



Red. Dist. $23^{\circ} 01''$
Ross Area $+30'$

$21^h 60^m$
 14
 $21^h 46^m$

Triple Star

$212^h 42.5^m$
 $2+10^{\circ} 37'$

$26^h 49.4^m$
 $2+8^{\circ} 33'$

Hubble Comet

1937 Aug. 15

$\{ 22^h 42^m$
 $\{ -22^{\circ} 06'$

No. _____

Name _____

Remarks: _____

H.S.R.
 $5^{\circ} 02'' + 15^{\circ} 04'$
702 14 56
902 14 50

Rich Nebular Fields for 13''

Plate 407 Region $\{ 212^h 27^m$
 $\{ 2+12^{\circ} 55'$
80 S.N.

May 15, 2nd 1936
Feb. 10, 1937 2nd

8 Com Ber. $\{ 212^h 24^m$
 $\{ 2+28^{\circ} 10'$
12 S.N.

May 16, 2nd

Bet. 8 & 8 1/2 W. Maj $\{ 211^h 30^m$
 $\{ 2+55^{\circ} 00'$
22 S.N.

June 8, 2nd

* #67 guide $\{ 211^h 58^m$
 $\{ 2+43^{\circ} 20'$
20 S.N.

May 17 1st

Remarks

Name

No.

* Aug +42° on 12^h 05^m 15^s com

Edmondson *Quercus* var. *mon* #16
4h 3^m 30^m when $h = 25^\circ$
 $\alpha 6^h 17.8$ $\delta +7^\circ 40'$
 $\epsilon 18$ $+7 23$

Nov. 9 12^h 08^m Mid. Eq. for $h = 34^\circ$

272
4h 4^m 50^m E (7^h 57^m for 10^h 00^m)
3 26.8 8^h 54^m 10^h
3 18. 7^h 32^m "
25 46.0 10^h 04^m "

B. Bagei (Algol)

$\alpha 3^h 04^m 04^s$
 $\epsilon +40^\circ 42' 53''$

R Aquarii Exposures:

Chamber H/S Sp. S. Blue 10^m
103 E #28 filter P. 15^m +
103 G #12 filter P. 15^m +

R Mon. $\left\{ \begin{array}{l} \alpha 6^h 35.7 \\ +8^\circ 47' (1940) \end{array} \right.$

11 5 13 1/2^m

new obj Oct 9 $\left\{ \begin{array}{l} \alpha 18^h 46^m 42^s \\ \delta +14^\circ 15' \end{array} \right.$
5:00 P.M.

Edm. Ord. Var. Stars c. 4. T.

1930 $\left\{ \begin{array}{l} 7^h 14.0^m \\ +1^\circ 42' \end{array} \right.$ 12 5 16^m Ed?

1940 $\left\{ \begin{array}{l} 7^h 03.6^m \\ -25^\circ 48' \end{array} \right.$ 12 5 14 Ed?

? Nova? 1930 $\left\{ \begin{array}{l} 12^h 16.9 \\ -18^\circ 05' \end{array} \right.$ Mar 22 '31 = 12
Mar 17, 20 = 17
make a year for constant and 1930

EXPOSURE RATIOS

$\rho = \sqrt[10]{2.512} = \frac{1}{10}$ Pog. Ratio

1.0	2 ^m	30 ^s .7
.1	2	45.2
.2	3	1.2
.3	3	18.1
.4	3	37.8
.5	3	58.9
.6	4	21.9
.7	4	47.2
.8	5	14.9
.9	5	45.4
2.0	6	18.7
.1	6	55.2
.2	7	35.3
.3	8	19.2
.4	9	7.4
.5	10	0.0
.6	10	57.9
.7	12	1.4
.8	13	11.0
.9	14	27.3
3.0	15	51.0
.1	17	22.7
.2	19	3.4
.3	20	53.7
.4	22	54.7
.5	25	7.3
.6	27	32.8
.7	30	12.2
.8	33	7.1
.9	36	18.8
4.0	39	49.0

POGSON 1/2 MAG. EXPOSURE RATIO

1 ^m 00 ^s	1.0	1.6
1 35.1	2.5	2.512
	3.98	3.98
2 30.7	6.31	6.31
	10.00	10.00
3 58.9	15.85	15.85
	25.12	25.12
6 18.7	39.81	39.81
	63.1	63.1
10 00	110	110
	181	181
15 51.1		
25 7.4		
39 47.6		
63 2.0		
100 00		

ook

*3/16" diam pipe
and 2 1/2" long
on 24.75*

*make similar by 2.
with dia, tall etc
Send by 8/3*

Exposure Ratio

2/10 Pog. Ratio = 1.202277

sec.	s	
1.0	19.05	
1.2	22.91	
1.44	27.54	
1.74	33.11	
2.09	39.82	
2.51	47.87	
3.02	57.56	
3.63	69.20	1 ^m 9 ^s .2
4.36	83.20	1 23.2
5.25	100.03	1 40.0
6.31	120.23	2 00.2
7.58	144.55	2 24.5
9.12	173.78	2 53.8
10.97	208.93	3 28.9
13.18	251.20	4 11.2
15.85	302.01	5 2.0

*2261 (2 6" 35.8
R Mon. 78+8" 47.7 (Mag 9.3 < 13)*

For Columnar Books of this Size.

Made in U. S. A.

S.M.

end

8^h 24 01^s Exp.

28 16

32 58

38 47

45 45

52 55

9^h 02^m 19

13 00

26 01

Begin 9^h 36^m to 9^h 49^m 11^sEnd 10^h 01^m 03^s11^m 07^s

19 35

26 19

32 15

37 22

41 38

45 01

48 31

PLATE NUMBER	REGION		DATE 1936	H.A. at end of Exposure	EXPOSURE TIME	WATCH ERROR
	GUIDE STAR	R.A. DEC.				
173		12 ^h 17.0 +6° 00'	May 8	0 ^h 12 ^m W	8 ^h 48 ^m 45 ^s to 9 ^h 48 ^m 45 ^s	15 ^{sec} slow
174	Fine Regions on one plate. Out of focus blue images.	11 ^h 56.4 -34° 58'	Monday May 11	0 ^h 07 ^m W	8 ^h 57 ^m 12 ^s to 9 ^h 12 ^m 12 ^s	12 ^{sec} fast
		16 ^h 28 ^m +1° 24'	"	3 ^h 56.5 E	9 ^h 23 ^m 12 ^s to 9 ^h 40 ^m 12 ^s	"
		12 ^h 50.7 +75° 00' below pole	"	6 ^h 07 ^m W	9 ^h 51 ^m 12 ^s to 10 ^h 06 ^m 12 ^s	"
		8 ^h 57.5 -0° 12'	"	4 ^h 35.5 W	10 ^h 15 ^m ending 10 ^h 31 ^m 72 ^s	"
		14 ^h 04 ^m +35° 03'	"	0 ^h 04 ^m E	10 ^h 33 ^m 12 ^s to 11 ^h 08 ^m 12 ^s	"
175		14 ^h 04 ^m +35° 03'	Monday May 11	0 ^h 32 ^m W	11 ^h 30 ^m 12 ^s to 11 ^h 45 ^m 12 ^s	"
176(ab)		12 ^h 27.8 +12° 54 ^m	Monday May 15	2 ^h 34.5 W	9 ^h 24 ^m 30 ^s to 11 ^h 54 ^m 30 ^s	51 ^{sec} fast
177(ab)	Coma Ber. Cluster	12 ^h 25.3 +27° 38'	Monday May 16	2 ^h 04 ^m W	9 ^h 15 ^m 06 ^s to 11 ^h 15 ^m 06 ^s	06 ^{sec} fast
178 ab		11 ^h 59.0 +43° 21'	Monday May 17	1 ^h 15 ^m W	9 ^h 01 ^m 12 ^s to 10 ^h 01 ^m 12 ^s	12 ^{sec} fast
179	Peltier Comet Exp. Made 3:27 AM. Monday	23 ^h 55.8 +73° 28'	Monday May 17	4 ^h 52 ^m E	15 ^h 27 ^m 30 ^s to 15 ^h 47 ^m 25 ^s	16.2 fast
180	Friday AM at 3:00-4:00 Peltier Comet	23 ^h 54.8 +73° 32'	Monday May 18	4 ^h 37 ^m E	15 ^h 03 ^m 31 ^s to 15 ^h 43 ^m 32 ^s	32 ^{sec} fast
181		"	Monday May 18	"	15 ^h 48 ^m 33 ^s to 15 ^h 58 ^m 00 ^s	"
182	Peltier Comet 1936a	0 ^h 01.6 +72° 49 ^m	Monday May 21	4 ^h 48 ^m E	15 ^h 20 ^m 07 ^s to 15 ^h 40 ^m 20 ^s	07 ^{sec} fast
183	Friday AM at 3:00-4:00 between	"	Monday May 21	See Above	15 ^h 46 ^m 07 ^s to 15 ^h 51 ^m 15 ^s	"
184	Peltier Comet - Wednesday AM 3:00-4:00	11 ^h 31.7 +55° 09'	Monday May 25	5 ^h 01 ^m W	9 ^h 53 ^m 00 ^s to 10 ^h 54 ^m 00 ^s	30 ^{sec} fast
185	Peltier Comet	0 ^h 05.8 +72° 22'	Monday May 26	"	15 ^h 18 ^m 06 ^s to 15 ^h 39 ^m 05 ^s	None
186	Between β & γ Wood Mag.	0 ^h 05.0 +72° 22'	Monday May 26	4 ^h 20 ^m E	15 ^h 44 ^m 00 ^s to 15 ^h 54 ^m 00 ^s	None
187 ab	Nova Herculis Field.	11 ^h 31.6 +55° 08'	Monday June 8	3 ^h 55.5 W	9 ^h 13 ^m 50 ^s to 10 ^h 43 ^m 50 ^s	10 ^{sec} slow
188 ab	7 Polar Sequences	18 ^h 05.5 +45° 02'	Monday June 9	1 ^h 00 ^m E	9 ^h 23 ^m 04 ^s to 11 ^h 20 ^m 04 ^s	04 ^{sec} fast
189	Nova Herculis (Yellow)	18 ^h 05.5 +45° 00'	Monday June 10	"	9 ^h 42 ^m 25 ^s to 9 ^h 50 ^m 12 ^s	12 ^{sec} fast
190	Peltier's Comet	18 ^h 05 +45° 58'	Monday June 10	2 ^h 14 ^m E	9 ^h 52 ^m 12 ^s to 10 ^h 00 ^m 12 ^s	"
191	"	0 ^h 10 ^m +70° 52'	Monday June 10	7 ^h 05 ^m E	10 ^h 19 ^m 12 ^s to 11 ^h 02 ^m 12 ^s	"
192	"	0 ^h 05 ^m +70° 49'	Monday June 10	6 ^h 45 ^m E	11 ^h 52 ^m 00 ^s to 12 ^h 15 ^m 00 ^s	15 ^{sec} fast at end
193	M13	16 ^h 38.5 +36° 22'	Monday June 11	1 ^h 10 ^m E	12 ^h 22 ^m 12 ^s to 12 ^h 30 ^m 12 ^s	20 ^{sec} fast
194	Peltier's Comet	0 ^h 05 ^m +70° 50'	Monday June 11	7 ^h 08 ^m E	10 ^h 15 ^m 30 ^s to 10 ^h 35 ^m 20 ^s	"
195	"	0 ^h 05 ^m +70° 50'	Monday June 11	"	11 ^h 33 ^m 21 ^s to 12 ^h 03 ^m 22 ^s	"
196	Between ε and β Wood Mag.	0 ^h 05 ^m +70° 50'	Monday June 11	"	12 ^h 10 ^m 21 ^s to 12 ^h 22 ^m 26 ^s	"
197	Peltier's Comet	11 ^h 30 ^m +55° 10'	Monday June 15	4 ^h 54 ^m W	9 ^h 26 ^m 52 ^s to 11 ^h 13 ^m 51 ^s	8 ^{sec} slow
198	"	0 ^h 10 ^m +69° 41'	Monday June 15	6 ^h 43 ^m E	11 ^h 56 ^m 54 ^s to 12 ^h 06 ^m 54 ^s	6 ^{sec} slow
199	Between ε and β Wood Mag.	0 ^h 10 ^m +69° 41'	Monday June 15	6 ^h 05 ^m E	12 ^h 14 ^m 54 ^s to 12 ^h 44 ^m 57 ^s	"
200	Peltier's Comet	11 ^h 30 ^m +55° 10'	Monday June 17	5 ^h 09 ^m W	9 ^h 26 ^m 12 ^s to 11 ^h 20 ^m 12 ^s	12 ^{sec} fast
201	Double Exp.	0 ^h 9.8 +70° 00'	Monday June 17	7 ^h 02 ^m E	11 ^h 39 ^m 12 ^s to 11 ^h 49 ^m 12 ^s	15 ^{sec} fast
	"	13 ^h 07 ^m +15° 42'	Monday June 18	3 ^h 31 ^m W	11 ^h 00 ^m 00 ^s to 11 ^h 15 ^m 00 ^s	21 ^{sec} fast
	"	18 ^h 53 ^m +15° 10'	Monday June 18	1 ^h 56 ^m E	11 ^h 25 ^m 12 ^s to 11 ^h 30 ^m 12 ^s	"
202	Peltier's Comet	0 ^h 08 ^m +70° 10'	Monday June 18	6 ^h 48 ^m E	11 ^h 48 ^m 00 ^s to 11 ^h 58 ^m 00 ^s	"
203	Nova	22 ^h 15 ^m +55° 19'	Monday June 19	2 ^h 30 ^m E	14 ^h 02 ^m 00 ^s to 14 ^h 34 ^m 00 ^s	30 ^{sec} fast
204	"	22 ^h 15 ^m +55° 19'	Monday June 19	2 ^h 03 ^m E	14 ^h 36 ^m 00 ^s to 14 ^h 46 ^m 00 ^s	"

