35	35 W	+28 44	1	8.5?	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0:48	48 W	30 11	1	5.5	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0:46	46 W	25 55	1+	5.8	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		
0:21	21 W	30 17	1+	5.6	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Triplet for 10 minutes - small bright field	
0:25	25 W	26 30	1+	8.5?	R0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Silver variable 3 stages	
1:50	50 W	21 45	2	6.62	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Feige - very dark - 100 p. dark - faint Extremely close - ground top. Double technique - release of secondary off-camera - 1.5" field of view View about 2000.	
							H on M. 4.5 H = 5	
							Sep. 19 MC SC MTW STW -19.1 +53.8 +11.1 +0.2	

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Date Tues. Sept 20/21, 1949 Observer Wm - M.C. Julian Day 2 433 480

Plate No.	Object	R.A. 1900	Declination 1900	Inat.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.	Exposure Sec.
16 613	AG 9459	18 <sup>h</sup> 55 <sup>m</sup> 9	+26° 12'	2-12 2	E103a-0	567 200	+10.0	19 09	19 37	3	0.10
16 614	AG 9594	19 <sup>h</sup> 03 <sup>m</sup> 0	+20° 03'	"	"	"	+15.0	19 42	20 12	2	0.10
16 615	HD 187162	19 <sup>h</sup> 43 <sup>m</sup> 4	+23° 14'	"	"	"	+15.0	20 15	20 43	1	0.10
16 616	HD 187280	19 44.1	+28 04	"	"	"	+15.0	20 46	21 14	2	0.10
16 617	HD 197 254	20 37.7	+16 45	"	"	"	+15.0	21 27	21 43	2	0.10
16 618	HD 205 237	21 23.2	+27 10	"	"	"	+14.0	21 53	22 21	1	0.10
16 619	AG 13 104	22 03.6	+25 23	"	"	"	+13.0	22 26	22 54	1	0.10
16 620	HD 215 732	22 42.2	+20 22	"	"	"	+14.0	22 53	23 21	2	0.10
16 621	AG 991	01 44.0	+28 12	"	"	"	+13.0	02 01	02 29	1	0.10
16 622	AG 1143	02 1.9	+29 09	"	"	"	+13.0	02 31	02 59	1	0.10
16 623	HD 17396	02 42.3	29 56	"	"	"	+13.0	03 04	03 21	5	0.10
16 624	HD 19079	02 59.1	29 48	"	"	"	+13.0	03 29	03 57	4	0.10
16 625	HD 25461	03 57.6	28 56	"	"	"	+13.0	03 57	04 19	1	0.10
16 626	HD 3702	4 53.5	25 47	"	"	"	+13.0	04 28	04 44	2	0.10
	AG 2606	5 35.6	26 13	"	"	"				>	
16 626 F	Focus Test				Outside Through						

Dome Temp

Focus

Dome Temp

Dome Temp. +55°F

Transparency Conditions

FAIR

48

Focus 121370

Dome Temp. +47°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 <sup>W</sup> 20	+26° 20'	0!	8.56	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG25	good
0 <sup>W</sup> 46	+25 08	0	8.09	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	IF IT WERE ONLY 75 INSTEAD OF 85 THE DISTANCE FROM A 100 INCH TO 100 INCH DIA. CIRCLE WITH	fine
0 <sup>W</sup> 38	—	0	8.55	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
1 <sup>W</sup> 09	+28° 12'	0	8.90	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 <sup>W</sup> 50	+29 12	0	<del>8.76</del> 8.82	<del>K0</del> G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 <sup>W</sup> 31	+27 22	0	8.88	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
0 <sup>W</sup> 29	+26 47	0	8.76	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
0 <sup>W</sup> 23	+29 38	0	8.93	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	power shut off. or some clouds.	good
0 <sup>W</sup> 22	28 27	0	8.88	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" brighter star pair $\oplus$ in front pair	fine
0 35 W	29 23	0	8.93	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
0 21 W	30 08	0	8.65	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 30 W	30 00	0	8.75	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 01 W	29 05	0	8.75	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	fine
0 30 E	25 53	0	8.02	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	clouds near end of exp.	good
		0	9.0	M0		clouds by field before exp. begun	
					4-3	3 p.h. loaded + 4. h on in	



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Date Wed Sept 21/52 1952 Observer Pa - G. r Julian Day 24331.31

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 Magn Est.
16627	AG 12135	21 02.6	29 02	"	"	"	13.0	22 52	23 00	1	10.5
16628	" 12398	21 17.0	29 51	"	"	"	13.0	22 24	22 42	1	10.7
16629	HD 204923	21 24.7	29 37	"	"	"	13.0	22 45	23 08	3	10.9
16630	" 200289	21 40.1	29 51	"	"	"	13.0	23 06	23 28	4	10.9
16631	AG 13206	22 04.3	29 19	"	"	"	13.0	23 26	23 48	1	11.0
16632	HD 21380	22 29.0	29 09	"	"	"	13.0	23 51	00 02	2	11.6
16633	" 215360	22 39.5	29 05	"	"	"	13.0	00 25	00 15	3	11.9
16634	" 216465	22 48.0	+28 54	"	"	"	13.0	00 19	00 32	4	1.29W
16635	" 216685	22 49.8	+28 50	"	"	"	13.0	00 36	00 48	7	1.42W
16636	AG 13850	22 57.9	+28 40	"	"	"	13.0	00 56	01 06	2	1.51W
16637	HD 218113	23 00.3	+27 40	"	"	"	13.0	01 13	01 27	3	2.10W
16638	" 3333	00 31.2	+29 18	"	"	"	13.0	01 39	01 49	4	1.01W
16639	" 4268	00 40.0	+27 25	"	"	"	13.0	01 52	02 02	1	1.06W
16640	" 5449	00 51.2	+28 15	"	"	"	13.0	02 05	02 19	2	1.11W
16641	" 10829	01 41.0	+30 19	"	"	"	12.5	02 22	02 30	3	0.33W
16642	AG 977	01 42.0	+27 59	"	"	"	12.5	02 37	02 51	4	0.52W

Dome Temp

Focus 12.77

Dome Temp

Dome Temp. 5.4

Focus 12970

Dome Temp. (See over)

Transparency Conditions

Clouds heavy clearing by 2115

50

Ending Time  
E.S.T.

P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
102 W	30 15	2-1	8.91	G5	1-1-1	AG 25	fine
109 W	30 09	2-1	8.92	K0	1-1-1		fine
120 W	25 50	2-1	8.97	K5	1-1-1		fine
125 W	30 34	2-1	8.90	K5	1-1-1		fine
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		fine
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	9.6?	G5	1-1-1		fine
106 W	+27 40	3	8.97	G5	1-1-1		fine
111 W	+28 31	2-3	9.1?	G5	1-1-1		fine
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

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(Continued)

Date Wed Sep 21-22, 1949 Observer G.R. Julian Day 2425181

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 Est
16643	HD 11130	01 44.4	+29 00	T-12 $\frac{1}{2}$	E 10320	008	12.5	02 56	03 06	1	1 05 W +
16644	AG 1077	01 52.7	+25 18	"	"	"	12.0	03 11	03 29	2	1 20 W +
16645	HD 12260	01 55.2	+29 04	"	"	"	12.0	03 32	03 46	3	1 34 W +
16646	" 13943	02 10.6	+29 20	"	"	"	12.0	03 49	04 03	4	1 36 W +
16647	" 17963	02 48.1	+29 42	"	"	"	12.0	04 06	04 28	1	1 23 W +
	Focus Test		O.T.B.								

Dome Temp.

Focus

Dome Temp. 5

Hour Angle  
Est

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
1 05 W	+ 29 13	2-3	8.8	G5	1-1-1	AG 25	Very
1 20 W	+ 29 34	2	9.1	G0	1-1-1	"	fine
1 34 W	+ 29 18	2-3	9.0	K0	1-1-1	"	fine
1 36 W	+ 29 35	2-3	9.0	G5	1-1-1	"	
1 23 W	+ 29 55	2	9.2	G0	1-1-1 4/3	Some light clouds passing on. Put focus test on last star spec. 2 P.H. loaded + 8 H. on M.	
<p>Thurs, Sep 22/23, 1944. More than 500 clouds. Wm.                  ...                  ...                  ...</p>							



Dome Temp. 45

Focus 12.970

Dome Temp. +1.0°

Transparency Conditions

About 40 visitors. Cloudy. High humidity. 0.4 at 21° and 5°

The dac clamp on 4" telescope has been broken.

Ending Time P.M. E.S.T.

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	"	
0131W	27 18	1	8.91	K0	1-1-1	"	good
0133W	27 01	1	8.91	G5	1-1-1	PH <sup>+</sup> 1/2 sec in 5" fly. 1/2 sec	
0133W	25 23	1	8.88	K0	1-1-1	Smart telescope. 1/2 sec. 1/2 sec. 79°	good
0134W	26 11	1	8.82	G5	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	G5	1-1-1	late. a d. only a few	no spots
0222W	30 03	1	8.82	G0	1-1-1	scattered over present at dawn	with
0228W	26 11	1	8.56	K0	1-1-1		Low
0253W	25 52	1	8.79	G5	1-1-1		no spots
0223W	25 53	0	8.82	G5	1-1-1		good
0247W	26 34	1	8.79	K0	1-1-1	Wrong star	good
0128	27 07.8	0	8.22	K0	1-1-1	Some doubt which star !!!	completely fogged.

Date Sun Sept 25-26, 1919 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.
<del>46662</del>	<del>HD 195526</del>	<del>20 25.9</del>	<del>25 41</del>	<del>I.L.</del>	<del>F 340</del>	<del>27</del>	<del>+11.0</del>	<del>20 54</del>	<del>21 24</del>	<del>2</del>
<del>46663</del>	<del>HD 195526</del>	<del>20 25.8</del>	<del>25 37</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>+11.0</del>	<del>21 28</del>	<del>21 48</del>	<del>3</del>

Dome Temp. \_\_\_\_\_

Focus 11.5

Dome Temp. \_\_\_\_\_

Hour Angle  
End

1946

11.0

Dome Temp. +50 F

Focus 12.971

Dome Temp. ....

Transparency Conditions

Clearing after sunset. Some haze <sup>56</sup>

Found Plunger half out. See note!

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 046	25 54	1	5.7 5.0	Go	1/2 1/2 1/2 1/2	* Lobe faint.	
W 1 01	23 48		3.5	K0	1/2 1/2 2 1/2	Clouds. Call end 2146 Remained thick, cloud up at 2300 L. plates completely fogged	



57

Date Mon. Sept 24/1937 Observer Co. G. V. Julian Day 2433186

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	AS 10577	19 28.3	25 13	"	"	"	17.1	1904	1930	4	0014
16662	10151	19 31.7	30 10	"	"	"	17.1	1933	1951	1	0014
16663	10154	19 31.9	26 16	"	"	"	17.1	2002	2026	2	0014
16664	WD 185341	19 33.1	27 58	"	"	"	17.1	2032	2052	3	0014
16665	185860	19 41.8	20 00	"	"	"	17.1	2056	2100	4	0014
16666	184753	19 56.5	26 52	"	"	"	17.1	2122	2140	2	0014
16667	AA 11571	20 34.7	26 21	"	"	"	17.1	2147	2201	1	0014
16668	WD 198526	20 45.8	28 37	"	"	"	17.1	2215	2245	1	0014
16669	202862	21 27.7	25 58	"	"	"	17.1	2239	2250	1	0014
16670	204975	21 26.8	27 46	"	"	"	17.1	2259	2315	1	0014
16671	206099	21 40.1	29 51	"	"	"	17.1	2319	2335	2	0014
16672	206778	21 40.7	29 56	"	"	"	17.1	2332	2357	3	0014
16673	22348	23 44.3	+26 29	"	"	"	17.1	0032	0145	2	0104
16674	225272	23 59.9	+27 07	"	"	"	17.1	0058	0108	1	0114
16675	8791	01 21.6	+24 56	"	"	"	17.1	0150	0206	2	0114
16676	11964	01 47.6	+25 31	"	"	"	17.1	0217	0228	3	0114

Dome Temp. 60

Focus: 12.971

Dome Temp. 55°F

Transparency Conditions Transparency good. Strong wind at 2000.

clouds 4 AM. DT.

Clouds quite well at 6 AM but is still quite a bit of haze stuff.

Reading Time  
P.E.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0009W	25 19	0	8.99	CO	1-1-1	AB 25	fine
0031W	30 19	0	8.98	KO	1-1-1	"	fine
0057W	26 24	0-1	8.93	KO	1-1-1	"	fine
0121W	28 04	1-	8.82	KO	1-1-1	"	fine
0139W	30 07	1-	8.95	KO	1-1-1	"	fine
0150W	27 01	1+	8.91	K5	1-1-1	"	fine
0139W	26 31	2	<sup>8.93</sup> 8.86	KO	1-1-1	" look for faint 8.86	fine
0152W	28 17	2	8.88	KO	1-1-1	" at top clouds rolled in from	fine
0150W	26 02	2	8.97	ES	1-1-1	" S.W. this was a bit on the	fine
0150W	28 07	2+	8.89	KO	1-1-1	" wind comes in it is strong	fine
0158W	30 04	2	8.90	K5	1-1-1	" blowing 20-30 mph	fine
0216W	28 59	2	8.89	EO	1-1-1	Dec. probably read incorrectly 9 am very much improved	fine
0104W	26 46	1	8.50	K0	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 double	fine
0049W	24 07	<sup>23</sup> 1	8.70	K0	1-1-1	Wrong star re-observed, which by one minute, I'm confident	fine
0046W	25 03	<sup>23</sup> <sup>46</sup> 1	8.55	G5	1-1-1	Wrong star transited with the fainter fields	fine

TO BE LEFT 21/10, 2000  
RAIN

Date Thurs Sept 29-30 Observer L. Gu Julian Day 2,433, 1889

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 <sub>2</sub>	ErosA <sub>0</sub>	set .008	+11.4	20 00	20 22	1	0 22 W
16678	" 196940	20 35.4	25 57	"	"	"	+11.4	20 29	20 48	2	0 24 W
16679	" 198821	20 47.9	28 30	"	"	"	+11.3	20 51	21 13	3	0 25 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 58	1	0 31 W
16682	" 209680	22 00.1	29 28	"	"	"	+11.3	21 59	22 43	2	0 33 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 37 W
16685	" 222033	23 32.1	30 07	"	"	"	+11.1	23 15	23 25	1	0 46 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 33 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 37 W
16690	3333	00 31.2	29 18	"	"	"	+11.0	01 02	01 16	2	0 58 W

Dome Temp. +6  
Hum. 12.57  
Dome Temp. +

Dome Temp.  $+50^{\circ}\text{F}$ 

Focus 12.971

Dome Temp.  $+51^{\circ}\text{F}$ 

Transparency Conditions

good

60

Sep. 29

MC  
-29.9SC  
+58.0MTW  
-27.2STW  
+0.3

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Reversed telescope tried to find Nova faint, gave up after 1 hr. faint!	
0 28 W	25 57	0	8.81	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	good
0 36 W	26 08	0	8.72	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	good
0 39 W	28 41	0	8.81	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 35 W	27 17	0	8.43	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
0 27 W	29 52	0-1	8.57	K6	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 56 W	29 43	0-1	9.98	K5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 46 W	28 15	0-1	7.86	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
0 35 W	26 43	0-1-0	8.20	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 06 W	30 25	0	7.58?	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 00	30 27	0	8.40	G4	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 03 W	26 08	0-1	8.69	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
0 18 W	28 33	0	8.51	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 47 W	27 51	0	8.60	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
0 58 W	28 35	0	8.44	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good

61

CONT'D.

Date Thurs. Sept 29-30 Observer G.V. Julian Day 2423.189

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16691	4512	00 40.5	25 38	E12 $\frac{1}{2}$	E-103a0	.008	+11.0	01 33	01 47	3
16692	5007	00 47.0	25 14	"	"	"	+11.0	01 53	02 07	4
16693	5092	00 47.7	29 48	"	"	"	+11.0	02 13	02 27	1
16694	17283	02 41.4	26 19	"	"	"	+11.0	03 14	03 32	2
16695	17382	02 42.2	26 40	"	"	"	+11.0	03 37	03 50	3
16696	17396	02 42.3	29 56	"	"	"	+10.9	03 55	04 15	4
16697	17674	02 45.1	29 52	"	"	"	+10.9	04 20	04 25.8	1
16698	17673	02 45.1	30 06	"	"	"	+10.9	04 31	04 42	2
	FOCUS TEST		O.T.B.							

Dome Temp. +50°F

Focus 12.971

Dome Temp. +41°F

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 19W	25 54	0	8.49	K <sub>2</sub>	1/2-1/2-1/2	AG 25 (abandoned first attempt)	Weak
1 33W	25 30	0	8.48	K <sub>0</sub>	1/2-1/2-1/2	" "	Weak
7 54W	30 04	0	8.47	K <sub>0</sub>	1/2-1/2-1/2	" " (could not pick up first trial) comp. strong (tried 2, 3, 4)	Good
1 05W	26 33	0	8.69	K <sub>0</sub>	1/2-1/2-1/2	" " (could not pick up first trial)	Good
1 20W	26 53	0+	8.33	K <sub>0</sub>	1/2-1/2-1/2	" " COMING FROM NORTH	Weak
1 46W	30 09	0-	8.65	G <sub>5</sub>	1/2-1/2-1/2	" " CLOUDS AT THIS POINT	Weak
1 54W	30 04	1	7.64	G <sub>5</sub>	1/2-1/2	CLEAR, VIS. GOOD	Good
2 11W	30 18	1-2	8.73	K <sub>0</sub>	1/2-1/2-1/2	CLOUD AGAIN!	Weak

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 + Grullia Public Schools.  
 Hd, L, N showed 4 with 74", 3 with 5".

Date Fri Sept 30 - Oct 1/49 Observer H(L) 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	E10300	set 008	+15.2	20 30	21 08	3	
16700	<sup>W</sup> HD 218293	23 02.6	49 40	"	"	"	+15.2	22 19	22 31	1	
16701	HD 212442	22 19.2	14 46	"	"	"	+15.2	22 35	22 48	2	
16702	HD 210170	22 03.4	17 04	"	"	"	+15.2	22 51	23 03	3	
16703	HD 210208	22 03.7	42 27	"	"	"	+15.2	23 "	23 33	4	
16704	HD 222317	23 34.4	27 41	"	"	"	+15.1	23 01	00 01	1	0440
16705	" 3590	00 33.7	25 47	"	"	"	+15.1	00 09	00 35	2	0440
16706	" 4686	00 43.8	28 11	"	"	"	+15.2	00 38	01 06	3	0440
16707	" 10095	01 33.6	27 15	"	"	"	+15.2	01 11	01 35	4	0440
16708	" 11453	01 47.5	28 19	"	"	"	+15.2	01 38	01 58	1	0440
16709	" 12897	02 01.2	25 51	"	"	"	+15.2	02 01	02 21	2	0440
16710	" 14969	02 19.7	29 26	"	"	"	+15.2	02 24	02 46	3	0440
16711	" 19485	03 02.8	25 13	"	"	"	+15.1	02 50	03 34	4	0440
16712	" 317 <sup>82</sup> <del>78</del>	04 53.5	25 47	"	"	"	+15.2	03 40	04 10	1	0440
16713	" 32093	04 55.6	26 30	"	"	"	+15.1	04 13	04 47	2	0440
16714	" 33541	05 05.9	73 09	"	"	"	+15.1	04 55	05 00	3	0440

Dome Temp. 58  
 Focus 15.542  
 Dome Temp. 43°F

Gri Sept. 30, 1949

Transparency Conditions Good

64

changed to 25" camera

12 1/2 lens was { Focus 12.970 25" lens is { Focus 15.570  
 Tilt 20.25 25" lens is { Tilt 23.18

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 28	27 39	1	8.12	G0	1-1-1	AG Unstable and noisy	fair
E 0 13	49 55	1	6.8	Ave	1-1-1	B2	fair
W 0 46	15 00	1	6.71	B8	1-1-1	Bin	fair
W 1 17	17 19	1	6.78	A0	1-1-1	Bin	fair
W 1 48	42 04	1	7.50	B9	1-1-1	Bin	fair
O 45 W	27 53	1	7.07	G0	1-1-1	AG	fair
O 20 W	26 04	1	7.87	K0	1-1-1	A.G. 25"	fair
O 40 W	28 27	1	7.77	K0	1-1-1	" "	fair
O 30 W	27 30	1-2	8.08	K0	1-1-1	" " guiding	fair
O 29 W	28 35	2-3	8.06	K5	1-1-1	" " guiding	fair
O 38 W	26 07	2-3	7.91	G5	1-1-1	" " guiding	fair
O 45 W	29 40	2-3	8.18	K2	1-1-1	" "	fair
O 50 W	25 24	2-3	8.70	G5	1-1-1	" " Double lens?	fair
O 25 E	25 52	2-1	8.02	G5	1-1-1	" "	fair
O 10 W	26 36	1-2	8.28	G5	1-1-1	" " I.P.H. loaded 1+8	fair
O 10 W	73 13	1-2	5.76	A0	1 1/2 - 1 1/2	Bin. Focus fast 6/4	good



65

Date Sat. Oct 4/2, 1919 Observer Wm - Gu Julian Day 2 432.181

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 213 552	22 30.2	+20 27	I-25	F1030-0	655	+14.7	22 25	23 07	4	1 42	
16 716	HD 215 303	23 02.6	49 40	"	"	"	+14.7	23 13	23 27	1	0 14	
16 717	HD 221 469	23 47.2	26 00	"	"	"	+14.7	23 34	00 33	2	0 33	
16 718	HD 3590	00 33.7	25 47	"	"	"	+14.7	00 39	01 10	3	0 34	
16719	HD 4372	00 41.0	30 24	"	"	"	+14.7	01 15	01 40	4	1 25	
16720	HD 4368	00 41.1	30 25	"	"	"	+14.8	01 42	02 07	1	1 14	
16721	HD 10981	01 42.8	30 17	"	"	"	+14.7	02 14	03 06	2	1 52	
16722	HD 12897	02 01.2	25 51	"	"	"	+14.6	03 11	03 37	3	1 51	
16723	HD 15256	02 22.3	29 41	"	"	"	+14.6	03 42	04 01	4	2 01	
16724	HD 18202	02 50.3	28 45	"	"	"	+14.6	04 06	04 19	1	1 51	
16725	HD 21018	03 18.4	+04 31	"	"	"	+14.6	04 27	04 38	2	1 53	
16726	HD 23257	03 38.6	+27 37	"	"	"	+14.6	04 45	05 03	3	1 57	
		FOCUS TEST				O.T. B.						

Dome Temp. 52 (22.3°C)

Transparency Conditions Good

66

Focus 15.636

Dome Temp. 50°F

5.30 AM started scope 3.75" Vixen R...  
7.11, 5.10 E"

Ending Time L.S.T. P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0° 59	-20 42	0+	8.16	K2	1-1-1	AG 25	good
	0° 47	+40 56	0+	8.0	K2	1-1-1	Bi	fine
	0 28W	+26 16	0-1	8.01	G5	1-1-1	AG 25	good
	0 59W	+26 04	0-1	7.87	K0	1-1-1	AG 25	fine
	1 22W	+30 40	1	7.74	G5	1-1-1	ITS A DOUBLE; I CHOSE THE LOWER OF THE TWO <i>the seeing is very fine here</i>	fine
	1 49W	+30 40	1	7.74	G5	1-1-1	AG 25	fine
	1 46W	+30 31	1	8.22	G5	1-1-1	AG 25	good
	1 59W	+26 06	1	7.91	G5	1-1-1	AG 25	good
	2 01W	+29 39	1	7.55	G0	1-1-1	AG 25	good
	1 51W	+28 56	1+	7.12	K0	1-1-1	AG 25	good
	1 43W	+04 42	1+	6.97	F8	1-1-1	Bi	good
	1 45W	+27 45	1-2	7.44	G0	1-1-1	AG 25 (another double) took <sup>of two</sup> lower <i>found OK</i>	great

67

Date Sept 21 7/3 1949 Observer Pa Julian Day 2433192

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.I.
16727	<del>HD 161817</del>	<del>17 42.5</del>	<del>25 42</del>	25"	193	0.8	17.5	1902	1912	1
16728	<del>209456</del>	<del>21 52.3</del>	<del>51 29</del>	"	"	"	17.5	1950	1954	2
	<del>209456</del>	"	"	"	"	"	17.5	2000	2024	2
16729	<del>209459</del>	<del>21 55.6</del>	<del>42 20</del>	"	"	"	17.5	2116	2128	3
16730	<del>209484</del>	<del>21 55.7</del>	<del>29 44</del>	"	"	"	17.5	2143	2157	4
16731	213972	22 30.2	29 27	3.5"	193	0.8	17.5	2225	2300	1
From Tak	OTR	4/4								

Hour Angle  
End





Dome Temp. 59

Focus 15.675

Dome Temp.

Transparency Conditions

Cirrus haze

70

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
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1859

0152 W	25 48	0	6.87	K0	1-1-1	High Velocity Star	1.0
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1900

	27 30		<del>6.12</del>	<del>G0</del>		Set on Wrong Star	
--	-------	--	-----------------	---------------	--	-------------------	--

1956

0024 E	27 36	1	6.12	G0	1-1-1	Binary at mid aspect	1.0
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			<del>7.79</del>	<del>K2</del>		AG 25	
--	--	--	-----------------	---------------	--	-------	--

Full haze at 2115 Cloud Down

3 PH + 20 40 M.

71

Date Feb 70.1 - Sat Oct 49 Observer Bo Gu Julian Day 2933.179 <sup>7</sup>

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	<sup>HD</sup> 218293	23 02.6	49 40	I <sup>25</sup>	103A-D	40E	16.2	23020	2316	2	0057W
16735	219418	23 10.5	25 08	"	"	"	16.2	2323	2353	4	0113W
16736	222390	23 35.0	26 59	"	"	"	16.2	2357	0009	1	0119W
16737	225292	23 59.9	27 07	"	"	"	16.2	00 12	00 28	3	1 14W
16738	2839	00 26.7	27 58	"	"	"	16.2	00 33	01 09	1	1 20W
16739	4550	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 08W
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 20W
16747	18554	02 53.9	30 12	"	"	"	16.1	04 13	04 30	2	2 32W
16748	33541	05 05.9	73 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. Clear by 2200.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00	59 W	49 56	0	6.8	Ave	1-1-1	Be Prog.	good
01	28 W	25 24	0-1	7.44	K0	1-1-1	AG25 Declination setting switch.	—
01	19 W	27 14	1	7.00	K0	1-1-1	" <sup>rapro</sup> Deducted .4 from guide mag	good
1	14 W	27 24	1	7.35	G5	1-1-1	"	good
1	28 W	28 15	1	8.23	G	1-1-1	Took No. of Plate in finder.	good
1	34 W	26 01	1+	7.33	K0	1-1-1	AG25	good
1	51 W	28 26	2	7.77	K0	1-1-1	"	happ
2	06 W	29 13	1+	7.23	G5	1-1-1	"	"
1	33 W	28 34	2	8.06	K5	1-1-1	"	good
2	09 W	25 47	2	8.33	G5	1-1-1	"	1 work
2	00 W	28 28	2	7.07	G5	1-1-1	"	good
2	12 W	29 39	1+	7.55	G0	1-1-1	"	good
2	30 W	29 26	2	7.58	G1	1-1-1	"	good
2	22 W	30 25	2+	8.60	G5	1-1-1	"	1 work
—	—	73 12	2	5.76	A0	1	Be pro. FOREOT HOUR 4, BUT it is the star.	0.1 star
0	34 W	28 54	2	6.37	B9	1-1	"	P.T. fine



73

Date Fri 7 Oct - Sat 8 Oct '49 Observer GU Julian Day 2433199

Dome Temp  
 From 15.65  
 Dome Temp 5

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.
16750	<sup>HD</sup> 42 397	06 05.4	+25 02	I.25'	103a-0	.008	16.1	05 20	05 34	1

Hour Angle  
 End  
 0 15W



75

Date Sat Oct 25 1930 ..... Observer gd-l ..... Julian Day 2093198 .....

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	3" f	E10000	008	19.6	21 52	21 40	1	0.100
16752	HD 211269	21 02.3	27 47	"	"	"	19.6	21 51	22 19	1	0.100
16753	HD 213053	23 02.4	29 00	"	"	"	19.6	22 34	22 50	2	0.100
16754	HD 223501	23 45.0	27 33	"	"	"	19.6	22 50	23 50	2	0.100
16755	H.D. 5585	00 52.5	28 59	"	"	"	19.6	00 07	00 55	3	0.100
16756	" 12638	01 58.7	25 27	"	"	"	19.6	00 59	01 45	3	0.100

Dome Temp.

Focus 15.75

Dome Temp. 6

Dome Temp. 64  
 Focus 15.701  
 Dome Temp. 61

Transparency Conditions

About 80 visitors. Hd + L showed Ring neb with 74" I with 5", 4 with 4"

76

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	good
W 2 06	47 54	0	7.50	A0	1-1-1	Bin! set 4	good
W 2 22	49 35	0	8.8	Ave	1-1-1	set 2.5 B	fine
O 56 W	61 57	0	8.2	B3e	1-1-1	7.5 B3e	fine
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 PHs loaded, plates needed in dome	

77

Date Jan 28-11 Observer B. L. Julian Day 243.177

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	SLC	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle h:m
16757	VR 200391	20 05.1	27 24	I25	VS-0	.008	23°	20 35	21 05	4	01:15
16758	201269	21 03.3	47 47	"	"	"	23°	21 13	21 29	4	1:10
16759	208606	21 52.7	61 04	"	"	"	23°	21 37	21 50	1	-
16760	209205	21 54.5	31 08	"	"	"	23°	21 56	22 20	1	0:54
16761	209469	21 58.4	42 20	"	"	"	23°	22 26	22 42	2	0:58
16762	218810	22 01.4	29 31	"	"	"	23°	22 46	23 10	2	1:02
16763	219946	22 13.4	27 04	"	"	"	22.9	23 14	23 40	3	1:06
16719	223211	23 42.5	25 01	"	"	"	22.9	23 48	00 10	3	0:10
16765	2:408	23 49.9	76 06	"	"	"	22.9	00 13	00 45	4	1:47
16766	" 11650	01 49.2	27 20	"	"	"	22.9	00 51	01 31	4	0:51
16767	" 14146	02 12.2	28 34	"	"	"	22.9	01 35	02 05	1	1:46
16768	" 14875	02 18.9	28 46	"	"	"	22.9	02 09		1	
	Notes Just										

O.T.B.

Dome Temp. 70

Focus 15.755

Dome Temp. 66

Transparency Conditions

Scattered cloud in early 78  
evening - Curiosity.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0100 W	2737	2	7.12	G0	1-1-1	Sub 2.5 Binocular Occasional cloud during ap	2
0120 W	4300	2	7.50	A0	1-1-1	Sub 7.5 Bin. <i>some seeing</i>	—
—	6117	2	7.30	K0	1-1-1	Sub 2.5 Bin. Redd HA but fogged to record it	—
0116 W	3116	2	7.47	B9n	1-1-1	Sub 2.5 Bin. <i>plate destroyed</i> Have the plates. <i>only</i>	NOTHING
0135 W	4236	2-3	7.04	B9	1-1-1	Sub 2.5 Binocular External extent. <i>0.5</i>	—
0056 W	2946	2-3	7.77	K0	1-1-1	Sub 7.5 AG 2.5 <i>comp. improved</i>	—
0120 W	2720	2	7.91	K0	1-1-1	2.5 " " Transparency improved <i>0.2</i>	—
0121 W	2518	2-3	7.84	K0	1-1-1	7.5 " "	—
1 47 W	28 22	2-3	8.12	K0	1-1-1	" 2.5 " "	Along
0 34 W	27 35	2-3	8.49	G5	1-1-1	" 7.5 " "	Along
0 46 W	28 47	2-3	8.20	Mo	1-1-1	" 2.5 " "	Along
	29 01	2-3	8.21	K0		7.5 " "	Along
						6/4 Have increasing ground fog rolling in through shutter. Everything is damp! pers. telescope dripping. 1 P.H. loaded in refrigerator	

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Date Nov. Oct. 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.
16768	161 817	17 42.6	25 48	525"	193a-D	.008	23.0	1825	1843	2
16769	197508	20 39.1	52 17	"	"	"	23.0	1856	1910	2
16770	199 095	20 49.8	52 10	"	"	"	23.0	1920	1928	3
16771	192672	20 12.2	25 11	"	"	"	23.0	1937	2017	3
16772	195509	20 26.7	26 21	"	"	"	23.0	2020	2100	4
16773	200391	20 58	27 24	"	"	"	22.9	2104	2200	4
16774	210708	22 03.7	42 27	"	"	"	22.9	2207	2233	1
16775	220286	23 17.5	28 53	"	"	"	22.9	2238	2338	1
16776	1605	00 15.2	30 25	"	"	"	22.9	2341	0011	2
16777	1501	00 14.1	25 55	"	"	"	22.9	0016	0046	2
		FOCUS TEST		-		O.T.B.				
Que Oct. 12-13										
RASC		Toronto Centre		~80		rain				
		Hd demonstrated		74-in		Oké demonstrated		proj. meas. engine		
		Ba		19-in		Horsack		microphotometer		

Dome Temp 7  
Focus 15  
Dome Temp 6

Hour Angle  
Hd

0.135

0.52

0.80

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
0154W	25 49	0	6.87	A0	1-1-1	2.5 High Velocity Star	Good
0225E	83 27	0-	6.22	A2	1-1-1	7.5 Bin.	Good
0021E	82 21	0-	5.49	A0	1-1-1	2.5 Bin.	Good
0101W	26 20	0-1	7.73	B5	1-1-1	7.5 AG 25	4 Good
0129W	26 31	0-1	7.71	K0	1-1-1	2.5 " High Velocity Star	Good
0158W	27 37	0-1	8.12	G0	1-1-1	7.5 " Clamping selected for RA of	Good
0135W	42 42	0-1	7.50	B9	1-1-1	2.5 Bin. Fast	Good
0110W	29 10	1-2	8.96	B5	1-1-1	7.5 AG 25 Transparency improved	Good
052W	30 42	1-0	8.5	G0	1-1-1	2.5 CLOUDS	Good
1 28W	26 12	0-1	7.07	G0	1-1-1	7.5 " Banks of stratus - cumulus rolling in, seems to originate in W; however it is very consistent now a cum closing up, but will watch for a while. R.A. match O.K. now.	Good



Date Wednesday Oct 12-13 Observer L. Gu Julian Day 243320E

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	HD. 161817	17.42.6	25 48	I-25	E-10350	scr 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 37 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 49 W
16785	" 4778	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	0 26 W
16788	" 12535	01 57.8	27 00	"	"	"	15.8	02 21	02 47	2	1 04 W
16789	" 14875	02 18.9	28 46	"	"	"	15.6	02 50	03 45	2	0 11 W
16790	" 18602	02 54.4	30 09	"	"	"	15.6	03 52	04 55	3	0 11 W

Expos Temp. 15.6  
Focus 15.6  
Dome Temp.

Dome Temp.  $+57^{\circ}\text{F}$

Focus  $15.637$

Dome Temp.  $+42^{\circ}\text{F}$

Transparency Conditions *Good*

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*Siderial watch is 35 seconds slow.*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 42 W	25 47	0	6.87	A <sub>0</sub>	1-1-1	set 2.5 } High velocity star.	good
0 18 W	27 37	0	8.12	G <sub>0</sub>	1-1-1	" 7.5 } Double line binary.	l w/c
1 11 W	28 47	0	8.37	K <sub>0</sub>	1-1-1	" 2.5 } AG. 25	too wh
1 17 W	29 39	0-1	8.68	K <sub>2</sub>	1-1-1	" 7.5 } " "	w/c
1 03 W	28 24	0-1	8.47	K <sub>0</sub>	1-1-1	" 2.5 } " "	too wh
1 07 W	28 25	0-1	8.30	K <sub>2</sub>	1-1-1	" 7.5 } " "	wh
0 48 W	29 30	0-1	8.09	G <sub>5</sub>	1-1-1	" 2.5 } " "	good
1 13 W	28 05	0-1	7.79	K <sub>0</sub>	1-1-1	" 7.5 } " "	good
1 39 W	25 17	0-1	7.63	G <sub>5</sub>	1-1-1	" 2.5 } " "	fine
2 38 W	26 31	0-1	8.55	K <sub>2</sub>	1-1-1	" 7.5 } " "	wh
1 56 W	27 14	1	7.93	K <sub>0</sub>	1-1-1	" 2.5 } " "	good
2 31 W	28 59	1-0	8.21	K <sub>0</sub>	1-1-1	" 7.5 } " "	good
	<del>20 22</del>	<del>1-0</del>	<del>8.91</del>	<del>K<sub>0</sub></del>	<del>1-1-1</del>	<del>" 2.5</del>	
						forgot to pull the slide in lined out star	
						3 lined PHs in box, 3 blank in box.	

Date Thurs., Oct. 12/14, 1949 Observer Wm. Co. 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.
16 790	HD 200 831	20 58.1	+27 24	I-25	F103a-0	008	+15.0	18 44	19 26	2
16 791	HD 199 095	20 49.8	+22 10	"	"	"	+15.0	19 40	19 46	2
16 792	AG 12 385	21 16.5	+29 42	"	"	"	+15.0	20 10	21 24	3
16 793	HD 211 407	22 11.7	+25 45	"	"	"	+15.0	21 31	22 39	3
16 794	HD 219 654	23 12.4	+29 22	"	"	"	+15.0	22 48	23 48	4
16 795	HD 116 80	01 49.5	+26 47	"	"	"	+15.0	23 58	01 01	4
16 796	HD 108 29	01 41.0	+30 19	"	"	"	+15.0	01 05	01 45	1
16 797	HD 120 29	01 53.0	+28 54	"	"	"	+15.0	02 03	02 34	1
16 798	HD 194 85	03 02.8	+25 13	"	"	"	+15.0	03 52	04 06	2
	*	FOCUS	TEST.	-	O.T.B.					

Dome Temp. 56

Focus 15.539

Dome Temp. 50°

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 <sup>E</sup> 29	+27 37	1-0	8.12	B0	1-1-1	Set 2.5 } AG 25	fine	
0 <sup>W</sup> 10	+28 22	1-0	5.69	A0	1/2-1/2	Set 7.5 } BIN	fine	
1 <sup>W</sup> 16	+29 56	1-0	8.43	K0	1-1-1	Set 2.5 } AG 25	good	
1 <sup>W</sup> 37	+25 59	1-1	8.77	G5	1-1-1	Set 7.5 } AG 25	good	
1 45W	+20 33	1-1	8.70	K5	1-1-1	Set 2.5 } AG 25	fine	
0 20W	+27 02	1-2	8.98	G5	1-1-1	" 7.5 } AG 25	A very bright flash in the	
1 08W	+30 31	1-2	8.30	G0	1-1-1	" 2.5 } " " " sky as setting note 795 - unusual!	50	
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 stars	weak
04.35 EDT. CLOUDED OVER						double lines, a heavy layer of Cirrus at 03.45		
						*slide not fully clear - comp. cut off on slide		
Oct. 15						SW +23°		

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	E 1082-0	<sup>SLT</sup> 008	+15.0	21 49	22 39	3	
16 800	HD 221 469	23 27.3	+26 00	"	"	"	+14.9	22 54	23 53	3	
16801	HD 10866	01 41.5	+25 40	"	"	"	+15.0	00 03	01 03	4	0 31"
16802	HD 13565	02 07.3	+30 06	"	"	"	+14.9	01 16	02 16	4	1 25"
16803	HD 19485	03 02.8	+25 13	"	"	"	+14.9	02 19	03 29	1	1 43"
16804	HD 44316	06 16.1	+28 57	"	"	"	+14.9	03 35	04 27	1	0 32"
16805	HD 48638	06 39.3	+27 47	"	"	"	+14.9	04 31	04 57	2	0 25"
16806	HD 48640	06 39.3	+24 46	"	"	"	+14.9	05 01	05 43	2	0 20"
16807	HD 51101	06 50.9	+24 47	"	"	"	+14.9	05 45	06 07	3	0 32"
		Focus test		O.T.B.							

Dome Temp. 53°F

Transparency Conditions *Who knows? - [unclear]*

Focus 15.639

Dome Temp. 46°F

ABSCA CALLS 1/11

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 <sup>W</sup> 57	+27° 36'	0	8.12	G0	1-1-1	Set 2.5 } AG 25 [Double Line Exp.]	fine
1 <sup>W</sup> 47	+26 16	0	8.51	G5	1-1-1	Set 7.5 } " <small>START DELAYED BY 3 PHON CALLS REACTOR W/AGC WAS CALLED BY [unclear]</small>	good
0 38 <sup>W</sup>	+25 55	0	8.51	K <sub>0</sub>	1-1-1	Set 2.5 } A.G. 25	good
1 25 <sup>W</sup>	+30 20	0	8.30	G5	1-1-1	Set 7.5 } " " [Blew Dec. fuse and delayed starting]	good
1 43 <sup>W</sup>	+25 24	0	8.70	G5	1-1-1	Set 2.5 } " " [Double lines]	fine
0 32 <sup>E</sup>	+28 55	1	8.61	K <sub>0</sub>	1-1-1	Set 7.5 } " "	good
0 25 <sup>E</sup>	+27 42	1	7.77	K <sub>0</sub>	1-1-1	Set 2.5 } " "	good
0 20 <sup>W</sup>	+24 44	1-2	8.52	K <sub>2</sub>	1-1-1	Set 7.5 } " "	good
0 32 <sup>W</sup>	+24 43	1-2	7.73	G5	1-1-1	Set 2.5 } " "	fine
					6/5	Set 7.5 } focus OK	
1 PH loaded +8 H.O.M.							
Correction of -30 <sup>s</sup> to all EST's							
							Gr

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Date Sun Oct 16-17, 1949 Observer Hd - G - L Julian Day 2433206

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 45	1	104
16809	HD 200391	20 58.1	27 24	"	"	"	15.1	19 56	20 46	1	110W
16810	HD 216632	22 49.4	27 29	"	"	"	15.1	20 57	21 25	2	0 03E
16811	HD 218393	23 2.6	49 40	"	"	"	15.2	21 35	21 47	2	0 08W
16812	HD 216723	22 50.1	27 28	"	"	"	15.2	21 55	22 25	3	0 56W
16813	HD 218880	23 06.4	29 31	"	"	"	15.2	22 29	22 59	3	1 13W
16814	HD 4006	00 37.5	29 34	"	"	"	15.2	23 02	23 36	4	0 32E
16815	HD 4798	00 44.9	27 50	"	"	"	15.1	23 40	00 12	4	0 49W
16816	" 12728	01 59.6	28 39	"	"	"	15.2	00 22	01 12	1	0 33W
16817	" 17119	02 39.7	29 55	"	"	"	15.2	01 18	02 10	1	0 51W
16818	" 17190	02 40.4	25 15	"	"	"	15.2	02 14	02 54	2	1 23W
16819	AG. 2606	05 35.6	26 13	"	"	"	15.2	03 00	04 20	2	1 46W
16820	HD. 46160	06 26.7	27 54	"	"	"	15.2	04 24	05 14	3	2 09W
16821	" 51886	06 54.0	27 02	"	"	"	15.2	05 17	05 59	3	2 27W
16821F	Focus Spot				O.T.B.					4	

Dome Temp

Focus 1/8"

Dome Temp

Dome Temp. +54 F

Transparency Conditions Excellent

388

Focus... 15.65.9

Dome Temp. +47 F

Ending Time P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 104	25 26	0	8.39	K <sub>0</sub>	1-1-1	Set 2.5	Good
00 06	1 10W	27 36	0	8.12	B <sub>0</sub>	1-1-1	7.5	Good
01 25	0 03E	27 44	0	7.77	G <sub>0</sub>	1-1-1	Set 2.5	Good
01 47	0 08W	49 56	0	6.8	Ave	1-1-1	" 7.5	Good
02 25	0 56W	27 43	0+	7.79	G <sub>5</sub>	1-1-1	" 2.5	Good
02 39	1 12W	29 46	0-1	7.77	K <sub>0</sub>	1-1-1	" 7.5	Good
03 20	0 19W	29 49	±0-1	8.09	G <sub>5</sub>	1-1-1	" 2.5	Good
04 12	0 48W	28 04	0	7.79	K <sub>0</sub>	1-1-1	" 7.5	Good
04 50	0 33W	28 51	0-1	8.44	G <sub>5</sub>	1-1-1	" 2.5	Good
05 20	0 51W	30 06	1	8.51	G <sub>5</sub>	1-1-1	" 7.5	Good
05 58	1 35W	25 27	1	8.33	K <sub>0</sub>	1-1-1	" 2.5	Good
06 30	0 06 W	26 14	1	9.2?	M <sub>0</sub>	1-1-1	" 7.5	Weak
07 04	0 09 W	27 51	1	8.67	K <sub>5</sub>	1-1-1	" 2.5	Good
07 38	0 27 W	26 56	1	8.19	K <sub>0</sub>	1-1-1	" 7.5	Good
						6/4	4 P.H.s loaded + 8:11 AM	Good

Time delayed in procedure on side of declination + phone call from RUP re earthquake. later 2 P called.

AG. 25

Be

AG 25

" "

" "

" "

" "

" "

" "

" "

" "

" "

" "

Tues Oct 18/19, partly Overcast. Wm.



Date Wed 11-20 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.
16822	HD 206391	20 58.1	27 29	525	1031-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	2139	2
16826	210204	22 03.7	42 27	"	"	"	17.0	2139	2201	3
16827	218393	23 02.6	49 40	"	"	"	17.0	2214	2226	3
16828	222031	23 34.1	30 07	"	"	"	17.0	2230	2256	4
16829	4312	00 40.5	25 3E	"	"	"	17.0	2259	2339	4
16830	4511	00 45.3	25 12	"	"	"	17.0	2342	23 58	5
16831	" 5705	00 53.6	27 08	"	"	"	17.0	00 03	00 27	5
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
	<i>From list</i>				O.T.B.					3

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

Transparency Conditions Good. no fog

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0016 E	27 36	0-1	8.2	G0	1-1-1	35 Bin. Delay in start. S.W. off 2 min.	fine
0055 W	26 25	1	8.85	K2	1-1-1	7.5 " slight delay in off base	fine
0034 W	61 17	1	7.30	K0	1-1-1	2.5 " Transparency, exp. 1/2"	fine
0109 W	31 17	1-0	7.47	B9	1-1-1	7.5 "	fine
0138 W	42 42	1-0	7.50	B9	1-1-1	2.5 "	fine
0056 W	49 56	1-0	6.8	Ave	1-1-1	7.5 Be.	fine
0056 W	30 24	1-2	8.0	G0	1-1-1	2.5 AG 25	fine
0030 W	25 54	2-2	8.49	K2	1-1-1	7.5 " how does he do it?	fine
046 W	25 17	2-3	7.63	G5	1-1-1	2.5 " plate holder " 1 in	fine
106 W	27 23	2	8.11	K0	1-1-1	7.5 " spectrometer and dupli- at the same time	fine
057 W	29 41	2-1	8.65	G0	1-1-1	2.5 " " " " " " " "	fine
124 W	27 22	1-2	8.58	G5	1-1-1	7.5 " " " " " " " "	fine
201 W	25 16	2	8.37	G0	1-1-1	2.5 " " " " " " " "	fine
207 W	25 24	2	8.70	G5	1-1-1	7.5 " double lines	fine
006 E	28 01	2	8.84	K2	1-1-1	2.5 " " " " " " " "	fine
					6/4	7.5 " clouds 4 P.H. 6.00 + 12	fine



Dome Temp. +56

Transparency Conditions

Terrible!

92

Focus 15:651

Hd & Wm showed 17 IMA students  
2 w. 4" & 8" w. 79"

Dome Temp.

Ending Time  
E.S.T.

20:57

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 <sup>E</sup> 18	+49°56'	0	6.8	Ave 1-1-1	Set 2:5	BE I believe times are ok - checked with IMA students' watches focus OK	
	0 TB	6/4					
						Oct. 21 MC -51 <sup>s</sup> SC -03 <sup>s</sup> SW +1 <sup>m</sup> 28 <sup>s</sup> reset by 1 <sup>m</sup> ; Cor. = +28 <sup>s</sup>	
						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.	



Dome Temp... 43

Transparency Conditions *Clearing 1900 +  
Then excellent*

94

Focus... 15.567

Dome Temp... *21.5*

*Please take notes on all stars*

<small>Ending Time L.S.T. P.H.</small>	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
<i>22 34</i>	W 3 25	27 39	0	8.12	G0	1-1-1	Sat 2 1/2 AC Prog dbl lines.	
<i>23 0</i>	W 2 00	49 55	0	6.8	Ave	1-2	" 7 1/2 Be clouds during.	

95

Date *Mon Oct 24-25/49* Observer *L. Gu* Julian Day *2 433 214*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16840	H.D. 200391	20 58.1	27 24	I-25	E-103 <sup>ai</sup> 0	set .008	+7.3	19 32	20 22	2
16841	" 213177	22 24.5	29 18	"	"	"	+7.3	20 25	21 15	2
16842	" 218393	23 02.6	49 40	"	"	"	+7.2	21 20	21 36	3
16843	" 218199	23 01.0	30 11	"	"	"	+7.3	21 40	22 36	3
16844	" 5007	00 47.0	25 14	"	"	"	+7.3	22 40	23 40	4
16845	AG. 977	01 42.0	27 59	"	"	"	+7.2	23 43	00 12	4
16846	HD 12029	01 53.0	28 54	"	"	"	+7.0	00 14	00 50	1
16847	" 12535	01 57.8	27 00	"	"	"	+7.0	00 53	01 27	1
16848	" <del>19485</del>	<del>03 02.8</del>	<del>25 17</del>	"	"	"	+7.0	02 30	03 22	2
16849	" 35076	05 17. <sup>0</sup> / <sub>8</sub>	<del>28 51</del> +6 36	"	"	"	+7.0	03 27	03 32	2
16850	" 33541	05 05.9	73 09	"	"	"	+7.1	03 51	03 54	3
16851	" 42397	06 05.4	25 02	"	"	"	+7.1	04 09	05 04	3
		FOCUS TEST	Q.T.B.							

Dome Temp. +40°F

Focus 15.557

Dome Temp. +33°F

Transparency Conditions Fine after clearing  
Clear until morning.

Start delayed by clouds.

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 22		1 16 W	27 37	0	8.12	Go	1-1-1	Set 2.5 } AG 25 dbl. lines	fine
22 15		0 43 W	29 32	0	8.07	Ko	1-1-1	" 7.5 } " "	L. work
22 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.C. 25	work
22 44		0 45 W	25 29	0-1	8.48	Ko	1-1-1	" 2.5 } " "	work
22 12		0 22 W	28 15	0-1+	8.40	Go	1-1-1	" 7.5 } " "	L. work
22 52		0 49 W	29 08	1	8.12	K2	1-1-1	" 2.5 } " "	fine
22 37		1 21 W	27 14	0-1+	7.93	Ko	1-1-1	" 7.5 } " "	fine
22 28		2 16 W	25 24	1	8.70	G5	1-1-1	" 2.5 } " " Wrong star Double lines & width	work
22 42		0 07 W	28 54	0-1+	6.15	B9	1-1	" 7.5 } ← Bipari recognize field noticed several bright	work
22 52		0 39 W	73 12	0-1	5.76	Ao	1	" 2.5 } ← Bipari before S.T. corrected also below	work
22 14 3		0 52 W	25 00	0	8.56	G5	1-1-1	" 7.5 } fine. AG 25 CLOUDS	work

Time Oct 25/26 Cloudy all night

Oct 27

1357 50s SW 1000 W. work



Date Wed. Oct. 26-27 1949 Observer L. Julian Day 2433 R16

Dome Temp 4  
Focus 15.5  
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.
1685 <sup>1/2</sup> F	H.D. 200391 Focus Sect	20 58.1	27 24	I-25	E-103aD	set 008	+7.3	20 22	20 34	2

Hour Angl  
Ecl

Dome Temp. 40°F

Focus 15.557

Dome Temp. ....

Transparency Conditions .....

*Start delayed because of clouds*

Ending Time  
E.S.T. P.M.

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

99

Date Oct 27/28, 1949 Observer Cu., L Julian Day 243 3217

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16852	HD 200391	20 58.1	+27 24	I-25 <sup>a</sup>	E103a-0	<sup>5C</sup> 008	+8.1	18 23	18 56	1
16853	HD 201669	21 06.0	+26 53	"	"	"	+8.1	19 04	19 54	1
16854	HD 209858	22 01.3	+27 29	"	"	"	+8.1	19 59	20 23	2
16855	HD 211555	22 12.8	+25 53	"	"	"	+8.0	20 26	20 46	2
16856	HD 218393	23 2.6	+49 40	"	"	"	+8.0	20 51	21 03	3
16857	HD 218660	23 04.7	+29 08	"	"	"	+8.0	21 07	21 27	3
16858	HD 219418	23 10.5	+25 08	"	"	"	+8.0	21 31	21 49	4
16859	HD 220288	23 <sup>17.5</sup> <del>20.6</del>	+25 <sup>22</sup> <del>39</del>	"	"	"	+8.0	21 54	22 14	4
16860	HD 4831	00 45.3	+25 02	"	"	"	+8.0	22 20	22 40	1
16861	HD 5164	00 48.4	+28 02	"	"	"	+8.0	22 51	23 25	1
16862	HD 11694	01 47.6	+25 31	"	"	"	+8.0	23 40	00 20	2
16863	" 13836	02 09.7	26 54	"	"	"	+8.0	00 25	01 19	2
16864	" 14874	02 18.9	30 12	"	"	"	+8.0	01 23	02 13	3
16865	" 19485	03 02.8	25 13	"	"	"	+8.0	02 18	03 05	3
16866	" 44391	06 16.5	28 02	"	"	"	+8.0	03 13	04 11	4
16867	" 46366	06 27.7	27 07	"	"	"	+8.0	04 15	05 09	4

Dome Temp. +46°F

Transparency Conditions

*fine*

100

Focus 15.540

Dome Temp. +41°F

*Spectacular Aurora!*

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0	01W	27 36	1	8.12	G <sub>0</sub>	1-1-1	Set 2.5 } AG 25	<i>fine</i>
0	52W	27 06	0.1	8.36	K <sub>0</sub>	1-1-1	" 7.5 } " "	<i>fine</i>
0	26W	27 44	1+	7.72	G <sub>0</sub>	1-1-1	" 2.5 } " "	<i>fine</i>
0	36W	26 07	1+	7.74	K <sub>0</sub>	1-1-1	" 7.5 } " "	<i>fine</i>
0	05W	49 56	1	6.8	Ave	1-1-1	" 2.5 } Be pro.	<i>fine</i>
0	26W	29 21	1	7.52	K <sub>0</sub>	1-1-1	" 7.5 } AG 25	<i>fine</i>
0	43W	25 23	1+	7.44	K <sub>0</sub>	1-1-1	" 2.5 } " "	<i>good</i>
1	01W	25 37	2	7.99	K <sub>2</sub>	1-1-1	" 7.5 } " "	<i>good</i>
0	01E	25 10	1-2	7.63	G <sub>5</sub>	1-1-1	" 2.5 } " "	<i>fine</i>
0	41W	28 17	1	8.16	G <sub>5</sub>	1-1-1	" 7.5 } " "	<i>fine</i>
0	37W	25 48	1	8.33	G <sub>5</sub>	1-1-1	" 2.5 } " " checked on br. star.	<i>good</i>
1	14W	27 07	1	8.61	G <sub>5</sub>	1-1-1	" 7.5 } " "	<i>fine</i>
1	58W	30 25	1	8.57	G <sub>5</sub>	1-1-1	" 2.5 } " "	<i>fine</i>
2	08W	25 25	1-2	8.70	G <sub>5</sub>	1-1-1	" 7.5 } " " double lines	<i>fine</i>
0	02E	28 03	2	8.84	K <sub>2</sub>	1-1-1	" 2.5 } " "	<i>fine</i>
0	45W	27 05	1	8.58	K <sub>0</sub>	1-1-1	" 7.5 } " " large near end	<i>good</i>



Dome Temp.....

Transparency Conditions *poor*.....

102

Focus.....

Dome Temp.....

Ending Time  
P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 15 W	27 14	1	8.19	Ke	1-1-1 6/4	Set 2.5 } AG 25 7.5 } <i>haze</i>  <i>2 plate holders loaded + 8 in dome</i>  <i>CK</i>	<i>Good</i>

103

Date FRI OCT 28/29, 1949 Observer Wm - Gr Julian Day 2,433.219

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
16869	HD 20031	20 <sup>h</sup> 55 <sup>m</sup> .1	+27 24	I-25"	E 30.0	508	+12.8	18 55	19 39	2
16870	HD 201626	21 05.7	+26 13	"	"	"	+12.8	19 44	21 04	2
16871	HD 216536	22 49.0	+28 06	"	"	"	+12.8	21 09	22 03	3
16872	HD 218393	23 02.6	+40 40	"	"	"	+12.8	22 08	22 18	3
16873	HD 4549	00 42.4	+26 34	"	"	"	+12.8	22 26	23 32	4
16874	HD 11130	01 44.4	+29 00	"	"	"	+12.8	23 36	00 24	4
16875	HD 14456	02 15.0	+28 04	"	"	"	+12.8	00 27	01 31	1
16876	HD 19485	03 02.8	+25 13	"	"	"	+12.8	01 34	02 50	1
16877	HD 46277	06 27.4	+28 03	"	"	"	+12.8	02 55	03 55	2
16878	HD 46366	06 27.7	+27 07	"	"	"	+12.8	03 59	04 59	2
16879	HD 49500	06 43.6	+25 36	"	"	"	+12.8	05 03	06 03	3
	Focus Test		OTB							

Dome Temp.....*75.8°F*

Transparency Conditions *Overcast*

104

Focus.....*15:60.4*

Dome Temp.....*44°F*

*Cloudy w/ sunset retreating slowly.*

Ending Time M.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	Set	REMARKS	Quality
9:39	0 <sup>W</sup> 48	+27° 30'	1-0	8.12	G0	1-1-1	Set 2.5	AG 25 - Dual lines	Good
10:04	2 <sup>W</sup> 06	+26° 25'	1-0	8.8	K2	1-1-1	Set 7.5	AG 25 w/ R.V.	Good
12:03	1 <sup>W</sup> 22	+28° 22'	1	8.4	K2	1-1-1	Set 2.5	AG 25	Good
12:18	1 <sup>W</sup> 24	+49° 56'	1	8.8	Ave	1-1-1	Set 7.5	AG 25	Good
13:32	0 <sup>W</sup> 58	+26° 49'	1	8.62	G5	1-1-1	Set 2.5	AG 25	Good
14:24	0 48 <sup>W</sup>	+29° 13'	1	8.54	G5	1-1-1	Set 7.5	AG 25	Good
15:31	1 25 <sup>W</sup>	+28° 17'	0	8.56	G0	1-1-1	Set 2.5	"	Good
16:50	1 56 <sup>W</sup>	+25° 25'	1-3	8.70	G5	1-1-1	Set 7.5	" BAD HAZE AND CLOUD IN N.	Good
17:58	0 23 <sup>E</sup>	+28° 01'	2	8.35	K2	1-1-1	Set 2.5	" " "	Good
18:59	0 40 <sup>W</sup>	+27° 07'	2	8.58	K0	1-1-1	Set 7.5	" " N1E	Good
19:09	1 29 <sup>W</sup>	+25° 32'	2	8.51	K2	1-1-	Set 2.5	" " "	Good
						6/5	Set 7.5		
								4 P.H. Loaded New box of film H.M.	



Date Sat Oct 29-30 1949 Observer Hd - Sue 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	<sup>21</sup> 22 51	21 22 51	3
16881	<sup>mw 397</sup> HD 218293	23 02.6	49 40	"	"	"	+13.5	<sup>21</sup> 22 55	22 07	3
16882	HD 219736	23 13.1	29 54	"	"	"	+13.5	22 "	22 49	4
16883	HD 3092	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
	FOCUS TEST O.T.B.									

Dome Temp  
Focus  
Dome Temp

Hour Angle  
End

Dome Temp. +51 F

Focus 5.520

Dome Temp. +48 F

Transparency Conditions

Good at first  
about 150 visitors showed B with 74"  
4 with 5" (7 4 with 4"

106

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
N 3 06	27 38	1	8.12	Go	1-1-1	Ext 2 1/2 4:25 South line	fine
W 1 18	49 56	1	6.8	Ave	1-1-1	" 7 1/2 Bo	fine
W 1 47	30 "	1	8.05	Ko	1-1-1	" 2 1/2 AG 25 increasing buff	fine
L 34W	30 05	0-1	8.47	Ko	1-1-1	" 7 1/2 AG 25 increasing buff	good
O 59W	25 41	1+	8.02	G5	1-1-1	" 2.5	fine
L 26W	26 06	1-2	7.91	G5	1-1-1	" 7.5	fine
L 34W	29 39	1-2	7.55	Go	1-1-1	" 2.5	fine
2 05W	29 27	1-2	7.58	G1	1-1-1	" 7.5 " Fog, Haze thickening	ok
FOG OVER EVERYTHING							
9 loaded Pbs in pics also box plates.							
Oct 31							
MO 50 SW 5 CC -11.5 -18.5 sect							

107

Date *Mon Oct 31 - Nov 1 1949* Observer *L. G.* 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		0	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.*

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 03	1 31 W	27 37	O!	8.12	G <sub>0</sub>	1-1-1	Set 2.5 } <sup>AG 25</sup> Double lines plate marked 1688	80%
20 12	0 59 W	29 41	O	8.26	K <sub>0</sub>	1-1-1	" 7.5 } " "	
20 39	0 57 W	49 56	O	6.8	Ave	1-1-1	" 2.5 } Be Prog.	
20 45	0 43 W	27 32	O	8.62	G <sub>5</sub>	1-1-1	" 7.5 } AG 25	
20 52	1 00 W	30 32	O	8.72	G <sub>5</sub>	1-1-1	" 2.5 } " "	
21 00	1 23 W	26 23	O	8.14	G <sub>5</sub>	1-1-	" 7.5 } " " Cloudy in West.	100%
							center sl. to set.	
							3 overcast closed 03.00 D.S.T.	
							4 phi loaded in pier	
							last man has with 5 plates.	

109

Date Tues, Nov 1/2, 1949 Observer Wm - C. 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.
16 894	HD 107 503	09 <sup>h</sup> 33 <sup>m</sup> .1	+83°11'	7-25	F1032-C	<sup>slit</sup> 008	+5.4	18 05	18 15	1
16 895	HD 200 391	20 <sup>h</sup> 58 <sup>m</sup> .1	+27 <sup>2</sup> 34	"	"	"	+5.3	18 24	19 14	1
16 896	HD 201 626	21 35.7	+26 13	"	"	"	+5.3	19 18	20 49	2
16 897	<sup>HD 307</sup> HD 218 393	23 02.6	+49 40	"	"	"	+5.1	20 50	21 02	2
16 898	AG 13 852	22 59.4	+28 17	"	"	"	+5.2	21 14	22 34	3
16 899	HD 19 485	03 02.8	+25 13	"	"	"	+5.2	22 43	23 53	3
16 900	HD 13 610	02 07.7	+24 55	"	"	"	+5.1	23 58	01 01	4
16 901	HD 14 969	02 19.7	+29 26	"	"	"	+5.1	01 05	01 38	4
16 902	HD 199 18	02 19.3	+25 02	"	"	"	+5.1	01 42	02 22	1
		10003	7657		O.T.B.					

Dome Temp. +40°F

Focus 15.508

Dome Temp. +38°F

Transparency Conditions Same as 20.6

03-30 D.S.T. cumulus from south

110

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0°05	+23 23	0	6.20	A2	1-1-1	Set 2.5 } Bin.	Good
0°40	+27 37	0	8.12	G2	1-1-1	Set 1.5 } AG25 - Double-liner	Good
2°02	+26 24	0	8.25	K2	1-1-1	Set 2.5 } AG25 - Double-liner	Good
0°24	+15 57	0	6.3	Aye	1-1-1	Set 7.5 } Be #	Good
1°53	+22 23	0	8.60	G0	1-1-1	Set 2.5 } AG25 - Double-liner	Good
0°10	+25 22	0	8.70	G5	1-1-1	Set 7.5 } AG25 - Double-liner	Good
1 18W	+25 09	1+	8.30	G0	1-1-1	Set 2.5 } AG25	Good
1 43W	+29 39	1-2	8.18	K2	1-1-1	Set 7.5 } " "	Good
2 28W	+25 14	1-2	8.37	K2	1-1-1	Set 2.5 } " " Clouds, travelling fast from south	Good

Center from approx. 100 miles  
 4 Mr. Landed in fire saw how  
 plates needed.

111

Smithsonian Astrophysical Observatory

1949

Date Wed Nov 2/3

Observer Ba

Julian Day

3223

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
16903	200391	20 58.1	27 24	125"	103a-0	.008	07.4	1802.	1814	1	20 11 E
	201908	21 07.5	77 43								

Dome Temp

Focus 15.540

Dome Temp

Dome Temp. 48

Transparency Conditions Considerable scattered cloud 112

Focus 15.540

Dome Temp. 50

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 11 E	27 37	2	8.12 5.98	G0 B9	1-2	Exposure interrupted, thin transparency cloud. <i>possibly faint</i>	
						Th, Nov 3/4 '99	
						Solid Overcast - Wm	
						Fri, Nov 4-5	
						about 25 upper school students	
						from Howard demonstrated	
						telescope and camera slide.	
						Clouds with some blue in N.	



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.
16904	H.D. 200391	20 58.1	27 24	I-25	E-103a0	set .008	+7.4	20 10	21 00	2
16905	" 218393	23 02.6	49 40	"	"	"	+7.4	21 05	21 23	2
16906	" 2343	00 22.2	30 21	"	"	"	+7.6!	21 29	22 21	3
	Focus Test						O.T.B.			3

Dome Temp. +40

Focus 15.53

Dome Temp.

Hour Angle  
Dist

Dome Temp. +46 °F

Focus 15.537

Dome Temp. ....

Transparency Conditions *Light haze*

114

Ending Time  
E.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	
2 50 W	27 37	0	8.12	Go	1-1-1	set 2.5 } A.G. 25 double lines	open lhr. before opening mirror
1 09 W	49 55	0	6.8	Ave	1-1-1	" 7.5 } Be pry.	fine
0 53 W	30 36	0-1	8.90	G5	1-1-1	" 2.5 } A.G. 25 haze, clouds, star	weak
					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 AL - L Julian Day 242229

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	2.25	E10390	008	+11.0	18 03	18 57	4	11051
16908	HD 208415	21 51.0	30 21	"	"	"	+11.0	19 01	20 05	4	1106
16909 A	<sup>HD 208393</sup> HD 218393	23 02.6	49 40	"	"	"	"	20 10	20 22	1	
B	"	"	"	"	"	"	"	20 22	20 34		
C	"	"	"	"	"	"	+11.2	20 34	20 46		11075
16910	HD 217230	22 54.2	26 57	"	"	"	+11.0	20 50	22 00	2	
16911	HD 200391	20 58.1	27 24	"	"	"	+11.0	22 05	23 05	2	55
16912 A	<sup>HD 218393</sup> HD 218393	23 02.6	49 40	"	"	"	"	23 12	23 28	3	
B	"	"	"	"	"	"	"	23 28	23 42		
C	"	"	"	"	"	"	+11.0	23 42	23 56	"	
16913	" 14490	02 15.3	29 28	"	"	"	+11.0	00 05	01 17	4	
16914	" 14608	02 16.5	29 53	"	"	"	+11.0	01 20	02 20	4	
16915	" 44615	06 17.6	29 01	"	"	"	+11.0	02 25	03 45	1	
	<i>Focus lost</i>										
					O.T.B.						

Dome Temp. +47

Transparency Conditions Excellent

116

Focus 15.586

Dome Temp. +35°F

Ending Time EST.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:57		W 0 51	27 36	0	8.12	G <sub>0</sub>	1-1-1	Set 2.5 Can it be there is only 1 unopened box 1032a5	
2:05		W 1 06	30 39	0	8.33	K <sub>0</sub>	1-1-1	" 7.5 Right hand RA guiding at tucking	"
2:22				0	6.8	Ave	1-1-1	Set 1	"
2:34				0			1-1-1	" 5	
2:46		W 0 35	49 58	0			1-1-1	" 9	
2:50		W 1 56	27 16	0	8.48	K <sub>0</sub>	1-1-1	Set 2.5	
2:55		W 5 00	27 38	0	8.12	G <sub>0</sub>	1-1-1	" 7.5	poorly guided
2:59				0	6.5	Ave	1-1-	" 1	
3:02				0			1-1-1	" 5	
3:05		3 47 W	49 55	0			1-1-1	" 7	
3:07		1 54 W	29 43	0	8.70	G <sub>0</sub>	1-1-1	" 2.5 } AG 25	good
3:13		2 55 W	30 07	0	8.54	K <sub>0</sub>	1-1-1	" 7.5 } " "	
3:14		0 19 W	29 00	0	8.53	G <sub>0</sub>	1-1-1	" 2.5 } " " slight cloud near end	
							6/4	from ok sky falling in	
								3 P.H.s loaded + 4	
								Nov. 9 HC SC SW -00.4 -18.9 H on M. -31.3	



Dome Temp. 40.

Focus 15.540

Dome Temp. ....

Transparency Conditions

Circle haze & clouded 1/18  
Gradually clearing after 1840  
Transparency continuing.

Blowing to good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0128W	47 33	0-1	6.0	K	1-1-1	1 Epsilon-usc frequently interrupted by cloud	
0142W	"	0	"	"	1-1-1	5	
0151W	"	0	"	"	1-	9 Terminated by haze	
—	49 55	0-	6.8	Ave	1-1-1	2.5 BE. Strong blue 1 sec on 1/2 sec	
0233W	28 15	0	7.2	E	1-1-1	7.5 AG. Flickered again after starting. <small>Don't connect it</small> ext. 2 mag	
0457W	27 36	1	8.12	GO	1-1-1	2.5 " Transparency good	
0200W	29 15	0-	8.22	K0	1-1-1	7.5 " The same star as in 0151	
2 46W	27 23	0-1	8.11	K0	1-1-1	2.5 } A G 25	
2 35W	29 07	0-1	8.12	K0	1-1-1	7.5 }	
3 02W	27 14	0-1	7.93	K0	1-1-1	2.5 }	very good
0 16V	73 12	0-1	5.76	A0	1-1	7.5 } Bin.	
0 20W	29 30	1	8.68	G5	1-1-1	2.5 } 2.5, 2.5 very near, no further	
1 19W	28 56	1+	8.61	K0	1-1-1	7.5 } full almost done	
0 57W	26 29	1-2	7.71	K0	1-1-1	2.5 } 2.5, 2.5 Trouble because Moon too close to it	
—	28 47	0-1	8.12	G5	1-1-1	7.5 } two stars.	

2/3 all the empty, new book plates in.