73 57
76 57

INSTRUMENT Aperture	PLATE EMULSION	DEVELOPMENT			SEEING		Position of telescope with Axis	Position of Writing on Plate	Observer	REMARKS
		KIND	TIME	TEMP.	TRANS.	STEAD				
13"	Imperial 8X10 En 5815C	Ross Metal	7m	68°	Fair	3	W	N	H.G.	Old plate moon rising on last 10 minutes hence some fog.
13"	Hammer Ultra Rapid 5810	"	"	"	Poor	0	W	N	H.G.	N.W. 1/4 of plate exposed.
"	"	"	"	"	Fair	4	"	"	"	S.W. 1/4 " " "
"	"	"	"	"	Fair	3	"	"	"	S.E. " " "
"	"	"	"	"	Poor	2	"	"	"	N.E. " " "
"	"	"	"	"	Good	6	"	"	"	Center of Plate open.
5" Cooke 13"	Hammer U.R. Pro 5810 En 5803	Ross Metal	7m	68	Good	6	"	"	H.G.	check plate with Cooke below
13"	Hammer U.R. Pro 5810 En 5803	Wallace Hydro	9m	70-66	Good	8-3	"	"	H.G.	"
13"	Hammer U.R. Pro 5810 En 5803	"	8m	71-68	Good	4	"	"	H.G.	"
13"	Hammer U.R. Pro 5810 En 5803	"	"	73-70	Good	3	"	"	"	Out of balance had to stand on P.A. to guide
13"	Hammer U.R. Pro 5810 En 5803	R. Metal Hyd	7m	68°	Good	0	"	"	"	"
"	4x5 Imperial	Wallace Hydro	8m	"	Good	2	"	"	"	"
"	4x5 Imperial	"	8m	"	Good	2	"	"	"	"
"	4x5 Imperial	"	"	"	Good	2	"	"	"	Change late with other plates to 21
"	4x5 Eastman 40	"	"	"	"	2	"	"	"	got marked on this day too.
"	8x10 Kodak old	"	"	"	Good	4	"	"	"	"
"	4x5 Imperial	Wallace Hydro	8m	70	Good	5	Jap	"	"	"
"	4x5 Eastman 40	"	"	"	Good	4	"	"	"	"
13"	4x5 Imperial	"	"	"	Good	4-2	W	"	"	Plate stiffish under
13"	8x10 Imperial/Bolt	"	10m	"	Good	4	"	"	"	"
13"	8x10 Kodak	Ross Metal	8m	"	Good	8	"	"	"	"
13"	3 1/2 x 4 1/2 Kodak	"	"	"	"	6	"	"	"	Yellow Eastman G filter + P.V. focus & guiding on faint Comet
"	4x5 Imperial	Wallace Hydro	"	"	"	5	Jap E	"	"	"
"	4x5 East 40	"	"	"	"	5	"	"	"	"
13"	4x5 W.W. Hyper Pan	Ross Metal	"	"	Good	5	W	"	"	"
13"	4x5 Imperial	Wallace Hydro	"	"	"	5	Jap & E	"	"	Trailing due to screw take up.
"	4x5 East 40	"	"	"	"	5	"	"	"	"
13"	4x5 Kodak	"	"	"	Good	4-0	E	S	"	an old 4x17 too long for holder, hence cut, and marked and labeled.
13"	4x5 East 40	"	"	"	Good	2	Jap	"	"	"
13"	4x5 Imperial	"	"	"	Good	2	Jap.	"	"	"
13"	4x5 Kodak	"	"	"	Good	3	E	S	"	"
13"	4x5 East 40	"	"	"	"	3	Jap	"	"	"
13"	8x10 Imperial	"	"	"	Good	3	W	"	"	West 1/2 of plate open
13"	"	"	"	"	Good	3	"	"	"	East
13"	4x5 East 40	"	"	"	"	2	Jap.	"	"	low clouds at Hampton
13"	4x5 Imperial	"	"	"	Very Poor	"	"	"	"	100% overcast over 70% of the time. Poor visibility. Break in clouds for this exp.
13"	8x10 Imperial	"	"	"	Very Poor	"	"	"	"	"