119

I-25

Date Wed Nov 16 1949 1949 Observer Be - L Julian Day 113237

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	<del>10"</del>	10320	1.00E	4.2	1917	1927	1
16932	"	"	"	"	"	"	4.2	1927	1942	1
16933	"	"	"	"	"	"	4.2	1942	2102	1
16934	HD 200391	20 53.1	27 29	"	"	"	4.2	2010	2100	2
16935	32 Cyg	20 12.4	47 24	"	"	"	4.2	2108	2113	2
16936	"	"	"	"	"	"	4.2	2114	2134	3
16937	HD 218393	23 26	49 40	"	"	"	4.2	2246	2200	3
16938	216723	22 50	27 28	"	"	"	4.2	2207	2247	4
16939	216632	22 49.4	27 29	"	"	"	4.2	2249	2339	4
16940	218393	23 26	49 40	"	"	"	4.2	2346	0000	2
16941	14146	02 12.2	28 34	"	"	"	4.2	00 10	00 44	2
16942	14675	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
	Process feet				OTB					

Dome Temp 30  
Focus 5.7  
Dome Temp 13Hour Angle  
End

Dome

Dome Temp... 36  
 Focus... 15.495  
 Dome Temp... 132 °F

Transparency Conditions

Atmos. cloud in early evening 120  
 clearing by 1:30  
 Th. Nov 15/13 -  
 Cloudy → Clear  
 Th. Nov 16/13 -  
 Cloudy → Clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0238W	47 34	1-2	6.0	PS-K0	1-1-1	1	hot box
0248W	"	1-2	"	"	1-1-1	5	
0313W	"	1-2	"	"	1-1-1	9	
0325W	27 36	0-1	8.12	E0	1-1-1	2.5	Binary
0425W	47 34	0-1	6.0	K0-A0	1-1-1	7.5	
0445	"	0-1	"	"	1-1-1	2.5	
0220W	49 56	0	6.8	A1e	1-1-1	7.5	Be
0319W	27 45	0-1	7.79	E5	1-1-1	2.5	AG 25
0412W	27 45	0-1	7.77	E0	1-1-1	7.5	AG 24
0423W	49 57	2	6.5	A1e	1-1-1	2.5	Be
1 55W	28 47	1-2	8.20	M0	1-1-1	7.5	AG 25
2 22W	29 02	1-2	8.21	K0	1-1-1	2.5	" "
0 40E	29 15	2	8.84	K5	1-1-1	7.5	" "
0 11W	27 59	2	8.90	G5	1-1-1	2.5	" "
					6/4	10	light clouds, some more clouds, faint
Nov. 21	MC +01°	SC -34°		STW -04° rust			1 P.H. graded + 4 H on M

Sat Nov 12/13 0' east 11 -  
 Tues Nov 16/13 0' east, except  
 one 2-hour below



121

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-103aU	<sup>6</sup> ser 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
	<i>Trans Sect</i>					<i>O.T.B.</i>				

Dome Temp. +2

Focus 15.42

Dome Temp. +2

Hour Angle  
Mid

Dome Temp. +26°F

Focus 15.425

Dome Temp. +20°F

Transparency Conditions

good thin haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 25 W	47 34	0	<sup>EST</sup> 5	K <sub>0</sub> -A <sub>0</sub>	1 1/2 - 1 1/2	set 2.5	
1 40 W	" "	0	"	"	1 1/2 - 1 1/2	" 7.5	
1 50 W	27 36	0	8.12	G <sub>0</sub>	1-1-1	" 2.5 } AG 25 Double lines	
3 35 W	26 24	0	8.85	K <sub>2</sub>	1-1-1	" 7.5 " " some haze, light clouds	
4 55 W	27 36	0	8.2	G <sub>0</sub>	1-1-1	" 2.5 } " " Double lines light clouds	
					6/4	" 7.5 snow!	
4 PHs loaded + 4 Hon M.							
Free 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 Cygnus	20 12.4	47 24	I-25	E-103a0	5ex .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

Dome Temp. +30°F

Transparency Conditions *good*

124

Focus 15.453

Dome Temp. ....

244

ending Time  
P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 15 W	47 34	0	?	KoA	1 1/2 - 1 1/2	Set 2.5 } High Wind	
1 37 W	" "	0	?	"	1 1/2 - 1 1/2	" 7.5 } Image very jumpy!	
	27 36	0	8.12	Go	1-1-1	" 2.5 } Image, then show!	
					6/4	" 7.5 } 2 PHA loaded + 4 AM ok	

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 200 331	20 53.1	+27°24'	I-25	E123a-D	<sup>SET</sup> 008	-2.5	18 02	18 52	3	
16 952	HD 201 626	21 05.7	+26°13'	"	"	"	-2.9	18 57	20 27	3	
16 953	HD 200 331	20 58.1	+27 24	"	"	"	-2.8	20 33	21 33	4	
16 954	<sup>NWC 331</sup> HD 218 393	23 02.6	+49 40	"	"	"	-3.0	21 41	22 01	4	
16 955	HD 6 475	01 00.7	+59 20	"	"	"	-3.0	22 12	22 42	1	
16 956	<sup>14876</sup> HD <del>14943</del>	<sup>18.9</sup> <del>02 19.5</del>	+27 13	"	"	"	-2.8	22 57	00 29	1	

Dome Temp. +23°F

Focus 15.408

Dome Temp. +19°F

Transparency Conditions *Cloudy*

126

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 <sup>w</sup> 52	+27 37	0!	8.12	GO	1-1-1	Set 2.5 } AG 25 - DUBL. LINE	
3 <sup>w</sup> 20	+26 26	0	3.85	K2	1-1-1	Set 7.5 } AG 25 - Bin? <i>Turning wind - Cloud</i>	
4 <sup>w</sup> 34	+27 37	0!	8.12	GO	1-1-1	Set 2.5 } AG 25 - DUBL.	
2 <sup>w</sup> 57	+49° 57	0	6.8	Ave	1-1-1	Set 7.5 } In Fog.	
1 <sup>w</sup> 38	+59 36	0+	6.78	10n	1-1-1	Set 2.5 } Bin	
2 08W	+27 26	0	8.72	K2	1-1-1	Set 7.5 } AG 25 light haze toward end then light snow. closed up at 2.30 sky overcast. 3 PM - loaded + full box Hon M.	

127

Date Sun Nov 27-28, 1948 Observer Ad Julian Day 3248

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	E10320	008		19 55	20 01	2
16958	"	"	"	"	"	"	-6.2	20 01	20 23	
16959	HD 200391	20 58.1	27 24	x	"	"	-6.3	20 29	21 45	3
16960	HD 200393	23 02.2	09 40	"	"	"	-6.9	21 51	22 21	

Dome Temp.  
Focus  
Dome Temp.Hour Angle  
End





129

Date Fri Dec 23, 1949 Observer Hd - Eue Julian Day 233253

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
16961	32 <sup>egg</sup> HD 192909-10	20 12.4	+ 47 24	J-25	E12340	008		18 00	18 08	4	
16962							+0.4	18 08	18 30	4	W 24
16963	MW 397 HD 218393	23 02.6	49 40	"	"	"	+0.1	18 35	19 05	1	W 24
16964	HD 20039	20 58.1	27 24	"	"	"	0.0	19 14	20 30	1	W 35
16965	MW 397 HD 218393	23 02.6	49 40	"	"	"	0.0	20 35	21 05	2	W 26
16966	HD 66475	01 11.7	59 20	"	"	"	0.0	21 10	21 38	2	W 101
16967	HD 218393	23 02.6	49 40	"	"	"		21 44	22 14	3	
16968	"	"	"	"	"	"	0.0	22 14	22 44	3	W 14
16968A	HD 19085	23 02.6	49 40	"	"	"		22 50		4	
16969	HD 51886	06 50.0	27 02	"	"	"	0.0	02 40	03 10	4	W 16
16970	HD 46198	06 26.6	15 47	"	"	"	0.0	03 18	03 44	1	W 16
16971	HD 76396	08 30.9	51 47	"	"	"	0.0	03 55	05 55	1	W 31

Dome Temp.  $-26^{\circ}F$   
 Focus 15.430, 15.420  
 Dome Temp.  $+13^{\circ}F$

Transparency Conditions *Good*

130

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

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0	5.2	mp	$1\frac{1}{2} - 1\frac{1}{2}$	Set $2\frac{1}{2}$ <sup>Control</sup> Some trouble with temp.	
W 2 41	47 35	0			$1\frac{1}{2} - 1\frac{1}{2}$	" $7\frac{1}{2}$	
W 2 6m	49 55	0	6.8	Ave	1-1-1	" $2\frac{1}{2}$ Bo Prog.	
W 3 56	27 40	0	8.2	G5	1-1-1	" $7\frac{1}{2}$ <sup>some</sup> Other lines clouds	
W 2 26	49 56	0	6.8	Ave	1-1-1	" $2\frac{1}{2}$	
N 1 01	59 35	0	6.78	from	1-1-1	" $7\frac{1}{2}$	
		1	6.8	Ave	1-1-1	" $2\frac{1}{2}$	
W 4 56	49 55	1			1-1-1	" $7\frac{1}{2}$	
			8.75	G5	1-	" $2\frac{1}{2}$	
O 45 W	26 58	0-1	8.19	K6	1-1-1	" $7.5$	
1 46 W	25 46	0-1	7.63	F3	1-1-1	" $2.5$	
1 33 W	51 37	1	9.82	R4	1-1-	" $7.5$	

Re-closed at 2-30m

Bin. See letter taking

R4, fits and sticking

3 PM. loaded & started in  
 last room box.

Didn't start new exposure at 5 AM  
 because of low transparency.

13

Date Sun Dec 11 Observer B. Julian Day 3255

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
11324	HD 200371	25 58.1	47.19	125	103	.008	2.	2027	21.45	
	25593									

Dome Temp. 52  
Focus 13.97  
Dome Temp.Hour Angle  
End

Dome Temp. 32

Focus 15.470

Dome Temp.

Transparency Conditions

132

Cloud stage gradually clearing by 2000.

Ending Time  
E.S.T.

Hour Angle  
End

Declination

Seeing

Ptg.  
Mag.

Sp.

Comp.

REMARKS

Quality

27 36

0

3.12

00

1-1

25

Heavy cloud at 2045 - 2130

scattered cloud interrupted sep.

Downwind of cap

at 2000 cloud sep.

Clouds heavy at 2000 cloud sep.

	MC	SC	MTW	STW	SW
Dec. 7	+10.0	-67.0	+04.0	-0.1	-02.6

Strömgen og Olsen returned from watchmaker

Dec 7

On a party up at 1700

found 20 had tipped

1 hr before

RHB

133

Date Wed Dec 7/8 Observer [unclear] Julian Day 3258

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
16972	02 540	20 12.4	47 24	135	1240	100	-5.1	1734	1810	3
	"							1810	1818	
16974	4P 300391	20 59	125 29	-			-5.5	1824	2000	4
16975	215333	23 02	47 40				-5.5	2008	2102	

Dome Temp  
Focus 15.3  
Dome Temp

Hour Angle  
End  
01:15  
02:15

Dome Temp.....20

Focus.....15.370

Dome Temp.....

Transparency Conditions *Very Good* 134  
*Good*  
*Good*

Ending Time  
M.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0244W	47 32	0.15	5	Sp	1-1-1	<i>Very faint</i>	<i>1.5</i>
0252W		0.1	"	"	1-1-1	<i>Very faint</i>	<i>1.5</i>
0348W	27 26	0	8.2	30	1-1-1	<i>Binary</i>	<i>1.5</i>
0210W	49 56	0	5.8	100	1-2	<i>35</i> <i>Clouded over at 2026.</i>	<i>1.5</i>

Date Jan 9-9/49 Observer H.L. Julian Day 343 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.
<del>16975</del>	<del>M 31</del>	<del>23 20.2</del>	<del>49 40</del>	<del>E-45</del>	<del>E-1000</del>	<del>008</del>		<del>22 25</del>		1
16976	M 31	23 20.6	49 40	E-45	E-1000	008	-59	22 42	23 10	1
16977	M 31	23 20.8	49 40				-57	23 22	00 50	2
	Focus Int.				O.T.B.					

Dome Temp. 7.8  
Focus 15.36  
Dome Temp. 16

Hour Angle  
End  
215.24  
2.31M. 10

Dome Temp. +18 F

Focus 15.368

Dome Temp. +14.5 F

Transparency Conditions

fair  
clearing after 2000

136

Ending Time L.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					6.8	Ave		<del>set in</del> wrong* Found Str. up. 1 hr slow	
		W 5-03	49 57	0	6.8	Ave	1-1-1	set 7/2	
		2 39W	25 26	0	8.0	G <sub>s</sub>	1-1-1	2' some light clouds.	
							6/4	more clouds, light snow, gave up at 3.30 sky thick, more snow.	
								2 Plate holders loaded + 2 part boxes H on M.	
								MC SC Dec 12 +13.0 -11.2 MTW STW -09.0 -0.3 -09.7	
								1949 Sat, Dec 10/11 } Overcast - Solid. Wm Sun, Dec 11/12 }	



137

Date June 14 -14, 1949 Observer Pa Julian Day 236<sup>4</sup>

Dome Temp  
Focus 5.4  
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	10340		20	2052	2052	3
16979	218393	23 02	17 40				19	2057	2131	
16985	11654	21 47	27 20				19	2139	2207	
	Faint									

Hour Angle  
End  
0534W  
0317W

Dome Temp. 26

Focus 15.440

Dome Temp.

Transparency Conditions

Scattered cloud almost  
clear until then considerable  
cloud after opening up lens

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0504W	27 31	0	813	60	1-1-1	Bic	
0337W	49 57	0	68	Asc	1-1-1	B2	
	27 20	0	849	65	1-1	AB25 clouded over.	
						4-11 APR 54	

139

Date Wed Dec 14-15, 1949 Observer Pa - L Julian Day 326<sup>5</sup>

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 Est
16781	HD 215323	13 02.4	41 31	EQ	52111	108	-4.2	20 43	21 28	1	13 44
16782	12638	01 58	35 37	"	"	"	-4.3	21 38	22 14	2	01 59
16783	13691	02 09.7	26 13	"	"	"	-4.5	22 18	22 52	3	02 10
16784	13856	02 09.7	26 54	"	"	"	-4.8	22 55	23 55	4	02 11
16985	19485	03 02.8	25 13	"	"	"	-4.8	00 00	01 30	1	03 04
16986	45427	06 22.2	27 42	"	"	"	-4.8	01 35	03 13	2	06 26
16987	76396	08 50.8	51 49	"	"	"	-4.8	03 22	07 08	3	08 30
	<i>Empty</i>				0.T.G.						

Dome Temp.

Focus 15

Dome Temp.

Dome Temp..... 1.6

Focus..... 15.395

Dome Temp... 41.3°F

Transparency Conditions

Variable cloud clearing  
by mid morn. Right half

140

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 00 W	47 32	0	8.5	K2	1-1-1	25 sec	fine
01 00 W	25 41	0	8.02	G5	1-1-1	AG 25	good
01 50 W	26 29	1	8.19	G5	1-1-1	AG 25	good
02 50 W	27 07	1+	8.61	G5	1-1-1	" Strong W. wind	fine
03 40 W	25 25	0	8.70	G5	1-1-1	" Double lens. image unstable	fine
2 05 W	27 41	0	8.77	K2	1-1-1	"	fine
3 30 W	51 37	1	9.8?	R4	1-1-1	" R" star	fine
					6-4		
						1 PH lens + 4	
						Max M.	

14

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

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.H.
16988	M 20 307 HD 218303	23 02.6	+49°40'	T-25	E1631-0	008	-6.4	19 52	20 32	4
16989	HD 6475	0100.7	+50 20	"	"	"	-6.4	20 54	21 34	1
16990	HD 13565	02 27.2	+30 06	"	"	"	-6.4	21 45	22 15	2
	Focus Test				OTB					

CALL END 23 00

Dome Temp. +15.9 F

Focus 15.364

Dome Temp. ....

Transparency Conditions ...

142

Cloudy, clearing at 1300

Lost 1st<sup>st</sup> discovering 15<sup>th</sup> error in setting  
Klein 18 on telescope.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 <sup>W</sup> 47	+49 53	0	3.3	Ave	1-1-1	Be Proj	
1 <sup>W</sup> 49	+53 36	0	6.78	50n	1-1-1	Bin	
2 <sup>W</sup> 25	+50 20	0	8.30	65	1-1-1	AG25	
					3/4		
						2PH + 12	
						H on M	
						Dec 16	
						Dec 16-17	
						Dec 17-18	
						Dec 23	

Dec 16 10 17.2 17.5 17.6 17.7 17.8

Dec 16-17 ...  
Dec 17-18 ... clouding at ~2100  
Gr.

Dec. 23 NC : SC  
+23.0 -1<sup>m</sup> 32.4  
MTW STW  
+20.8 +0.7  
SW  
-55<sup>s</sup>



Dome Temp. 26°F

Transparency Conditions... Cloudy leaving 1900 h. 144

Focus... 15.425

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+28 38		8.85	G5	1-	Had trouble with focusing until I had cut it up. (Sept. not a G5 bulb)	
0 30W	+25 26	0	8.70	G5	1-	plate not kept. Heavy haze moving in — no star cloud of fog after 2 am. Pulled up without putting on lens cap. 4 P.M. ended 4.5 P.M.	nothing
<p>Dec. 23-24</p> <p>Opened up at midnight — at on 5 P.M. but also obscured by light clouds sky gradually cleared by 3:00 AM. by cloud down.</p>							
<p>Sun Dec 25/26<sup>49</sup> Cloudy — Cirrus; not good enough to work, even if it hadn't been Christmas! Wm</p>							



145

Date *Shure Dec. 29-30/49* Observer *M-L* Julian Day *2433273* <sup>80</sup>

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
16992	H.D. 5584	02 52.5	+29 47	I-25	103a 0	.008	-2.0	1800	20 30	4	
16993	S. Tarn	15 31.7	+21 05	"	"	"	-2.0		20 50	3	
16994	B.G. 6475	01 00.7	+59 20	"	"	"	-2.5	21 05	21 31	2	
16995	H.D. 19485	03 02.9	+25 11	"	"	"	-3.5	21 39	23 31	1	
16996	B.G. 5344	05 05.0	+14 34	"	"	"	-3.5	23 47	00 15	4	

Dome Temp. 21° E

Transparency Conditions .....

NCO

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
1	50W	30 05	0	8.8	G <sub>0</sub>	1-1-1	Allowing for edge & diffraction flaring.	1.0
3	31E		0	30	B <sub>3</sub>		100% at 15.420. plate destroyed.	1.0
2	43W	59 35	0	8.78	H <sub>0</sub>	1-1-1	No allow in for edge.	1.0
2	50W		0-1	8.7	G <sub>0</sub>	1-1-1	Do.	1.0
6	18W	14 35	0	8.80	B <sub>0</sub>	1-1-1	Light curves towards the end then slowly falling in from N.W. center 1/2" in then goes up.	1.0
							3 P.H. - 100% at 15.420	



Dome Temp... +22.0°F

Transparency Conditions... good

148

Focus... 15.381

Dome Temp... +19.1°F

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	18 W	26 32	0	8.55	K <sub>2</sub>	1-1-1	AG. 25	
1	36 W	27 23	0-1	8.58	G <sub>5</sub>	1-1-1	" "	
1	24 E	21 07	1	3.00	B <sub>3e</sub>	3, 3, 3	Exposures 40s, 80s, 160s,	
2	44 W	25 26	1	8.70	G <sub>5</sub>	1-1-1	Double lines AG. 25	
0	57 W	26 42	1-2	8.72	K <sub>0</sub>	1-1-1	AG. 25	
0	53 W	27 25	2+	8.14	K <sub>0</sub>	1-1-1	Dr. Polysiphonia... <i>Pyrosoma</i> ...	
0	45 W	27 38	2-3	7.72	K <sub>0</sub>	1-1-1	Dr	
1	00 W	27 40	2	8.00	K <sub>0</sub>	1-1-1	Dr. Very light in... Considerable... ... AG. 25	
0	54 W	24 31	2	8.15	K <sub>2</sub>	1-1-1	AG. 25 Clear diff... H.P.H. +4	
1	12 W	27 36	1-2	8.00	G <sub>0</sub>	1-1-1		

Sat, Dec 31, 1950  
 Mon Jan 1/51  
 FRI JAN 4/7 '50. Snow - 4" m

149

Date.....Observer.....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.

Dome Temp.

Focus.....

Dome Temp.

Hour Angle  
End

D.

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			much difficulty getting them closed	
			again			-RIB	

151

Date Sun. Jan 8-9, 1950 Observer Mc 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
1700 <sup>7</sup> / <sub>4</sub>	S. Tau	5 31.7	21 05	3-25	E. Process	005	-9.0	22 04	22 22	1	
								22 22	22 30		
								22 30	22 36		2.04 <sup>71</sup>

Dome Temp. 2

Focus 15.52

Dome Temp.

Dome Temp. +16 F

Focus 15.323

Dome Temp.

Transparency Conditions Poor - variable 152

clearing after sunset. On opening found dome would not turn. Waited for S Tau to come 2 slit.

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	21 07	1	3.00	B <sub>3</sub>	8-8	Set 1 Where is dome flashlight	
					16	" 5	
E 04 <sup>m</sup>					16	" 9 / haze & clouds at end	
						<div style="display: flex; justify-content: space-around;"> <span>MC</span> <span>SC</span> <span>MTW</span> <span>STW</span> <span>SW</span> </div> <div style="display: flex; justify-content: space-around;"> <span>+40.6</span> <span>-1 46.0</span> <span>-03.0</span> <span>+0.5</span> <span>-05.1</span> </div> <div style="display: flex; justify-content: space-around;"> <span>Jan. 9</span> <span></span> <span></span> <span></span> <span>rest</span> </div>	
						Tues. Jan 10/11 '50 Variable cloudiness, but WINDY (Gusts ~ 70 mph @ Motion). Wm.	



Date Wed. Jan 11-12 Observer Ba - L Julian Day 2433293  
50

Dome Temp 23  
 Room 15.05  
 Dome Temp 19

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
17004 <sup>8</sup>	10 B 22	<del>21</del> 21.2	42 32	S	103 D	1008	-2.8	1743	1752	1	00 27 E
17007 <sup>9</sup>	218170	23 00.7	28 29	"	"	"	-2.5	1759	1855	2	01 34
17010 <sup>10</sup>	11 214765	22 31.9	27 16	"	"	"	-2.0	1902	2002	3	02 34
17006 <sup>11</sup>	12052	21 53.2	28 23	"	"	"	-2.0	2008	2130	4	01 54
17012 <sup>2</sup>	19485	03 02.8	25 13	"	"	"	-2.0	2134	2234	1	00 11
17013 <sup>3</sup>	35076	05 47.0	28 51	"	"	"	-2.0	2238	2248	2	01 34
17014 <sup>4</sup>	35523	05 20.2	15 23	"	"	"	-2.0	2255	2311	3	00 14
17017 <sup>5</sup>	36859	05 29.6	27 36	"	"	"	-2.0	2316	2340	4	01 34
17014 <sup>6</sup>	45207	04 21.1	29 42	"	"	"	-2.0	2352	00 52	1	135 W
17017 <sup>7</sup>	70402	05 16.7	27 51	"	"	"	-2.0	01 19	02 59	2	146 W
17014 <sup>8</sup>	86778	09 55.0	29 16	"	"	"	-2.0	03 04	03 54	3	104 W
	Star, East				0-7 B						

Dome Temp. 24

Focus 15405

Dome Temp. +15.0°

Transparency Conditions Good

154

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
052	0027 E	43 48	-0	6.54	B9	1-1-1	Bun. ...	good
055	0253 W	28 45	0	8.16	K5	1-1-1	AG 25 E ...	good
	0434 W	27 31	0	8.19	K0	1-1-1	" ...	fine
	0240 W	28 38	0-1	8.8	B5	1-1-1	"	good
	0235 W	25 24	0-1	8.7	B0	1-1-1	Double ...	good
031	0034 W	28 55	0-1	6.37	B9	1-1-1	Binary	good
	0054 W	15 27	0	7.02	B8	1-1-1	"	good
	0113 W	27 37	0-1	7.65	<del>K5</del>	1-1-1	"	good
	135 W	24 41	0	8.21	B5	1-1-1	AG 25	fine
	146 W	27 42	0	8.65	G5	1-1-1	AG.25	fine
	104 W	29 01	0	7.88	K2	1-1-1	" "	fine

6/4

1 P.H. loaded + 20 Hourly

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

Jan. 13	MC	SC	MTW	STW	SW
	+44.0	-1 <sup>m</sup> 50.9	+22.2	+0.0	-1 <sup>m</sup> 19
18	-15.4	+02.8	-21.2	0.0	
	Rest	Rest			
	0.5 added	1.0 rem.			

\* According to observing schedule Ba observed Wed. Jan. 18-19, 1950.

Date Thurs Jan 19/1950 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.E.
17019	H 55083	07 064	26 46	25"	117-10	.008	-50	2301	2327	
	67402	08 007	27 47							

Dome Temp.  
Focus  
Dome Temp.

Hour Angle  
End

Dome Temp. 16

Focus 15380

Dome Temp. ....

Transparency Conditions

Cloudy Snow 156

*clearing after 2100. On opening  
cleaned shutter surface. Dew  
frozen.*

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0008E	26 42	0	8.19	K0	1-1-1	A325 Clouding over. <i>too weak</i>	<i>too weak</i>
			7.72	K0			

157

Observatory Name

Date Thurs. JAN. 19/20, 1950 Observer W.m. - 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.E.	Hour Angle End
17020	<sup>MHC 397</sup> HD 215333	23 02.6	+43° 40'	7-25	E 1030-0	SET 000	-7.8	18 34	19 18	2	3° 51'
17021	HD 17352	02 42.2	+26 40	"	"	"	-7.8	19 26	20 30	3	1° 22'
17022	HD 18323 FOCUS lost	02 57.8	+27 11	"	"	"		20 35		4	
17023	HD 71730	08 23.8	+24 41	"	"	"	-8.5	20 51		1	

Dome Temp. 41

Hum. 15.54

Dome Temp.

Dome Temp. +15°F

Transparency Conditions Fair

158

Focus 15:345

Dome Temp.

Strainer on egg of lens was stopped, not to connection (42m)

Ending Time  
E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8:12	3° 51'	+49° 55'	0	6.8	AVE	1-1-1	Be Prog	
	1° 22'	+26° 53'	0	8.33	KO	1-1-1	AG Prog	
				8.22	KO	1-		
		O.T.B.			6/4			
		+24° 31'	1	7.74	KO	1-1-	clouds, snow. 01-15. 1 ph loaded + 14 (2)	
							Shutters: U/S., closed down 2.45pm	
							1 PH. loaded 3 plates in E. box.	
							Sat, Jan 21/22 Solid overcast + snow Wm	
							Tues, Jan 24/25, 1950 Solid overcast + fog Wm.	
							Jan. 25	
							MC : SC : MTW : STW : SW	
							-11.5 : +04.7 : +09.0 : +0.5 : +01.7	

p. guiding

low  
or cuts

20 45 - clouds in W  
6:21 53 - no light  
22:50 - snow + fog

low



Dome Temp... +24 F

Transparency Conditions Fair

Focus.....

Fri. Jan 27 1950

25" lens Focus 15.319  
Filt 23.18

12 1/2" lens Focus 12.948  
Filt. 20.25

Dome Temp.....

Changed to 12 1/2 camera.

Ending Time E.S.T.	Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 55	W	4 12	+27 56	0	8.04	K <sub>2</sub>	1/2 - 1/2 - 1/2	AG Prog * looks pretty faint	Lute
	W	4 53	+25 46	0	8.18	K <sub>0</sub>	1/2 - 1/2 - 1/2	" " "	Lute
	W	3 01	+30 06	0	8.54	K <sub>0</sub>	1/2 - 1/2 - 1/2	" Clouds + haze " " "	fine
	W	0 40	+29 39	0	8.21	G <sub>5</sub>	1/2 - 1/2 - 1/2	" " "	strong
	W	1 29	+29 26	0	8.70	K <sub>0</sub>	1/2 - 1/2 - 1/2	" " "	fine
	2	ROW	+27 52	0	8.67	K <sub>5</sub>	1/2 - 1/2 - 1/2	" " " COMP. STRONG	good
	1	45W	+28 53	0	7.78	G <sub>5</sub>	1/2 - 1/2 - 1/2	" haze dark on W. COMP. L. STRONG TOO	strong
	1	38W	+24 31	0	7.74	K <sub>0</sub>	1/2 - 1/2 - 1/2	" 01 35 low clouds for best. COMP. STRONG	Lute

03 15 dark out to edge on with much haze in general view.  
4 PM. loaded.  
Had cluster trouble starting

TUES, JAN 31 '50, Partly cloudy ☁, sunset, gradually filling in. Wm.

Note - some trends to be noted

	MC	SC	MTW	STW	SW
Jan. 30	-09.3	-16.0	-07.8	+03.9	+02.9
			Resd		





Dome Temp. 22

Focus 12.750

Dome Temp. 18°

Transparency Conditions

Clouds very light  
clearing after  
2130. Clouds light  
again

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0213W	2427	0	5.92	62	1-1-1	AE 25	
0221W	2505	0	7.32	60	1-1-1	"	
1 54W	2504	0+	7.92	60	1-1-1	"	
	2534		7.87	60	1-	<p>exposed ~ 14 min.</p> <p>shutter closed, filling in.</p> <p>trouble closing with shutter.</p> <p>4 PK's faded.</p>	

Plate holder numbers  
not recorded

163

7.

Date Feb 3-9 1950 Observer Good 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.
	HD 100179			12"	103A-0	.008				

Dome Temp 2  
Focus I  
Dome Temp  
Hour Angle  
End



165

Hal (Halldan)

Date Fri Feb 3-4, 1950 Observer 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.E.
17036	<i>N Lacerta 1950</i>	<sup>1950</sup> 22 48.0	<sup>1950</sup> 53 02	J-12	E103a0	008	-3.8	18 38	19 04	1
								19 04	19 18	
								19 18	19 24	
17037	HD 3650	00 34.2	26 12	"	"	"	-3.8	19 39	20 39	2
17038	AG 1158	02 04.5	29 20	"	"	"	-4.0	20 51	21 51	3
17039	HD 44615	56 17.6	29 01	"	"	"	-3.9	22 01	22 17	4
17040	45 62567	07 39.5	26 14	"	"	"	-4.0	23 24	00 34	1
17041	AG 4835	09 02.5	27 56	"	"	"	-4.1	00 41	02 07	2
17042	H.D. 90567	10 22.3	27 44	"	"	"	-4.1	02 12	03 06	3
17043	{ " 106184	12 08.0	29 11	"	"	"	-4.1	03 11	03 35	4
	{ <i>Gross Test</i>									

O.T.B

Dome Temp. 22

Transparency Conditions

Good

166

Focus 12.950

Dome Temp. 21.0 F

Ending Time  
LST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	53 03	1	7.0?		$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Set 1	
					$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Set 5	
					$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" 9	
W 5 14					$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$		
W 4 40	+ 26 28	1	8.89	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG prog. to guiding	
W 4 21	- 27 34	1	8.86	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "	
W 1 33	+ 23 51	1	8.59	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Ho changing	
1 29 W	26 07	1	8.36	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Stage	
1 40 W	27 47	1	9.35	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "	
1 19 W	27 28	1	8.65	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Wind rising, image unstable	
0 02 W	28 53	2	8.88	K3	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " Clouds 3.29, stage over	
					4/3	3.35.	
						closed at 7.15	
4 PHs loaded 7.4, H. on M.							

167

Date Sat 2nd 9/5 1950 Observer Ra 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.	Hour Angle End
17044	Novae Lac 1907	22 48.0	53 50	300	103a0	1.000	-2.0	1833 <sup>2</sup>	1846	1	
	<del>HD 119</del>	<del>29 01</del>	<del>29 01</del>	<del>"</del>	<del>"</del>	<del>"</del>	<del>-2.0</del>	<del>1846</del>	<del>1854</del>	<del>2</del>	<del>310</del>
17045	HD 664	20 05.8	29 01	"	"	"	-2.0	1900	2000 1950	2	043 144
17046	8791	01 21.6	24 56	"	"	"	-2.0	2006	2106	3	040
17047	17963	02 48.1	29 42	"	"	"	-2.0	2111	2211	4	312
17048 A	41708	06 01.7	27 27	"	"	"	"	2215			
17048	41929	06 03.2	27 13	"	"	"	-2.0	2228	2328	4	031
17049	48035	02 31.3	27 47	"	"	"	"	2333	0101	2	
	from Lac			CP	P	3/2					

Dome Temp. 2  
Focus 12.95  
Dome Temp.





169

Date June 28, 1950 Observer P. E. Julian Day 181

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	NGC 63	22 48.0	53 52	B-12	113x-9	50P	-3.5	1843	1903	
								1709	1714	4
17051	AS 63	22 48.3	26 30	"	"	"	-3.5	1731	2021	2
17052	NGC 63	22 48.0	25 40	"	"	"	-3.5	2021	2131	1
17053	18187	22 50.2	25 41	"	"	"	-3.5	2127	2137	2
17054	42981	26 16.7	25 17	"	"	"	-3.9	2248	00 18	3
17055	67542	08 03.4	29 23	"	"	"	-4.0	00 25	00 37	4
17056	{ 71730	08 23.8	29 41	"	"	"	-4.0	00 48	01 08	1
	{ FOCUS TEST		O. T. B.							

Dome Temp. 1.8

Transparency Conditions Good

170

Focus 12.940 *Exp from 12.940*

Dome Temp. 1.2

*PA clamp sticking, but it is probably bad  
all right. Pot on camera illumination  
needs replacing*

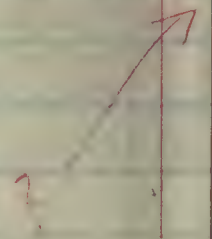
Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	53 02	0+	-	-	1-1-1		
0500W		0+			1-1-1		
0503W	26 47	0	8.79	K0	1-1-1	Star	
0430W	25 55	0	8.81	K0	1-1-1	"	
0439W	25 53	0	8.82	G5	1-1-1	"	
0246W	25 17	0+	8.3	K2	1-1-1	"	
0123W	20 14	0+	7.03	K0	1-1-1	"	
0136W	24 31	0-	17.74	K0	1-1-1	"	
						Set B	
						Heavy clouds covering area from south, cold and butter sticking Heavy current. 3 PAs loaded. 8 plates in Eastman box.	
						Feb. 8	
						MC SC MTW STW SW	
						-0.6 +4.0 -0.6 +0.1 +2.5	
						rest rest	

171

Date Thurs Feb 2/10, 1950 Observer Wm - E. V. Julian Day

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.I.	Hour Angle End
17057	HD 18450	02 52.9	+26 22	I-125	F1030-D	577 008	-0.1	19 16	20 46	2	0° 10'
17058	HD 43383	06 10.2	+25 31	"	"	"	-0.2	20 53	22 13	3	1° 10'
17059	HD 57490	07 16.3	+30 01	"	"	"	-0.3	22 17	23 27	4	1° 50'
17060	HD 71132	08 20.6	+28 23	"	"	"	-0.3	23 31	24 35	1	1° 30'
17061	HD 76752	08 53.0	+25 48	"	"	"	-0.3	00 40	01 56	3	1° 10'
17062	HD 76766	08 53.1	+26 19	"	"	"	-0.3	01 50	01 30	4	1° 10'
17063	HD 77998	09 00.4	+26 31	"	"	"	-0.2	01 34	01 20	3	1° 50'
17064	HD 81855	09 23.1	+26 39	"	"	"	-0.2	05 38	06 12	1	1° 10'
17065	HD 91545	10 29.2	+28 30	"	"	"	-0.3	02 45	03 00	2	1° 30'
17066	HD 35363	10 55.5	+27 30	"	"	"	-0.2	07 05	03 32	3	1° 10'
17067	HD 100081	11 25.8	+29 00	"	"	"	-0.2	03 40			
	FOCUS TEST			O.T.R.							





173

Date <sup>12</sup> Sat Feb 11-12 1950 Observer HA-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 <sup>50</sup> 0	53 02	-12	E10300	008	+11.9	18 47	19 07	4	?
17069	4D222390	23 35 0	26 59	"	"	"	+11.9	19 22	19 42	1	152
17070	HG 991	01 44 0	28 12	"	"	"	+11.8	19 48	21 00	2	152
17071	4D43693	06 12 5	28 05	"	"	"	+11.8	21 08	21 20	3	152
17072	4D44391	06 16 5	28 02	"	"	"	+11.8	22 23	23 35	4	152
17073	4D62817	57 43 9	26 16	"	"	"	+11.8	23 38	00 16	5	152
	Spec. Int.				OTB						

①

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

Transparency Conditions Fair

174

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
?	53 03	0	7.07		1-1-1 2-2-2	+1 <i>L. this time</i> Talmadge touched 1/2 per about	good
W 5 12	27 15	0	7.43	K <sub>0</sub>	1-1-1 2-2-2		good
W 4 22	28 28	0	8.38	G <sub>5</sub>	1-1-1 2-2-2		good
W 1 13	28 05	0	5.91	K <sub>0</sub>	1-1-1 2-2-2		fair
W 2 22	28 02	0	8.84	K <sub>2</sub>	1-1-1 2-2-2		fair
1 42 W	26 10	0	5.12	G <sub>5</sub>	1-1-1 2-2-2 2/3	light clouds toward end filling in sched. Closed at 300 AM 2 RH holders needed plates needed in dome 4.00 AM.	fair
	<i>col. to all</i>						

178

Date Sept 12/13 1950 Observer Pa. E. 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 14995	02 19.5	27 13	0.12"	100A0	MS	0.0	1755	2110	2
17075	44030	06 19.9	25 39	"	"	"	0.0	2115	2245	3
17076	58683	07 21.6	27 30	"	"	"	0.0	2249	2333	4
17077	71730	08 23.8	29 51	"	"	"	0.1	00 08	00 48	1
17078	{ 74699	08 40.2	27 57	"	"	"	0.1	01 05	01 45	2
	{ FOCUS TEST			0.12"						

Dome Temp. 24  
 Focus 12900  
 Dome Temp. 20

Transparency Conditions Fair S. Sun 176

Cloudy in early AM  
 Clearing after 11:30

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0940 W	27 27	0	8.72	KO	1-1-1	AG 25	fine
0141 W	27 30	0	8.82	KS	1-1-1	Very thickening. Fuzzy	fine
0111 W	27 25	0	8.14	KO	1-1-1	" All the fogging	fine
21 31 W	27 32	0	7.79	KO	1-1-1	Disturbance noted, from some stars	fine
	27 27	0	7.79	KO	1-1-1	increasing haze.	to weak
						HAZED OUT!	ended
						1 PH loaded. Some stars in eastern base.	
						MC SC MTW STW SW Feb. 13 -02.3 +17.8 +25.7 +0.7 +134	



173

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. 78

Focus

Dome Temp.

Hour Asy  
End

Dome Temp. +27°F

Transparency Conditions .....

178

Focus .....

Dome Temp. ....

Ending Time  
P.M. E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Brushing about 1.00 AM then clouding breaking again set on star for 300 photo star gone !!!	

179

Aaron

Date Sun Feb 19-20, 1957 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.
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	22 11	2
	{ Focus Set				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.*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
U 1 10	29 18	0!	8.84	K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Either seeing is worse or worse or	1.0
W 1 31	29 18	0	8.57	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Case. focusing is not working.	1.0
2 00 W	27 34	0	8.7	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Violent wind	1.0
1 08 W	27 10	0	8.37	K5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" "	1.0
					413	center of <u>Red</u>	

181

Date June 21, 1957 Observer P. B. Julian Day 180

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
17083	180 1532	02 22.7	29 19	12	102 D	400	-65	1838	1915	3	
17084	18727	02 57.4	29 22	"	"	"	-60	1924	2014	4	
17084F	15338	02 21.7	29 19	"	"	"	"	1838	2028		
			Total		TOTAL	TR					

Dome Temp. 20

Transparency Conditions

182

Focus 12:30

Dome Temp. 17

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0243W	29 28	1-0	7.52	21	1-1	2025	fine
0310W	27 23	<0	8.22	20	1-1	2025	fine
		0	8.84	55	1	Good clouded view	fair
					4/3	2025	center to weak (repeated)
						3 PM	
						Plate Marked.	
						MC SC MTW STW SW	
						Feb. 24 +02.1 +22.3 +27.3 +0.6 +47	

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.
<del>17485</del> <sup>5</sup>	HD 12535	01 57.8	+27 00	I.12 $\frac{1}{2}$	E103a0	<del>S&amp;T</del> 008		19 09		2

Dome Temp. :  
Focus :  
Dome Temp.

Hour Angle  
End

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

Focus 12:30

Dome Temp. ....

Transparency Conditions Occasional thin clouds 184

More & more clouds. I estimate 10%  
- 10% clouds in the plate below. Wind rising  
to SE - some flurries

Ending Time  
LIT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			7.95	20	1-	AG 25 2 PH 11 H 2000 HAD DOUBLE CLOSING DONE; GET IT WITHIN ABT 2 IN. OF CLOSED BY CLEANING RAILS Snow showers starting 00-55, Wind stronger & drifting due North - colder. Quit 03-00.	



185

Date *Sat Feb 25 1950* Observer *Allen* *Hda* - 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.
<i>17024/6</i>	<i>HD 9314</i>	<i>01 30.0</i>	<i>27 46</i>	<i>I-12</i>	<i>E10300</i>	<i>008</i>	<i>-7.5</i>	<i>19 06</i>	<i>20 16.3</i>	
<i>17024/7</i>	<i>HD 14316</i>	<i>06 12.1</i>	<i>25 07</i>				<i>-5.0</i>	<i>20 25</i>	<i>22 15.4</i>	

Dome Temp  
Focus  
Dome Temp

Hour Angle  
End

Dome Temp. +13 F

Transparency Conditions Good at first.

186

Focus 12750

Dome Temp.

Ending Time  
P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
44 47	28 03	0	8.35	Gg	$\frac{1}{2} \frac{1}{2}$ $\frac{2}{2} \frac{2}{2}$	Clouds near end	
W2 00	28 36	0	8.35	Ka	$\frac{1}{2} \frac{1}{2}$ $\frac{2}{2} \frac{2}{2}$	Some clouds - a bit good! More cloudy than clear clouds seem to be with 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

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
17088	H.D. 14875	02 18.9	28 46	I-12 $\frac{1}{2}$	E-103 $\frac{1}{2}$	<sup>set</sup> .008	-9.0	19 32	20 16	1	4 06 W
17089	" 46532	06 28.9	25 00	"	"	"	-9.0	21 01	22 31	2	2 14 W
	<i>Focus Test</i>				<i>O. T. B.</i>						

Dome Temp. +

Focus 12.9

Dome Temp. +

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 L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20.6	4 06 W	29 02	0	8.21	K0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	A.G. 25 clouds to-ward end of <sup>group stars</sup> <del>of</del> <sup>of</sup> <del>the</del> <sup>the</sup> <del>sky</del> <sup>sky</sup>	H. Strong
22.7	2 11 W	24 58	0	8.61	K2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" " clearing again, more clouds <sup>of</sup> <del>of</del> <sup>of</sup> <del>the</del> <sup>the</sup> <del>sky</del> <sup>sky</sup>	H. Strong
						$\frac{2}{3}$	Closed at 23.00 <sup>center</sup> <del>sky</del> <sup>sky</sup> <del>of</del> <sup>of</sup> <del>the</del> <sup>the</sup> <del>sky</del> <sup>sky</sup> <del>is</del> <sup>is</sup> <del>clear</del> <sup>clear</sup>	
							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 1414 L	12 12.2	25 39	2"	100-100	100-100	-4.5	1842	1917	3

Hour Angle  
End

Dome Temp. 16

Focus 12.930

Dome Temp.

Transparency Conditions Some haze & scattered clouds 190

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
—	28 43	0	200	Ng	1-1-1	<p>AG 25. Clouds in the sky Exp. terminated by cloud. Variable cloud &amp; occasional snow flurries. Cloud base 2030</p> <p>3:00 A.M. - Frequent cloud from West, wind high. Eye.</p>	fine

191

Date Thurs Mar 2/3, 1950 Observer Wm Julian Day

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.
	<del>HD 45 427</del>	06 22.2	+27 42	1 125	E1030-9	<del>005</del>		<del>20 00</del>		4

Hour Angle  
End

Dome Temp... +2°F

Focus... 12.930

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
			3.77	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	HD 10829	01 41.0	+30 19	I-12	E10340	008	-11.0	19 33	20 13	1	10 56
17092	HD 45427	06 22.2	27 42	"	"	"	-11.1	20 27	21 37	2	2 13
17093	HD 56 <sup>418</sup> <del>274</del>	07 11.8	26 38	"	"	"	-11.2	21 43	22 33	2	4 15
17094	HD 76866	08 53.8	28 00	"	"	"	-11.2	22 <sup>46</sup> <del>37</del>	00 46	4	5 10
17095	83552	12 07.5	28 47	"	"	"	-11.2	00 50	02 00	1	2 18
17096	108805	12 25.0	26 41	"	"	"	-11.3	02 05	02 55	2	0 56
17097	115256	13 10.9	29 17	"	"	"	-11.2	02 59	04 03	3	1 19
17098	132304	14 53.3	25 05	"	"	"	-11.3	04 08	04 48	4	0 22
17099	143271	15 54.4	27 09	"	"	"	-11.2	04 52	05 00	1	0 35
	Focus Test				O.T.B.						

Dome Temp. +3 F  
 Focus 12.930  
 Dome Temp. 0° F

Transparency Conditions 7.20 ... 194

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05456	30 35	0	8.30	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	About 20 meteors Washington C.I. C/10' south	Very "W"
05139	27 42	0	8.77	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		fine
05145	26 27	0	8.51	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Checked from finder field drawing.	fine
0217W	24 49	0-1	8.74	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Set 9; wrong * at point, Right * looks faint	U Shiny
0218W	25 32	0-1	8.72	K0	$1-\frac{1}{2}-\frac{1}{2}$		U Shiny
0056W	26 24	1	8.79	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		U Shiny
0119W	29 00	1-0	8.77	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		U Shiny
0022W	24 52	0-1	8.44	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		U Shiny
0033W	27 00	1	8.93	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		U Shiny
					4/3	2 PH0 loaded + 8 from OK	
						At on Am.	



Dome Temp. +20°F

Focus 12.930

Dome Temp. +18°F

Transparency Conditions *good*

196

Ending Time  
I.S.T. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 36W	25 49	0	8.33	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG. 25 clouds coming over suddenly after exposure. 1 P.H. loaded + 8. H on M.	<i>Cl. Wk.</i>

197

Date Mon 7/8 50Observer Be

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.
<del>17181</del>	<del>HD 4415</del>	<del>06 17.6</del>	<del>2901</del>	<del>12</del>	<del>103-D</del>	<del>.006</del>	<del>20</del>	<del>2006</del>	<del>2034</del>	

Dome Temp 28  
Focus  
Dome TempHour 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
<del>2100</del>	<del>20</del>	<del>3.89</del>	<del>CD</del>	<del>1-2</del>	<del>SP5</del>	<del>AG25</del> Clouding up 2030/7/1! Star gone 2019	<del>low</del>
					4/4	set 9. focus OK Cloud continuing to come closed down 2100	
						4 PA + 4	

199

Date 11/11/50 Observer Bar Julian Day 243450

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	AD 2415	00 17.6	29 21	F-12	102-0	000	-4.0	1856	2026	1
17102	45300	06 24.5	25 57	"	"	"	-4.0	2031	2201	2
17103 17103	53472	07 00.1	25 01	"	"	"	"	2205	2225	3

Dome Temp  
Focus  
Dome Temp  
Hour Angle  
End

Dome Temp. 22  
 Focus 12.930  
 Dome Temp.

Transparency Conditions

Good

200

Wound to Et watch

MT OK  
 ST 1/2 min below

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0100W	29 00	0	827	GO	1-1-1	AG 25. marked scintillation.	fine
	25 56	0-1	821	KO	1-1-1	" Thickening haze	fine
		<del>1</del>	<del>829</del>	<del>KZ</del>	<del>1-1</del>	" Et at 0:4	11.4k
						Abandoned plot near haze	
						from 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 Aug 1952 Observer W. A. G. Jones Julian Day 1952.213

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 40423	06 24.3	27 42	12"	KT	1012	-1.1	1904	2008	4
17105	40427	06 21.0	28 22	"	"	"	-1.3	2011	2101	1
17106	63724	09 09.0	27 01	"	"	"	-1.2	2206	2302	2
17107	63721	09 32.1	25 48	"	"	"	-2.0	2356	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	29 36	"	"	"	-2.0	02 03	02 25	2
17111	105771	12 05.4	29 37	"	"	"	-2.0	02 50	03 30	3
17112	113771	13 00.7	27 07	"	"	"	-2.0	02 36	04 06	4
17113	118905	13 34.8	27 12	"	"	"	-2.0	04 12	04 35	1
17114	122776	13 36.4	27 58	"	"	"	-2.0	04 36	04 56	2
17115	131172	14 51.6	24 48	"	"	"	-2.0	05 01	05 21	3
17116	130296	15 03.7	28 53	"	"	"	-2.0	05 34	05 50	4
	FOCUS TEST - A.T.B.									

Dome Temp. 24  
 Focus 12 130  
 Dome Temp. 13.95

Transparency Conditions Good A few scattered clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
093W	27 41	0-1	8.77	G2	1-1-1	AEZE	
242W	28 01	0-1	8.00	G5	1-1-1	6.5 out of 100% Barker cloud coverage from 20:00-20:50	
236W	28 53	0-1	8.24	G5	1-1-1	Large haze	
241W	28 36	1-0	8.11	G5	1-1-1		
236W	28 29	0+	7.55	G6	1-1-1		
246W	28 51	0+	7.54	K0	1-1-1		
332W	29 20	0+	8.14	G5	1-1-1		
238W	29 21	0-1	8.07	K0	1-1-1		
213W	26 51	0-1	7.93	K0	1-1-1	Very low haze	
207W	26 56	0-1	7.30	K0	1-1-1		-
211W	27 44	1	7.29	G5	1-1-1	Very faint	-
253W	20 25	1-3	8.16	K0	1-1-1		
201W	28 42	1+	7.75	G5	1-1	shade from edge of sky	-
P.S. Have now discovered a new star in the field. It is a 11th mag star.							

11.0 11 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

203

Date Saturday, Mar. 18/19, 1950 Observer Wm. - G. 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.
17 117	HD 52 101	06 54.8	+29 54	1.12	E103a 0	SET 000	-5.7	19 37	20 41	1
17 118	HD 65 934	07 56.1	+26 55	"	"	"	-5.8	20 50	22 00	2
17 119	HD 83 017	09 34.7	+23 29	"	"	"	-5.8	22 05	23 15	3
17 120	HD 91 366	10 27.8	+25 38	"	"	"	-5.9	23 31	00 31	4
17 131	10 4580	11 57.6	25 00	"	"	"	-6.0	00 45	01 50	1
17 122	11 0883	12 40.2	27 57	"	"	"	-6.0	01 55	02 55	2
17 123	11 5339	13 11.5	28 17	"	"	"	-6.1	03 10	04 10	3
17 124	12 5728	14 16.2	26 31	"	"	"	-6.1	04 15	04 27	4
17 125	{ 14 2201	15 48.2	28 50	"	"	"	-6.1	04 43	05 21	1
	{ FOCUS TEST		0	T.B.						

Dome Temp. +15

Focus 12.030

Dome Temp. 7°F

Transparency Conditions FINE

Seeing poor.

204

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 <sup>W</sup> 10	+29 49	0	8.63	G5	1-1-1	A=25	Good
1 <sup>W</sup> 23	+26 27	0	8.70	K0	1-1-1	"	Good
1 <sup>W</sup> 09	+25 17	0	8.85	G0	1-1-1	"	Good
L 34W	+28 33	0	8.40	K0	1-1-1	" 03.30 very bright source	Good
L 19W	+24 44	0	8.73	K0	1-1-1	" extending from zenith to N.	Good
L 40W	+27 40	0	8.47	K0	1-1-1	" horizon, wave like & constant.	Good
Z 25W	+28 00	0-1	8.49	K0	1-1-1	" Dec: prop up, no in	Good
L 46W	+26 13	0-1	7.21	K0	1-1-1	" several minutes - undisturbed	Good
O 57W	+28 45	0-1	8.92	K2	1-1-1	working OK, no in	Good

05.00 - (area) reached a change with  
a scattered source and a significant  
disturbance of source. The the end half  
4' or more away!!

Tues, Nov. 21/22, 1950.  
Solid overcast. - Wm

Cloud from the at time  
2 PH's today, 4 in E. ...  
Mar. 20      MC      SC      MTW      STW      SW  
                 +15.2    +24.7    -22.8    -0.3    +17°  
                 adv. 1 min

206

Date Sat Mar 25-26, 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.E.
17126	MW 164 HD 52721	6 57.2	-11 09	I-12	E103a0	008	+4.0 <del>+6.0</del>	19 19	19 31	1
17127	MW 174 HD 57386	7 15.9	-8 15	"	"	"	+4.2	19 35	20 13	2
17128	MW 189 HD 65176	7 52.4	-1 20	"	"	"	+4.0	20 16	20 54	3
17129	HD 72907	8 30.3	+29 03	"	"	"	+4.1	20 58	21 58	4
17130	HD 83632	9 34.8	26 28	"	"	"	+4.0	22 02	23 24	1
17131	HD 98155	11 12.4	25 37	"	"	"	+4.0	23 28	00 40	2
17132	" 115613	13 13.2	27 58	"	"	"	+4.0	00 52	01 30	3
	Process & cost				O.T.B.					

Dome Temp  
Focus  
Dome Temp

Hour Angle  
End

20:45  
20:48  
20:53  
21:11  
21:20  
1:19 AM  
0:09 AM

Dome Temp.....

Transparency Conditions

Fair

206

Focus.....

Dome Temp.....

Ending Time  
EST.

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	Bsre	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Be	
20 54	W 0 53	-1 25	0	8.1	B(s)re	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	Be	
21 18	W 1 19	+28 54	0	8.63	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG	
21 41	W 1 40	26 15	0	8.72	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	* seemed faint - some haze <sup>comp</sup>	good
22 04	W 1 19	25 20	0	8.56	Ko	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Hoag returning to thicker	fine
22 33	W 0 09	27 43	0	8.64	G5	$\frac{1}{2} - \frac{1}{2}$	" Star gone at 1.30	good
						4/3	3 PHs loaded + 8 Jan OK	
							H on M.	
							MC      SC      MTW    STW    SW <sup>s</sup> Mar. 29   +18.3   +28.0   -00.7   +0.2   -06	

227

Date Wed Nov 11 1950 Observer Ba - Gu Julian Day 2770.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17133	MW 188	7 51.9	28 14	"	"	"	-0.5	20 33	20 57	4
17134	WD 70688	8 18.2	29 04	"	"	"	-0.4	21 06	21 36	1
17135	81505	9 20.9	26 48	"	"	"	-0.5	22 40	23 50	2
17136	90841	10 24.2	29 02	"	"	"	-0.7	23 53	00 53	3
17137	105898	12 06.2	<del>26 17</del> 25 19	"	"	"	-0.8	00 57	01 19	4
17138	115613	13 13.2	27 38	"	"	"	-0.8	01 23	02 03	1
17139	122052	13 54.3	25 12	"	"	"	-0.8	02 11	02 34	2
17140	122693	13 58.7	25 03	"	"	"	-0.9	02 39	03 04	3
17141	122767	13 58.7	25 05	"	"	"	-0.9	03 06	03 53	4
17142	132256	14 53.0	25 43	"	"	"	-0.9	04 00	04 37	1
17143	{ 143872	15 54.4	26 49	"	"	"	-0.9	04 34	05 20	2
	{ FOCUS TEST —		O.T. 13.							

Dome Temp. 26  
 Focus 12.930  
 Dome Temp. 20°

Transparency Conditions 2001, Cloudy along 208  
 After sunset  
 High Wind  
 High wind lasting all night.

Reading Time  
 E.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:17	0113W	306	0.4	7.7	B <sub>2</sub> e	1-1-1	215 P.C. Proj	fine
2:13	0225W	23 54	0-	3.45	G0	1-1-1	5 AG	good
2:38	2 37W	26 35	1	2.85	G5	1-1-1	3	fine
2:53	2 36W	28 46	1-2	3.70	G2	1-1-1	" AG	fine
3:13	1 21W	25 01	1-2	7.94	G5	1-1-1	" "	fine
3:28	1 03W	27 42	1-2	8.64	G5	1-1-1	" "	fine
3:51	0 97W	24 56	1-2	7.95	G0	1-1-1	" "	fine
4:14	1 15W	24 47	1-2	7.92	G0	1-1-1	" "	fine
4:37	2 07W	24 49	1-2	8.78	K0	1-1-1	" "	fine
4:51	1 46W	25 31	1+	7.93	G5	1-1-1	" "	fine
5:20	1 35W	26 40	1±2	8.96	K0	1-1-1	" "	fine

found to be a P.W. loaded B plate in a box.





Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions

Very hazy  
only opened to get bright \*



210

3.0 - 4.0 - 5.0 - 6.0 - 7.0 - 8.0 - 9.0 - 10.0  
10.0 - 11.0 - 12.0 - 13.0 - 14.0 - 15.0 - 16.0 - 17.0 - 18.0 - 19.0 - 20.0

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 53	-11 14	1	6.6	R3e	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	1st on very hazy night He called was night	1st
W 1 01	-1 29	1	8.1	R5)ne	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	That was last can be safely inferred It looks like some other things Vibration in seeing but is hazy	"

1950.-Friday, March 31. Apr 1 Haze, thick  
Sat. April 1/2. Cloudy as of cost  
Showed 74" to ...  
Tues April 4/5. Over cast Wm



Dome Temp. 28

Transparency Conditions

Good

212

Focus 12935

Dome Temp. 21

Focus needs adjusting

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04	050W	-1 23	0	8.1	K <sub>00</sub>	1-1-1	Be Prog	lute
	115W	3 06	0	7.7	B <sub>00</sub>	1-1-1	" (white w/ purple, blue)	fine
	317W	15 3	0-1	7.7	B <sub>30</sub>	1-1-1	"	fine
	245W	21 55	1	8.4	G <sub>0</sub>	1-1-1	AG - 2nd body visible	good
	126W	28 20	1-2	7.5	G <sub>5</sub>	1-1-1	"	fine
	136W	25 48	1-2	7.63	K <sub>0</sub>	1-1-1	"	lute
	156W	29 49	1-2	7.54	K <sub>0</sub>	1-1-1	" full brightening!	strong
	219W	28 12	0-2	7.66	K <sub>0</sub>	1-1-1	"	strong
	135W	27 29	1-2	7.72	G <sub>5</sub>	1-1-1	"	strong
	221W	28 53	1-2	8.58	K <sub>5</sub>	1-1-1	"	lute
	137W	25 05	1-2	7.12	K <sub>0</sub>	1-1-1	"	lute
	126W	26 56	1-2	7.30	K <sub>0</sub>	1-1-1	"	fine
	118W	29 37	1-2	7.56	K <sub>2</sub>	1-1-1	"	lute
	057W	27 00	1-2	8.98	K <sub>2</sub>	1-1-1	" 3 PN - lute	fine
	111W	25 57	1-2	8.97	G <sub>0</sub>	1-1-1	" 4 PN - lute	good

end of obs

213

Date 5/11/57 Observer L Julian Day 3380

60

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	HD 83341	07 32.6	25 48	12"			-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
	{ <i>Grass Test</i>			O. T. B.						

Dome Temp

Foc...

Dome Temp

Hour Angle  
End

215W

141W

114W

101W

0.48W

124W

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

Transparency Conditions Fair  
 High Wind  
 214

Ending Time  
 L.L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
215 W	25 35	<0	8.95	G1	1-1-1	K25	low
141 W	25 21	0	8.95	K0	1-1-1/2	"	good
114 W	29 38	0	8.77	G0	1/2-1/2-1/2	"	good
101 W	26 29	0	8.51	K5	1/2-1/2-1/2	"	good
0.48 W	29 02	0	8.76	K2	1/2-1/2-1/2	"	good
124 W	25 30	0	8.93	G0	1/2-1/2-1/2	"	good
					4/3	1 P.H. loaded +12, W on M no centre exposure	

215

Date Sun Apr 9-10, 1950 Observer Hd - Caw 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	$\bar{2}$ -12	E10300	008	+1.1	20 02	20 24	4
17168	HD 73194	9 06.8	23 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	23 04	00 56	1
17172	" 130421	13 44.3	28 22	"	"	"	+1.0	01 00	01 20	1
17173	" 126 009	14 17.9	29 51	"	"	"	+0.9	01 24	01 52	2
17174	" 126 307	14 19.6	27 53	"	"	"	+0.9	01 55	02 15	3
17175	" 127 093	14 24.3	26 18	"	"	"	+0.9	02 15	02 40	4
17176	" 133 460	14 59.5	26 25	"	"	"	+0.9	02 44	03 04	1
17177	" 134 246	15 03.7	28 53	"	"	"	+0.9	03 06	03 26	2
17178	[ 142 053	15 47.3	25 37	"	"	"	+0.9	03 30	04 04	3
	} FOCUS TEST - O.T. 13.									

Dome Temp. +30

Focus 12.930

Dome Temp. +26.0°F

Transparency Conditions

Good

216

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 257	15 09	1	7.7	B3e	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	Be (mag) (see finder friend sketch)	good
	28 11	1	8.91	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		strong
W 131	27 20	1	8.96	K <sub>0</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		good
129W	26 43	1	8.95	K <sub>2</sub>	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$		weak
129W	29 08	1	8.68	G <sub>0</sub>	1-1-1	AG Pro.	comp. weak
0 26W	28 06	1	7.63	G <sub>5</sub>	1-1-1		comp. weak
0 26W	29 35	1-2	7.94	M <sub>2</sub>	1-1-1		comp. weak
0 48W	27 38	2-3	7.93	K <sub>5</sub>	1-1-1		comp. weak
1 08W	26 04	1-2	7.79	M <sub>0</sub>	1-1-1	" " (1.5 A)	comp. weak
1 58W	26 13	1-2	7.72	G <sub>0</sub>	1-1-1	" "	comp. weak
1 15W	28 41	2	7.73	G <sub>5</sub>	1-1-1	" "	comp. very weak
1 09W	25 27	2	8.35	K <sub>0</sub>	1-1-1	" " Cloud 3 0.5:40 m. like	very weak
						3 P.H.s. loaded. call	
						E 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 - R 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	E10320	008	-2.6	19 44	20 16	4
17180	HU 77729	8 59.2	26 34	"	"	"	-2.6	20 23	21 23	1
17181	HD 77928	9 20.4	26 31	"	"	"	-2.7	21 26	22 30	2
17182	HD 99947	11 24.9	25 52	"	"	"	-2.7	22 35	23 47	3
17183	HD 107468	12 16.1	26 17	"	"	"	-2.7	23 44	00 48	4
17184	" 121183	13 48.0	27 35	"	"	"	-2.9	00 57	02 17	1
17185	" 134283	15 03.9	27 05	"	"	"	-2.9	02 29	03 28	2
17186	" 143686	15 56.8	24 44	"	"	"	-3.0	06 32	05 00	3
	{ FOCUS TEST		-O.T. B.							

Dome Temp... +24

Focus... 12.730

Dome Temp... +20°F

Transparency Conditions

Good

218

00:20 High wind

missing island part

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:54	W 3 04	15 08	0	7.7	Bse	1-1-1	Bse Pray	Good
02:01	W 1 30	26 23	0	8.58	K <sub>2</sub>	1-1-1	1-5	Good
02:05	W 2 36	26 21	0	8.63	K <sub>2</sub>	1-1-1	"	Good
02:07	W 1 22	25 10	0	8.72	K <sub>0</sub>	1-1-1	"	Good
02:10	1 38W	25 59	0.7	8.72	K <sub>0</sub>	1-1-1	"	Good
02:15	1 35W	27 19	0-1.2	8.82	K <sub>0</sub>	1-1-1	"	Good
02:20	1 32W	26 52	0	8.63	K <sub>0</sub>	1-1-1	"	Good
02:25	2 13W	29 25	0-1	8.91	K <sub>0</sub>	1-1-1	"	Good

3 PH<sub>10</sub> loaded, 1 full size plate in room.

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

219

Observatory Conditions

Dome Temp

25

Bar

Dome Temp

Date Fr April 19/15 Observer P 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.
1718 <sup>1</sup> / <sub>7</sub>	HD 82331	09 22 2	27 16	12"	E100-D	...	-0.5	21 08		4
			From 7 out		OTB		+3			

Hour Angle  
End



29

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.
17188	HD 96393	11 01.6	26 17	I-12	E10320	008	+3.0	22 10	23 28	2
17189	H 0107069	12 11.1	26 17	"	"	"	+3.0	23 31	00 24	1
17190	HD 119748	13 40.0	29 29	"	"	"	+2.0	00 28	01 28	2
17191	HD 122052	13 54.3	25 12	"	"	"	+1.8	01 31	01 57	3
17192	" 126991	14 23.8	29 59	"	"	"	+1.5	02 00	02 30	4
17193	" 132256	14 53.0	25 43	"	"	"	+1.2	02 33	02 55	1
17194	" 142818	15 49.4	29 46	"	"	"	+1.0	03 01	04 01	2
17195	" 152306	16 47.5	28 17	"	"	"	+0.5	04 04	04 24	3
17196	{ 154510	17 00.8	28 14	"	"	"	+0.4	04 29	04 47	4
	} FOCUS TEST - A.T.B.									

Dome Temp. -2  
 Focus 12-930  
 Dome Temp. 25.5

Transparency Conditions Good. 222

About 40 visitors. Hd. Csu showed by 071 with 34 Phaedra, Orion not visible "4."

Ending Time  
L.S.T. P.M.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3:02	W 191	26 00	0	8.79	G5	1-1-1	AG 05	good
3:05	W 123	26 50	1	8.75	K0	1-1-1	"	l. stop
3:10	1 03W	29 14	1	8.81	G5	1-1-1	"	fine
3:15	1 18W	24 56	1+	7.95	G5	1-1-1	"	l. stop
3:20	1 21W	24 45	1+	8.06	K0	1-1-1	"	good
3:25	1 17W	25 20	1-2	7.93	G5	1-1-1	"	very good
3:30	1 28W	29 36	0-1	8.82	K0	1-1-1	"	l. stop
3:35	0 52W	28 11	1-2	7.72	G5	1-1-1	"	l. stop
3:40	1 01W	28 00	1-2	7.56	K0	1-1-1	"	l. stop
<p>centre focused to red            9 PH's loaded, full box            in room.</p>								

223

Date Jan 17 1950 Observer Pa Julian Day 3298

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 125 WD 65039	7 51 9	3 14	12"	E 10220	100	9.4	1953	2002	4
17198	68724	2 03 6	27 01	"	"	"	9.4	2012	2056	1
17199	78717	9 06 0	29 17	"	"	"	13	2100	2130	2
			Focus Test		OTB		13			

Dome Temp. 4.6

Focus 12930

Dome Temp.

Transparency Conditions

Good. No light haze 2214

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
0128W	3 6	2-3	7.7	Base	1-1-1	Be Prop.											
0205W	26 03	2	896	G5	1-1-1	AG-25	OK										
0141W	29 05	2	896	KO	1-1-1	" - May 4th evening. Used out of 2130	OK										
						3PH + 15	focus OK										
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>NTW</td> <td>STW</td> </tr> <tr> <td>Apr. 17</td> <td>+30.4</td> <td>+39.6</td> <td>+0.0</td> <td>+0.1</td> </tr> </table>		MC	SC	NTW	STW	Apr. 17	+30.4	+39.6	+0.0	+0.1	
	MC	SC	NTW	STW													
Apr. 17	+30.4	+39.6	+0.0	+0.1													



205

Date *Mon April 17-18, 50* Observer *L. Ege* Julian Day *2 433 339*

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 $\frac{0}{0}$	set 0.008	+13.0	20 00	20 32	3	0 40
17201	" 88533	10 07.5	27 55	"	"	"	+13.0	20 39	21 39	1	0 54
17202	" 101856	11 38.3	28 07	"	"	"	+13.0	21 44	22 40	4	0 34
17203	" 107132	12 14.0	25 24	"	"	"	+12.9	22 44	23 59	3	1 07
17204	" 111541	12 44.9	26 58	"	"	"	+12.9	00 01	00 29	4	1 21
17205	" 116029	13 15.9	25 10	"	"	"	+12.9	00 34	01 13	1	1 41
17206	" 122796	13 53.9	27 58	"	"	"	+12.9	01 21	01 45	2	1 07
17207	{ 147665	16 18.1	24 59				+12.9	03 23	04 38	3	1 41
	FOCUS TEST -		D.T.S.								

Dome Temp. +

Focus 253

Dome Temp.

Dome Temp. +52  
 Focus 12.930  
 Dome Temp.

Transparency Conditions *hazy*

226

*Bank of clouds in south Orion hidden*

Ending Time  
M.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 40W	24 33	1	8.00	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG. 25	very poor
0 54W	27 40	1	8.70	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	poor
0 24W	27 51	1-0	8.72	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>sky clearer.</i>	good
1 07W	25 08	1-0	8.89	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>(marked 0.73)</i>	good
1 07W	26 41	1-0	7.81	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	poor
1 25W	29 54	1-0	8.35	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	good
1 09W	27 44	1	7.69	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>Hazy &amp; cloud.</i>	poor
1 44W	24 52	0+	8.91	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " <i>clearing.</i>	good

*1 PH listed, -1.2 in log*

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



Dome Temp. 36

Focus 12920

Dome Temp. 32°

Transparency Conditions

Scattered clouds, a haze 228  
clearing away after sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
215W	23 10	0	8.98	G0	1-1-1	AG25	good
200W	27 01	0	8.82	K0	1-1-1	"	fine
231W	15 39	0	8.54	G0	1-1-1	"	good
2 22	28 54	0-1	8.89	K5	1-1-1	"	good
1 52	24 28	1-2	8.20	G5	1-1-1	"	fine
1 28W	20 36	1-2	7.94	M3	1-1-1	"	fine
1 49W	27 38	1-7	7.85	K5	1-1-1	"	fine
1 11W	25 19	0-2	8.79	G5	1-1-1	"	fair
12 15W	24 35	1	8.91	K0	1-1-1	Clouds at 4:03	fine
						2 Miras loaded. 9/6 in box.	
						+24	
						1950 Apr. 22-23. Showed telescope to 12 visitors. Cloudy - sprinkling of rain N, L.	

229

Date Sun Apr 23-24, 1950 Observer Ad - Cunn 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	"	"	"	4.2	22 01	23 21	2
17219	HD 15339	13 11.5	28 57	"	"	"	+8.0	23 34	00 34	3
17220	f- 121319	13 49.7	28 50	"	"	"	+8.0	00 38	01 16	4
	FOCUS TEST		12.7	B.						

Dome Temp. +42

Focus 12930

Dome Temp. ....

Transparency Conditions Poor

130

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
20:01	W 55	26 29	0	8.12	Mo	1-1-1	Cloudy	poor
20:12	W 1 37	25 25	0	8.75	Gs	1-1-1		poor
20:40	1 09 W	28 01	0+	8.4	Ko	1-1-1		poor
20:45	1 17 W	28 34	0+	8.19	Ko	1-1-1	Cloud, very faint faded - follow in cloud down 03:00	poor
							2.04 - 0.64 - 0.12 of white cloud	
							<div style="display: flex; justify-content: space-around;"> <span>MR</span> <span>SC</span> <span>MTW</span> <span>STW</span> <span>SW</span> </div> <div style="display: flex; justify-content: space-around;"> <span>Apr 24</span> <span>136.0</span> <span>+97.4</span> <span>-300</span> <span>-0.72</span> <span>+15°</span> </div>	

234

1950

Date March - 27 Observer Pa - Cu Julian Day 3398

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17221	HD 20817	09 16.7	26 12	12"	E100D	0.8	8.8	20 25	21 25	1
17222	38532	10 07.5	28 47	"	"	"	8.6	21 28	22 23	7
17223	101396	11 35.0	26 42	"	"	"	8.6	22 36	23 36	7
17224	139608	15 24.0	29 51	"	"	"	8.3	01 48	02 10	"
17225	{ 142053	15 47.3	25 37	"	"	"	8.3	02 13	02 35	1
	{ FOCUS TEST		- 0.73							

Dome Temp. 41  
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.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:11	205 W	26 03	1	8.00	G5	1-1-1	AG 25	1/2
0:20	221 W	26 32	1	8.12	K0	1-1-1	" slightly hazier	good
0:35	158 W	26 26	1	8.22	K0	1-1-1	" slightly hazier by following drizzle	fine
0:40	035 W	24 41	1	7.31	M2	1-1-1	"	fine
0:45	047 W	25 27	1	8.35	K0	1-1	" clouds again; Closing down into solid	good
							?	
							1 PH loaded, some stars in N.E. top.	



233

Date Friday April 23 29/50 Observer L Julian Day 2,433,400

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-12 $\frac{1}{2}$	E-10340	Set .008	13.9	01 16	02 02	2
17227	" 149132	16 27.7	29 49	"	"	"	13.9	02 10	03 12	3
17228	" 160952	17 37.7	29 39	"	"	"	13.8	03 16	04 30	4
	<i>Focus lost</i>					<i>OTB</i>				

Dome Temp. + 3  
 Focus 12 93  
 Dome Temp.