Negative Number	REGION		DATE 1936	H.A. End of Exp	Exposure Time old Astronomical Day	WATCH ERROR	Instrument Aperture	PLATE Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Position of Writing Plate	Observer	REMARKS
	Guide Star or Obj	R. A.							Dec.	Kind	Time	Temp.	Trans.				
236	Pleiades		Sept 8	4 ^h 00 E	1 ^m clock running 4 ^m Fairchildney 12 ^h 45 ^m begin		13"	4x5 East 40	Wallace Hydro	8 ^m	69°	Cloudy	good	W	N	H.L.G.	Trail plate for scale means for V.M.S. for sacrifice of part.
237	"		"	"	30 sec clock running 2 ^m 4 th trail begins 13 ^h 01 ^m		13"	"	"	"	"	"	"	"	"	"	"
P.V. 238	Nova Hercules	18 ^h 05	Sept 13 Sunday	2 ^h 05 ^m W	8 ^h 46 ^m 00 ^s to 9 ^h 01 ^m 00 ^s	40 sec fact	13"	4x5 Hamerill R.P.	Ross Metal	70	7 1/2	Vgood	2	"	"	"	"
239	"	+45 52	Sept 13	3 ^h 00 W	9 ^h 10 ^m 00 ^s to 10 ^h 00 ^m 00 ^s		13"	3/4 x 4/8 Iso Presto	"	"	"	"	2	"	"	"	"
240	Hair. Star Region	19 ^h 01 ^m	Sept 14	1 ^h 33 W	8 ^h 28 ^m 00 ^s to 9 ^h 26 ^m 30 ^s	40 sec fact	13"	4x5 Ham U.R.P.	"	"	"	good	1	"	"	"	"
241	Double Exp { Hair. Star H.	20 ^h 00 ^m 21 ^h 00 ^m	Sept 15	0 ^h 48 ^m W 0 ^h 55 ^m W	8 ^h 35 ^m 00 ^s to 9 ^h 35 ^m 00 ^s 9 ^h 42 ^m 00 ^s to 10 ^h 42 ^m 00 ^s	50 June	13"	5x7 Ham U.R.P.	"	"	"	good good	4-5 3-4	"	"	"	N/2 plate open
242	Tamm Nova	+15 04	Sept 21	1 ^h 22 ^m W	8 ^h 46 ^m 00 ^s to 9 ^h 01 ^m 00 ^s	on time	13"	4x5 Ham U.R.P.	Wallace Hydro	8 ^m	68°	Fair	0	"	"	"	"
243	Jackson Comet	-13 10	Sept 21	1 ^h 15 ^m E	9 ^h 53 ^m 00 ^s to 10 ^h 08 ^m 00 ^s	"	13"	3/4 x 4/8 Ham U.R.P.	"	"	70°	Fair	0	"	"	"	"
P.V. 244	Polar Sequence Tamm Nova	+90 00 +10 05	Sept 21	0 ^h 27 ^m E 3 ^h 07 ^m W	10 ^h 13 ^m 30 ^s to 10 ^h 27 ^m 30 ^s 10 ^h 31 ^m 00 ^s to 10 ^h 45 ^m 00 ^s	"	13"	3/4 x 4/8 Iso Presto	Ross Metal	9 ^m	69°	Fair	0	"	"	"	"
245	Tamm Nova North Polar Sequence	+10 02 +90 01	Sept 21	3 ^h 16 ^m W 0 ^h 08 ^m W	10 ^h 49 ^m 00 ^s to 10 ^h 54 ^m 00 ^s 10 ^h 57 ^m 00 ^s to 11 ^h 02 ^m 00 ^s	"	13"	4x5 Ham U.R.P.	"	"	"	"	0	"	"	"	"
246	Jackson Comet	-13 08	Sept 21	0 ^h 07 ^m W	11 ^h 19 ^m 00 ^s to 11 ^h 30 ^m 00 ^s	03 sec fact	13"	4x5 East 40	Wallace Hydro	8 ^m	70°	"	0	"	"	"	"
247	"	-13 02	Sept 22	1 ^h 46 E	9 ^h 03 ^m 15 ^s to 9 ^h 24 ^m 00 ^s	13 sec fact	13"	Eclipse Soft 4x5	"	8 ^m	70°	Good	1+	"	"	"	"
248	Tamm Nova	+1 00	"	2 ^h 44 W	9 ^h 47 ^m 00 ^s to 10 ^h 17 ^m 00 ^s	14 sec fact	13"	8x10 Ham U.R.P.	"	"	"	"	0	E	S	"	"
249	Jackson Comet	-13 03	Sept 22	0 ^h 10 E	10 ^h 36 ^m 00 ^s to 11 ^h 10 ^m 00 ^s	"	13"	4x5 Eclipse Soft	"	"	"	"	3	W	N	"	"
250	Polar Sequence Tamm Nova	+20 00 +20 00	Sept 23	1 ^h 44 W	9 ^h 09 ^m 00 ^s to 9 ^h 14 ^m 03 ^s 9 ^h 18 ^m 00 ^s to 9 ^h 23 ^m 03 ^s	21 sec fact	13"	4x5 Ham U.R.P.	Ross Metal	7 ^m	69	Good	0	"	"	"	"
251	Polar Sequence Tamm Nova	90 00 +20 00	Sept 23	2 ^h 30 E 2 ^h 10 W	9 ^h 26 ^m 00 ^s to 9 ^h 31 ^m 00 ^s 9 ^h 35 ^m 00 ^s to 9 ^h 40 ^m 00 ^s	"	"	"	"	"	"	Poor	0	"	"	"	"
P.V. 252	Tamm Nova Polar Sequence	+20 00 90 00	Sept 25	1 ^h 50 W 0 ^h 48 E	8 ^h 59 ^m 00 ^s to 9 ^h 14 ^m 00 ^s 9 ^h 16 ^m 30 ^s to 9 ^h 31 ^m 30 ^s	37 sec fact	13"	3/4 x 4/8 Iso Presto	"	"	"	good	2	"	"	"	new 5x7 filter and P.V. from for Iso Presto
P.V. 253	Polar Sequence Tamm Nova	90 00 +20 00	Sept 25	0 ^h 56 E 2 ^h 33 W	9 ^h 33 ^m 00 ^s to 9 ^h 43 ^m 00 ^s 9 ^h 46 ^m 00 ^s to 9 ^h 56 ^m 00 ^s	"	"	3/4 x 4/8 Iso Presto	"	"	"	good	2	"	"	"	"
254	Tamm Nova Polar Sequence	+20 00 90 00	Sept 25	3 ^h 00 W 0 ^h 37 E	10 ^h 18 ^m 00 ^s to 10 ^h 23 ^m 00 ^s 10 ^h 26 ^m 30 ^s to 10 ^h 31 ^m 30 ^s	"	13"	4x5 Ham U.R.P.	"	"	70	good	2	"	"	"	tin side water
255	Polar Sequence Tamm Nova	90 00 +20 00	Sept 25	5 ^h 24 W	10 ^h 34 ^m 00 ^s to 10 ^h 39 ^m 00 ^s 10 ^h 42 ^m 00 ^s to 10 ^h 47 ^m 00 ^s	"	13"	"	"	"	"	"	"	"	"	"	"
256	Tokyo Nova Jackson	-34 17	Oct 7	3 ^h 04 W	8 ^h 14 ^m 35 ^s to 8 ^h 24 ^m 33 ^s	27 sec fact	13"	3/4 x 4/8 Iso Presto	"	"	"	Good	0	E	S	"	"
257	Tamm Nova	+2 00	Oct 7	2 ^h 16 W	8 ^h 40 ^m 35 ^s to 8 ^h 50 ^m 33 ^s	"	13"	4x5 Eclipse Soft	"	"	"	"	0	"	"	"	"
258	Tokyo Nova	-34 18	Oct 9	2 ^h 28 W	7 ^h 30 ^m 15 ^s to 7 ^h 38 ^m 34 ^s 7 ^h 36 ^m 00 ^s to 7 ^h 38 ^m 31 ^s 8 ^h 03 ^m 00 ^s to 8 ^h 07 ^m 10 ^s	On time	13"	4x5 Ham U.R.P.	"	"	69	"	2	W	N	"	1935 - 1 m
P.V. 259	"	"	Oct 9	"	"	"	"	3/4 x 4/8 Iso Presto	"	"	"	"	"	"	"	"	new 5x7 filter
P.V. 260	Tamm Nova Polar Sequence	+20 00 +90 00	Oct 9	2 ^h 28 W	8 ^h 42 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	"	"	"	"	"	"	Vgood	4	"	"	"	new 5x7 filter 9 ^h 01 ^m 10 ^s to 9 ^h 10 ^m Pole Seq.
261	Tamm Nova	+2 00	Oct 9	0 ^h 13 W 3 ^h 12 W	9 ^h 20 ^m 00 ^s to 9 ^h 28 ^m 00 ^s 9 ^h 31 ^m 01 ^s to 9 ^h 39 ^m 00 ^s	"	"	4x5 Ham U.R.P.	"	"	"	Vgood	4	"	"	"	trail of huge in 2nd out of plate
262	Polar Sequence	+90 00	Nov. 4	0 ^h 40 E	7 ^h 54 ^m 00 ^s to 8 ^h 05 ^m 00 ^s	10 sec fact	"	8x10 Iso Presto	Wallace Hydro	8	70°	Good	good	"	"	"	"
Scale P.V. 263	"	23 15 Pole	Nov 4	10 ^h 00 W	10 ^h 00 ^m 00 ^s to 10 ^h 00 ^m 00 ^s	"	"	3/4 x 4/8 Iso Presto	Ross Metal	9 ^m	70°	"	"	"	"	"	Walter King Blue #1 filler
" P.V. 264	"	1 ^h 00 Pole	Nov 4	0 ^h 19 W	10 ^h 00 ^m 00 ^s to 10 ^h 00 ^m 00 ^s	"	"	"	"	"	"	"	"	"	"	"	new 5x7 yellow Filter #15
265	R. Aquarii	-15 34	Nov. 7	1 ^h 30 W	10 ^h 20 ^m 00 ^s to 10 ^h 28 ^m 00 ^s	30 sec fact	"	"	"	"	"	good	0	"	"	"	N.E. Wind strong
266	"	"	Nov 7	1 ^h 45 W	10 ^h 32 ^m 30 ^s to 10 ^h 44 ^m 30 ^s	"	"	4x5 Imperial Ed 88	"	"	"	"	0	"	"	"	"
P.V. 267	Polar Sequence R. Aquarii	90 00 +15 34	Nov. 9	0 ^h 40 E	7 ^h 21 ^m 00 ^s to 7 ^h 31 ^m 00 ^s	54 sec fact	"	3/4 x 4/8 Iso Presto	"	"	"	Vgood	2-1	"	"	"	5x7 #15 filter
268	R. Aquarii Polar Sequence	+15 34 90 00	Nov 9	1 ^h 07 E	7 ^h 35 ^m 00 ^s to 7 ^h 45 ^m 00 ^s 7 ^h 48 ^m 00 ^s to 7 ^h 56 ^m 00 ^s	"	"	4x5 Imperial Ed 88	"	"	"	"	2	"	"	"	"
269	Pleiades	+24 10	Nov 9	0 ^h 45 E	7 ^h 59 ^m 00 ^s to 8 ^h 07 ^m 00 ^s	"	"	3/4 x 4/8 Ham U.R.P.	"	"	"	"	2	"	"	"	"