Hour Angle  
 End  
 0 51  
 0 51  
 0 51

Set

Dome Temp. +34°F

Transparency Conditions Fair

234

Focus 12.930

Dome Temp.

clouds earlier!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 38W	25 11	0	8.30	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25	Good
0 57W	29 42	0	8.70	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " some haze	Good
0 59W	29 37	0	8.91	K6	$\frac{1}{2}-\frac{1}{2}$	" "	Good
					4/3		
						e. PAs loaded +4	
						Hor M.	
<p>Sat Apr 29-30 Ad -/su. About 70 visitors showed  <math>h + c</math> with 74" <math>c + d</math> seen with 4".          Cloudy after visitors.</p>							
<p>May 1 MC SC MTW STW SW<sub>s</sub>  <math>+40^s</math> <math>+48^s</math> <math>00 \pm</math> <math>+0.3</math> <math>-03</math></p>							
<p>Sun. Apr 30 - May 1 Overcast, Wm.</p>							
<p>Tues May 2/3 - Cirrus until 22 00; leaving it until 2<sup>nd</sup> <math>\frac{1}{2}</math> Wm.</p>							

235

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 130520	14 43.5	+25 53	I-12 $\frac{1}{2}$	E-10320	Set .008	+10.3	01 03	02 11	1
17230	HD 143705	15 56.7	+29 13	"	"	"	+9.4	02 45	03 55	2
17231	HD 150665	16 57.4	+26 17	"	"	"	+8.9	02 59	03 08	3
	FOCUS TEST		- 07.3							

Dome Temp. +43°F

Focus 12.930

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

Ending Time  
Z.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
1 49 W	+25 40	0-2	8.96	K <sub>0</sub>	1-1-1	AG 25													
1 21 W	+29 04	1-2	8.94	Q <sub>5</sub>	1-1-1	" "													
1 45 W	+26 11	1-2	8.64	K <sub>0</sub>	1-1-1	" "													
						3 plates - loaded, full													
						box in P. room													
						<table border="0"> <tr> <td></td> <td>MC 15</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 15	SC	MTW	STW	SW	May 5	+42.8	+50.2	+13.0	+0.6	+06	
	MC 15	SC	MTW	STW	SW														
May 5	+42.8	+50.2	+13.0	+0.6	+06														

237

Date Sun May 7-8, 1950 Observer Ad - Cw 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-2	E103a0	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 37	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 56.5	29 11	"	"	"	+8.0	01 56	02 40	1
17238	HD 150087	16 33.7	<del>29 02</del> 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. 41

Transparency Conditions good

238

Focus 12.930

Dome Temp. 34°F

Ending Time E.S.T. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 06	W 106	+25 59	0	8.35	K <sub>0</sub>	1-1-1	AG 25	
1 07	W 107	27 35	0	8.64	G <sub>0</sub>	1-1-1	" "	
1 17	W 117	29 08	0	8.77	K <sub>0</sub>	1-1-1	" "	
1 24	W 124	25 57	0-1	7-8V	MB	1-1-1	" " Vis mag only.	
1 25	W 125	28 07	0-1	8-9	G <sub>5</sub>	1-1-1	" "	
1 26	W 126	29 05	1	8-9	G <sub>5</sub>	1-1-1	" "	
1 54	W 154	27 29	1-2	8-89	G <sub>5</sub>	1-1-1	" "	
0 43	W 043	26 39	1-2	7-49	G <sub>5</sub>	1-1-1	" "	

3 PH's loaded. 4 plates  
in a box.



Dome Temp. +48°F

Transparency Conditions .....

240

Focus..... 12:30

Dome Temp. +40°F

About 22 visitors. Richmond & well young adults, B & L showed Saturn with 74" through some light curves.

Ending Time E.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																		
	1 04W	27 16	0-1+	8.27	K <sub>0</sub>	1-1-1	AG 25	fine																		
	1 00W	25 37	1	8.35	K <sub>0</sub>	1-1-1	" "	"																		
	1 33W	29 57	0-1	8.77	G <sub>0</sub>	1-1-1	" "	"																		
							marked stars 02:15 4 PHs loaded. new hot needed.																			
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>HTW</td> <td>STW</td> <td>SW<sub>s</sub></td> </tr> <tr> <td>May 9</td> <td>+50.0</td> <td>+67.7</td> <td>-21.8</td> <td>-0.7<sup>m</sup></td> <td>+02</td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="3">adv. 1 min.</td> </tr> </table>		MC	SC	HTW	STW	SW <sub>s</sub>	May 9	+50.0	+67.7	-21.8	-0.7 <sup>m</sup>	+02				adv. 1 min.			
	MC	SC	HTW	STW	SW <sub>s</sub>																					
May 9	+50.0	+67.7	-21.8	-0.7 <sup>m</sup>	+02																					
			adv. 1 min.																							



24

Date Wed May 10-11, 1950 Observer H. Su 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	I-12	E10300	008		22 59		1
17243	HD 137003	15 18.6	+28 24	I-12	E10300	008	+11.8	01 45	01 55	2
17244	HD 199803	16 32.0	+29 56	"	"	"	+11.8	01 39	02 52	3
17245	AE BOET	11 10.2	+29 39	"	"	"	+11.8	03 04	04 00	4
	} focus test - O.T.B.									

Dome Temp. +46  
 Focus 12.930  
 Dome Temp. ....

Transparency Conditions

Poor 242  
*Partly cloudy at sunset. worse shortly after  
 Better again at 2200 Good 0100 EST*

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			<del>7.3</del>	<del>Ko</del>	<del>1-</del>	Watch correction $-0^m.5$ (note part entries!)	
1 50W	+28 12	0	8.14	Ko	1-1-1	This delayed starting. <u>Clouds</u> AG 25	
1 21W	+29 50	0-1	8.78	Gs	1-1-1	" "	
1 44W	+29 36	1	8.72	G0	1-1-1	" " 03.70 slight change	
						9 Also looked after a box	

243

Date *Thurs May 11/52* Observer *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 07.9	29 55	12"	E102aD	.018	13.3	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
	<i>Screen Sect</i>				<i>O.T.B.</i>					

Dome Temp. 77

Focus 12.930

Dome Temp. 43.5

Transparency Conditions

Clouds clear gradually, 244  
 clearing up 2200

Ending Time E.S.T. P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																								
11:55	0143W	29 39	0-1	8.77	G0	1-1-1	14-25 Holed oscillation key	3 stars																								
12:05	1 11 W	29 30	0-1	8.17	G5	1- $\frac{1}{2}$ - $\frac{1}{2}$	* Poor contact on secondary coil of bridge test stand	2 stars																								
12:25	2 07 W	25 38	0-1	8.22	G5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	clouds 1.40 - 2.40	1 star																								
12:45	1 08 W	28 00	0-1	8.71	G5	$\frac{1}{2}$ - $\frac{2}{3}$ +1/3	4 PH <sub>0</sub> loads 7.4 H.M.	1 star																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;">MC</td> <td style="width: 20%;">SC</td> <td style="width: 20%;">MTW</td> <td style="width: 20%;">STW</td> <td style="width: 20%;">SW</td> </tr> <tr> <td>May 12</td> <td>+08.7</td> <td>-06.0</td> <td>-10.8</td> <td>-0.3<sup>m</sup></td> <td></td> </tr> <tr> <td></td> <td><i>reset</i></td> <td><i>reset</i></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="5">(0.2 wt. added a bold clock)</td> </tr> </table>									MC	SC	MTW	STW	SW	May 12	+08.7	-06.0	-10.8	-0.3 <sup>m</sup>			<i>reset</i>	<i>reset</i>					(0.2 wt. added a bold clock)					
	MC	SC	MTW	STW	SW																											
May 12	+08.7	-06.0	-10.8	-0.3 <sup>m</sup>																												
	<i>reset</i>	<i>reset</i>																														
	(0.2 wt. added a bold clock)																															

246

Date Aug 12/53 Observer Bull, G. Julian Day 3414

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17250	9534	10 32.5	20 37	"	E 103a D	"	15.8	2126	2140	
17251	108823	12 32.7	29 11	"	"	"	17.0	2144	2134	
17252	114633	13 41.7	24 54	"	"	"	18.9	2257	2337	
17253	123822	14 54.8	25 54	"	"	"	16.8	2340	0040	
	FOCUS TEST		O.T	B.						

Dome Temp.  
Focus  
Dome Temp.  
Hour Angle  
End

Dome Temp. 58  
 Focus 17430  
 Dome Temp.

Transparency Conditions Good 246

exp. delayed because of faulty contact  
 with the shutter motor  
 0110 ...

Ending Time  
 E.S.T. P.M.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
148 W	24 21	0-1	882	05	1-1-1	A-25	fine
102 W	25 09	1	875	05	1-1-1	" original star for the spectral type	good
122 W	26 39	0-1	876	00	1-1-1	"	good
137 W	25 40	0	891	K2	1-1-1	" 01:30 film in.	good
						<p>0110 ...</p> <p>no centre exposure in focus test</p>	

247

Date 1950 May 13-14 Sat. Observer N. G. L. Julian Day 3415

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17254	HD 120803 <del>120095</del>	13 46.6	+25 12	1-122	L103-C	0.003	+12.4	23 00	00 00	1
17255	HD 132737	14 55.6	+27 33	"	"	"	+12.1	00 04	01 00	2
17256	HD 141176	15 42.6	+25 22	"	"	"	+12.1	01 03	01 57	3
17257	HD 151780	16 44.4	+26 46	"	"	"	+12.0	02 00	03 00	4
<del>17258</del>	{ HD 166683	18 06.7	+29 04	"	"	"	+12.0	03 03	04 05	5
	{ FOCUS TEST	O. T. B.								

Dome Temp.

Focus

Dome Temp.

Hour Angle  
End

Dome Temp. +45°F

Focus 22.920

Dome Temp. +47°F

Transparency Conditions haze

248

Chart 90 minutes. Cirrus clouds delayed opening of 74. in. for minutes. Slowed to work with 74. in. Some cloud still around N at 23.00, probably improving.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	01 17W	+29 57	0	8.05 <del>8.56</del>	K <sub>0</sub>	1-1-1	A <sub>E</sub> 25 (HD 120895 not marked on chart)	
	01 10W	+27 40	0-1	8.61	K <sub>0</sub>	1-1-1	"	
0573	01 20W	+25 13	1-2	8.84	G <sub>5</sub>	1-1-1	"	
0607	01 21W	+26 40	1-2	8.83	K <sub>2</sub>	1-1-1	"	
0635	01 05W	+29 03	0-1	8.57	G <sub>5</sub>	1-1-1	plate destroyed exposures overlapped Slide in box; 29.00 loaded.	
							MC SC MTW STW SW May 15 +13.3 -06.9 +00.8 -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	1 11
17259	HD 108466	12 22.6	28 40	"	"	"	+17.0	21 36	22 06	3	1 36
17260	HD 115613	13 13.2	27 58	"	"	"	+17.0	22 09	23 21	4	1 51
17261	AG 6888	14 29.9	24 51	"	"	"	+16.8	23 <sup>29</sup> / <sub>26</sub>	00 23	1	2 00
17262	HD 140912	15 41.4	28 47	"	"	"	+16.7	00 33	01 25	2	2 02
17263	HD 148291	16 23.2	27 55	"	"	"	+16.5	01 34	02 26	3	2 17
17264	HD 158635	17 01.6	25 28	"	"	"	+16.2	02 37	03 27	7	2 32
17265	HD 156362	17 12.0	27 16	"	"	"	+16.2	03 30	03 50	1	2 53
	FOCUS TEST - O.T. B.										

Dome Temp. +57 F.

Focus 12.750

Dome Temp. +48 F.

Transparency Conditions Poor at first

250

00.00 scattered cloud from N  
00.15 high wind from N cloud

Ending Time EST. P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:02	11	+25 42	0	8.49	G <sub>0</sub>	1-1-1	Thin cloud at first.	fine
2:03	W 56	+28 23	0-1-0	7.93	K <sub>0</sub>	1-1-1		fine
2:04	W 1 21	+27 43	0	8.64	G <sub>5</sub>	1-1-1		fine
2:05	0 10 W	24 38	0-1	8.68	G <sub>0</sub>	1-1-1	Set 9 Wrong * at first	fine
2:06	0 11 W	28 36	0-1	8.49	G <sub>0</sub>	1-1-1	AE 25 very good body.	fine
2:07	1 01 W	27 47	1	8.79	K <sub>0</sub>	1-1-1	" "	fine
2:08	1 11 W	25 24	0	8.25	K <sub>0</sub>	1-1-1	" "	fine
2:09	1 52 W	27 11	0-1	7.58	K <sub>0</sub>	1-1-1	" "	fine
							3 00, loaded, was too weak	
							at 10:15	
<p>Jues. May 16            About 50 University Women Faculty            N.L.S. showed Saturn with 74" through            light cloud Blink and projection            measuring engines in Main Building.</p>								

251

Date <sup>-18</sup> Wed 17 May 50 ..... Observer *P. Gu.* ..... Julian Day *3919* .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17266	<i>42 1208</i>	<i>13 42</i>	<i>21 37</i>	<i>10</i>	<i>103</i>	<i>100</i>	<i>15.1</i>	<i>2239</i>	<i>2354</i>	<i>2</i>

Dome Temp. *5*  
Focus *12.9*  
Dome Temp.



253

Date Fri May 19-20, 1950 Observer Hd-I Julian Day 2453481

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 100041	11 25.6	29 00	I-12	E103aD	008	+12.5	20 30	21 10	3
17268	HD 109627	12 31.0	25 38	"	"	"	+12.7	21 13	22 39	4
17269	HD 121149	13 08.6	25 09	"	"	"	+12.8	22 42	23 25	1
17270	" 135007	15 30.5	25 20	"	"	"	+12.8	00 00	00 56	2
17271	" 145592	16 27.8	26 15	"	"	"	+12.5	01 00	01 54	6
17272	" 155479	17 25.9	26 46	"	"	"	+12.5	01 08	02 23	4
	<u>Procedures</u>									

Dome Temp. +

Focus 129

Dome Temp.

Hour Angle  
End

4113

4114

370

371

372

1111

Dome Temp. +50 F

Transparency Conditions Uncertain at first 254

Focus 12.930

Dome Temp. ....

Ending Time P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 1 13	+28 44	0	8.05	M <sub>0</sub>	1-1-1		good
	W 1 36	25 41	0-	8.54	K <sub>2</sub>	1-1-1	<i>high</i>	good
	1 37 W	31 54	0-1	8.58	G <sub>0</sub>	1- $\frac{1}{2}$ - $\frac{1}{2}$		v. strong
	0 55 W	25 10	0-1	8.30	G <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		strong
	0 56 W	26 39	0-1	8.37	G <sub>5</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		fine
	1 28 W	26 42	0-1	8.56	K <sub>0</sub>	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$		1.7 mag
						4/3	A PR - <i>transit</i> - <i>+</i> No. 11	fine

255

Date Sat May 20 - 21 1950 Observer HD (54) - Gr Julian Day 243243

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
17273	HD 118658	13 53.2	27 17	I-12	S 2015	250	+16.6	22 25	23 25	1	
17274	HD 124878	14 21.5	27 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 140325	15 28.2	+21 27	"	"	"	+16.9	00 28	01 28	4	
17277	HD 152431	16 35.9	+25 44	"	"	"	+16.9	01 32	02 25	5	
17278	HD 156775	17 14.4	+25 51	"	"	"	+16.9	02 28	02 44	6	
17278	HD 160914	18 07.7	+25 21	"	"	"	+16.9	02 47	03 37	7	
	Focus Test		C.T.B.								

Dome Temp

Focus

Dome Temp

Hour Angle  
End

Dome Temp. +59 F

Focus 12.930

Dome Temp. +58 F

Transparency Conditions

Improving after early dawn 256  
About 120 minutes. Showed 9 with 74 (exp. 400!)  
5 with 47

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 0 45	27 34	3-2	6.67	G5	1-1-1		
	W 0 47	28 49	2	5.82	K0	1-1-1		
	W 1 01	29 55	2	8.04	K2	1-1-1		
	W 1 24	29 48	2-1	8.71	G5	1-1-1		
	W 1 25	25 32	1-0	7.21	K0	1-1-1		
	W 1 04	25 51	2	7.61	K0	1-1-1		
	W 1 16	25 22	1-0	7.84	G0	1-1-1		
						4/3	4 ph. load + 8	
							H.O.M.	



257

1950

Date Sun May 21/50 - Observer Ba, G. Julian Day 3473

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17280	<sup>HD</sup> 101256	11 38.3	28 27	12"	KODAK	10E	21.1	20 44	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	01 03	3
17283	136901	15 18.1	25 59	"	"	"	21.0	00 04	00 40	4
17284	AG 7420	<sup>54.6</sup> 15 57.6	28 02	"	"	"	21.0	02 45	01 31	1
17285	HD 150205	16 20.4	27 52	"	"	"	21.0	01 50	02 25	2
17286	152234	16 47.3	29 45	"	"	"	20.9	02 07	02 31	3
17287	156652	17 13.7	29 02	"	"	"	20.9	02 34	02 04	4
1728E	(166867	18 07.5	29 53	"	"	"	20.9	02 37	03 45	1
	FOCUS TEST		O. T. S.							

Dome Temp  
Focus 12.9  
Dome Temp

Hour Angle  
End

Dome Temp. 65

Focus 12.930

Dome Temp. 65

Transparency Conditions

Good

288

Start delayed by blown generator fuel.  
Curious rattle from West end of tube  
when focusing

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0138W	27 51	0+	8.72	K0	1-1-1	AG 25	Good
0156W	24 30	0+	8.86	K2	1-1-1	"	Good
1 01W	27 22	0	8.82	G5	1-1-1	"	Good
0 59W	25 47	0-1	8.22	K0	1-1-1	"	Good
1 12W	27 53	0-1	8.44	K0	1-1-1	"	Good
1 06W	29 46	0-1	8.07	G5	1-1-1	"	Good
1 22W	27 39	1-2	8.07	G5	1-1-1	"	Good
1 28W	28 52	0-1	8.09	M0	1-1-1	"	Good
1 18W	29 53	0	8.07	K0	1-1-1	"	Good

= 4.75, 1.4 x 2.4" lens, sections of  
 tube 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	HD 1700E	12 22.7	24 50	T-12	E-100-0	ser 008	113.7	21 40	22 56	2
17290	" 17097E	14 51.0	24 48	"	"	"	113.7	23 00	23 46	2
17291	" 1725E	14 24.5	25 27	"	"	"	110.5	23 53	24 33	4
17292	AG 7430	15 58.6	28 22	"	"	"	118.4	00 37	01 11	1
17293	HD 28014E	16 27.8	28 15	"	"	"	115.3	01 14	01 44	2
17294	" 15443E	17 13.7	28 02	"	"	"	118.1	01 48	02 18	5
17295	" 16051E	17 35.1	26 59	"	"	"	118.1	02 21	02 57	4
17296	" 16599E	18 03.5	26 24	"	"	"	118.1	03 01	03 22	1
17297	" 17155E	18 30.4	29 10	"	"	"	118.1	03 24	03 38	2
	FOCUS TEST		C.T.E.							

Dome Temp.

Focus

Dome Temp.

Hour Angle  
Final

Dome Temp. +61°F

Focus 18.930

Dome Temp. 25.8°F

Transparency Conditions

Fair Light haze 260

Heavy mist at dawn

Ending Time  
R.A.T. P.E.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 19 W	24 34	0	9.57	G5	2-1/2	AG 25	
0 40 W	24 36	0	8.46	K0	2-1/2	"	1st mag
1 25 W	25 15	0-2	8.19	G5	1-1-1	" Heavy pulsing	fine
1 03 W	27 53	1-2	8.74	K0	1-1-1	"	fine
1 02 W	28 28	1-2	8.27	G5	1-1-1	"	fine
0 21 W	28 58	1-2	8.08	M0	1-1-1	" heavily variable pulsing	
1 08 W	26 43	0-1-2	8.23	G0	1-1-1	" Sct 2	1st mag
1 05 W	26 25	2	7.78	K0	1-1-1	"	fine
0 54 W	22 42	1-2	7.23	K0	1-1-1	"	fine
						1st mag 2 M10 double (2.5) - 11th	
						on E. side	

261

Date  Wed. May 24, 1950

Observer Wm. H. C. 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.
17298	HD109552	12 30.5	+29°23'	I-12	E103a-0	SET 008	22.0	20 26	21 40	3
17299	HD 118971	13 36.3	26 26	"	"	"	22.0	21 43	23 03	4
17300	HD 126598	14 21.4	26 43	"	"	"	+21.8	23 06	00 16	1
17301	HD 150085	14 33.7	29 32	"	"	"	+21.8	00 11	01 35	2
	FOCUS 5E 5T	0	7-8	"	"	"				

Dome Temp 64

Focus 12.93

Dome Temp

Hour Angle  
End

Dome Temp. 64°F

Focus 12:930

Dome Temp. 57.5

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

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 58	+29 07	0	8.39	G0	1-1-1	AG 25	
W 17	+26 11	0	8.71	G0	1-1-1	Agc	
1 39	36 30	0+	<del>8.51</del> 8.51	<del>K5</del> K5	1-1-1	"	
0 21 W	28 52	0	8.43	G0	1-1-1		

2000m. Good. red plate

	MC	SC	MTW	STW	SW
May 25	+27.6	-01.2	-07.6	-0.3	-43

263

Date Thurs May 25/76

Observer V. R.

Julian Day 3127

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.H.	Hour Angle End
17302	104581	11 531	27 54	I-01	10300	0.001	21.0	20 30	21 20	3	
17303	119298	13 400	29 23	"	10300	"	12.0	21 44	22 40	4	
17304	170515	14 409	37 56	D-01	411	"	12.0	22 55	00 05	V	110

Dome Temp.  $+6.5^{\circ}C$

Focus  $17730$

Dome Temp.  $+1.7^{\circ}C$

Transparency Conditions *Cloudy*

264

Reading Time  
L.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
129W	+23 25'	0.1	2.8	K <sub>0</sub>	H-1	4.25											
130W	+23 42'	0.1	2.8	K <sub>0</sub>	H-1	4.25											
131W	+27 44'	0.1	2.8	K <sub>0</sub>	H-1	4.25											
<p><i>Cloudy</i></p> <p><i>Light clouds and haze</i></p> <p><i>at 0120 - light clouds - light</i></p> <p><i>clouds at 0140 -</i></p> <p><i>3.55. Cloud + 3.</i></p>																	
<p>Fri. May 26/27</p> <p>Sky overcast.</p> <p>Sat May 27/28 Showed wispy clouds h<sub>2</sub> - 70"</p> <p>Clouds at 2200 - 2300</p> <p>May 29</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>Ww.</td> </tr> <tr> <td>+31.4</td> <td>-01.6</td> <td>+16.8</td> <td>-0.0</td> <td>SW<sup>s</sup></td> </tr> </table>								MC	SC	MTW	STW	Ww.	+31.4	-01.6	+16.8	-0.0	SW <sup>s</sup>
MC	SC	MTW	STW	Ww.													
+31.4	-01.6	+16.8	-0.0	SW <sup>s</sup>													



265

Date Mar. 23/30 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	16 525	+25 48	I-12	E-100C	.008	-10.2	01 14	02 24	
17306	HD 170619	13 253	+29 20	"	"	"	-12.7	02 37	03 59	
17307	HD 171232	18 221	+21 25	"	"	"	-15.7	02 51	03 25	
17308	HD 185289	19 333	+26 08	"	"	"	-16.8	03 28	03 58	
	<i>from slit</i>									

Dome Temp  
Focus  
Dome Temp  
Hour Angle  
End

Dome Temp... +5.1 F

Transparency Conditions... Cloudy - clearing 10:10

266

Focus... 12.770

Dome Temp... +5.1 F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 38 W	+25 44	1014	370	50	1-1-1			
0 38 W	+27 27	1	787	50	1-1-1			
1 38 W	+25 28	1014	767	50	1-1-1			
0 35 W	+24 15	110	804	50	1-1-1			
					1/2			
3 P.M. Clouded out								

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.E.
17309	AG. 6529	13 30.5	25 19	I-12 $\frac{1}{2}$	E1030-0	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. +59°F

Focus 12.930

Dome Temp. +53°F

Transparency Conditions

light haze

268

Richmond Hill United Church Choir about 24. B-Gol  
showed Saturn with "74"

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
06W	25 05	0	8.47	G5	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	AG.25	1 wk														
1 04W	28 37	0-1	7.95	G0	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	" Bled at 23 20	good														
1 08W	26 10	0-1	8.64	K0	1-1-1	" Bleary at 00 30	good														
1 07W	26 30	0-1	7.59	K0	1-1-1	"	good														
1 42W	27 19	0-1	8.33	K0	1-1-1	" after wind-blank morning in from S.W.	good OK														
2 pH's loaded - full																					
<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>Jan 1</td> <td>+34.3</td> <td>-00.8</td> <td>+35.8</td> <td>+0.2</td> <td>-0.67</td> <td></td> </tr> </table>								MC	SC	MTW	STW	SW		Jan 1	+34.3	-00.8	+35.8	+0.2	-0.67		
	MC	SC	MTW	STW	SW																
Jan 1	+34.3	-00.8	+35.8	+0.2	-0.67																

269

Date 1950 June 1-2 ..... Observer L-R, Cu ..... 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 <sup>h</sup> 06.1 <sup>m</sup>	+27° 37'	I-122	103000	0.008	19.0	22 <sup>h</sup> 59 <sup>m</sup>	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 2.950

Dome Temp. 55°F

Transparency Conditions *Light haze*

270

*Clouds earlier delayed opening*

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
35W	27° 37'	0-1	8.93	Ko	1-1-1	AE 25	low
01W	27 07	0-1	8.43	Mo	1-1-1	" "	low
30W	27 24	0-1	8.58	M3	1-1-1	" "	low
01W	27 12	0-1	8.98	Mo	1-1-1	" "	good
35W	25 33	1	7.99	Ko	1-1-1	" "	fine
31W	29 43	1	7.07	Ko	1-1-1	" " numbered 17318 4.5" banded, 9.000. 2.5"	fine
<p>Est. Jan 3-4/50 Sky overcast - 20-40 about 40 minutes the change.</p>							

271

Sun

Date 1950 Jun 4-5 Observer L(R) - Gr Julian Day 2,433,457

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	119823	13 <sup>h</sup> 34 <sup>m</sup> 2	+24° 45'	I-12 <sup>1/2</sup>	10300	0.008	+17.2	21 <sup>h</sup> 00 <sup>m</sup>	22 <sup>h</sup> 00 <sup>m</sup>	
17321	130766	17 <sup>h</sup> 41 <sup>m</sup> 9	+25° 35'	I-12 <sup>1/2</sup>	10300	0.008	+17.0	22 <sup>h</sup> 43 <sup>m</sup>	23 <sup>h</sup> 00 <sup>m</sup>	
17322	142209	15 <sup>h</sup> 48 <sup>m</sup> 2	+28° 54'	I-12 <sup>1/2</sup>	10300	0.008	+16.9	23 <sup>h</sup> 16 <sup>m</sup>	00 34	1 A.M.
17323	HD 150567	16 36 8	+29 06	"	"	"	+16.8	00 37	01 07	4 1/2 A.M.
17324	" 165473	18 01 1	+29 04	"	"	"	+16.8	01 39	02 09	10 A.M.
17325	" 165589	18 01 6	+28 41	"	"	"	+16.8	02 11	03 49	2 1/2 A.M.
	Focus test		C.T.B.							

Dome Temp. 58°F

Transparency Conditions Good

272

Focus 12.930

Dome Temp. 48°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 <sup>h</sup> 19 <sup>m</sup> W	+24° 31'	0-1	8.88	K3	1-1-1	MG 28	fine
0 <sup>h</sup> 53 <sup>m</sup> W	+25° 23'	1	8.06	K0	1-1-1	"	fine
1 19 W	+28° 45'	0-1	8.92	K2	1-1-1	"	fine
1 3 <sup>4</sup> W	+29 00	0-1	8.75	K2	1-1-1	24 stars light, 2nd magnitude	fine
0 41 W	+29 04	1	7.84	K0	1-1-1	"	used
1 21 W	+28 41	1	7.86	K2	1-1-1	"	fine
					4/3		
						4 P.H. loaded + 8	
						H on M.	
						Jan. 5 Watch advanced 1 min.	
						" 6 MC SC MTW STW SW	
						+38.6 +08.9 +04.8 -0.0 -05.3	



Date Tues June 6-7, 1950 Observer Ad. Gu Julian Day 3429

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17326	HD 126991	14 23.8	24 59	5-12	E103a0	008	24.50	22 12	22 52	1
17327	HD 138156	15 25.2	27 26	"	"	"	24.9	22 55	00 09	2
17328	COMET HAC 1950	17 36.6	+10 47	"	"	"	24.4	00 34	01 48	3
17329	AG 3656	18 01.9	25 40	"	"	"	24.1	01 55	02 31	4
173 <sup>3</sup> 10	HD <del>169819</del> <del>169797</del>	18 <del>21.3</del>	<del>25 56</del> <del>26 01</del>	"	"	"	24.0	02 35	03 10	1
173 <sup>3</sup> 11	{ HD 175991	18 52.7	28 04	"	"	"	24.1	03 13	03 35	2
	{ FOCUS TEST		O. T. B.							

Dome Temp. +71°F  
 Focus 12.940 (reset)  
 Dome Temp. +65°F

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality														
W 10 <sup>h</sup> 58	24 44	0-1	8.06	Ko	1-1-1	AQ 25															
1 29W	27 16	1	8.76	Ko	1-1-1	" "															
0 59W	+10 45	1-2	9?		1-1-1	<i>rel</i> Doubt whether this is comets, but this object <i>A. 7000</i> seems to appear or shift	<i>STW</i>														
1 10W	25 41	1-2+	8.49 8.72	G	1-1-1	AQ 25 everything double checked	<i>1.50</i>														
1 30W	26 01	1-2-0	8.28	Ko	1-1-1	" "	<i>1.50</i>														
1 24W	28 09	1-2	8.00	Ko	1-1-1	" "	<i>1.50</i>														
1 PH. loaded, 9 white in an E. 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>Jun. 7</td> <td>+39.8</td> <td>-00.8</td> <td>+10.2</td> <td>-0.1</td> <td>-77°</td> <td></td> </tr> </table>								MC	SC	MTW	STW	SW		Jun. 7	+39.8	-00.8	+10.2	-0.1	-77°		
	MC	SC	MTW	STW	SW																
Jun. 7	+39.8	-00.8	+10.2	-0.1	-77°																

275

Date 1952 Jun. 7-8 9<sup>th</sup> 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.
<del>173371</del>	HD 1281035	14 22.7	+28° 55'	D-12 1/2	10300	0.008	27.0	22 44	23 20	3
173372	147 527	16 <sup>17.4</sup> <del>19.5</del>	+29 <sup>13</sup> 05	I-105	10300	0.008	26.7	23 50	00 30	4
173373	HD 150086	16 33.7	29 02	"	"	"	26.9	00 33	01 23	1
173374	HD 155839	17 09.0	25 07	"	"	"	26.8	01 28	02 08	2
173375	HD 166867	18 07.5	29 53	"	"	"	26.6	02 12	02 50	3
173376	HD 174414	18 45.3	27 36	"	"	"	26.5	02 53	03 31	4
	FOCUS TEST		O. T. B.							

Dome Temp. 72

Focus 12.940

Dome Temp. 68°F

Transparency Conditions

clouds early

276

in evening

Sun. haze during night

Ending Time L.M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:45	35 W	+28°42'	0	8.72	G5	1-1-1	Plate <sup>found</sup> when plate holder came unknown	
3:00	57 W	+29°07'	0	8.48	G0	1-1-1	AG 25	
3:23	34 W	+28 55	0	8.42	G5	1-1-1	AG 25	
3:35	44 W	+25 03	0+	8.19	K5	1-1-1	" "	
3:50	27 W	+29 53	0	8.07	K0	1-1-1	" "	
3:54	30 W	+27 40	0-1+	8.12	K0	1-1-1	Set 5 " "	
							" 10 3 PM loaded, 2 in box	
							1950 Jun 8-14.	
							Mirror freshly aluminized - back in telescope	
							Jun. 14.	
							Sat. June 10 about 40 visitors.	
							showed telescope. showed 4 with	
							4"	

277

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

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
17338 <sup>7</sup>	<del>HD 142898</del>	<del>15 52.0</del>	<del>+27 20</del>	I-12 $\frac{1}{2}$	E 10320	set 0.00 E	+21.0°C	21 00	21 46	1	1 06 W
17338 <sup>8</sup>	" 153224	16 53.0	+29 45	"	"	"	+20.9	21 49	00 33	2	0 33 W
17340 <sup>39</sup>	" 161196	17 39.1	+29 42	"	"	"	+20.8	00 43	01 30	3	1 07 W
17341 <sup>0</sup>	" 174695	18 46.7	+28 25	"	"	"	+20.8	01 39	01 58	4	0 23 W
17342 <sup>1</sup>	" 183399	19 24.3	+29 15	"	"	"	+20.8	02 04	01 18 <sup>023</sup>	1	0 21 W
17343 <sup>2</sup>	" 185270	19 33.2	+25 56	"	"	"	+20.8	02 24	03 15	2	0 54 W
17344 <sup>3</sup>	" 195967	20 29.3	+29 11	"	"	"	+20.7	03 22	03 47	3	1 30 W
	2 Focuses										

Dome Temp. 6  
Focus 12  
Dome Temp.

Dome Temp. 63°F

Focus 12.940

Dome Temp. 60

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

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 46	1 06W	+27 11	0	8.93	K <sub>0</sub>	1-1-1	AG 25 Wrong star, identity uncertain. Focussed on α Cor. Bor. with no trouble	good
20 35	0 53W	+29 40	0	8.70	G <sub>0</sub>	1-1-1	Allowing 1.5 mag for mirror with no haze allowance.	best
21 30	1 03W	+29 41	0	8.82	M <sub>3</sub>	1-1-1	"	strong
21 31	0 23W	+28.27	0	7.85	K <sub>0</sub>	1-1-1	"	strong
21 32	0 06W	+29 21	0	7.49	K <sub>0</sub>	1½-1½	"	medium
21 33	0 54W	+26 03	0	8.78	G <sub>5</sub>	1-1-1	"	medium
21 34	0 30W	+29 21	0	8.23	K <sub>5</sub>	1-1-1	late partially fogged	medium
							Set 9.	
							312 H. Radius	
							M.C. SC N.T.W. S.T.W. S.W.	
							June 9 +42.8 -01.2 +16.8 -0.0 <sup>m</sup> -80.8 <sup>s</sup>	
							June 12 ~+42.0 ~+06.6 ~0.0 ~+0.7 <sup>m</sup> ~-0.6 <sup>s</sup>	watches reset
							June 13 +42.2 -02.9 <sup>s</sup> +6.2 <sup>s</sup> +0.8 <sup>m</sup> +0.1 <sup>s</sup>	
							June 15 +43.2 <sup>s</sup> +36.7 <sup>s</sup> +14.2 <sup>s</sup> +0.3 <sup>m</sup> -2.0 <sup>s</sup>	



Dome Temp. +65°F

Focus 12.937

Dome Temp. +62°

Transparency Conditions Hazy

280

30 visitors shown h

Ending Time R.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1 06 W	29 28	0	8.19	G5	$\frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2}$	AG 25 <sup>Exposure</sup> Pass focusing left border, refocus	good
		W 0 40	29 03	0	8.76	K2	1-1-1	" fwy	2 inch
		W 0 35	25 56	0	8.63	K0	1-1-1	"	good
		0 53 W	25 34	0	8.55	K0	1-1-1	"	good
		1 01 W	28 00	0	8.71	G5	1-1-1	" Thickening at end	good
Hazy closing in at 0210 2 PH + 8 in refrig.									
HC SC S W W S S W S W June 16 +42.8 -04.8 +17.8 +0.4 -3.2									



281

June

1950

Date Sat June 17/19 Observer Ra - 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	HD 143271	15 54.4	27 09	3723	10320	.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	AR 9364	18 51.3	26 52	"	"	"	13.0	02 38	03 10	3
17356	{ HD 188121	19 48.5	28 17	"	"	"	13.0	03 15	03 45	4
	{ FOCUS TEST				O. T. B.					

Dome Temp. 48

Focus 12.940

Dome Temp. 99.05

Transparency Conditions

Good

30 150 visitors showed up 5:00 - 7:40, had good view of M. 51 very fine, spirit arms clear, visible.