NEG No.	REGION		DATE 1936	H.A. end of exp.	* Exposure Time * old Astro. Day.	Watch Error	Instrument or Apparatus	Plate Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS	
	Guide Star or Object	R.A.							Dec.	KIND	TEMP	TIME	TRANS.					Stead.
270	R Aquarii	23h 40m	-15° 34'	Nov 10	1h 29m E	7h 12m 00s to 7h 18m 00s	13"	4x5 Imperial Ed. 83	Ross Metal	70°	6m	1 good	2	W	N	H.L.G.		
PV 271	Polar Sequence	"	90° 00'	Nov 10	1h 08m E	7h 20m 00s to 7h 26m 00s	"	"	"	"	"	"	2	"	"	"	new #17 #15 filter - fogged	
272	Polar Sequence	"	90° 00'	Nov 10	1h 08m E	7h 31m 00s to 7h 39m 00s	"	"	"	"	"	"	"	"	"	"	Plate Not 100% in holder	
273	Pleiades	3h 44m	+24° 00'	Nov 10	1h 08m E	7h 41m 00s to 7h 49m 00s	"	"	"	"	"	"	"	"	"	"		
274	Polar Sequence	23h 40.5	-15° 34'	Nov 10	1h 42m W	10h 12m 00s to 10h 18m 00s	"	"	"	"	"	"	1	"	"	"		
P.V. 274	R Aquarii	23h 40.5	-15° 34'	Nov 10	1h 42m W	10h 23m 00s to 10h 29m 00s	"	"	"	"	"	"	"	"	"	"		
275	Polar Sequence	3h 00m	90° 00'	Nov 10	1h 35m E	11h 02m 00s to 11h 32m 00s	"	"	"	"	"	"	4-2	"	"	"	new #17 #15 filter	
275	Edmond-Roger Variable	6h 17.7	+7° 38'	Nov 10	5h 16m E	11h 37m 00s to 12 07m 00s	"	"	"	"	"	"	0	"	"	"		
P.V. 276	Polar Sequence	3h 00m	+90° 00'	Nov 13	1h 28m E	10h 57m 00s to 11h 27m 00s	51 sec fast	"	"	"	"	"	Good	2	"	"	new #17 #15 yellow filter	
276	Ed-Rog Red Var in Mon	6h 17.7	+7° 33'	Nov 13	3h 13m E	11h 31m 30s to 12 01m 30s	51 sec fast	"	"	"	"	"	Good	2	"	"		
277	Ed-Rog Red Var. in Mon	6h 17.7	+7° 33'	Nov 13	2h 57m E	12 04m 00s to 12 34m 07s	51 sec fast	"	"	"	"	"	Good	2	"	"		
P.V. 278	Polar Sequence	6h 17.8	+7° 33'	Nov 14	3h 03m E	12 05m 35s to 12 35m 35s	On Turn	"	"	"	"	"	Good	4	"	"	old small #12 filter	
279	R Aquarii	23h 40.5	-15° 34'	Nov 16	1h 30m W	11 38m 00s to 12 08m 00s	29 sec fast	"	"	"	"	"	Good	5	"	"		
280	Polar Sequence	2h 00m	90° 00'	Nov 16	1h 58m W	10h 11m 00s to 10 16m 00s	"	"	"	"	"	"	Good	5	"	"		
P.V. 280	Ed-Rog. Var	6h 17.6	+7° 37'	Nov 16	2h 06m W	10 20m 00s to 10 42m 00s	"	"	"	"	"	"	Good	5	"	"	new #15 (37) filter	
281	Polar Sequence	"	90° 00'	Nov 16	3h 50m E	10 45m 00s to 11 10m 00s	"	"	"	"	"	"	Good	4	"	"		
281	Ed-Rog Red Variable	6h 17.6	+7° 37'	Nov 16	3h 27m E	11 15m 00s to 11 43m 00s	"	"	"	"	"	"	Good	4	"	"		
282	Polar Sequence	2h 00m	90° 00'	Nov 16	2h 57m E	11 38m 00s to 12 03m 00s	"	"	"	"	"	"	Good	0	"	"		
P.V. 283	R Aquarii	23h 40.3	-15° 34'	Nov 17	1h 47m E	9h 47m 00s to 9 52m 00s	49 sec fast	"	"	"	"	"	Good	0	"	"		
283	R Aquarii	23h 40.3	-15° 34'	Nov 17	1h 44m W	9 58m 00s to 10 03m 00s	49 sec fast	"	"	"	"	"	Good	1	"	"		
P.V. 284	Polar Sequence	2h 00m	90° 00'	Nov 17	1h 57m W	10 08m 00s to 10 16m 00s	"	"	"	"	"	"	Good	1	"	"		
284	Polar Sequence	2h 00m	90° 00'	Nov 17	0h 15m E	10 19m 00s to 10 27m 00s	"	"	"	"	"	"	Fair?	5	"	"	new #17 yellow filter	
285	R Aquarii	23h 40.3	-15° 34'	Dec. 8	1h 02m E	8 08m 00s to 8 14m 00s	3 1/2 sec slow	"	"	"	"	"	"	5	"	"		
285	R Aquarii	23h 40.3	-15° 34'	Dec. 8	1h 29m W	8 19m 00s to 8 25m 00s	"	"	"	"	"	"	"	5	"	"		
40" 286	Polar Sequence	2h 00m	90° 00'	Dec 8	1h 36m W	8 31m 00s to 8 33m 00s	"	"	"	"	"	"	"	5	"	"		
40" 286	Hav. Star Region	23h 00	-15° 12'	Dec 9	2h 37m W	8 37m 00s to 8 42m 00s	on June	42"	3x4 1/4 Iso Presto	"	"	"	Good	"	"	"	Longhand made sep. his yellow filter	
40" 287	R Aquarii	23h 40.5	-15° 34'	Dec 9	2h 12m W	8 57m 00s to 9 04m 00s	on June	42"	3x4 1/4 Imperial Ed. 83	"	"	"	Good	"	"	"		
40" 288	R Aquarii	23h 40.5	-15° 34'	Dec 9	2h 33m W	9 19m 00s to 9 24m 00s	"	"	"	"	"	"	Good	5	"	"		
40" 288	Hav. Star Reg.	23h 00	-15° 24'	Dec 9	2h 43m W	9 30m 00s to 9 34m 00s	"	"	"	"	"	"	Good	5	"	"	Very low in sky poor seeing	
40" 289	Hav. Star Reg.	23h 00	-15°	Dec 9	3h 30m W	9 40m 00s to 9 45m 00s	"	"	"	"	"	"	Good	5	"	"		
P.V. 40" 290	Hav. Star Reg.	23h 00m	-14° 58'	Dec 9	3h 40m W	9 49m 00s to 9 54m 00s	"	"	"	"	"	"	Good	5	"	"	Longhand made sep. his yellow filter	
40" 291	R Aquarii	23h 40.3	-15° 34'	Dec 11	1h 09m W	7h 11m 00s to 7 16m 00s	On June	42"	3x4 1/4 Iso Presto	"	"	"	Good	5	"	"	Some good seeing	
40" 291	R Aquarii	23h 40.3	-15° 34'	Dec 11	0h 40m W	7 20m 30s to 7 26m 30s	"	"	"	"	"	"	"	"	"	"	actual half of it	
40" 292	Hav. Star Reg.	23h 00	-14° 58'	Dec 11	0h 52m W	7 31m 30s to 7 36m 30s	"	"	"	"	"	"	"	"	"	"		
40" 293	Hav. Star Reg.	23h 00	-14° 58'	Dec 11	1h 39m W	7 46m 30s to 7 51m 30s	"	"	"	"	"	"	"	"	"	"		
293	R Aquarii	23h 40.5	-15° 38'	Dec 11	1h 19m W	7 50m 00s to 7 55m 00s	"	"	"	"	"	"	"	"	"	"		
294	Taurii	4h 18m	+19° 23'	Dec 11	1h 23m W	8 05m 00s to 8 08m 00s	"	"	"	"	"	"	"	"	"	"		
P.V. 295	Polar Sequence	"	+79° 00'	Dec 12	3h 57m E	7h 12m 36s to 7 22 36s	36 sec fast	13"	4x5 East 40	"	"	"	Good	0	"	"		
295	Polar Sequence	"	+79° 00'	Dec 12	3h 57m E	7 20m 00s to 7 36m 00s	"	"	"	"	"	"	"	14	"	"	new #17 #15 filter yellow	
P.V. 296	Taurii	"	+19° 23'	Dec 12	3h 57m E	7 30m 00s to 7 49m 00s	"	"	"	"	"	"	"	1	"	"		
296	Polar Sequence	23h 40.5	-15° 34'	Dec 12	3h 18m E	7 52m 30s to 7 62 30s	"	"	"	"	"	"	"	1	"	"		
297	R Aquarii	23h 40.5	-15° 34'	Dec 12	1h 47m W	8 20m 00s to 8 28m 00s	"	"	"	"	"	"	"	1	"	"		
297	Polar Sequence	23h 40.5	-15° 34'	Dec 12	1h 47m W	8 30m 00s to 8 38m 00s	"	"	"	"	"	"	"	1	"	"		
1937 298	R Aquarii	23h 39m	-15° 42'	1937 Jan 11	2h 07m W	8 41m 36s to 8 47 36s	19 sec fast	13"	Eastman 40	Ross Metal	69°	6 1/4	Good	0	W	N	"	big #17 filter
299	R Aquarii	"	"	1937 Jan 11	2h 07m W	8 41m 36s to 8 47 36s	"	"	"	"	"	"	"	0	"	"	"	
P.V. 300	T Taurii	4h 18m	+19° 24'	Jan 11	2h 39m W	7h 13m 20s to 7 20m 20s	"	"	"	"	"	"	"	2	"	"	"	big #17 filter
301	T Taurii	"	"	Jan 11	2h 05m E	8 05m 20s to 8 15m 20s	"	"	"	"	"	"	"	1	"	"	"	
P.V. 302	Edmond-Rog. Red. Variable	6h 17.7	+7° 38'	Jan 11	1h 28m E	8 20m 20s to 8 36m 20s	"	"	"	"	"	"	Fair	2	"	"	"	big #17 filter
303	"	"	"	Jan 11	0h 38m E	9 06m 00s to 9 51m 00s	"	"	"	"	"	"	"	2-3	"	"	"	poor changing