Ending Time  
L.S.T. P.H.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 48W	27 00	<0	8.93	K2	1-1-1	AG 25 following 15.0	good
0 47W	27 27	0	8.89	S	1-1-1	" "	fine
1 43W	25 32	0	9.4	G0	1-1-1	" "	fine
1 15W	26 33	>0	8.93	K0	1-1-1	" " R.A. clamp sticking!	fine
1 09W	25 17	0-1	8.98	G0	1-1-1	" "	very good
1 33W	25 57	0-1	8.95	M0	1-1-1	" "	weak
1 44W	26 56	0	8.98	K0	1-1-1	" "	fine
1 21W	28 29	0-1	8.82	G0	1-1-1	" " light cloud band around	

2 PH's loaded, new box needed.

	HC	SC	HTW	STW	SW
June 19	+45.4	-05.7	+12.4	0.0	-16.5
June 21	+46.2	-07.0	+22.2	+0.4	-17.0



Dome Temp. 63

Transparency Conditions Good

284

Focus 12.940

Dome Temp. 52°F

Haze at 01:30

you called

at 01:30

Ending Time  
187

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0119 W	26 04	0	8.92	K5	1-1-1	AL 25	
0016 W	26 40	0	8.96	K0	1-1-1	"	
0015 W	27 28	0	8.87	G5	1-1-1	"	
0017 W	27 12	0+	8.84	K2	1-1-1	"	
0042 W	27 37	1+	8.69	K0	1-1-1	"	No break so far!
0052 W	27 22	1	8.65	K0	1-1-1	"	
0117 W	25 17	0-2	8.56	G0	1-1-1	"	
0139 W	26 40	0	8.60	G0	1-1-1	"	
						2.94's label, in a box.	



Dome Temp. +58°F

Focus 12.940

Dome Temp. +57°

Transparency Conditions

Fair slight haze

286

Reading Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 17	0 23W	24 46	0-1	7.80	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG.25	fine
21 35	0 19W	26 16	0-1	7.72	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	l. str.
21 52	0 31W	28 43	0-1	7.73	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
22 06	0 22W	29 37	0-1	8.82	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	pr good
22 15	0 19W	25 35	1	8.84	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	l. str.
22 30	0 32W	27 40	1-2	8.74	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Light clouds toward end.	fine
22 40	0 35W	26 46	0-1	8.70	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
22 57	0 27W	29 48	1	8.40	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	fine
23 07	0 39N	27 13	1	8.62	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	poor sun dump
23 17	0 32W	25 15	0-1	8.54	G0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	weak
23 27	0 41W	29 33	0-1	8.75	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" "	l. str.
23 37	0 17W	27 58	0-1	8.47	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" " Sky getting bright.	fine
							2 PH Traded. 4 plates in a box.	
							NE SE NW SW SW	
							June 23 +46.2 +8.5 +33.2 +0.5 <sup>m</sup> -06.5	

287

1950

Date *Sun June Jul 25/26* Observer *R - Co* Julian Day *2,433,458*

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 <sup>h</sup> 18. <sup>m</sup> 6	+28° 21'	S-12L	E 10320	0.007	+26.6	21 <sup>h</sup> 56 <sup>m</sup>	22 <sup>h</sup> 20	1	
17378	" 147527	16 17.4	+29 13	"	"	"	+26.8	22 30	23 27	2	
17379	" 158332	17 23.6	+26 53	"	"	"	+26.7	23 36	00 06	3	
17380	" 163077	17 49.2	25 01	"	"	"	+26.3	00 10	00 30	4	
17381	" 165989	18 03.5	26 24	"	"	"	+26.3	00 37	00 50	2	
17382	" 166683	18 06.7	29 04	"	"	"	+26.3	00 54	01 12	3	
17383	" 170738	18 25.9	25 42	"	"	"	+26.1	01 16	01 34	4	
17384	" 173909	18 42.8	27 23	"	"	"	+26.1	01 36	01 52	1	
17385	AQ 9949	19 21.3	25 31	"	"	"	+26.1	01 56	02 16	2	
17386	" 9950	19 21.3	26 09	"	"	"	+26.1	02 18	02 24	3	
17387	HD 185241	19 33.1	27 58	"	"	"	+26.1	02 39	02 59	4	
17388	AQ 10315	19 39.0	27 44	"	"	"	+26.0	03 02	03 20	1	
17389	HD 189834	19 57.8	26 54	"	"	"	+26.0	03 22	03 32	2	
	FOCUS TEST		O. T.B.	v							

Dome Temp. 72

Focus 12.450

Dome Temp. +67°F

Transparency Conditions *Fair*

288

*Clouds coming in early.*

*Haze in West coming up at 01:30*

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 59	0 59 W	+29°15'	0	8.12	K <sub>0</sub>	1-1-1	AG 25	work
1 06	1 06	+29 06	0	8.92	G <sub>0</sub>	1-1-1	" "	much 5L work
0 38	0 38 W	+26 49	0	8.51	G <sub>5</sub>	1-1-1	" no found at 00:30	later
0 37	0 37 W	29 59	0-1	8.57	K <sub>0</sub>	1-1-1	" "	fine
0 43	0 43 W	26 24	0-1	7.73	K <sub>0</sub>	1-1-1	" "	work
1 02	1 02 W	29 03	1-2	8.57	G <sub>5</sub>	1-1-1	" "	fine
1 04	1 04 W	25 45	1-2 <sup>3</sup>	8.79	G <sub>5</sub>	1-1-1	" "	fine
1 05	1 05 W	27 27	2-3	8.63	K <sub>0</sub>	1-1-1	" "	fine
0 51	0 51 W	25 37	2-3	8.98	K <sub>0</sub>	1-1-1	" "	work
1 09	1 09 W	26 14	2-3	8.84	K <sub>0</sub>	1-1-1	" "	work
1 22	1 22 W	28 04	2-3	8.82	K <sub>0</sub>	1-1-1	" "	fine
1 38	1 38 W	29 50	? 0	8.99	G <sub>0</sub>	1-1-1	" " Haze <i>pin pointing</i>	work
1 32	1 32 W	27 03	2-3	8.23	K <sub>2</sub>	1-1-1	" " Plate upside down.	work
June 28		MC <sub>5</sub> +47.2	SC -13.8	MTW +11.2	STW -0.9	SW -78.5	4 PH's loaded, new line needed.	
June 26		MC +47.8	SC -21.5	MTW +63.8	STW 0.2	SW -58.8		
27						+08		watch reset (both found 1 <sup>st</sup> fast)



289

Date Thurs June 29-30/50 Observer Hd. Gz Julian Day 2462

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
17389	HD 141176	15 42.6	25 23	I-12	E103aD	008	+21.1	21 30	22 56	1	11 05
17390	" 189943	19 57.5	29 56	"	"	"	+20.0	01 48	02 16	2	0 29
17391	AG 11546	20 33.4	29 50	"	"	"	+20.0	05 26	03 12	3	0 50
17392	HD 205700	21 32.0	29 05	"	"	"	+19.7	03 20	03 44	4	0 24
	L Focus Test O.T.B.										

Dome Temp. +74 F

Focus K 940

Dome Temp. +56 F

Transparency Conditions

Clouds at first 290  
clearing in zenith but  
hazy underheads  
absent.

Hour Angle  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 W 1 25	25 14	0	8.34	G5	1-1-1	moonlight, haze, lightning, aurora, clouds.	
2 O 29 W	30 03	0	8.42	K0	1-1-1	Closed 23 25	
3 O 50 W	29 59	0	8.73	G0	1-1-1	Opened up 02 30 (daylight time) Full moon. cloud at end	
4 O 24 W	27 18	0	8.21	G0	1-1-1	3/4 P.H. loaded 2 in box.	
June 30 <sup>mc</sup> +46.4 <sup>sc</sup> +16.4 <sup>HTW</sup> +19.4 <sup>STW</sup> +6.1 <sup>SW</sup> -74.8							

↙ ✓ ?

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 <sup>h</sup> 45. <sup>m</sup> 1	+24° 56'	I-25	E102A0	01008	+18.3	00 <sup>h</sup> 44 <sup>m</sup>	00 <sup>h</sup> 58 <sup>m</sup>	
17394	" 178798	19 <sup>h</sup> 04. <sup>m</sup> 9	+30° 08'	"	"	"	+18.2	01 05	01 36	
17395	" 200391	20 58.1	+27 24	"	"	"	+18.2	01 45	02 35	
17396	" 206773	21 39.3	+57 17	"	"	"	+18.2	03 55	04 13	
	FOCUS TEST		0.78							
<p>Sat July 1 - 2/50 Ba Gu            Haze, about 50 visitors            Showed ♂ with 5" s 9/10 w/ 74"</p>										



293

Date *Sun July 2/3 50* Observer *L. Cz* Julian Day *243* *346.5*

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17377	177648	19 00.5	+23 11	I-25	E103a0	0.008	+18.3	00 50	01 08	2
17378	{ 183143	19 23.0	+18 11	"	"	"	+18.1	01 18	01 42	3
	{ Focus Test	O.T.B								4

Dome Temp. +  
 Focus 15 68  
 Dome Temp. +

Hour Angle  
 End

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
20	31 W	+23 75	0	6.9	B <sub>32</sub>	1-1-1	Be	r wh
30	43 W	+18 11	0	6.9	B <sub>32</sub>	1-1-1	" Heavy clouds cleared in it 01 45.	v wh
							1 PH loaded, 4 platinum box.	
							July 3 me <sup>s</sup> sc <sup>s</sup> HTW STW SW <sup>s</sup> +46.2 -18.7 +33.2 -0.3 -15.9	
							July 4 +47.4 +41.1 -25.6 -0.8 +7.5 <sup>s</sup>	

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	HD 174369	18 45.1	+24 56	I-25	103a-0	.008	21.8	22 24	23 57	4	103E+2
17400	154528	17 00.9	+77 48	"	"	"	20.8	23 20	23 50	1	103W-
17401	HD 200391	20 58.1	+27 24	"	"	"	21.8	00 01	01 05	2	103E.
17402	HD 183143	19 23.0	18 05	"	"	"	21.8	01 12	01 34	3	103E.
17403	HD 208835	21 53.9	+46 23	"	"	"	21.8	01 46	02 00	4	103E.19
17404	HD 200391	20 58.1	27 24	"	"	"	21.5	02 37	03 37	1	
	FOCUS TEST	O.T.B.									

Dome Temp. 64  
Focus 15.73  
Dome Temp.

Dome Temp. 64° F

Focus 15.739

Dome Temp. +57° F

Transparency Conditions

Cloudy - clearing 21:30 <sup>296</sup>

variable haze, very very fine

off center

around

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:03	03 E	+24 57	0	6.66	A <sub>2N</sub>	1-1-1	} doubled Occasional clouds, add 10 min exposures +0.2 mag for haze	
21:28	28 W	+77 42	0	6.62	A <sub>0</sub>	1-1-1		
21:52	1 20 E	27 35	0	8.12	G <sub>0</sub>	1-1-1	A <sub>0</sub> 25	
22:00	0 30 W	18 12	0-1	6.9	B <sub>90ed</sub>	1-1-1	Be program	
22:00	0 55 E	+46 37	<0	7.37	B <sub>B</sub>	1-1-1	3	
22:17	27 36	27 36	1	8.12	G <sub>0</sub>	1-1-1	A <sub>0</sub> 25	
							6/7	
							3 PH's loaded, 8 plates	
							July 6	
							HC <sup>5.6</sup> 146.4	
							SC <sup>5</sup> 146.4	
							MTW <sup>5</sup> -16.4	
							MSTW <sup>5</sup> -0.6	
							SW <sup>5</sup> +13.5	
							-22.0	





Dome Temp. 68  
 Focus 15.720  
 Dome Temp. 60

Transparency Conditions *continued cloud change* 298  
*Cloudy most of latter half.*

Ending Time R.A.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																				
25	01 35E	25 23	0	7.4 <sup>0</sup>	CO	1-1-1	- AB	fine																				
25	00 28E	77 42	0	6.6	AO	1-1-1	Special Prog <i>continued by 1st</i>																					
25	01 10E	4 22	0	4.3	B <sub>SN</sub>	1-1-1	Be Prog.	fine																				
25	00 24W	38 16	0+	7.56	KO	1-1-1	AB	good																				
25	00 07E	-10 19	0	8.1	B <sub>3e</sub>	1-1-1	Be Prog <i>continued near end</i>	weak																				
25 3	00 30W	+45 56	0	4.9	B <sub>2ee</sub> Be	1/2-1/2	<i>Two clouds of low mag. - B<sub>1</sub> Westerly blowing by 2-2 1/2</i>	good																				
25	0 10W	+57 28	0	7.0	B <sub>one</sub> Be	1-1-?	<i>Cloudy</i>	weak																				
25	0 17W	+65 04	0	5.8	B <sub>3ne</sub> Be	1-1-1	<i>fogged</i>	1-1-1																				
						10-7.																						
							<i>No stars exp.</i>																					
							<table border="0"> <tr> <td>MC</td> <td>SC</td> <td>NTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>July 7/50</td> <td>+46.8</td> <td>-21.9<sup>s</sup></td> <td>-11.2<sup>s</sup></td> <td>-0.5<sup>m</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>+12.5<sup>s</sup></td> </tr> </table>	MC	SC	NTW	STW	SW						July 7/50	+46.8	-21.9 <sup>s</sup>	-11.2 <sup>s</sup>	-0.5 <sup>m</sup>					+12.5 <sup>s</sup>	
MC	SC	NTW	STW	SW																								
July 7/50	+46.8	-21.9 <sup>s</sup>	-11.2 <sup>s</sup>	-0.5 <sup>m</sup>																								
				+12.5 <sup>s</sup>																								

299

Date Fri. Mar. 24, 50 Observer Pa - Gu Julian Day 3470

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17413	WV 126009	14 17.9	21 01	5.25	100210	0.50	25.5	20 43	21 38	3
17414	102598	14 21.4	26 43	"	"	"	25.8	21 41	23 00	2
17415	178794	19 04.9	30 08	"	"	"	25.8	23 11	23 51	4
17416	200391	20 58.1	27 24	"	"	"	25.8	23 59	01 15	1
17417	190228	19 58.9	28 02	"	"	"	25.5	01 19	01 45	2
17418	208835	21 53.9	+46 23	"	"	"	25.5	01 52	02 24	3
17419	{ 200391	20 58.1	27 24	"	"	"	25.5	02 28	03 42	4
	{ FOCUS TEST		O. T. B.							

Dome Temp. 74

Transparency Conditions

Good

300

Focus 15.795

Dome Temp. + 69°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0218	0201W	29 37	0	7.94	M3	1-1-1	AG	fine
0320	0320W	26 30	0	8.51	K5	1-1-1	"	l. med.
0330	1 38 W	30 12	0	7.77	K5	1-1-1	"	good
0405	1 07 E	27 36	0+	8.12	G0	1-1-1	" 25	fine
0415	0 38 W	28 09	0-1-2	7.72	G5	1-1-1	" 25	good
0420	0 50 E	46 37	1-2	7.37	B8	1-1-1	3	good
0440	1 27 W	27 36	1	8.12	G0	1-1-1	AG 25	fine
							1/4	
							OK	
							9 PM, 1/2 loaded, fine line.	

301

Date Sat. 1950 July 8-9 Observer (Gr) - R Julian Day 2433471

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17420	HD 174369	18 45.1	+24 56	I-25	E 10350	:008	+26.8	22 32	22 52	1
17421	" 159479	17 29.9	+26 46	"	"	"	+26.8	22 56	00 04	2
17422	" 168 957	18 17.3	+25 01	"	"	"	+26.8	00 10	00 39	3
17423	" 174 369	18 45.1	+24 56	"	"	"	+26.7	00 44	00 58	4
17424	" 174 <sup>5</sup> 863	18 52.3	+59 58 <sup>3</sup>	"	"	"	+26.9	01 10	<del>01</del> 30	1
17425	" 190 658	20 00.9	+15 13	"	"	"	+26.8	01 42	02 12	2
17426	" 193 407	20 26.0	+36 39	"	"	"	+26.7	02 19	03 15	3
17427	" 208 835	21 53.9	+46 23	"	"	"	+26.6	03 25	03 57	4
	FOCUS TEST O.T.C.									

Dome Temp. 7  
 Focus 15 E.  
 Dome Temp.

Hour Angle  
 End

Dome Temp. 72° F  
 Focus 15.815  
 Dome Temp.

Transparency Conditions *Clear*

302

*About 150 minutes; showed 4 Boos, M 13 with 24-inch Saturn and Uranus with 4-inch. Gr. N.*

Ending Time P.M.  
 2.37

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 07 E	+24 59	1-2	6.62	A <sub>2n</sub>	1-1-1	Proj. 16 Binary	
01 21 W	+26 42	1-3	8.96	K <sub>0</sub>	1-1-1	AG 25	
01 07 W	+25 03	1	6.9	B <sub>e</sub>	H-1	Be prog.	
00 59 W	+25 00	1	6.62	A <sub>2</sub>	1-1-1	<del>AG 25</del> Binary	
01 25 W	+59 57	1	6.9	B <sub>e</sub>	1-1-1	Be prog.	
00 58 W	+15 22	1	8.00	M <sub>1</sub>	1-1-1	<del>AG 25</del> Binary	
01 36 W	+46 50	0-1	7.7	B <sub>e</sub>	H-1	Be prog.	
00 44 W	+46 37	1	7.37	B <sub>e</sub>	1-1-1	<del>AG 25</del> Binary	
					10-7		

4 P.M. *Spotted, 8 in. Gap*  
 hc sc mtw stw sw  
 July 12 +46.6 -24.5 +19.6 0.00 +7.5

303

Date <sup>W.C.</sup> July 16-17, 1950 ..... Observer G. E. S. Julian Day .....

Plate No.	Object	R.A. 1900 <small>1950</small>	Declination 1900 <small>1950</small>	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17429	NGC 6212	16 44.6	-01 52	NEWT	F 2300	—	—	22 08 <sup>1</sup>	22 12	
17429	" 6234	16 54.5	-04 02	"	"			22 16 <sup>00</sup>	22 19	
17430	" 6366	17 25.1	-05 02	"	"			22 27 <sup>40</sup>	22 47	
17431	" 6838	19 51.3	+18 38	"	"			22 52 <sup>00</sup>	23 00	
17432	" 6779	19 14.6	+30 05	"	"			23 05 <sup>30</sup>	23 13	
17433	" 6838	19 51.3	+18 38	"	"			23 30 <sup>30</sup>	23 44	
17434	" 6934	20 31.7	+07 14	"	"			23 50 <sup>00</sup>	00 10	
17435	" 6838	19 51.3	+18 38	"	"			00 14 <sup>30</sup>	00 15 <sup>00</sup>	
17436	" 6838	19 51.3	+18 38	"	"			00 25 <sup>00</sup>	00 31	
17437	" 6712	18 30.3	-08 47	"	"			00 35 <sup>30</sup>	00 48 <sup>00</sup>	
17438	" 6934	20 31.7	+07 14	"	"			00 54 <sup>00</sup>	01 10	
17439	" 6838	19 51.3	+18 38	"	"			01 22 <sup>40</sup>	01 30	
17440	" 6934	20 31.7	+07 14	"	"			01 34 <sup>35</sup>	01 48	
17441	" 7689	21 30.9	-01 03	"	"			01 52 <sup>55</sup>	01 55	
17442	" 6838	19 51.3	+18 38	"	"			02 00 <sup>35</sup>	02 06	
17443	" 6934	20 31.7	+07 14	"	"			02 17 <sup>30</sup>	02 29	

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

Hour Angle  
End

Dome Temp. +74°F

Transparency Conditions .....

304

Focus.....

Dome Temp.....

Ending Time EST.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:00		0 33 W						Found on S of object	
1:02		0 28 W							
1:04		0 26 W						Found on object	
1:06		1 47 E							
1:08		0 56 E						Looking at - 2nd object on S of the found on object	
1:10		1 03 E							
1:12		1 15 E							
1:14		0 28 E						Found on object - following path of object	
1:16		0 15 E							
1:18		1 21 W							
1:20		1 17 E						← Found on object	
1:22		0 44 W							
1:24		0 22 W							
1:26		0 0 E							
1:28		1 20 W						Found on object	
1:30		1 04 W						← Found on object	



305

Cont'dDate July 22nd 1950 Observer Er - Gu, Julian Day \_\_\_\_\_

Plate No.	Object	R.A. 1900 <small>(1950)</small>	Declination 1900 <small>(1950)</small>	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17444	NGC 6838	19 56.3	+13 38	WPT	EXR	-	-	02 33 <sup>00</sup>	02 39	
17445	" 6838	20 51.7	+07 19	"	"			02 44 <sup>00</sup>	02 58	
17446	" 6838	19 56.3	+13 38	"	"			03 02 <sup>00</sup>	03 09	
17447	" 7078	21 27.6	+11 57	"	"			03 13 <sup>00</sup>	03 17	

Dome Temp.

Focus

Dome Temp.

Hour Angle  
End



307

Date *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.
17448	NGC 8904	15 16.0	+02 16	Newt	L-1030-0	-	-	21 23	21 35	1
17449	5897	15 14.6	-20 44	"	"	-	-	21 30	21 38	2
17450	6366	17 25.1	-05 02	"	"	-	-	21 41	21 49	1
17451	5897	15 14.6	-20 49	"	"	-	-	21 53	22 01	2
17452	6093	16 14.1	-22 52	"	"	-	-	22 05	22 09	1
17453	6838	19 51.3	+18 38	"	"	-	-	22 15	22 19	2
17454	6366	17 25.1	-05 02	"	"	-	-	22 23	22 31	1
17455	6356	17 20.7	-17 46	"	"	-	-	22 36	22 44	2
17456	6235	16 50.4	-22 06	"	"	-	-	22 47	23 11	1
17457	6858	19 51.3	+18 37	"	"	-	-	23 19	23 23	2
17458	6934	20 31.7	+07 14	"	"	-	-	23 28	23 35	1
17459	6712	18 50.3	-08 47	"	"	-	-	23 44 <sup>45</sup>	23 54 <sup>45</sup>	2
	KA. 110	18 39.5	+00 03	"	"	-	-	23 57 <sup>05</sup>	00 07 <sup>05</sup>	2
17460	KA. 110	18 39.5	+00 03	"	"	-	-	00 08 <sup>51</sup>	00 22 <sup>37</sup>	1
	J.C. 1276	18 07.5	-07 15	"	"	-	-	00 28 <sup>28</sup>	00 42 <sup>28</sup>	1
17461	NGC 6434	20 31.7	+07 14	"	"	-	-	00 46	00 54	2

Dome Temp. 16.5°F

Transparency Conditions Good

308

Focus.....

Dome Temp.....

Ending Time L.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21		47		Poor				Focus on Optic	
22		32 W							
24		0 58 E							
25		1 55 W						< Refocused on nearby stars.	
27		1 03 W						number of the moving from pedestal.	
28		2 24 E							
29		0 15 W		V. Poor					
30		0 30 W							
31		1 29 W							
32		1 20 E							
33		1 47 E						< Focus on Altair	
34		0 13 W							
35		0 36 W							
36		0 51 W							
37		1 44 W							
54		0 29 E							



Dome Temp.....

Transparency Conditions.....

310

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	19 W							
	24 W							
	16 W							
	11 W							
	8 W						20 sec. Dec trail.	
	58 W						Closed shutter - at end of exp. noted shutter delay	
	31 W		Out				Check and timing all at 1000	
	17 W						HC SC MTW STW SW July 14/50 +46.8 -33.6 +28.8 +0.1 +1.5	
	48 W							
	51 W							
							Very cold the last half of night.	
							Outside temp +5°.	
							Focused several more times than	
							has been used in records. Seeing very	
							poor & focused back 1057.	

Date Fri Jul 14-15, 1960 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.
17472	NGC 5904	15 16.0	+2 10	NEWT	E10320	—	—	21 <sup>h</sup> 22 <sup>m</sup> <sup>15</sup>	21 24 <sup>m</sup> <sup>10</sup>	150 W
17473	" 5897	15 14.6	-20 49					21 <sup>h</sup> 28 <sup>m</sup> <sup>8</sup>	21 36	130 W
17474	5634	14 27.0	-5 45					21 40 <sup>m</sup> <sup>3</sup>	21 54	140 W
17475	5897	15 14.6	-20 49					21 56 <sup>m</sup> <sup>57</sup>	22 04	162 W
17476	6566	17 25.1	-5 02					22 10 <sup>m</sup> <sup>00</sup>	22 18	101 W
17477	{ 6426	17 42.4	+3 12					22 26 <sup>m</sup> <sup>12</sup>	22 42	130 W
	{ K.A. 109	17 42.5	-0 11					<del>22 57<sup>m</sup><sup>58</sup></del>	<del>22 55</del>	<del>130 W</del>
17478	6099	16 14.1	-22 52					22 57 <sup>m</sup> <sup>57</sup>	22 57	153 W
17479	6356	17 20.7	-17 46					22 58 <sup>m</sup> <sup>34</sup>	23 06 <sup>m</sup> <sup>08</sup>	163 W
17480	6838	14 51.3	+18 38					23 19 <sup>m</sup> <sup>21</sup>	23 22 <sup>m</sup> <sup>28</sup>	162 W
17481	6934	20 31.7	+7 14					23 37 <sup>m</sup> <sup>28</sup>	23 45	241 W
17482	6712	18 50.3	-05 47					23 49 <sup>m</sup> <sup>14</sup>	23 59 <sup>m</sup> <sup>4</sup>	122 W
17483	IC 1276	18 07.5	-07 15					00 08 <sup>m</sup> <sup>41</sup>	00 28 <sup>m</sup> <sup>45</sup>	134 W
17484	{ 6544	18 04.3	-25 01					00 41 <sup>m</sup> <sup>25</sup>	00 53 <sup>m</sup> <sup>45</sup>	102 W
	{ K.A. 134	18 12.8	-14 59.5					00 56 <sup>m</sup> <sup>25</sup>	01 08 <sup>m</sup> <sup>25</sup>	101 W
17485	6626	18 21.5	-24 54					01 12 <sup>m</sup> <sup>33</sup>	01 16 <sup>m</sup> <sup>3</sup>	102 W

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
							<i>Focused on 5 Oph</i>	
<i>21 50</i>	<i>1 20 W.</i>						<i>Seeing improved over last night.</i>	
<i>21 56</i>	<i>1 33 W.</i>							
<i>21 54</i>	<i>2 40 W</i>						<i>Seeing very good</i>	
<i>21 54</i>	<i>2 02 W</i>							
<i>21 18</i>	<i>0 05 W</i>						<i>Focused afterwards on star in the field</i>	
<i>21 56</i>	<i>0 13 W</i>						<i>← {Aquara plot 4-11-104 Possible that the dome cut off part of the telescope's field</i>	
<del><i>21 56</i></del>	<del><i>1 53 W</i></del>							
<i>21 56</i>	<i>1 53 W</i>							
<i>21 56</i>	<i>0 58 W</i>						<i>← {0° interruption} due to running to end of motor &amp; red gear from the slow motion gears.</i>	
<i>23 28</i>	<i>1 06 E</i>						<i>← {Gear 2nd from left was sticking. The spring was tightened &amp; a screw would be kept</i>	
<i>21 07</i>	<i>1 34 E</i>		<i>Seeing not so good</i>				<i>← {90° det. trail at end - Seeing not so good. focused after on {Aqua: 19 32 + 13 46</i>	
<i>21 07</i>	<i>1 34 W</i>		<i>poorer seeing</i>					
<i>01 03</i>	<i>2 02 W</i>							
<i>01 03</i>	<i>2 09 W</i>							
<i>01 10</i>	<i>2 08 W</i>							



Date Fri July 10 1903 Observer S. G. S. G. S. Julian Day 190300

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
17486	NGC 6656	18 32.3	-22 58	Newton	102a0			01 19 <sup>53</sup>	01 22 <sup>53</sup>		23W
17487	6898	19 51.3	+18 38					01 28 <sup>18</sup>	01 32 <sup>18</sup>		24W
17488	6994	20 31.7	+07 14					01 39 <sup>20</sup>	01 47		23W
17489	6717	18 52.1	-22 47					01 52 <sup>18</sup>	02 12		23W
17490	6981	20 50.7	-12 44					02 15 <sup>20</sup>	02 33		24W
17491	6981	20 50.7	-12 44					02 35 <sup>21</sup>	02 51		25W
17492	7089	21 30.9	-01 03					02 54 <sup>21</sup>	02 55		27W
17493	6934	20 31.7	+07 14					02 59 <sup>21</sup>	03 07		28W
17494	6898	19 51.3	+18 38					03 11 <sup>14</sup>	03 15		27W
17495	7078	21 27.6	+11 57					03 20 <sup>05</sup>	03 20 <sup>05</sup>		27W

Dome Temp.....

Transparency Conditions .....

314

Focus.....

Dome Temp.....

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 22 <sup>33</sup>	2 03 W							
01 24 <sup>00</sup>	0 54 W						Focussed on Altair 19 <sup>h</sup> 48 <sup>m</sup> 37 <sup>s</sup> + 8° 44'	
01 47	0 28 W							
02 12	2 33 W							
02 33	0 53 W						10 <sup>s</sup> 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 25	0 07 W							

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

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Shit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17496	<sup>HP</sup> 154510	17 00.8	28 14	f-25	E103	COB	22.5	22 39	23 20	1
17497	174369	18 45.1	21 56	"	"	"	22.5	23 34	01 49	2
17498	154675	18 46.7	28 25	"	"	"	22.5	23 50	00 26	3
17499	200-241	20 32.1	42 34	"	"	"	22.2	00 34	01 13	4
17500	2074745	21 52.1	54 13	"	"	"	22.2	01 47	02 25	1
17501	208 680	21 <sup>52.9</sup> <del>52.1</del>	44 52	"	"	"	22.2	02 34	02 46	2
17502	2124000	20 52.0	18 19	"	"	"	22.2	02 54	03 42	3
17503	200-241	20 30	42 34	"	"	"	22.2	03 35	04 15	4
	HP 154510		28 14							
Monday July 17-18 1950 N.L.										
Should start at Arctic Club group office, although possibly arrive.										

~ 13<sup>m</sup> beyond dawn limit.

Dome Temp  
 Focus 5.74  
 Dome Temp  
 Hour Angle End

Dome Temp. 62  
 Focus 15.745  
 Dome Temp. ....

Transparency Conditions *Good*  
 About 175 visitors were shown with 74' when  
 00 51, wind 6"  $\nearrow$

3/6

Reading Time  
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 34 W	12 10	0	7.5	AG	1-1-1	AG 5.5 7.5	weak
00 14 W	25 00	1	6.8	Azn	1-1-1	Transparency good	—
00 52 W	23 20	1	7.95	RO	1-1-1	AG Vayinguzov	1 weak
00 55 E	27 38	0-1	7.12	GO	1-1-1	AG 25- fagged	weak
00 41 W	19 57	0-1	7.37	B2	1-1-1	part of ... fogging	fine
00 04 W	+45 24	0-1	5.8	B3 <sub>ne</sub>	1-1-1	Poor GUIDING	weak
00 43 E	+48 28	0-1	5.2	B3 <sub>ne</sub>	1-1-1	Poor GUIDING	—
03 18 W	+27 37	0	8.12	GO	1-1-1 10-7	AG 25- fogging	to weak

July 17  
 MC 46.8<sup>s</sup>    SA 4.8<sup>s</sup>    HTW 16.2<sup>s</sup>    JW 0.0<sup>m</sup>    SW 18.0<sup>s</sup>

317

Date July 15, 1950 Observer S. L. G. Z. G. Julian Day 184

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17504	M.G.C. 5904	15 16.0	+2 16	Howe	EB20	-	-	21 16	21 18	1
17505	" 6219	16 44.6	-1 52	"	"	-	-	21 22	21 26	2
17506	" 6254	16 54.5	-4 02	"	"	-	-	21 29	21 32	1
17507	" 5597	15 14.6	-20 49	"	"	-	-	21 36	21 40	2
17508	" 6366	17 25.1	-65 02	"	"	-	-	21 53	22 05	1
17509	" 6356	17 20.7	-7 46	"	"	-	-	22 10	22 22	2
17510	" 6093	16 14.1	-22 32	"	"	-	-	22 25	22 27	1
17511	" 6838	17 51.3	+18 38	"	"	-	-	22 34	22 38	2
17512	" 6426	17 42.4	+03 12	"	"	-	-	22 53	23 17	1
17513	" 6838	17 51.3	+18 38	"	"	-	-	23 20	23 26	2
17514	" 6954	20 31.7	+7 14	"	"	-	-	23 34	23 39	1
17515	" 6779	19 14.6	+30 05	"	"	-	-	23 52	23 56	1
17516	" 6535	18 01.5	-60 18	"	"	-	-	00 01	00 13	2
17517	" 6838	17 51.3	+18 38	"	"	-	-	00 21	00 27	1
17518	" 6026	17 17.5	-79 34	"	"	-	-	00 35	00 41	2
17519	" 6656	18 39.3	-14 38	"	"	-	-	00 41	00 47	1

Dome Temp: 68°F

Transparency Conditions

318

Focus

Dome Temp

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
129W		fair				Focused on $\alpha$ Serpens	
008W							
005W							
011W						Haze image guide star gone	
007W						← Refocused on star in field	
029W							
143W		poor				Haze thickening	
146E						Haze	
102W						Closes. 20 s DEC TRAIL	
058E						← Refocused on $\alpha$ Altar	
120E		poor					
010W							
144W		poor				transparency deteriorating { 20 sec trail	
004W						haze	
142W							
143W							

319.

Cont'd

Date July 14-18 1950 Observer B. L. G. G. 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.E.
17520	NGC 6712	18 30.3	-03 47	NGC	EMAP	—	—	00 52	01 02	1
17521	" 6832	20 31.7	+07 09	"	"			01 14	01 24	1
17522	" 6833	19 51.5	+15 32	"	"			01 28 <sup>10</sup>	01 32	1
17523	" 7075	21 27.6	+11 37	"	"			01 36 <sup>30</sup>	01 36 <sup>35</sup>	1
17524	" 7088	21 30.9	-01 03	"	"			01 41 <sup>00</sup>	01 42 <sup>00</sup>	1
17525	" 6934	20 31.7	+07 14	"	"			01 47 <sup>30</sup>	01 55	1
17526	" 6832	19 51.3	+15 38	"	"			01 59 <sup>30</sup>	02 03	2
17527	" 7026	20 28.1	+15 00	"	12			02 10	02 33	1

Dome Temp  
Focus  
Dome Temp  
Hour Angle  
End

Dome Temp. ....

Transparency Conditions .....

320

Focus .....

Dome Temp. 53°F

Ending Time E.S.T.	Hour End	Angle	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
								transparency improved gradually ← moved in Altair											
	0	20W																	
	1	09W																	
	0	23E																	
	0	26E																	
	0	52W						light cloud passing											
	1	40W						"											
	1	05W						"											
								1 P.M. build. 2 plots in box											
								July 19 <table style="display: inline-table; vertical-align: middle;"> <tr> <td>nc</td> <td>so</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>+43.6<sup>s</sup></td> <td>-28.6<sup>s</sup></td> <td>-06.4<sup>s</sup></td> <td>-0.3<sup>m</sup></td> <td>-47<sup>s</sup></td> </tr> </table>	nc	so	MTW	STW	SW	+43.6 <sup>s</sup>	-28.6 <sup>s</sup>	-06.4 <sup>s</sup>	-0.3 <sup>m</sup>	-47 <sup>s</sup>	
nc	so	MTW	STW	SW															
+43.6 <sup>s</sup>	-28.6 <sup>s</sup>	-06.4 <sup>s</sup>	-0.3 <sup>m</sup>	-47 <sup>s</sup>															



Kew

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 <sup>30</sup>	21 23	1
17529	" 6366	17 25.1	-05 02	"	"	-	-	21 28	21 44	1
17530	" 6538	19 51.3	+18 38	"	"	-	-	21 54 <sup>25</sup>	21 58	2
17531	" 6474	17 02.4	+03 12	"	"	-	-	22 13 <sup>5</sup>	22 31	1
17532	" 6593	16 14.1	-22 52	"	"	-	-	22 35 <sup>30</sup>	22 39	2
17533	" 6235	16 30.4	-22 06	"	"	-	-	22 42 <sup>10</sup>	23 06	1
17534	" 6538	19 51.3	+18 38	"	"	-	-	23 10 <sup>25</sup>	23 14	2
17535	" 6934	20 31.7	+07 14	"	"	-	-	23 20 <sup>10</sup>	23 28	1
17536	{ " 6335	18 01.3	-00 18	"	"	-	-	23 34 <sup>30</sup>	23 44	2
	{ KA. 110	18 34.5	+00 03	"	"	-	-	23 48 <sup>40</sup>	00 00	2
17537	NGC 6544	18 04.3	-25 01	"	"	-	-	00 04 <sup>20</sup>	00 18	1
17538	" 6626	18 21.5	-24 54	"	"	-	-	00 20 <sup>25</sup>	00 24	2
17539	" 6636	18 33.3	-23 58	"	"	-	-	00 27 <sup>25</sup>	00 30	1
17540	IC 1276	18 07.5	-07 15	"	"	-	-	00 41	01 01	2
17541	6712	18 50.3	-02 47	"	"	-	-	01 02 <sup>35</sup>	01 10	1
17542	6238	19 51.3	+18 38	"	"	-	-	01 14 <sup>20</sup>	01 18	1

Dome Temp. 65°F

Transparency Conditions Cloudy in SW 323

Focus                     

Dome Temp.                     

N. Gr. Ma. demerol and telone for 145 Normal  
School teachers. C shown with 4-inch on lower. All away in                     

Ending Time M.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 23							Focused on $\alpha$ Serp.	
21 24	0 05 E						cloudy in SW 323	
21 25	0 18 E						← Focused on Altair	
21 26	0 24 W							
21 27	0 01 W							
21 28	51 W							
21 29	0 01 E							
21 30	0 28 E						← Focused on Altair	
21 31	0 21 W							
21 32	0 57 W							
21 33	50 W							
21 34	1 38 W							
21 35	33 W						← Focused on $\alpha$ Serpentine	
21 36	0 24 W							
21 37	56 W							
21 38	1 03 W							

323

Cont'd

Date

APR 20-21 / 1950

Observer

S - Ma - Gy 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.
17543	NRL 6934	20 31.7	+07 14	NEWT	E 103a0	—	—	01 23 <sup>20</sup>	01 29	1
17544	" 6717	17 52.1	-22 47	"	"			01 33	01 53	2
17545	" 6981	20 50.7	-12 44	"	"			01 59 <sup>35</sup>	02 15	1
17546	" 7089	21 30.9	-01 03	"	"			02 18 <sup>14</sup>	02 19 <sup>14</sup>	2
17547	" 6934	20 31.7	+07 14	"	"			02 22 <sup>45</sup>	02 30	1
17548	" 7078	21 27.6	+11 57	"	"			02 32 <sup>11</sup>	02 33 <sup>11</sup>	1
17549	" 7078	21 27.6	+11 57	"	"			02 35 <sup>40</sup>	02 35 <sup>45</sup>	1
17550	" 7006	20 59.1	+16 00	"	"			02 40 <sup>00</sup>	03 08	2
17551	" 6838	19 51.3	+18 38	"	"			03 13 <sup>00</sup>	03 17	1

Dome Temp.

Focus

Dome Temp.

Hour Angle  
End

Dome Temp. ....

Transparency Conditions .....

324

Focus .....

Dome Temp. 59.0 F

Ending Time P.M.  
P.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 34 W							
2 37 W						20 sec. exp. trail. Focused on star in field	
2 01 W							
2 25 W							
1 35 W							
0 43 W							
0 45 W							
1 46 W							
3 02 W							
3 plates left in box.							
July 21. $\mu$ $\sigma$ $\mu$ $\sigma$ +44.8    -29.3    -06.2    -0.7    -0.6 <sup>s</sup>							

355

Date Friday - Sat July 21/22 <sup>1950</sup> Observer Gu - 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.E.
17552	RS Vulp	19 <sup>13.4</sup> 16	+22 <sup>16</sup> 22	I-25"	103a-0	<sup>Sat</sup> 008	+24.0	20 50	21 20	1
17553	HD 149142	16 27.8	<del>29</del> <sup>26</sup> <del>8</del> <sup>15</sup>	"	"	"	+23.5	21 27	22 07	2
17554	" 150205	16 34.4	29 52	"	"	"	+23.2	22 11	22 47	3
17555	" 151349	16 41.9	26 13	"	"	"	+23.0	22 51	23 55	4
17556	" 152248	17 32.3	25 41	"	"	"	+22.0	23 58	00 36	1
17557	RS Vulp	19 <sup>13.4</sup> 16	+22 <sup>16</sup> 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 55	"	"	"	+20.6	02 30	02 50	4
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 15.79B  
 Dome Temp. +63°F

Transparency Conditions Good

326

light cloud 20:30

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	16E	+22 22	1	7.6	-	1-1-1	Eclipsing variable	wk
1	16W	26 10	1-2	8.27	G5	1-1-1	AQ 25	too wk
1	50W	29 45	1-2	8.07	G5	1-1-1	" "	wk
2	50W	26 07	2-1	8.84	G5	1-1-1	" "	too wk
2	42W	25 39	1-2	8.18	K0	1-1-1	" "	wk
1	35W	+22 22	1	7.2	-	1-1-1	Eclipsing variable. <sup>+</sup> Finder vacuum out of focus.	good
03	00W	+29 15	1	8.70	K0	1-1-1	AQ 25	good
03	43W	+24 59	0-1	6.62	A2m	1-1-1	16	good
01	25W	+46 36	0	7.37	B8	1-1-1	3	good
							10, 7. 3 P.H. used, 4 in def.	
<p>Sat. Jul. 22-23. Mostly cloudy. Demonstrated telescope, showed slides &amp; finally showed C. &amp; A. with 4-inch for about 50 visitors. N, G, Cu.</p>								

327

Date Sat-Sun, July 22/23, 1950 Observer Gu Julian Day 2,433,406

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17561	HD 208835	21 53.9	+46 23	I-25"	103a-0	Set 0.008	+29.2	01 45	02 29	1
17562	" 206773	21 39.3	+57 17	"	"	"	+29.1	02 35	02 55	2
17563	" 207790	21 46.1	+28 18	"	"	"	+24.1	03 01	03 45	3
	FOCUS TEST		O.T.B.							

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 few haze*

328

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 19	10 17W	+46 36	0-1	7.37	B8	1-1-1	3	
00 55	20 58W	+57 29	0-1	7.0	B <sub>0</sub> ne	1-1-1	Be prog.	2.5
01 55	31 40W	+28 31	0	8.20	G5	1-1-1	AE 25 very dry part time Resistant in lead plate 4 PH's loaded. new box needed.	2.5





Dome Temp... +71 °F  
 Focus... 15.794  
 Dome Temp.....

Transparency Conditions... Poor. Haze, some cloud. 330  
 Sky appeared clear enough at  
 19:30 E.S.T.

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 28W	+29 33	0	8.82	K6		AG 25 <u>Heavy</u> clouds cut off star 4 minutes after start. No comparison put on; didn't start again.	

July 24

	NE	SE	NW	SW	EW
	<sup>44.5</sup> <del>42.6</del>	-29.9	+12.6	0.00	-49.5

1950 Jul. 25.  
 About 80 Teachers' Course II of T. students.  
 Demonstrated telescope, and showed 3 lenses with  
 74-inch, C with 4 inch. N, Ma.

Date Mon-Tues July 24-25 1950 Observer Ma-R Julian Day 243.3487

Plate No.	Object	R.A. 1900 19 13.4 (900)	Declination 1900 +22 16 (900)	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
17564	RS Vulps	19 16 (1950)	+22 22 (1950)	T-25	E103u-0	0008	+22.0	21 22	22 02	
17565	H.O. 154528	17 00.9	+77 48	"	"	"	+21.8	22 11	22 31	
17566	174369	18 45.1	+24 56	"	"	"	+22.0	22 37	23 09	
17567	182617	19 20.4	+28 22	"	"	"	+21.8	23 12	23 48	
17568	208835	21 53.9	+46 23	"	"	"	+21.9	23 56	00 28	
17569	194403	20 20.3	+25 36	"	"	"	+21.6	00 33	01 37	
17570	" 208682	21 52.9	+64 52	"	"	"	+21.8	01 50	02 00	
17571	" 217543	22 56.3	+38 10	"	"	"	+21.8	02 11	03 25	
17572	" 218113	23 00.3	+27 40	"	"	"	+21.8	02 36	03 18	
<del>17573</del>	" 200391	20 58.1	+27 24	"	"	"	+21.7	03 23	04 06	
	FOCUS TEST		0.1 B							

Dome Temp. 67°F

Focus 15.738

Dome Temp.

Transparency Conditions. Cirrus to south, otherwise clear 332

Ending Time EST	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 28.	
22 31	1 27 W	+77 43	1	6.66	A0	1-1-1	{ Prog 13 occasional cirrus clouds passing over <sup>Pr. finding</sup>	very good
23 09	0 18 W	+24 59	1-2	6.62	A2n	1-1-1	More clouds (+0.4 mag) Prog 16	fine
23 43	0 22 W	+28 28	1-2	8.22	K0	1-1-1	A & 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	A & 25 Quite cloudy.	1 inch
23 40	00 03 W	+65 03	1	5.8	B3nc	1-1	B0 Prog.	2000
23 41	01 23 W	+38 26	1	6.4	B3nc	H-1	Bc Prog. Hypocenters - guiding	(line)
23 40	00 07 W	+27 55	1	8.44	K2	H-1	A & 24 3 Getting cloudy	weak
23 43	02 W	+27 36	1	8.12	G0	H-1	A & Prog. Cloudy. Too cloudy for a good plate. 10.7. 2PH loaded, 4 hrs exp	
							July 26 HC <sub>s</sub> +44.6 SC -29.2 HTW +28.6 STW +0.22 SW -52.0	



Dome Temp. 72° F

Focus 15770

Dome Temp. ....

Transparency Conditions Hazy at horizon 334

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 <sub>RN</sub>	1-1-1	16	slight
22 11	1 12 W	+77 42	0	6.66	A <sub>0</sub>	1-1-1	13	slight
22 56	0 29 E	+18 13	1	6.9	B <sub>9</sub> sed	1-1-1	MWC 317 Be PROG.	good
23 03	0 11 E	+15 22	1	8.00	M <sub>1</sub>	1-1-1	16	good
00 31	0 02 W	+44 08	1	7.2	B <sub>1</sub> oc	1-1-1	Be prog. MWC 347 few clouds.	good
01 22	0 54 W	+24 41	1-2	8.19	G <sub>5</sub>	1-1-1	AG 25	dark
02 2	0 25 W	+46 36	1-2	7.37	A <sub>0</sub>	1-1-1	3 bank of clouds to zenith with west + few in n.	testing
03 05	0 33 W	+26 20	2	8.07	K <sub>2</sub>	1-1-1	AG 25 { RA. guiding fast motion do not always work - delay closes out motor doesn't go - either button.	good
						6-4	set 10	
							clouding in fast @ 13 15 looks solid closing up.	
							2 ph. loaded - 3 plates in box.	

335

Date June 27, 1951 Observer Ma-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	472 126593	14 21.4	26 43	25"	E103aD	008	25	20 35	21 20	3
17582	136901	15 18.1	25 59	"	"	"	25	21 23	21 50	4
17583	144247	15 09.0	25 30	"	"	"	25	21 54	22 10	1
17584	179369	14 45.1	24 56	"	"	"	25	22 16	22 32	7
17585	19068	20 <sup>00.9</sup> <del>03.2</del>	15 13	"	"	"	25	23 41	23 12	7
17586	208835	21 53.9	46 23	"	"	"	25	23 24	24 00	1
+17587 17586F	FOCUS TEST		OT. 5.1							

↑  
read to match

Dome Temp 75  
Focus 15.73  
Dome Temp 68

Hour Angle  
and

12W

132W

132W

132W

132W

132W

Dome Temp. 7.5  
 Focus 15.785  
 Dome Temp. 68

Transparency Conditions Good

336

At start cloudy before 10h EST + increased  
 cloudy with sun

Ending Time  
 EST.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality										
20	0300 W	26 36	2	8.51	K5	1-1-1	AL	v. poorly guided wk										
19	232 W	25 48	3	8.22	K0	1-1-1	"	1.5										
10	212 W	25 30	3	7.93	G0	1-1-1	" Some haze	good										
11	0012 E	24 59	3-2	6.62	A2n	1-1-1	Bin. Some cloud during exp	too strong										
12	0047 E	15 19	2	8.00	M1	1-1-1	" Some stars plugging in the off-axis	1.5										
13	0157 E	46 38	2-1	7.37	B8	1-1-1	" Report black cloud just in front. Considerable cloud toward end of exp.	good										
							10, 8. Too cloudy + continuous heavy cloud terminated exp 3 P.H. loaded.											
							<table style="margin-left: auto; margin-right: auto;"> <tr> <td>NE</td> <td>SE</td> <td>NTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>July 28 +43.4<sup>S</sup></td> <td>-29.8<sup>S</sup></td> <td>-27.6<sup>S</sup></td> <td>-0.9<sup>N</sup></td> <td>-61<sup>S</sup></td> </tr> </table>	NE	SE	NTW	STW	SW	July 28 +43.4 <sup>S</sup>	-29.8 <sup>S</sup>	-27.6 <sup>S</sup>	-0.9 <sup>N</sup>	-61 <sup>S</sup>	
NE	SE	NTW	STW	SW														
July 28 +43.4 <sup>S</sup>	-29.8 <sup>S</sup>	-27.6 <sup>S</sup>	-0.9 <sup>N</sup>	-61 <sup>S</sup>														





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

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
08 <sup>00</sup> W	+26° 02'	0	8.84	KO	1-1	<i>Red light not working</i> <sup>plate spoiled</sup> AG-25.	<i>weak</i>
10 W	+24 58	0	6.62	A	1-1	Prog 6. RA guide only photo working.	<i>good</i>
12 00 E	+46 38	0	7.37	B8	1-1	Prog 3. Not functioning. at change-over	<i>good</i>
1 37 E	+46 09	0±	6.5	Bene	1-1	Be Prog. caused delay. The relay	<i>fine</i>
1 41 W	+46 37	1-2	7.37	B8	1-1	<sup>Prog 3</sup> contacts of the RA. <sup>fast motion</sup> might need cleaning!!! Ba, R, Gu present and finally in obs again. <i>spots spoiled</i>	<i>not</i>
<p><i>All plates have <u>comparison to waste</u> go on unless punched by downtown switch. These little mechanical gremlins arrived at the same time.</i></p> <p><i>SHORT SLIT USED.</i></p> <p><i>4 PH<sub>2</sub> loaded; Gu an E box</i></p>						<p><i>RA gone again 02:00</i></p> <p><i>club doing well - thank God for small mercies</i></p>	
<p><i>July 31</i></p>						<p><i>me<sub>s</sub> 5c MFW 5FW SW<sub>s</sub></i></p> <p><i>+40.5 -30.0 -11.5 -0.5 -51<sup>s</sup></i></p>	



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

Mount 40 inches  
 from Trip Top Side  
 Cloudy. Discontinued the Telescope

Transparency Conditions

Clouds in early evening 3:40  
 clearing by 2200. High

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
	2521	0-1	8.84	G0	1-1-1	AG Exp. interrupted by cloud <i>comp. too heavy</i>	<i>too weak</i>												
0 04 E	+46 37	0-1	7.37	B8	1-1-1	3. Heavy ground fog <i>comp. heavy</i>	<i>not good</i>												
1 10 W	30 48	0-1	8.07	K2	1-1-1	AG 25 declination setting.	<i>too weak</i>												
4 31 W	27 56	1-2	8.44	K2	1-1-1	AG Exposure interrupted at 02:55 for about 15 minutes. Exp. at 03:55, but off mount & remaining exposed.													
						3 P.H. loaded, 3 plates in tray.													
						<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>NE</td> <td>SE</td> <td>NTU</td> <td>SW</td> <td>SW</td> </tr> <tr> <td>Height</td> <td>+16.5</td> <td>-28.5</td> <td>+16.5</td> <td>-0.7</td> <td>-11.45</td> </tr> </table>		NE	SE	NTU	SW	SW	Height	+16.5	-28.5	+16.5	-0.7	-11.45	
	NE	SE	NTU	SW	SW														
Height	+16.5	-28.5	+16.5	-0.7	-11.45														

34

Date Sat Aug. 5-6, 1950 Observer Hd - Gr Julian Day 2433499

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17595	M3 208235	21 53.9	+46 23	T925	E10300	2 508	22.2	22 32	23 14	1
17596	174339	19 45.1	+74 56	"	"	"	22.0	23 21	23 43	2
17597	—	19 41.3	+05 44	"	"	17	22.0	23 49	01 19	3
17598	" 206374	21 35.4	+26 18	"	"	21	22.0	01 24	02 12	4
17599	" 210925	22 08.6	+25 26	"	"	"	22.0	02 15	02 45	1
17600	{ " 208235	21 53.9	+46 23	"	"	"	22.0	02 50	03 36	2
	{ Focus Dist		O.T.B.							

Dome Temp... 65° F  
 Focus... 13:742  
 Dome Temp... 64° F

Should 80 meters Transparency Conditions... Clear  
 M 13 and 74  
 and Jupiter with 40

Ending Time  
 L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 03 E	+46 38	0-1	7.7	B <sub>8</sub>	1-1-1	Aug 3	
1 35 N	+24 57	0	6.6	A <sub>20</sub>	1-1-1	" 16	
2 15 W	+05 52	1-2	8.5	B <sub>9</sub> ne	1-1-1	B <sub>0</sub> mag - M.V.C 320. <i>Small dark mass</i> <i>cloudy in S.W.</i>	
1 12 W	+26 31	1	7.7	G <sub>5</sub>	1-1-1	AG 25	
1 14 W	+23 41	0	6.98	G <sub>5</sub>	1-1-1	AG 25 V.A.E. <i>guiding</i>	
2 20 W	+46 38	0	7.7	B <sub>8</sub>	1-1-1	Aug 3 <i>6/4</i> <i>guiding</i> A.P.H. loaded + Benbo H.A.M.	

Sunday Afternoon Aug 6.  
 About 15 visitors were shown Sun  
 with Privatel telescope



Dome Temp. 74°C.

Transparency Conditions

Clean

344

Focus 15-79.0

Aurora at 12°

Dome Temp.

Ending Time  
LST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 06 E	+46 33	0	7.37	B8	1-1-1	Prog. 3	fine
0 38 W	+24 59	0	6.62	A2n	1-1-1	" 16	good
0 06 W	+25 18	1	8.56	G5	1-1-1	AG 25 (plate holder not opened)	<del>fine</del>
1 17 W	+27 15	0	7.57	K2	1-1-1	AL 25	good
3 37 W	+30 25	0	7.57	B8	1-1-1	BEK (plate holder not opened) BH 50 at 7.	fine
1 0 W	+24 30	0	7.02	B8	1-1-1	Prog 3	good
3 4 W	+24 37	0	7.57	B8	1-1-1	Prog 3.	good
				8.5		2 PH loaded in box.	on



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.P.	Star Angle End
17607	H.D. 159968	17 32.4	+27 39	I-25	F-300	.008	+25.9	21 01	22 21	3	31 31
17608	H.D. 174369	18 45.1	+24 56	"	"	"	+25.9	22 26	23 20	4	31 31
17609	" 192892	20 12.2	+26 11	"	"	"	+25.8	23 29	00 39	1	31 31
17610	" 200 391	20 58.1	+27 24	"	"	"	+25.4	00 45	02 15	2	31 31
17611	" 208 835	21 53.9	+46 23	"	"	"	+25.5	02 21	03 21	3	31 31
17612	" 225 095	23 58.3	+55 00	"	"	"	+25.6	03 27	04 35	4	31 31
	FOCUS TEST D.T.B.										

Dome Temp. +75° F

Transparency Conditions

Clear. Dullant sunrise in night till 21:30

346

Focus 15.798

Dome Temp. 64° F

Ending Time  
Z.S.T.

Hour	Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																		
22:20	01 34W	+27 36	0-1	8.00	Mo	1-1-1	AG 25	fine																		
22:40	01 30W	+24 59	0	6.62	Am	1-1-1	16 Transparency deteriorating	good																		
22:50	01 12W	+26 20	0	7.93	G5	1-1-1	AG 25	good																		
23:15	02 02W	+27 36	0	8.12	G0	1-1-1	AG 25 Aurora in N, E, W. good	wk.																		
23:40	02 14W	+46 38	0	7.37	B8	1-1-1	Reg 3. Aurora same	l wk																		
00:05	01 23W	+55 16	0	7.6	B10	1-1-1	Reg 3. N.W.C. 107. 8.5	l wk																		
							OK																			
							A.P.H. Model, 7 sec exp.																			
							<table border="0"> <tr> <td></td> <td>NE<sub>s</sub></td> <td>SE<sub>s</sub></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<sup>s</sup></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<sup>s</sup></td> </tr> </table>		NE <sub>s</sub>	SE <sub>s</sub>	MTW	STW	SW	Aug 8/50	+37.7	(+14.2)	-13.8	+0.1	-76 <sup>s</sup>	Aug 9/50	+38.0	-24.7	-9.0	+0.2	-63 <sup>s</sup>	
	NE <sub>s</sub>	SE <sub>s</sub>	MTW	STW	SW																					
Aug 8/50	+37.7	(+14.2)	-13.8	+0.1	-76 <sup>s</sup>																					
Aug 9/50	+38.0	-24.7	-9.0	+0.2	-63 <sup>s</sup>																					

Date Wed Aug 9-10, 1950 Observer Hd - Gu Julian Day 17615

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17613	HD 154942	17 03.5	28 16	I-25	E10340	008	+25.2	20 45	22 25	1
<del>17614</del>	HD 174944	18 05.1	24 06	-	-	-	25.1	22 28	23 18	-
<del>17615</del>	<sup>150312</sup> HD 150398	19 11.3	12 56	-	-	-	-	23 33	01 04	3

Dome Temp. +  
Pers. 157  
Dome Temp.

Star Angle  
End

Dome Temp. +73

Focus 15787

Dome Temp. 64.5

Transparency Conditions Fair

348

Uncertain at first.  
Pool

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 14	28 10	0	8.14	Ko	1-1-1	Top of ...	
1 11 25	25 00	0	6.42	Res.	1-1-1	...	
2 46 W		0	27	B(3)28	1-1	- Plate holder unhooked. Clouds at 01:00	
						2 PM's loaded, 3 in box	

349

S-GZ-GR

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

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17615	NGC 6254	16 54.5	<del>04</del> 02	NEWT	E102A-D	-	-	21 37 <sup>05</sup>	21 43	2
17616	" 6835	19 51.7	+18 38	"	"			21 47 <sup>15</sup>	21 55	1
17617	" 6777	19 14.6	+30 05	"	"			21 59 <sup>00</sup>	22 07	
17618	" 6712	18 50.3	-08 47	"	"			22 45 <sup>30</sup>	23 01	
17619	" 6636	18 33.3	-03 58	"	"			23 06 <sup>40</sup>	23 14	
17620	" 6535	18 01.3	-00 18	"	"			23 24 <sup>15</sup>	23 48	
17621	" 6838	19 51.3	+18 38	"	"			23 52 <sup>00</sup>	00 00	
17622	" 6205	16 39.9	+36 33	"	"			00 04 <sup>05</sup>	00 06	
17623	" 6934	20 31.7	+07 14	"	"			00 11 <sup>20</sup>	00 21	
17624	" 7078	21 27.6	+11 57	"	"			00 30 <sup>00</sup>	00 30 <sup>10</sup>	
17625	7078	21 27.6	+11 57	"	"			00 32 <sup>45</sup>	00 36	
17626	7089	21 30.9	-01 03	"	"			00 39 <sup>30</sup>	00 41	

ome Temp. 68°F

Transparency Conditions Cloud 7 Very delayed starting

ocus. —

ome Temp. 63°F

Ending Time EST	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 47 W						→ focused on Altair	
	0 58 E						transparency very poor	
	0 09 E						← → focused on Altair	
	1 10 W							
	1 40 W							
	2 45 W							
	1 07 W							
	7 25 W							
	0 43 W						← Focused on Altair	
	0 02 W							
	0 08 W							
	0 09 W							

Sum of the moments of the stars  
 MC SC MTD STa S a  
 Aug 11/50 +36<sup>s</sup> -24<sup>s</sup> +1.5<sup>s</sup> -0.3<sup>s</sup> -109<sup>s</sup>

Date FRI Aug 11-12, 1950 Observer S-GW-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
17627	NGC 5904	15 16.0	+02 16	NEWT	E10320	—	—	20 41 <sup>00</sup>	20 43	5
17628	" 6838	19 51.3	+18 38	"	"			20 49 <sup>10</sup>	20 53	5
17629	" 6933	16 14.1	-22 52	"	"			20 57 <sup>15</sup>	21 03	5
17630	" 6934	20 31.7	+07 14	"	"			21 47 <sup>10</sup>	22 03	5
17631	" 6838	19 51.3	+18 38	"	"			22 17 <sup>15</sup>	22 23	5
17632	" 6535	18 01.3	-00 18	"	"			22 39 <sup>10</sup>	23 03	5
17633	" 6712	16 50.3	-08 47	"	"			23 07 <sup>15</sup>	23 23	5
17634	" 6760	19 08.6	+00 57	"	"			23 26 <sup>00</sup>	23 56	5
17635	" 6934	20 31.7	+07 14	"	"			00 03 <sup>05</sup>	00 15	5
17636	" 6838	19 51.3	+18 38	"	"			00 18 <sup>55</sup>	00 22	5
17637	" 6760	19 08.6	+00 57	"	"			00 31 <sup>00</sup>	01 01	5
17638	" 6781	20 50.7	-12 44	"	"			01 05 <sup>00</sup>	01 21	5
17639	" 6934	20 31.7	+07 14	"	"			01 25 <sup>55</sup>	01 33	5
17640	" 6838	19 51.3	+18 38	"	"			01 38 <sup>15</sup>	01 42	5
17641	" 6779	19 14.6	+30 05	"	"			01 46 <sup>10</sup>	01 50	5
17642	" 7089	21 30.9	-01 03	"	"			01 54 <sup>10</sup>	01 55	5

Transparency Conditions *cloudy in west at beginning*

Dome Temp. *62°F*

Focus *\_\_\_\_\_*

Dome Temp. *\_\_\_\_\_*

Ending Time EST.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:41	2 30 W						← Focused on $\alpha$ Serpente not numbered 17627, but 17267	
21:47	1 56 E						no number	
21:52	1 51 W						← Delayed by passing clouds.	
21:58	1 26 E						← Focused on $\alpha$ Aquilae	
22:03	0 26 E						← Delayed by clouds.	
22:08	2 04 W							
22:13	1 35 W							
22:18	1 50 W						← Focused on $\alpha$ Aquilae (did not have to change focus)	
22:23	0 46 W							
22:28	1 34 W							
22:33	2 55 W							
22:38	1 34 W							
22:43	2 05 W						water passed through field approx 20' 20"	
22:48	54 W							
22:53	39 W							
22:58	27 W						number looks like 17692	



Continued

Date Fri Aug 11-12 1950 Observer S-GW-GY Julian Day 243993

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
17643	NGC 7492	23 057	-15 54	NEWT	E0120C	-	-	02 11 <sup>00</sup>	02 41	2
17644	" 7099	21 375	-23 25	"	"			02 44 <sup>50</sup>	02 56	1
17645	" 7492	23 057	-15 54	"	"			03 01 <sup>00</sup>	03 31	2

Dome Temp  
Focus  
Dome Temp  
Hour Angle  
End

Transparency Conditions .....

Dome Temp. ....

Focus .....

Dome Temp. 56°F

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 37 W							
2 22 W							
1 29 W							
						Disappointing not work in South SW 2/ The line - spreading then last half of night I think I have some good data but not so many as I had hoped. Many still in the	

355

Date Aug 21 1953 Observer G<sup>N</sup> - 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 43.0	+26 32	I-25	103a-0	.008	+21.8	23 27	23 27	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 55	2
17649	" 208 835	21 53.9	+26 23	"	"	"	+21.7	01 21	02 41	2
17650	" 218 313	23 02.6	+49 40	"	"	"	+21.5	02 47	03 25	3
17651	" 225 045	23 58.3	+55 00	"	"	"	+21.5	03 31	04 37	4
FOCUS TEST O.T.B.										

Dome Temp. +62°F

Focus 15.738

Dome Temp. ....

Transparency Conditions

Good

256

Standard 1100 micron H12 mid 74 inch 2 inch 4 inch

N, Ca.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 57W	28 32	0-1	8.8	K <sub>2</sub>	1-1-1	AE 25 } The dec is reading 05 out eg. 28 35 and 28 38 also set station. Fuchs check	1 with
1 58W	30 02	0-1	8.44	K <sub>2</sub>	1-	" " } ok	top creek
3 19W	+24 57	0	6.62	A <sub>3</sub> m	1-1-1	Prog 16. 910 <sup>ok</sup> <del>barcode</del> in field right	strong
3 52W	+46 36	0	7.37	B8	1-1-1	Prog 2. 815 <del>barcode</del> 100 14 30 not broken	4-7
3 30W	+49 53	0	6.8	Ave	1-1-1	Be Prog. MWC 397 Many Perseids meteor	good
3 44W	-55 14	0	7.6	B <sub>2</sub>	1-1-1	Be Prog MWC 109 nearby lightswif	good
					8.5		
						4 P.H. loaded.	

357

Date Summer Aug 13/14, 1950 Observer Cu - GZ Julian Day 2,433,507

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
17652	HD 174 369	18 45.0	+24 56	I-25"	113a-0r-008		+23.0°	20 18	20 58	1	4.5
17653	" 166181	18 04.4	+29 39	"	"	"	+23.0°	22 08	23 12	2	4.5
17654	" 196712	20 34.0	-2 46	"	"	"	+22.9°	23 20	23 40	3	4.5
17655	" 193221	20 19.0	+25 12	"	"	"	+22.9	23 46	01 06	4	4.5
17656	" 208835	21 53.9	+46 23	"	"	"	+22.8	01 15	02 15	1	4.5
17657	" 220288	23 17.5	+25 22	"	"	"	+22.9	02 21	03 25	2	4.5
17658	{ " 224085	23 49.9	+28 06	"	"	"	+22.9	03 29	04 39	3	4.5
	Focus Test O.T.B										

Dome Temp. +69°F

Transparency Conditions

Good

358

Focus 17.758

Dome Temp. +60°F

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																	
1:13	0 43 E	+24 38°	0-1	6.62	Azn	1-1-1	16.21	fine																	
1:17	2 16 W	+29 40	1-2	8.16	G5	1-1-1	AG 25 Dec trouble (sector) <sup>Qu-Gz</sup> O.K.	good																	
1:21	0 14 W	-2 35	1-2	6.3	B9e	1-1-1	Be bro.	good																	
1:25	2 00 W	+25 20	1	8.94	K5	1-1-1	AG 25	good																	
1:29	1 30 W	+46 36	1	7.37	B8	1-1-1	3	decent																	
1:33	1 16 W	+25 39	1	7.99	K2	1-1-1	AG	fine																	
1:37	1 58 W	+28 21	1	8.12	K0	1-1-1	AG	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>Me</td> <td>se</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Aug 14/50</td> <td>+37.2<sup>S</sup></td> <td>-20.5<sup>S</sup></td> <td>+26.2<sup>S</sup></td> <td>-0.7<sup>m</sup></td> <td>+12.5<sup>S</sup></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><del>-17.7<sup>S</sup></del></td> </tr> </table>		Me	se	MTW	STW	SW	Aug 14/50	+37.2 <sup>S</sup>	-20.5 <sup>S</sup>	+26.2 <sup>S</sup>	-0.7 <sup>m</sup>	+12.5 <sup>S</sup>						<del>-17.7<sup>S</sup></del>
	Me	se	MTW	STW	SW																				
Aug 14/50	+37.2 <sup>S</sup>	-20.5 <sup>S</sup>	+26.2 <sup>S</sup>	-0.7 <sup>m</sup>	+12.5 <sup>S</sup>																				
					<del>-17.7<sup>S</sup></del>																				

359

Date Mon Aug 14-15, 1950 Observer GX - 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	ND 174369	18 45.1	+24 56	T-25	E 10320	0.008	23.7	22 58	00 00	1
17660	" 199763	20 54.1	+35 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 - leaving 22:30 360  
considerable haze at beginning  
aurora, very north  
(arch and streamer central  
to an angle of 60° and better)

Clouds in N → NE

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2	32W	+24 58	0	6.62	A2n	1-1-1	Frog. 16	strong
1	16W	+30 10	0	7.19	K <sub>0</sub>	1-1-1	AE 25	good
1	24W	+46 36	0-1	7.37	B8	1-1-1	3 OK. Just one more!	fine
1	50W	+25 39	0-1	6.98	G <sub>5</sub>	1-1-1	AE 25	weak
2	14W	+29 48	0	8.72	G <sub>5</sub>	1-1-1	st 5 " " Comes at 03.00 -10 Cooled out	weak
							9 P1s loaded, plates needed	



361

Date 1950 Aug 15-14 Sun Observer R Julian Day 243.7501

Plate No.	Object	R.A. 1900	Declination 1900	Inst. ?	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
7664	HD 211460	22 <sup>h</sup> 12 <sup>m</sup> 37 <sup>s</sup>	+23° 44'	E10320	KODAK		+22.9	00 33	02 19	2
7665	<del>HD 222207</del>	<del>23<sup>h</sup> 33<sup>m</sup> 57<sup>s</sup></del>	<del>+41 57'</del>	"	"	"	+22.8	02 25	03 29	3
17664F	FOCUS TEST		O.T.B.							

Dome Temp.  $+6.70^{\circ}F$

Focus  $15.752$

Dome Temp.  $+6.6^{\circ}F$

Transparency Conditions

*Very bad at first getting better  
clearly after 3h*

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
01 24W	$+20^{\circ}55'$	0	6.84	G5	1-1-1	AG-25. <i>High magnification</i> $+1.5$													
01 12W	$+42^{\circ}14'$	0	6.77	B9	1-1-1	Prog 13. <i>High magnification</i> $+1.0$ 8.5.													
						2 PH loaded.													
						<table border="0"> <tr> <td></td> <td>MC</td> <td>SO</td> <td>HTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Flow 16/50</td> <td><math>+35.8</math></td> <td><math>-17.1</math></td> <td><math>-25.2</math></td> <td><math>+0.6</math></td> <td><math>-8.5</math></td> </tr> </table>		MC	SO	HTW	STW	SW	Flow 16/50	$+35.8$	$-17.1$	$-25.2$	$+0.6$	$-8.5$	
	MC	SO	HTW	STW	SW														
Flow 16/50	$+35.8$	$-17.1$	$-25.2$	$+0.6$	$-8.5$														

263

Date Wed Aug 16-17, 1950 Observer Ad-R Julian Day 2433510

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17665	HD 158038	17 21.8	27 23	E-25	E10320	008	25.5	20 31	22 21	4
17666	HD 174369	18 45.1	24 58	"	"	"	25.4	23 18	23 59	1
17667	HD 200391	20 58.1	27 24	"	"	"	25.8	00 08	01 28	2
17668	HD 15472	02 21.4	+70 30	"	"	"	+25.8	01 53	03 23	3
17669	HD 200391	20 58.1	+27 24	"	"	"	+25.7	03 36	04 52	4
	FOCUS TEST	O.T.B.								

June Temp.

June 5

June Temp.

Star Angle  
End

2 19 2

1 2 32 2

2 50 2

3 ARE 7

4 41 12

Aug 1950

Sat Aug 19

Dome Temp. +74

Transparency Conditions

Good

364

Focus 15.777

Dome Temp. +64°F

Starting Time  
LST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 19	27 20	0-1	8.53	K0	1-1-1	AG Prog. Clouds passing while setting - waited	
21 32	24 55	1-2	6.62	A22	1-1-1	Bin. 1mm. power interruption at 0001	
1 50W	+27 37	H	8.12	G0	1-1-1	Bin.	fine
1 48E	+70 41	0	8.0	B-ne	1-1-1	Be prog. Possible seeing, very faint.	
1 4W	+27 37	0	8.12	G0	1-1-1	Bin.	too much and too late
					8.4 1/2	3PH loaded to inspect. sky light on focus test	
						Quick motion in R.A. & Dec. - separate at the best, otherwise use longer exposures, do not use chain.	
		MC		ATW			
		-3.6		-19.8			
		Battery failure, MC reset					

Note all slow motions quit  
at 22.20. Checked with Ba  
who was having trouble with 6V  
circuit. Found 6V battery down to 3.3.  
Borrowed replacement from  
microphotometer. See to this



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

Focus  $15.742$

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

Transparency Conditions

*Good*

360

about 100 visitors, showed M13 with 74",  
5", 4 with 4".