1937

NO.	REGION		DATE	H. A.	EXPOSURE TIME	Watch Error	Instrument or Apperture	PLATE EMULSION	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Object	REMARKS
	Guide Star or Object	R. A.							Dec.	KIND	TIME	TEMP.	Trans.				
303	R Aquarii	23h 39m	-15° 43'	Jan 15	2h 46m W	7h 02m 15s to 7h 12m 15s	50 sec fast	13"	Iso Presto	Ross Metal	6m	69°	good	1	W	N	HLG. 5x7 filter. Moon late on these plates
304	R Aquarii	"	"	Jan 15	2h 59m W	7h 15m 20s to 7h 25m 30s	"	"	Hamer U.R. Press	"	"	"	1	"	"	"	"
305	T Tauri	4h 18m	+19° 23'	Jan 15	0h 25m E	8h 30m 00s to 8h 46m 00s	"	"	Iso Presto	"	"	"	good	4	"	"	5x7 #15 filter. moon just going down.
306	T Tauri	"	"	Jan 15	0h 08m E	8h 47m 00s to 8h 57m 00s	"	"	Hamer U.R. Press	"	"	"	"	"	"	"	"
307	gigg-Skjellerup comet region	6h 12m	-8° 32'	Jan 15	0h 58m E	9h 30m 00s to 10h 00m 00s	50.8 sec	"	Imperial Ed. Soft	"	7	"	"	2	"	"	"
308	R Aquarii	23h 39m	-15° 43'	Jan 29	3h 51m W	7h 10m 00s to 7h 21m 00s	33 sec fast	"	Hamer U.R. Press	"	"	"	good	0	E	S	"
309	R Aquarii	"	"	Jan 29	4h 10m W	7h 27m 02s to 7h 40m 02s	"	"	Iso Presto	"	"	"	"	0	"	"	"
310	T Tauri	4h 18m	+19° 23'	Jan 29	0h 11m W	8h 09m 35s to 8h 19m 35s	"	"	"	"	"	"	good	2	"	"	new 5x7 #15 filter. Prog guiding
311	T Tauri	"	"	Jan 29	0h 26m W	8h 25m 00s to 8h 35m 10s	"	"	Imperial Ed. Soft	"	"	"	"	"	"	"	guiding poor.
312	R Aquarii	23h 39m	-15° 43'	Jan 31	4h 03m W	7h 16m 30s to 7h 26m 30s	47 sec fast	"	Eastman 40	"	"	"	"	0	"	"	"
313	R Aquarii	23h 39m	-15° 43'	Jan 31	4h 23m W	7h 36m 30s to 7h 46m 30s	47 "	"	Iso Presto	"	"	"	"	0	"	"	5x7 #15 filter.
314	"	"	"	Feb 1st	4h 05m W	7h 14m 00s to 7h 24m 15s	56 "	"	Imperial Ed. Soft	"	"	"	"	0	"	"	"
315	"	"	"	Feb 1st	4h 33m W	7h 41m 45s to 7h 51m 45s	56 "	"	Iso Presto	"	"	"	good	1	"	"	new 5x7 #15 filter. old fogged & scratched plate.
316	"	"	"	Feb 2nd	4h 07m W	7h 11m 07s to 7h 21m 07s	01 sec fast	"	Imperial Ed. Soft	"	"	"	"	1	"	"	new 5x7 filter.
317	"	"	"	Feb 2nd	4h 25m W	7h 28m 30s to 7h 38m 30s	"	"	Iso Presto	"	"	"	"	4	W	N	new 5x7 filter.
318	T Tauri	4h 18m	+19° 23'	Feb 2	0h 39m W	8h 22m 00s to 8h 32m 10s	"	"	Iso Presto	"	"	"	"	4	W	N	new 5x7 filter.
319	"	"	"	Feb 2	0h 56m W	8h 39m 00s to 8h 49m 00s	"	"	Imperial Ed. Soft	"	"	"	"	"	"	"	"
320	gigg-Skjellerup Comet Region	6h 12m	-8° 32'	Feb 2	0h 05m E	9h 12m 01s to 9h 42m 01s	"	"	"	"	"	"	"	"	"	"	Comet. Marked
321	Daniel Periodic Comet	2h 43m	+22° 29'	Feb 10	3h 36m W	8h 56m 16s to 9h 22m 29s	15 sec fast	"	8x10 Imperial Ed. Soft	"	"	"	"	1	"	"	Plate trailed out of balance. Comet marked
322	gigg-Skj Comet Region	6h 12m	-8° 41'	Feb 10	0h 48m W	7h 33m 30s to 10h 03m 30s	"	"	415 "	"	"	"	Fair	0	"	"	No Comet
323	Whipple Comet Region	13h 31m	+39° 09'	Feb 16	1h 01m E	4h 47m 05s to 15h 09m 05s	01 sec slow	"	8x10 Imperial	"	"	"	good	0	"	"	Comet marked
324	Daniel Periodic Comet Region	2h 43m	+22° 27'	Feb 16	2h 20m W	8h 23m 00s to 7h 25m 00s	"	"	14x17	"	"	"	good	3	"	"	"
325	Daniel Periodic Comet Region	2h 43m	+22° 27'	Feb 17	3h 17m W	8h 20m 00s to 8h 36m 00s	"	"	8x10 Imperial	"	"	"	good	4	E	S	"
326	T Tauri	4h 18m	+19° 24'	Feb 20	3h 21m W	7h 19m 10s to 18h 10m 00s	20 sec slow	"	14x17 Hamer Press	"	"	"	"	1	"	"	Bright mark. No Comet
327	"	"	"	March 6	2h 53m W	8h 31m 00s to 8h 41m 00s	47 sec fast	"	4x5 East 40	"	"	"	good	3	W	N	"
328	Edmondson-Poyuled	6h 18m	+7° 38'	March 6	3h 14m W	8h 47m 00s to 9h 07m 00s	"	"	4x5 Iso Presto	"	"	"	"	"	"	"	5x7 #15 filter. Trailed. No good 5x7 #15 filter.
329	"	"	"	"	2h 29m W	9h 46m 00s to 10h 16m 00s	"	"	"	"	"	"	"	"	"	"	"
330	Betelgeuse	5h 51m	+8° 31'	"	3h 14m W	10h 25m 30s to 11h 06m 30s	"	"	4x5 Imperial	"	"	"	"	"	"	"	"
331	Betelgeuse	5h 51m	+8° 31'	March 31	"	7h 32m 30s to 7h 45m 00s 7h 46m 00s to 7h 56m 00s 7h 57m 00s to 8h 07m 00s 7h 58m 00s to 8h 08m 00s 7h 59m 00s to 8h 09m 00s 8h 00m 00s to 8h 10m 00s	30 sec fast	"	3/4x4 1/2 East IN	"	"	"	Poor	0	"	"	HLG. Deep red #88 filter
332	Edmondson-Poyuled	6h 18m	+7° 38'	April 1	3h 13m W	8h 31m 30s to 9h 17m 30s	1.46m	"	"	"	"	"	Fair	1	E	S	HLG. #88 filter. last exp. 7h 45m 30s to 7h 48m 30s
333	"	"	"	April 1	3h 13m W	8h 31m 30s to 9h 17m 30s	38 sec fast	"	Imperial Ed. Soft 4x5	"	"	"	"	0	"	"	HLG.
334	Betelgeuse	5h 51m	+8° 31'	April 1	4h 12m W	9h 26m 42s to 10h 15m 42s	"	"	3/4x4 1/2 Iso Presto	"	"	"	"	0	"	"	East #15 filter
335	S Aurigae	4h 58m	+41° 01'	April 7	2h 34m W	7h 47m 15s to 7h 47m 15s	"	"	" IP	"	"	"	Poor	0	W	N	HLG. #88 filter
336	"	"	"	April 23	6h 43m W	4h 10m 16s to 4h 10m 16s	30 sec fast	"	Eastman 40	"	5	"	good	0	E	S	HLG. No wind.
				"	6h 43m W	4h 10m 16s to 4h 10m 16s	"	"	Iso Presto	"	6	"	"	"	"	"	5x7 filter #15