Reading Time  
EST.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
9m	27 36	1	8.2	G0	1-1-1	Very brilliant aurora Bin slit looks short but slithead false	
3 15W	+13 02	0-1	7.7	B3) x0	1-1-1	clouds at 20 30 to 10 30 numbered 16670	
1 31W	+28 17	1	7.86	K0	1-1-1	clouds in north-west being in aurora prominent through clouds	
-					6/4	4 P.M. Ladder, 2 plates in 5x	

Date 1953 Aug 20-21 Observer R-Gz Julian Day 21335

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 <sup>h</sup> 45 <sup>m</sup>	+24° 56'	JV2	EMERG	0.008	+20.0	20 <sup>h</sup> 25 <sup>m</sup>	21 <sup>h</sup> 03 <sup>m</sup>	1
17674	HD 204 560	21 24.2	+25 31	"	"	"	+20.0	21 11	22 07	2
17675	HD 208 682	21 52.9	+61 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 39.4	+27 41	"	"	"	+19.5	02 12	03 06	1
17679	{ " 5164	00 48.4	+28 02	"	"	"	+19.5	03 11	04 47	3
	Focus Test 0.7.3									

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

Transparency Conditions *Fair*

368

Ending Time R.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06 <sup>m</sup>		+24° 58'	0.5	6.2	K2	H-1	Pin	1.0
01 42		+25 43	0	7.58	K2	1-1-1	AG 25	1.0
01 46		+65 05	0	5.8	B3	1-H	MWC 381	1.0
01 16		+61 55	0	8.3	B3	1-1-1	MWC 402 Transparency 1.0 good	1.0
01 42		+ 27 41	0	7.72	G0	1-1-1	AG 25 did not on properly on P.H #1. Plate was	1.0
01 07 W		+ 27 57	0	7.47	G0	1-1-1	AG landing appears to be confined to upper part	1.0
01 35 W		+ 28 10	0	8.16	G5	1-1-1	AG 25 of that image does not print at all on	1.0
							2 T in bracket. 8 plates in tray.	



369

Date Mon. Aug 21-22, 1950 Observer <sup>Gr</sup> Ho - E. Julian Day 24335.15

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
17680	ND 174369	18 45.1	+24 56	I-25	E10321	<sup>52</sup> -008	19.8	20 35	21 35	
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 20	"	"	"	19.5	00 16	01 28	2
17684	210026	21 02.4	+26 08	"	"	"	19.2	01 32	02 32	1
17685	217230	22 54.2	+26 57	"	"	"	19.1	02 30	03 30	
17686	{ 225292	23 59.9	+27 07	"	"	"	19.1	03 37	04 37	
	LFOCUS TEST		O. T. B.							

Home Temp. 62°F  
 Focus 15.706  
 Home Temp. +56°F

Transparency Conditions *Heavy at beginning - clearing*  
*2:00 PM Wind SW - strong with rain*  
*clearing*

Reading Time  
 E.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20W	+24 58	0	6.62	A <sub>2</sub> n	1-1-1	Prog. 16	
1 38W	+29 32	0	7.69	K <sub>0</sub>	1-1-1	A.G. 25	
1 24W	+26 57	0	7.44	G <sub>5</sub>	1-1-1	" plate numbered 17683	
1 57W	+26 12	0-1	7.25	G <sub>0</sub>	1-1-1	" plate - PH 17683	
1 10W	+27 36	0	8.12	G <sub>0</sub>	1-1-1	"	
1 52W	+26 23	0-3	7.83	K <sub>0</sub>	1-1-1	"	
1 19W	+27 13	0-2	8.48	K <sub>0</sub>	1-1-1	" Reddish tint	
1 03W	+27 33	0	7.25	G <sub>5</sub>	1-1-1	W5 - cloud from West	
						" 10	
						3 PHs loaded, none too washed	

Aug. 23/50

MC	SC	MTW	STW	SW
-01.2	-06.8	+19.8	+0.9	-0.6

Date Thurs Aug 24 25 1950 Observer Hd-GR Julian Day 2433518

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
17687	HD 156775	17 14.4	25 54	I-25	E10320	008	25.9	20 05	21 25	1
17688	HD 174369	18 45.1	24 56	"	"	"	25.9	21 28	22 28	2
17689	HD 193347	20 14.7	26 40	"	"	"	"	22 31	00 31	3
	Focus test		OT B							

Dome Temp. 67° F

Focus 15.797

Dome Temp. 67° F

Transparency Conditions

Poor

372

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality											
2:15	N 20 02	25 51	0	7.61	K <sub>0</sub>	1-1-1	AG/Kang												
2:17	N 1 35	24 59	0	6.56	A <sub>2h</sub>	1-1-1	Bin												
2:33	2 09 W	+26 50	0	8.06	M <sub>0</sub>	1-1-1	AG 25° light cloud for last few min. of exp. 6/4 Heavy cloud clearing in from south												
							4 P.H. ended + 8												
							<table border="1"> <thead> <tr> <th>MC</th> <th>SC</th> <th>MTW</th> <th>STW</th> <th>SW</th> </tr> </thead> <tbody> <tr> <td>Aug 25/50</td> <td>-02.3</td> <td>-02.6</td> <td>+31.2</td> <td>+1.7</td> <td>-1.7</td> </tr> </tbody> </table>	MC	SC	MTW	STW	SW	Aug 25/50	-02.3	-02.6	+31.2	+1.7	-1.7	
MC	SC	MTW	STW	SW															
Aug 25/50	-02.3	-02.6	+31.2	+1.7	-1.7														
							Sat Aug 26, Hd. Co, 90 visitors showed slides, 79"												
							<table border="1"> <thead> <tr> <th>MC</th> <th>SC</th> <th>MTW</th> <th>STW</th> <th>SW</th> </tr> </thead> <tbody> <tr> <td>Aug 30/50</td> <td>-4.4</td> <td>+12.9</td> <td>-33.5</td> <td>+0.3<sup>m</sup></td> <td>-10.5</td> </tr> </tbody> </table>	MC	SC	MTW	STW	SW	Aug 30/50	-4.4	+12.9	-33.5	+0.3 <sup>m</sup>	-10.5	
MC	SC	MTW	STW	SW															
Aug 30/50	-4.4	+12.9	-33.5	+0.3 <sup>m</sup>	-10.5														

373

Date Sat Sun, Sept 2/2, 50 Observer R. 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.
17680 F	<i>found in 17680</i>	<i>21 46.7</i>	<i>+28 25</i>							
17690	BD +28° 4711	21 46.7	+28° 25	12"	10390	t.008	+18.2	22 51	01 57	2
17691	BD 136 80	22 57.3	+28 40			"	130	00 57	01 50	3
17692	HD 111	22 <del>57.3</del> 00.9	27 43			"	15.1	04 54	02 24	4
17693	HD 1796	00 19.1	25 51			"	160	02 27	03 07	1
17694	HD 5524	00 52.5	21 47			"	190	03 12	04 10	2
17695	HD 12022	01 57.0	28 27			"	180	04 22	05 00	3
			From 7 20		OTP:	3/2				

Dome Temp. +58°

Focus 12.940

Dome Temp. 54

Transparency Conditions

Clouds delayed starting 374

G.F.L. Sept 1 changed to 12 1/2 Camera { 25" was 12 1/2" is  
Tilt 23.18 Tilt 20.25  
Focus 15.763 Focus 12.940

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 W	+28° 36	0	9.9		1-1-1	Mac Kae's Star Focus Test { 12.930	
1 13W	28 56	0	8.52	G0	1-1-1	AC, 25 { 12.950	
1 15W	29 01	0	8.62	K2	1-1-1	"	
1 15W	29 03	0	8.69	G5	1-1-1	" exposed through glass???	
1 15W	29 03	0	8.82	G0	1-1-1	"	
1 22W	27 42	0	8.65	G0	1-1-1	"	
						1 E+ +4	

MC SC MTW STW SW  
 Sept's -6.8 +14.6 -9.8 +0.0<sup>m</sup> -19.0<sup>s</sup>

About 50 miles, about 100<sup>mi</sup> Net.  
 with 74" - very cloudy. Ba-Cu.

Date ~~Tues~~ <sup>1/2</sup> Sept 5-6/30 Observer ~~PL~~ - GZ Julian Day 243 <sup>30</sup> ~~242~~

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
17696	BD +28° 4211	21 46.7	+28 24	I-12	50320	short 6/2	18.0	20 42	23 22	4
17697	HD 209457	21 58.4	29 12	I-12	"	normal 6/2	18.0	23 29	00 19	1
17698	HD 209500	21 58.5	29 17	"	"	"	17.9	00 21	01 01	2
17699	" 217570	22 47.0	28 01	"	"	"	17.8	01 08	01 38	3
17700	" 217570	22 56.6	28 10	"	"	"	17.8	01 44	02 16	4
17701	" 5845	22 52.5	28 57	"	"	"	17.8	02 22	02 42	1
17702	" 6192	22 51.8	28 57	"	"	"	17.8	02 50	03 21	2
17703	" 12260	21 52.5	29 04	"	"	"	17.8	03 22	04 02	2
17704	AS 1765	02 44	29 50	"	"	"	17.8	04 10	04 50	1
17705	CHD 14737	02 19.7	29 46	"	"	"	17.8	04 44	05 24	1
	{From Tent 0.75									

Dome Temp  
Focus  
Dome Temp  
Star Angle  
End

Dome Temp. 78

Transparency Conditions

Good

376

Focus 12.5

Dome Temp. 51°F

with large amount of light captured by telescope  
1000x magnification

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12:12	✓ 14 <sup>m</sup>	28 37	1?	9.9	.	1-1-1	focused on object & in front of lens M-Kee * <i>Very faint!</i>	
0:10	✓ 1 00	29 26	0	8.97	K5	1-1-1	AG 25 <i>comp. 5.1 heavy.</i>	
0:10	1 41 W	29 30	1	8.7	K5	1-1-1	"	
0:10	1 28 W	28 22	1	8.48	K2	1-1-1	"	
0:10	1 57 W	28 26	0-1	8.47	K0	1-1-1	"	
0:10	0 30 W	29 15	1	8.32	K0	1-1-1	"	
0:10	1 06 W	29 43	1	8.22	K0	1-1-1	"	
0:10	0 50 W	29 18	0-1	8.65	K0	1-1-1	"	
0:10	1 02 W	30 03	0-1	8.77	-	1-1-1	"	
0:10	1 27 W	29 39	1	8.18	K2	1-1-1	"	
							3 P.H. build. 4 plates	



377

Date

10-22 Sept 1954

Observer

R-P

Julian Day

24335.34

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	AA 18211	21 26.7	28 24'	115L	E10300	14008	+22.0	10 55	22 42 <sup>m</sup>	
17707	HD 200391	20 55.1	27 24	"	"	"	+21.8	22 49	23 23	
17708	HD 216502	20 53.8	27 25	"	"	"	+21.8	23 29	00 07	
17709	200391	20 55.1	27 24	"	"	"	+21.6	20 28	01 00	
17710	AS 13139	22 36.8	29 31	"	"	"	21.6	01 05	02 05	
17711	HD 217351 <del>13821</del>	22 54.8	21 32	"	"	"	21.6	02 08	02 53	
17712	HD 12421	01 56.7	29 17	"	"	"	21.6	03 03	04 03	
17713	19956	02 15.0	28 09	"	"	"		04 07	04 17	
				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 32m	+28° 37'	1-0	9.9	Early	1-1-1	9th Mag. Star. 1st pass on eye	
001 08	+27 36	1	8.12	G0	1-1-1	AG 25	
0002 E	+26 44	0-1	8.20	K0	1-1-1	AG 25	
0245 W	27 36	0	8.12	G0	1-1-1	Binary. <sup>started next pass</sup> <sub>2nd pass</sub> <sup>1st pass</sup> <sub>2nd pass</sub>	
0209 W	29 47	0+	8.9	K5	1-1-1	AG 25	cut
0245 W	29 49	0	<del>8.92</del> <sup>8.4</sup>	<del>G5</del> <sup>A2</sup>	1-1-1	"	
0091 W	29 32	0-1	8.98	G5	1-1-1	"	
0115 W	28 18	0	8.56	G0	1-1-1	"	

3 FH 1 E  
 HC SC HFW STW SW  
 Sept 150 -6.5<sup>s</sup> +23.1<sup>s</sup> +2.5<sup>s</sup> -0.2<sup>m</sup> -41<sup>s</sup>

379

Date Thur Sep. 6<sup>7-8</sup> / 50 Observer Gr Julian Day 243353<sup>2</sup>X

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17714	BD 28° 4211	21 46.7	+28 24	I-12	E103 <sub>g</sub> -0	NDF 1.5 .012	+23.8	20 46	22 50	2
17715	HD 204923	21 26.7	+25 37	"	"	Racal .008	+23.8	22 55	23 45	3
17716	AG 13518	22 27.7	+25 04	"	"	"	+23.8	23 48	00 28	4
17717	HD 217576	22 56.6	+28 10	"	"	"	+23.8	00 32	01 08	1
17718	" 215732	22 42.2	+29 22	"	"	"	+23.8	01 12	02 12	2
	Focus test O.T.B.									

Dome Temp 6

Focus 12.94

Dome Temp 6

Star Angle  
End

10E

05W

47W

59W

17W

Dome Temp... 68 °F

Focus... 12.940

Dome Temp... 66 °F

Transparency Conditions

Cloudy - clearing

380

Cloud clearing slowly with evening

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 10 E	+28 37	1-2	9.9	-	1-1-1	M <sup>c</sup> Bee's *	1/2 hr of light cloud at on-foot exp. but image unaffected.	
01 05 W	+25 49	1-2	8.77	K <sub>5</sub>	H-1	AG 25	Trace.	
00 47 W	+25 20	1-2	8.77	K <sub>0</sub>	1-1-1	"	" + light cloud	1 wk.
00 59 W	+28 26	1-2	8.47	K <sub>0</sub>	1-1-1	"	"	1 wk.
02 17 W	+29 38	1-2	8.93	K <sub>2</sub>	1-1-1	"	Cloud clearing, some no in seeing up	1 wk.
					3/2			
							2 P.H. loaded + 4 yr lot	
							Sept 8/50	
							<sup>nc</sup> -7.5 <sup>sc</sup> +25.5 <sup>ntw</sup> +7.5 <sup>stw</sup> +0.3 <sup>m</sup> <sup>sw</sup> -18 <sup>s</sup>	
Sat. Sep 9 / 50							Wm - Gr cloud about 60	
							visitors the telescope - sky	
							clear	
							<sup>nc</sup> <sup>sc</sup> <sup>ntw</sup> <sup>stw</sup> <sup>sw</sup>	
							Sept 11/50	
							-7.8    +35.0    +19.2    +0.2 <sup>m</sup> -2 <sup>s</sup>	
							13/50	
							-9.8    +39.9    -31.8    +0.1 <sup>m</sup> +41 <sup>s</sup>	

381

Date Sat Sep. 16-17/50 Observer Hy - G Julian Day 243 3541

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17713 F					About 80 Ventrans	Hy showed M13 with			74"	
					Hy	"	4	"	4"	
17719	BD +28° 4211	21 46.7	28 24	I-12	E103aF	012 <sup>normal</sup>	+13.1	21 23	00 01	1
17720	HD 219300	23 13.6	+27 04	"	E103aC	.008	+13.0	00 14	00 30	3
17721	HD 71450	01 40.2	+32 47	"	"	"	+13.0	00 41	01 39	1
17722	" 12260	01 55.2	+39 04	"	"	"	+13.0	01 33	01 15	1
17723	" 14323	01 55.0	+39 37	"	"	"	+13.0	02 19	01 01	2
17724	" 12273	02 10.2	+34 20	"	"	"	+13.0	03 07	03 43	2
17725	" 14315	02 12.2	+35 02	"	"	"	+13.0	02 48	01 20	2
						3/2				

Dome Temp.  
Focus  
Dome Temp.  
Hour Angle  
End

Dome Temp.....

Focus..... 12.940

Dome Temp... +45°F

Transparency Conditions

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

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						Set 1 } Focus 12.890 1950 Sep. 16	
						Set 6 } " 12.990 on E-1030-F	
						Set 9 } " 12.940	
						Sept 1750 HC SC NW STW SW -11.4 +39.2 -24.4 -0.2 28.6 S	
1 36W	+28-39	0	9.9		1-1-1	Power interruption of seeing	too weak
0 32W	+27-18	0-1	7.91	K0	1-1-1	AG 25	fine
0 38E	+27-02	0-1	8.98	G5	1-1-1	"	fine
0 18E	+27-15	0	8.65	K0	1-1-1	"	fine
0 38W	+27-41	0	8.65	G5	1-1-1	"	fine
0 53W	+27-32	0	8.65	G5	1-1-1	"	good
1 27W	+25-10	0	8.50	G5	1-1-1	4 Fr. bubbles 8.4 hr	

Date 11/24/49 Observer R - Gw Julian Day 243.9722

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	AB 21211	21 45.7	+28 30	"	10320	012	+16.2	20 10	20 50	
17727	AB 213 178	22 24.5	+28 32	"	"	0.68	+15.2	22 47	23 17	
17728	AB 213 157	22 29.5	+29 14	"	"	"	+16.0	23 26	00 18	3
17729	HD 219736	23 13.1	+29 59	"	"	"	+16.0	00 15	00 35	4
17730	HD 220489	23 20.6	+25 39	"	"	"	+16.0	00 38	01 00	1
17731	HD 220722	23 29.9	+27 07	"	"	"	+16.0	01 01	01 20	2
17732	HD 224035	23 45.9	+28 06	"	"	"	+15.9	01 25	01 45	3
17733	HD 13026	01 56.7	+14 17	"	"	"	+15.9	01 51	02 31	+
17734	AG 1193	02 01.9	+22 09	"	"	"	+15.9	02 32	03 04	1
17735	HD 14490	02 15.5	+25 28	"	"	"	+15.9	02 07	02 32	2
17736	HD 14874	02 16.0	+30 12	"	"	"	+15.9	02 25	02 45	3
17737	HD 14628	02 16.5	+29 53	"	"	"	+15.9	02 05	02 25	4
17738	HD 19242	03 00.7	+12 00	"	"	"	+16.7	04 33	04 36	1
17739	HD 23620	03 41.5	+21 54	"	"	"	+15.9	04 49	05 52	2
	FOCUS TEST		C. T. B.							

Dome Temp  
Focus  
Dome Temp  
Hour Angle  
End

Transparency Conditions

*Clear*

Dome Temp. *55°F*

Focus *12.50*

Dome Temp. *+46°F*

*Some clouds in early evening*

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
100° 5'	+71° 37'	1	8.9	Scaly	1-1-1	<i>Small star</i>	
00 17	+29 40	2-3	8.5	K0	1-1-1	<i>AG 25</i>	<i>fine</i>
1 01W	+29 28	2-1	8.77	K0	1-1-1	<i>AG 25</i>	<i>excellent</i>
0 42W	+30 41	1-2	8.55	K0	1-1-1	"	<i>fine</i>
1 13W	+28 24	2-1	8.77	K0	1-1-1	"	<i>excellent</i>
-	+27 43	3-4	7.25	G0	1-1	"	<i>excellent</i>
1 24W	+28 48	1-0	8.12	K0	1-1-1	"	<i>fine</i>
1 40	+29 31	0-1	8.33	G0	1-1-1	"	<i>excellent</i>
2 10W	+30 23	1	8.93	G0	1-1-1	"	<i>excellent</i>
0 42W	+30 41	1-2	8.76	G0	1-1-1	"	<i>fine</i>
1 01W	+30 27	1-2	8.57	G0	1-1-1	"	<i>fine</i>
1 34W	+30 05	1	8.54	K0	1-1-1	"	<i>fine</i>
1 01W	+62 07	1-2	6.5	3re	1/2-1/2	<i>Be program</i>	
0 44W	+32 01	1-2	6.5	F0	1/2-1/2	<i>16</i>	<i>fine</i>

1950 Sept 18/19 Mon. Overcast  
*-wm*

*9 PMs recorded*

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



Date Tues Sept 19-20, 1950 Observer Hol - 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	E10390	008	18.3	19 <sup>31</sup> / <sub>26</sub>	20 31	1	11 26
17741	HD 189087	19 53.2	29 33	"	"	"	18.2	20 34	21 14	2	11 55
17742	AG 10644	19 53.2	29 40	"	"	"	18.1	21 16	22 16	3	12 17
17743	HD 204711	21 25.4	25 22	"	"	"	18.2	22 20	23 10	4	12 18
17744	HD 215944	22 43.7	27 36	"	"	"	18.1	23 13	00 05	1	12 53
17745	" 6132	00 57.4	29 27	"	"	"	18.1	00 14	01 04	2	13 22
17746	" 12928	01 59.6	28 39	"	"	"	18	01 16	01 56	3	13 51
	{ Giacca Foot				O T B						

Dome Temp. 66.F  
 Focus 12.740  
 Dome Temp.

Transparency Conditions

386

Sept 18 Gill changed back to 20.25 L

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality												
2.31	W 1 02	28 36	0	8.90	G <sub>0</sub>	1-1-1/2	Wrong* at first. Part to 1.													
	W 0 55	29 40	0	8.56	G <sub>5</sub>	1/2-1/2-1/2														
	W 1 57	29 47	0	8.88	G <sub>0</sub>	1/2-1/2-1/2														
	W 1 18	25 36	0	8.77	K <sub>2</sub>	1/2-1/2-1/2														
	0 53W	27 51	0	8.62	G <sub>0</sub>	1/2-1/2-1/2														
	0 20E	29 43	0	8.62	K <sub>0</sub>	1/2-1/2-1/2														
	0 30E	28 52	0	8.44	G <sub>5</sub>	1/2-1/2-1/2	Light clouds toward end. Closed at 03.00 sky cloudy with some broken intervals 1 P.H. load 4.5-4.1													
						3/2														
							<table border="0"> <tr> <td></td> <td>MC</td> <td>SC</td> <td>MTW</td> <td>STW</td> <td>SW</td> </tr> <tr> <td>Sept. 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	Sept. 22	-11.8	+54.2	+10.2	+0.5	00	
	MC	SC	MTW	STW	SW															
Sept. 22	-11.8	+54.2	+10.2	+0.5	00															
							<p>1950 Fri Sept 22/23 - O'cast. becoming cloudy</p> <p>1950 Sat Sep. 23 - B<sub>0</sub> - 31 - 20 - 20 - 20 - 20</p> <p>the thickness and the clouds.</p>													

387

Date Tues, Sept 26/27, 1950 Observer Wm. C. C. Julian Day 2.433551

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.L.
17-747	AG 11471	20 20.4	+25 30	I-12	E1032-12	SIT OOE	+17.7	20 44	21 41	1
17-748	HD 204021	21 26.7	+29 50	"	"	"	+17.7	21 49	23 09	1
17-749	HD 219736	23 13.1	+23 54	"	"	"	+17.4	23 16	00 16	2
13750	AE 43	00 08.2	+26 30	"	"	"	+17.5	00 19	01 31	3
	FOCUS TO	11 10	11 10							

Dome Temp..... 56°F  
 Focus..... 12.940  
 Dome Temp.....

Transparency Conditions *HORRIBLE!*

*Wanted with dome open  
 for telescope to dry, before  
 opening it  
 considerable fog - 1 hour*

Ending Time  
 E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 <sup>h</sup> 17	+35 41	0	3.19	G5	1-1-1	AB OF	<i>weak</i>
1 <sup>h</sup> 45	+30 05	0	8.49	K0	1-1-1		<i>fine</i>
1 35	+30 11	0	18.15	K0	1-1-1		<i>fine</i>
1 30	+30 47	0	2.72	K0	1-1-1		<i>good</i>

*sep. 27*

MC -13<sup>s</sup> SC +1<sup>m</sup> 040

MTW -22<sup>s</sup> STW<sup>n</sup> -0.0  
*adv 1 min.*

SW

-39<sup>s</sup>

389

Date Thu Sept 26 1953 Observer Roa Julian 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	WD 172311	19 34.9	20 15	6-12"	5103a(1)	.008	19.3	18 54	20 4	1
17752	32 Cyg	20 12.4	17 24	"	"	"	19.3	20 52	20 54	
								20 54	20 58	
17753								20 58	21 04	
<del>17752</del>	HD 193347	19 14.7	26 40	"	"	"	19.3	21 15		
	Focussed at 0 TB			3/2.						

Home Temp. 64  
 Focus 12.940  
 Home Temp. ....

Transparency Conditions Waxy 390  
 Found water run down after opening up  
 Reset

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality																												
21:00	0219	22 15	<0	391	KO	1-1-	Exp interrupted from 19:30-20:00. Exp from 20:25 Heavy cloud at 21:30. Heavy cloudage from that time up.	1 wk																												
21:00			0	52	Comp.	2	Set 3																													
21:00						2	Set 5	good																												
21:00	0100	47 35				2	Set 7																													
		26 50	0	82	MO	1-	Heavy cloud at 21:30. <del>still</del> Use telescope v. 15:26 at 1:00? Still cloudy at 22:00. So close down. 1 P 4 + 7	1 wk																												
							<table border="0"> <tr> <td></td> <td><sup>w</sup></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>		<sup>w</sup>	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				
	<sup>w</sup>	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. 54.5

Transparency Conditions Considerable haze 4/10 <sup>392</sup> 2:55:00

Cloudy at sunset, slowly clearing.

Boiling Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 <sup>W</sup> 25	+29 06	0!	8.40	G0	1-1-1	AG 25	fine
1 34 W	+26 43	0	8.20	K0	1-1-1	AG 25	fine
1 26 W	+26 07	-0+	8.69	G <sub>s</sub>	1-1-1	"	fine
1 42 W	+28 36	0-1	7.79	K0	1-1-1	"	fine
2 27 W	+30 34	-0+	8.70	G <sub>0</sub>	1-1-1	" fog clearing in <sup>comes &amp; stays</sup> 23:45 EST	1.000
1 19 W	+25 40	0-1	7.93	G <sub>0</sub>	1-1-1	"	1.000
1 34 W	+26 09	1-2	7.83	G <sub>s</sub>	1-1-1	"	1.000

found ok  
 3 1/2" field, 8" diameter  
 in E for - 11.5"





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
1 02	29 26	1	8.51	G5	1-1/2	Unusual 17760 by some,	good
1 36	29 19	1	8.24	G0	2-3/4	Common	good
1 40	29 150	1-2	8.75	G0	1/2-3/4		good
						focus	
						Coordinate slipping from dome	
						is moving in.	
						3 PM loaded + 16 plates in 11-15 min	

Date Apr 11 Observer B. - E. Julian Day 228

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
17769	HE 9101	18 35.5	26 06	Obj	K105-B	100E	22.8	19 48	19 50	
17775	HE 18104	18 13.9	25 11	"	"	"	22.8	19 53	19 57	
17766	AR 10151	19 21.7	30 10	"	"	"	22.8	20 04	20 44	
17767	AG 11571	20 39.7	24 21	"	"	"	22.8	20 48	22 06	
17768	HD 21184	24 15.2	25 17	"	"	"	22.0	22 11	22 51	
17769	HD 27227	28 45.1	30 15	"	"	"	22.8	22 54	30 14	
17770	HD <sup>2713</sup> <del>2722</del>	00 25.8	<sup>27 34</sup> <del>28 16</del>	"	"	"	22.8	00 17	01 17	
17771	HD 4311	00 40.5	+25 38	"	"	"	22.1	01 15	01 45	
17772	HD 7252	01 08.6	+25 17	"	"	"	22.0	01 47	02 41	
17773	HD 13757	02 09.3	+28 19	"	"	"	22.0	02 50	03 08	
17774	HD 17674	02 45.1	+27 52	"	"	"	22.0	03 05	03 35	
17775	HD 20923	03 00.4	+20 00	"	"	"	22.0	03 38	05 08	
	FOCUS TEST O-T.B.									

Dome Temp.  
Focus  
Dome Temp.  
Hour Angle  
End

Dome Temp. 72

Transparency Conditions *hazy*

396

Focus 12740

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
113W	24 47	1-0	8.82	EO	H1	1725 SA	1 wk
135W	25 16	2	8.82	EO	1-1-1		1 wk
134W	25 16	1-2	8.82	EO	1-1-1		1 wk
154W	26 31	1-2	9.3	K0	1-1-1	<i>Hydrogen</i>	1 wk
257W	25 30	1-2-3	9.65	K2	1-1-1		good
218W	26 21	0	8.0	K2	1-1-1		good
107W	27 50	1+	8.60	G0	1-1-1		good
134W	25 55	1+	8.49	K2	1-1-1		1 wk
139W	25 53	0+	8.51	G5	1-1-1		good
114W	28 27	1-	7.87	G5	1-1-1	<i>base very good</i>	good
110W	30 05	0+	7.64	G5	1-1-1		good
129W	30 09	0+	8.86	K2	1-1-1		good

OK

Oct-2  
 13

MC	SC	MTW	STW	SW
-16.8	+10.2	-16.8	+0.6	+0.4

397

Date Wed Oct 9/5 Observer Bru Julian Day 3559

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
17776	MP 186223	19 38.0	26 57	"	E103aO	008	12.0	19 26 <del>20 26</del>	20 16	1
17777	186260	19 382	26 50	"	"	"	12.0	20 19	Est 20 50	2
<del>17777-A</del> 17778	<del>209680</del>	22 00 1/4	29 28	"	"	"	11.5	22 10		3
	Found at		07E							

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
0111W	27 04	<0	8.75	K0	1-1-1	AG	
—	26 58	0	8.84	G5	1-1	Set 7 (as in 128722) (mag. 8.84) (5)	
	<del>29 43</del>	<del>0-1</del>	<del>8.98</del>	<del>K5</del>	<del>1-2</del>	Cloud clearing after 2200. Heavy cloud again at 2230 as cloud down.	
		0-				4 PH 0 no plates. W. M.	



Dome Temp.....52.....

Focus.....12.940.....

Dome Temp.....

Transparency Conditions .. Considerable ..

Cloudy @ sunset

clearing (I think)

400

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 <sup>h</sup> 32	+27° 19'	0	9.77	KO	1-1-1	SAE 35	wk
0 <sup>h</sup> 54	+28° 30'	0	7.54	G5	1-1-1	AG 25 Cloud thickening	too wk
					4/2	Thicker & thicker - N.G., 2 PH loaded + 1 Box plates H on M	





Dome Temp. 55°

Transparency Conditions .....

402

Focus 12.940

Dome Temp. ....

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 15 <sup>m</sup> W	3 3 17	0-	8.43	G5	1-1-1	A.B. 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 1 plate)	good
			<del>8.42</del>	<del>G5</del>			
						SAT, Oct 7/5, 1950 - On 8 30 in. demonstrated 74.5 in. obj. 75 mm. lens, tried to show up 19 40, but the conditions were cloud, which gradually thickened	
						MON, Oct 9/10, 1950 - Faint - W. W.	



Dome Temp. 46°

Focus 12.940

Dome Temp. 35°

Transparency Conditions.....

404

Clouds till 18<sup>h</sup> 25<sup>m</sup>. 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. - 2<sup>nd</sup>

Ending Time  
L.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 35 00 45W	26° 42'	0	8.70	K0	1-1-1	Seeing not very good. (2 haze) AG 25	.....
22 43 21 23W	29 28	0	8.77	K0	1-1-1	Seeing improving - then back to bad. AG 25	.....
23 50 00 51W	30 37	0	8.70	G5	1-1-1	AG 25	.....
24 01 195W	25 34	0-1-0	8.99	G5	1-1-1	" " R.A. clamp now working 00 00 haze coming in from South-west. seeing extremely poor 9 11 <sup>h</sup> loaded, 5 in a box.	.....



Dome Temp. +43°F

Focus 12.940

Dome Temp. -38°F

Transparency Conditions

Cleaning faintly well  
towards 0300 EST.

406

Light Aurora

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 78 W	+27 31	0	8.49	G0	1-1-1	AE 25	good
1 01 W	+28 35	0	8.26	G5	1-1-1	" "	fine
5 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
						4 MW banded, 1 white in line, 1 full box in N. pier	
						Oct. 15.	
						MTW ~ -30° rest.	STW +0.2

407.

Date Sun Oct 15/16 Observer Pro - 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.
17789	HD 152218	19 18.5	26 58	1-12'	E103a-O	.008	12.2	1838	193	4
17790	197227	20 37.3	28 58	"	"	"	12.2	1942	2039	1
17791	201396	21 03.9	25 19	"	"	"	12.1	2038	2147	2
17792	A.C. 13167	22 10.1	25 10	"	"	"	12.0	2151	2256	3
17793	366	00 32.6	25 18	"	"	"	12.0	2307	23 58	4
17794	H.D. 7308	01 08.2	25 42	"	"	"	+12.0	00 01	00 59	1
17795	AC 1158	02 04.5	29 20	"	"	"	+12.0	01 02	02 00	2
17796	H.D. 18450	02 52.9	26 22	"	"	"	+12.0	02 03	02 37	3
17797	32947	04 58.2	30 19	"	"	"	+12.0	03 05	04 25	4
17798	{ " 39713	05 49.2	29 09	"	"	"	+12.0	04 28	05 28	1
	{ Focus Int									
						O T B				

Dome Temp  
Focus 12.9  
Dome TempHour Angle  
End







Dome Temp. +50°F

Transparency Conditions

Fair

410

Focus 12,940

Dome Temp. +47°F

(outside 47°F)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:24	1 28W	29 15	0	8.23	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	A.G. 25 comp. 500 stars	
1:31	1 12W	27 17	0	8.43	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" comp. 500 stars	
1:37	1 05W	29 30	0	8.61	Ko	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Light clouds, haze.	
1:43	0 57W	29 41	1-2	8.77	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Light cloud, haze.	1 star
1:50	1 42W	29 26	1-2	8.33	G5	1-1-1 4/2	" Considerable haze, increase with strong N-NE wind, temp. down outside rising occasional cloud during the exposure	2 stars
							2 PH's loaded, 8 in a box.	
							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-

Sat 2  
271Date 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-10320	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
	<del>17 11 23</del>	<del>07 01.8</del>	<del>+29 09</del>	"	"	"	"	"	"	1
	FOCUS TEST			O. T.	B.					

Dome Temp  
Focus... 12.5  
Dome TempHour Angle  
End

Dome Temp. +54°F

Transparency Conditions Good

412

Focus 12.940

Very high wind.

Dome Temp.

Ending Time  
E.S.T.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 31W	+27 31	0-1	8.62	G5	1-1-1	AG 25	
2 17W	+26 11	0-1	8.56	K0	1-1-1	" "	
			<del>8.93</del>	<del>G5</del>		" "	
					9/2	Clouds from N. 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	I 12 $\frac{1}{2}$	E103a:0	SIT 000	+13.0 <sup>c</sup>	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 311	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 Spot									
					O.T.B.					

Home Temp. +51°F

Transparency Conditions Good

4/4

Docus 12:40

Home Temp.

3575

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21:44	1 <sup>W</sup> 20	+25 39	0!	8.51	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	* PH 1 USED IN TRIAL EXP FOR ABC FILTER AG 25 Looked rather faint for this mag & sp.	good
21:59	1 <sup>W</sup> 20	+28 39	0	8.77	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
22:24	1 <sup>W</sup> 13	+27 48	0	8.69	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	AG 25	good
23:49	2 <sup>W</sup> 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
02:28	1 01W	+26 52	0	8.33	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
03:03	1 54W	+30 19	0-1	8.33	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
03:44	0 42W	+26 42	0-1	8.44	K2	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" Hydro went off at 03.57	good
04:06	1 26W	+26 24	0-1	8.11	G5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	" on again at 4.06	good
06:44	1 31W	27 16	0	8.02	K0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	"	good
						3/e	4 PHs loaded + 4 <u>will use</u> 1+ on M	



4761

Ending Time  
E.S.T.



417

418