NEG. No	R E G I O N		DATE 1937	H.A. End of Exposure	EXPOSURE TIME 4old Astronomical Day	Watch Error	Instrument or Aperture	PLATE Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star or Object	R.A.							Dec.	KIND	Time	TEMP	Trans.				
337	♄ Aurigae	4 ^h 58 ^m	+41° 01'	Apr. 24	5 ^h 11 ^m W	8 ^h 23 ^m 36 ^s to 8 ^h 26 ^m 36 ^s	35 sec fast	13"	Eastman 40	Ross Metal	6 ^m	70°	good	2	E	S	H.G. Full moonlite
338	♄ Aurigae	4 ^h 58 ^m	+41° 01'	Apr. 24	5 ^h 33 ^m W	8 ^h 28 ^m 35 ^s to 8 ^h 31 ^m 35 ^s	"	"	Iso Presto	"	"	"	"	1	"	"	5x7 #15 filter.
339	♄ Aurigae	"	"	"	6 ^h 22 ^m W	8 ^h 42 ^m 00 ^s to 8 ^h 46 ^m 00 ^s	"	"	"	"	"	"	"	0	"	"	diagonal.
340	"	"	"	"	6 ^h 46 ^m W	8 ^h 53 ^m 30 ^s to 9 ^h 01 ^m 15 ^s	"	"	East 40	"	"	"	"	"	"	"	night moonlite
341	♄ Aurigae	"	"	Apr. 25	5 ^h 15 ^m W	8 ^h 23 ^m 36 ^s to 8 ^h 26 ^m 36 ^s	45 sec fast	"	"	"	"	"	good	4	"	"	5x7 #15 filter
342	"	"	"	" 25	5 ^h 37 ^m N	8 ^h 33 ^m 00 ^s to 8 ^h 37 ^m 00 ^s	"	"	Iso Presto	"	"	"	"	5	"	"	white moonlite
343	"	"	"	" 25	5 ^h 47 ^m W	8 ^h 53 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	45 sec fast	"	8110 Imperial	Wallace Hydro	8 ^m	"	"	3	"	"	5x7 #15 filter
344	"	"	"	April 27	5 ^h 21 ^m W	8 ^h 53 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	17 sec fast	"	Iso Presto	Ross Metal	6 ^m	"	good	2-1	"	"	some twilight
345	"	"	"	"	5 ^h 38 ^m W	8 ^h 53 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	"	"	Eastman 40	"	"	"	"	"	"	"	"
346	"	"	"	Apr. 30	5 ^h 19 ^m W	8 ^h 53 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	05 sec fast	"	"	"	"	"	good	1	"	"	"
347	"	"	"	"	6 ^h 02 ^m W	8 ^h 53 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	"	"	Iso Presto	"	"	"	"	"	"	"	5x7 #15 filter
348	Enig-Skjellump comet	6 ^h 59 ^m	+7° 45'	"	4 ^h 55 ^m W	9 ^h 17 ^m 00 ^s to 9 ^h 47 ^m 00 ^s	"	"	8110 Imp. Cal. Soft	Wallace Hydro	8 ^m	"	"	0	"	"	traced images as telescope out of balance & broke clamp
349	♄ Aurigae	4 ^h 58 ^m	+41° 01'	May 2	6 ^h 07 ^m W	9 ^h 17 ^m 00 ^s to 9 ^h 47 ^m 00 ^s	12 sec fast	"	Eastman 40	Ross Metal	6 ^m	"	Fair	1	"	"	5x7 #15 filter
350	"	"	"	"	6 ^h 21 ^m W	9 ^h 17 ^m 00 ^s to 9 ^h 47 ^m 00 ^s	"	"	Iso Presto	"	"	"	"	1	"	"	"
351	Enig-Skj Comet Region	7 ^h 00 ^m	+7° 44'	May 6	4 ^h 54 ^m W	9 ^h 17 ^m 00 ^s to 9 ^h 47 ^m 00 ^s	42 sec fast	"	8110 Imp. Cal. Soft	Wallace Hydro	8 ^m	"	"	3-4	"	"	"
352	Eleonora Asteroid (354)	21 ^h 21.2	-8° 26'	May 11	2 ^h 31 ^m E	15 ^h 44 ^m 00 ^s to 15 ^h 59 ^m 00 ^s	20 sec fast	"	4x5 Eastman 40	"	"	"	good	2	W	N	8:4000 to 3:000 AM, Wed. May 12
353	"	"	"	May 11	2 ^h 07 ^m E	15 ^h 44 ^m 00 ^s to 15 ^h 59 ^m 00 ^s	20 "	"	"	"	"	"	"	"	"	"	Wed. AM, May 12 (4:1000 to 8:25:15)
354	Mars.	"	"	May 20	"	"	"	"	"	"	"	"	"	"	"	"	"
355	Asteroid (354) Eleonora	21 ^h 32.5	-8° 14'	June 9	1 ^h 13.5 E	15 ^h 47 ^m 12 ^s to 15 ^h 32 ^m 12 ^s	12 sec fast	"	"	"	"	"	"	5	"	"	"
356	"	"	"	June 9	0 ^h 50.5 E	15 ^h 40 ^m 12 ^s to 15 ^h 55 ^m 12 ^s	"	"	"	"	"	"	"	"	"	"	clouds in East over horizon
357	60 Kruger Region	22 ^h 24.8	+57° 12'	June 10	1 ^h 51 ^m E	15 ^h 19 ^m 14 ^s to 15 ^h 44 ^m 14 ^s	14 sec approx	"	8x10 Ham. U.S. Press	"	"	"	"	1	"	"	no guiding haze & clouds
358	Finsler Comet Reg.	3 ^h 07.4	+37° 36'	July 5	4 ^h 41.4 E	15 ^h 50 ^m 00 ^s to 15 ^h 56 ^m 00 ^s	136 sec slow	"	4x5 Eastman 40	"	"	"	Fair to good	5	"	"	lateral just come guide on star not done
359	"	3 ^h 09.3	+40° 38'	July 6	4 ^h 53.3 E	15 ^h 18 ^m 00 ^s to 15 ^h 43 ^m 00 ^s	0 ^m 10 sec slow	"	"	"	"	"	"	"	"	"	clouds shut out obj often
360	"	"	"	"	4 ^h 37.3 E	15 ^h 48 ^m 51 ^s to 15 ^h 58 ^m 51 ^s	0 ^m 08 sec slow	"	"	"	"	"	"	"	"	"	"
361	"	"	"	"	4 ^h 51.3 E	15 ^h 27 ^m 15 ^s to 15 ^h 42 ^m 15 ^s	12 sec fast	"	"	"	10	68	Poor	2	"	"	"
362	Triple Stars	12 ^h 42.8	+10° 30'	July 7	4 ^h 51.3 E	15 ^h 27 ^m 15 ^s to 15 ^h 42 ^m 15 ^s	12 sec fast	"	4x5 Imperial	"	10	70	good	3	E	S	"
363	Polar Sequence	20 ^h 48.7	+32° 39'	July 11	1 ^h 50 ^m E	11 ^h 26 ^m 00 ^s to 11 ^h 06 ^m 00 ^s	11 sec slow	"	8x4 1/2 Iso Presto	Ross Metal	9	70	good	2	W	N	5x7 new #15 filter
364	Polar Sequence	20 ^h 48.7	+32° 39'	"	1 ^h 04 ^m E	12 ^h 12 ^m 00 ^s to 12 ^h 52 ^m 00 ^s	"	"	4x5 Eastman 40	"	10	70	"	4	"	"	"
365	Finsler Comet	3 ^h 15.3	+44° 19'	July 11	5 ^h 10 ^m E	14 ^h 52 ^m 00 ^s to 15 ^h 12 ^m 00 ^s	"	"	"	Wallace Hydro	8	70	"	4	"	"	"
366	"	"	"	"	4 ^h 08.3 E	15 ^h 16 ^m 00 ^s to 15 ^h 24 ^m 00 ^s	3 sec slow	"	"	"	"	"	"	4	"	"	"
367	"	3 ^h 18 ^m	+46° 08'	July 13	4 ^h 22 ^m E	15 ^h 16 ^m 00 ^s to 15 ^h 26 ^m 00 ^s	5 sec fast	"	"	"	"	"	"	4	"	"	"
368	"	3 ^h 18 ^m	"	"	4 ^h 10 ^m E	16 ^h 00 ^m 00 ^s to 16 ^h 08 ^m 00 ^s	3 sec fast	"	"	"	"	"	"	4	"	"	"
369	♃ Aquarii	23 ^h 39 ^m	-15° 43'	July 14	1 ^h 09 ^m E	15 ^h 16 ^m 00 ^s to 15 ^h 26 ^m 00 ^s	19 sec slow	"	Iso Presto	Ross Metal	8 ^m	68	good	1	"	"	5x7 #15 filter
370	"	"	"	"	0 ^h 57 ^m E	3 ^h 32 ^m 00 ^s to 3 ^h 38 ^m 00 ^s	"	"	Eastman 40	"	"	"	"	1	"	"	"

NEG. NO.	REGION		DATE 1937	H. A. End of Exposure	EXPOSURE TIME *Old Astronomical Day	WATCH ERROR	Instrument or Apparatus	PLATE Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS	
	Guide star	R. A.							DEC.	KIND	TIME	TEMP.	Trans.					Stand.
371	Finsler Comet	3 ^h 19.2 ^m	+46° 50'	July 14	4 ^h 17 ^m E	15 ^h 53 ^m 00 ^s to 15 ^h 58 ^m 00 ^s	21 ^{sec} slow	13"	Eastman 40	WallacHyde	10 ^m	68	good	3	W	N	H.G.	
372	"	3 ^h 21.2 ^m	+48° 00'	July 15	4 ^h 27 ^m E	15 ^h 15 ^m 00 ^s to 15 ^h 45 ^m 00 ^s	34 ^{sec} slow	"	Imperial Cel Soft	"	"	"	1/9 good	2	"	"	"	
373	"	"	+48° 00'	"	4 ^h 11 ^m E	15 ^h 57 ^m 00 ^s to 15 ^h 59 ^m 00 ^s	37 ^{sec} slow dim #6	"	Eastman 40	"	"	"	"	"	"	"	"	
PV 374	R Aquarii	23 ^h 39.3 ^m	-15° 42'	July 16	0 ^h 48.4 ^m E	15 ^h 29 ^m 00 ^s to 15 ^h 39 ^m 00 ^s	01 ^{sec} slow	"	Iso Presto	Ross Metal	8 ^m	68	Fair	"	"	"	"	5x7 #15 filter
375	"	"	"	"	0 ^h 33 ^m E	15 ^h 44 ^m 00 ^s to 15 ^h 54 ^m 00 ^s	"	"	Eastman 40	"	"	"	"	"	"	"	"	
376	Finsler Comet	3 ^h 18.2 ^m	+49° 24'	"	4 ^h 00 ^m E	16 ^h 06 ^m 00 ^s to 16 ^h 11 ^m 00 ^s	44 ^{sec} slow 16" 30"	"	"	WallacHyde	10 ^m	"	"	"	"	"	"	
PV 377	R Aquarii	23 ^h 39.2 ^m	-15° 43'	July 17	0 ^h 49 ^m E	15 ^h 14 ^m 00 ^s to 15 ^h 34 ^m 00 ^s	31 ^{sec} slow	"	Iso Presto	Ross Metal	8 ^m	70°	Fair	1	"	"	"	5x7 #15 filter
378	"	"	"	"	0 ^h 25 ^m E	15 ^h 37 ^m 00 ^s to 15 ^h 57 ^m 00 ^s	"	"	Eastman 40	"	"	"	"	"	"	"	"	
379	Finsler Comet	3 ^h 25.7 ^m	+50° 20'	"	4 ^h 01 ^m E	16 ^h 01 ^m 01 ^s to 16 ^h 07 ^m 00 ^s	33 ^{sec} slow 16" 25"	"	I-O. V.V. Sec.	"	"	"	"	0	"	"	"	
PV 380	R Aquarii	23 ^h 39.3 ^m	-15° 43'	July 19	0 ^h 48 ^m E	15 ^h 08 ^m 00 ^s to 15 ^h 28 ^m 00 ^s	43 ^{sec} fast	"	Iso Presto	Ross Metal	10 ^m	68	Fair	2-1	"	"	"	5x7 #15 filter
381	"	"	"	"	0 ^h 25 ^m E	15 ^h 31 ^m 00 ^s to 15 ^h 51 ^m 00 ^s	"	"	Eastman 40	"	9 ^m	"	"	1	"	"	"	
382	Finsler Comet	3 ^h 36.3 ^m	+52° 53'	"	3 ^h 50 ^m E	15 ^h 05 ^m 30 ^s to 16 ^h 16 ^m 30 ^s	42 ^{sec} fast 16" 30"	"	8x10 Klamm UR Pers	"	"	"	"	1	"	"	"	
383	"	3 ^h 34.2 ^m	+54° 10'	July 20	4 ^h 25 ^m E	15 ^h 36 ^m 10 ^s to 15 ^h 41 ^m 30 ^s	15 ^{sec} fast	"	East 40	"	"	"	"	2	"	"	"	
384	"	"	"	"	3 ^h 49 ^m E	15 ^h 47 ^m 00 ^s to 16 ^h 17 ^m 00 ^s	13 ^{sec} fast	"	8x10 Ham UR Pers	"	"	"	"	"	"	"	"	
385	Finsler Comet	4 ^h 58 ^m 00 ^s	+71° 00'	July 29	7 ^h 55 ^m E	12 ^h 47 ^m 00 ^s to 13 ^h 02 ^m 00 ^s	25 ^{sec} fast	"	8x10 Ham UR Pers	WallacHyde	8	"	no poor	2	E	"	"	count money near fast!! Bright moonlight
386	"	4 ^h 55 ^m	+71° 00'	" 29	7 ^h 28 ^m E	13 ^h 16 ^m 24 ^s to 13 ^h 24 ^m 24 ^s	"	"	4x5 East 40	"	"	"	Fair	"	"	"	"	
387	"	4 ^h 55 ^m	+71° 06'	"	6 ^h 30 ^m E	14 ^h 02 ^m 24 ^s to 14 ^h 32 ^m 24 ^s	28 ^{sec} fast	"	8x10 Ham UR Pers	"	"	"	Fair	"	"	"	"	Pale, light comet not moving near so fast clouds over during last 3/4
ab 388	Finsler Comet	5 ^h 23.8 ^m	+73° 30'	July 30	5 ^h 23 ^m E	15 ^h 22 ^m 23 ^s to 15 ^h 52 ^m 23 ^s	04 ^{sec} slow	13" + 5"	8x10 Ham UR Pers	"	10	"	Poor	?	"	"	"	no guiding
389	"	"	"	"	5 ^h 03 ^m E	16 ^h 06 ^m 30 ^s to 16 ^h 14 ^m 30 ^s	06 ^{sec} slow	13"	4x5 East 40	"	"	"	Fair	"	East	S	"	horiz cut off last 4/5
ab 390	Finsler Comet	5 ^h 54.7 ^m	+75° 18'	July 31	9 ^h 10 ^m E	12 ^h 09 ^m 00 ^s to 12 ^h 36 ^m 00 ^s	41 ^{sec} fast	13" + 5"	4x5 East 40	"	"	"	Fair to poor	"	"	"	"	neg sometimes
ab 391	"	5 ^h 54.8 ^m	+75° 37'	"	7 ^h 35 ^m E	13 ^h 33 ^m 00 ^s to 14 ^h 14 ^m 00 ^s	40 ^{sec} fast	"	8x10 Ham UR Pers	"	"	"	Fair to poor	"	"	"	"	guide on comet
ab 392	Finsler Comet	6 ^h 53.0 ^m	+77° 17'	Aug. 1 st	6 ^h 48 ^m E	15 ^h 25 ^m 00 ^s to 16 ^h 05 ^m 00 ^s	10 ^{sec} fast	"	8x10 Ham UR Pers	WallacHyde	10	"	1/9 good	4	E	S	"	A little moonlight guide on star 3
393	"	"	"	"	6 ^h 20 ^m E	16 ^h 10 ^m 00 ^s to 16 ^h 20 ^m 00 ^s	9 ^{sec} fast	13"	East 40	Ross Metal	9 ^m	"	"	"	"	"	"	
394	"	"	"	"	7 ^h 49 ^m E	11 ^h 56 ^m 00 ^s to 12 ^h 56 ^m 00 ^s	16 ^{sec} slow	13" + 5"	8x10 Iso Presto	"	"	"	good	"	E	S	"	
395	"	"	"	Aug 2	10 ^h 37 ^m E	13 ^h 05 ^m 00 ^s to 13 ^h 12 ^m 00 ^s	15 ^{sec} slow	13"	4x5 East 40	"	"	"	"	"	"	"	"	
ab 396	Finsler Comet	9 ^h 03 ^m	+82° 04'	Aug 3	11 ^h 38 ^m E	12 ^h 35 ^m 00 ^s to 13 ^h 05 ^m 00 ^s	15 ^{sec} fast	13" + 5"	5" Ham UR Pers	"	"	67°	good	?	W	N	"	R.A. Circle about 2"
397	"	"	"	"	0 ^h 44 ^m W	13 ^h 14 ^m 00 ^s to 13 ^h 28 ^m 00 ^s	14 ^{sec} fast	13"	Eastman 40	"	"	"	"	"	"	"	"	5x7 #15 filter
PV 398	R Aquarii	23 ^h 39.8 ^m	-15° 43'	"	0 ^h 35 ^m E	14 ^h 07 ^m 00 ^s to 14 ^h 42 ^m 00 ^s	"	"	Iso Presto	"	"	"	Fair	4	"	"	"	
399	"	"	"	"	0 ^h 04 ^m E	14 ^h 45 ^m 00 ^s to 15 ^h 13 ^m 00 ^s	10 ^{sec} fast	"	Eastman 40	"	"	"	Fair	?	Top	"	"	
400	Finsler Comet	24 ^h 17.5 ^m	+67° 42'	Aug 7	4 ^h 47.5 ^m E	10 ^h 42 ^m 33 ^s to 10 ^h 52 ^m 43 ^s	33 ^{sec} fast	13"	13" Iso Presto	"	"	"	"	"	"	"	"	
ab 401	"	"	"	"	3 ^h 40.0 ^m E	11 ^h 00 ^m 34 ^s to 12 ^h 00 ^m 33 ^s	"	13" Coda	8x10 Ham UR Pers	"	"	"	Fair	2	W	N	"	
402	Hubble's Comet	22 ^h 49 ^m	-21° 28'	"	0 ^h 01 ^m W	13 ^h 41 ^m 31 ^s to 14 ^h 11 ^m 31 ^s	27 ^{sec} fast	13"	8x10 H. UR Pers	"	"	"	Fair to poor	2	Top	"	"	bad guiding and no guide
ab 403	Finsler's Comet	0 ^h 40 ^m	+63° 35'	Aug 8	4 ^h 46 ^m W	10 ^h 40 ^m 58 ^s to 11 ^h 11 ^m 04 ^s	01 ^{sec} slow	13" + 5"	8x10 Iso Presto	"	"	"	"	4	"	"	"	no guiding
404	"	"	"	"	4 ^h 26 ^m W	11 ^h 21 ^m 00 ^s to 11 ^h 31 ^m 00 ^s	03 ^{sec} slow	13"	East 40	"	"	"	"	4	"	"	"	

NEG NO.	REGION		DATE 1937	H.A. End of Exposure	EXPOSURE TIME old Astronomical day	WATCH ERROR	Instrument or Apperature	PLATE or Emulsion No.	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS	
	Guide Star	R.A.							DEC.	Kind	Time	Temp.	Trans.					Stead.
abc 405	Finsler's Comet	12 ^h 54 ^m	+65° 00'	Monday Aug 9	6 ^h 08 ^m W	9 ^h 15 ^m 23 ^s to 10 ^h 15 ^m 33 ^s	23 ^s fast	13" 5" F15	350 Prestos Supreme Pan	Ross Metal	9 ^m	68°	good	?	Top	H.G.	Objective from camera attached	
406	"	"	"	"	6 ^h 25 ^m W	10 ^h 22 ^m 00 ^s to 10 ^h 34 ^m 00 ^s		13"	Eastman 40	"	"	"	"	"	"	"	no guiding.	
abc 407	"	12 ^h 53 ^m	+59° 29'	"	9 ^h 10 ^m W	12 ^h 18 ^m 00 ^s to 13 ^h 18 ^m 20 ^s	17 ^s fast	13" 5" F15	350 Prestos Supreme Pan	"	"	"	Fair	?	"	"	Weight on prism along with 4 th Exp. on Dumb after	
abc 408	Finsler Comet	"	+55° 46'	Aug 10	7 ^h 03 ^m W	10 ^h 44 ^m 00 ^s to 11 ^h 21 ^m 00 ^s	47 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	"	"	"	Fair to Poor	?	"	S	complete covered by clouds at end of exp. 5 th Vega on obj. Somewhat cloudy last 5 th min.	
abc 409	"	13 ^h 17 ^m	+51° 50'	Aug 11	5 ^h 35 ^m W	8 ^h 58 ^m 00 ^s to 9 ^h 58 ^m 00 ^s	16 ^s fast	13" 5" F15	350 Prestos	"	"	"	Fair to Poor	"	"	H.G.	Obj. from camera with 11 ^h 51 ^m well focused	
b 410	"	"	"	"	7 ^h 27 ^m W	10 ^h 50 ^m 10 ^s to 11 ^h 50 ^m 00 ^s		13"	350 Prestos	"	5	68	Poor	"	Top	"	no guiding.	
411	"	"	+51° 30'	"	7 ^h 47 ^m W	11 ^h 55 ^m 00 ^s to 12 ^h 10 ^m 00 ^s	17 ^s fast	13"	Eastman 40	"	9	"	Poor	"	"	"	"	
412	Finsler Comet	13 ^h 26 ^m	+47° 40'	Aug 12	5 ^h 34 ^m W	9 ^h 47 ^m 00 ^s to 10 ^h 02 ^m 00 ^s	25 ^s fast	"	"	"	"	"	Fair	?	E	S	"	
abcd 413	"	"	"	"	6 ^h 54 ^m W	10 ^h 18 ^m 00 ^s to 11 ^h 20 ^m 00 ^s	27 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	"	"	"	"	"	"	"	followed obj. into trees	
abc 414	Finsler Comet	13 ^h 41 ^m	+36° 46'	Aug 15	7 ^h 24 ^m W	11 ^h 00 ^m 52 ^s to 11 ^h 55 ^m 52 ^s	52 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	"	"	"	Fair	?	Top	"	light moonlight.	
abc 415	"	13 ^h 57 ^m	+28° 00'	Aug 18	4 ^h 59 ^m W	8 ^h 58 ^m 00 ^s to 9 ^h 18 ^m 27 ^s	25 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	"	"	"	Fair	"	E	S	Vega comparison	
416	"	"	"	"	5 ^h 20 ^m W	9 ^h 32 ^m 26 ^s to 9 ^h 48 ^m 26 ^s		13"	4x5 E. 40 pl.	Wallace Hgl	6 ^m	"	"	2-0	"	"	"	ran exp into trees
obj. Pan 417	"	"	"	"	6 ^h 43 ^m W	10 ^h 01 ^m to 11 ^h 13 ^m	27 ^s fast	obj. Pan	W.W. Hypo Pan	Ross Metal	6 ^m	"	"	"	"	"	"	
418a	Finsler Comet	13 ^h 53 ^m	+25° 18'	Aug 19	8 ^h 47 ^m 00 ^s to 8 ^h 59 ^m 10 ^s		29 ^s fast	13"	350 Prest	"	"	"	Fair	0	"	"	"	
418b	"	"	"	"	4 ^h 48 ^m W	8 ^h 47 ^m 00 ^s to 9 ^h 17 ^m 00 ^s		5" Circle obj. Pan	Hamm Transp. W.W. Hypo Pan	"	"	"	"	"	"	"	"	
419	"	13 ^h	25° 22'	"	5 ^h 13 ^m W	9 ^h 27 ^m 00 ^s to 9 ^h 43 ^m 00 ^s	30 ^s fast	13"	4x5 E. 40	Wallace	8 ^m	"	Poor	0	"	"	"	
ab 420	Finsler Comet	13 ^h 55 ^m	+22° 57'	Aug 20	4 ^h 24 ^m W	8 ^h 23 ^m 00 ^s to 8 ^h 35 ^m 00 ^s		13" 5"	350 Prestos	Ross Metal	6 ^m	"	good	"	"	"	"	
obj. Pan 421	"	"	"	"	8 ^h 21 ^m 00 ^s to 8 ^h 51 ^m 00 ^s			obj. Pan	W.W. Hypo Pan	"	"	"	"	"	"	"	"	
422	"	13 ^h 56 ^m	22° 52'	"	4 ^h 51 ^m W	8 ^h 59 ^m 00 ^s to 9 ^h 19 ^m 00 ^s	36 ^s Fast	13"	4x5 Eastman 40	Wallace	7 ^m	"	good	2	"	"	"	
ab 423	Finsler Comet	"	+14° 46'	Aug 24	4 ^h 24 ^m W	8 ^h 20 ^m 00 ^s to 8 ^h 50 ^m 00 ^s	48 ^s fast	13-5"	350 Prestos 4x10	Ross Metal	8 ^m	"	Fair	2 ⁺	"	"	"	Vega comparison
424	"	14 ^h 01 ^m	"	Aug 24	4 ^h 35 ^m W	8 ^h 18 ^m to 9 ^h 01 ^m		obj. Pan	W.W. Hypo Pan	"	"	"	"	"	"	"	"	
425	"	"	"	"	5 ^h 14 ^m W	9 ^h 10 ^m 00 ^s to 9 ^h 30 ^m 00 ^s	49 ^s fast	13"	East 40 4x5	Wallace	8 ^m	"	Fair	4	"	"	"	Vega Comp. obj. Pan
abc 426	Finsler Comet	14 ^h 02 ^m	+13° 00'	Aug 25	5 ^h 02 ^m W	8 ^h 21 ^m 00 ^s to 9 ^h 16 ^m 00 ^s	50 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	R.M.	"	"	Fair	?	"	"	"	very dark in the
427	"	"	139° 08'	"	5 ^h 21 ^m W	9 ^h 23 ^m 00 ^s to 9 ^h 38 ^m 00 ^s	57 ^s fast	13"	Eastman 40	Wallace	8	"	"	0	"	"	"	lighting flashes.
abc 428	Finsler Comet	14 ^h 04 ^m	+9° 52'	Aug 27	4 ^h 40 ^m W	8 ^h 16 ^m 00 ^s to 8 ^h 46 ^m 00 ^s	45 ^s Slow	13-5" F15	350 Presto W.W. Hypo Pan	R Metal	"	"	Fair to Poor	?	"	"	"	
429	"	14 ^h 05.5	"	Aug 29	4 ^h 30 ^m W	8 ^h 05 ^m 00 ^s to 8 ^h 30 ^m 00 ^s	on time	13"	4x5 East 40	Wallace	9	"	Fair	4	"	"	"	6 ^m out at 9 ^h 00 ^m to 9 ^h 06 ^m clouds came up.
abc 430	"	14 ^h 05.5	+7° 08'	"	5 ^h 10 ^m W	8 ^h 36 ^m 00 ^s to 9 ^h 12 ^m 00 ^s	on time	13, 5"	350 Prestos W.W. Pan W.W. Hypo Pan Hamm 4x5 Pan	R Metal Wallace	8 9	"	Poor	"	"	"	Edson 5/46 Obj. pan	
431	Super Nova	13 ^h 06.2	+37° 50'	Aug 31	5 ^h 40 ^m W	8 ^h 18 ^m 00 ^s to 8 ^h 33 ^m 35 ^s	14 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	"	8	"	Fair	?	"	"	"	
abc 432	Finsler Comet	14 ^h 07.3	+3° 41'	Sept 1 st	5 ^h 11 ^m W	8 ^h 17 ^m 00 ^s to 9 ^h 02 ^m 00 ^s	16 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	"	8	"	"	?	"	"	"	
abc 433	"	14 ^h 09 ^m	+0° 48'	Sept 4 th	5 ^h 16 ^m W	8 ^h 07 ^m 00 ^s to 8 ^h 57 ^m 00 ^s	29 ^s fast	13" 5" F15	350 Prestos W.W. Hypo Pan	Ross White	8	"	"	3	"	"	"	
434	Super Nova	13 ^h 06.6	+39° 50'	"	6 ^h 50 ^m W	9 ^h 11 ^m 00 ^s to 9 ^h 26 ^m 00 ^s	"	13"	East. 40 4x5	Wallace H.	8	"	"	"	"	"	"	no guiding most of time
435	Finsler Comet	14 ^h 10 ^m	-1° 40'	Sept 7 th	5 ^h 05 ^m W	8 ^h 17 ^m 00 ^s to 8 ^h 35 ^m 00 ^s	37 ^s fast	13"	"	Ross Metal	10	66	Poor	?	"	"	"	1/2 turn screw on back of plate holder in each
436	Polar Seg. focustest	9 ^h 26 ^m 45 ^s	90° 00'	Sept 20 th	0 ^h 04 ^m W	9 ^h 05 ^m 00 ^s to 9 ^h 12 ^m 00 ^s	05 ^s fast	13"	4x5 Eastman 40	"	7	70	Good	good	W	N	H.G.	no guiding.
437	"	9 ^h 26 ^m 45 ^s	"	Sept 26 th	0 ^h 04 ^m W	9 ^h 05 ^m 00 ^s to 9 ^h 12 ^m 00 ^s		"	"	"	7	"	"	"	"	"	"	
38 438	R Aquarii	23 ^h 39 ^m	-15° 43'	Sept 27 th	1 ^h 35 ^m E	9 ^h 44 ^m 00 ^s to 10 ^h 04 ^m 00 ^s	14 ^s fast	"	350 Presto	"	7	"	Fair	2	"	"	"	

NEG. Number	REGION			DATE 1937	H. A. End of Exposure	Exposure Time *old Astro. Day	Watch Error	Instrument or Aperture	PLATE or Emulsion Number	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS.
	Guide Star	R. A.	DEC.							KIND	TIME	TEMP.	Trans.	Stead.				
439	R Aquarii	23 ^h 39.5 ^m	-15° 43'	Sept 27	1 ^h 12 ^m E	10 ^h 08 ^m 14 ^s to 10 ^h 28 ^m 14 ^s	14 ^s fast	13"	Eastman 40	Ross Metal	7 ^m	70°	Fair	2	W	N	H.G.	Go To hell
1241 440	6 ^m Star	23 ^h 59 ^m	+42° 03'	Oct 12	1 ^h 21 ^m E	9 ^h 23 ^m 07 ^s to 10 ^h 23 ^m 07 ^s	7 ^s fast	13" and 5"	Hamm URP	Wallace Hgd.	8 ^m	"	good	4	"	"	"	
1242 441	6 ^m "	24 ^h 59.7 ^m	+47° 05'	"	1 ^h 04 ^m E	10 ^h 40 ^m 07 ^s to 11 ^h 40 ^m 20 ^s	"	"	Hamm URP Pan 14x17 and 8x10	"	"	"	good	4	"	"	"	
1243 442	same reg as 440	23 ^h 59 ^m	+42° 03'	Oct 4 th	1 ^h 11 ^m E	9 ^h 21 ^m 10 ^s to 10 ^h 21 ^m 10 ^s	10 ^s fast	"	"	"	"	"	"	2	"	"	"	
1244 443	"	24 ^h 59.3 ^m	+47° 05'	Oct 5	1 ^h 59 ^m E	9 ^h 20 ^m 12 ^s to 10 ^h 20 ^m 15 ^s	15 ^s fast	"	"	"	"	"	"	1-2	"	"	"	
1245 444	Faint Star	1 ^h 58 ^m	+49° 02'	"	1 ^h 53 ^m E	10 ^h 55 ^m 08 ^s to 11 ^h 55 ^m 15 ^s	"	"	"	"	"	"	"	"	"	"	"	
445	Wachmann Obj	18 ^h 49 ^m	+13° 59'	Saturday Oct 7	5 ^h 43 ^m W	9 ^h 06 ^m 07 ^s to 9 ^h 46 ^m 07 ^s	7 ^s fast	13"	8x10 Hamm URP Pan	Ross Metal	7	"	Fair	2	E	S	"	
446	Faint Star	6 ^h 34 ^m	-22° 08'	Oct 13	0 ^h 29 ^m E	16 ^h 01 ^m 48 ^s to 17 ^h 01 ^m 48 ^s	12 ^s slow	13"	8x10 Joo Presto	"	"	"	good	2	W	N	"	
447	Polar Seq.	"	"	Oct 24	"	8 ^h 50 ^m to 8 ^h 50 ^m 30 ^s 8 ^h 53 ^m to 8 ^h 52 ^m 45 ^s	"	15	4x5 East. 40	"	"	"	"	?	"	"	"	Focus test on new f. r. quality device.
1247 448	Faint Star	1 ^h 58.3 ^m	+49° 02'	Oct 26	1 ^h 25 ^m E	9 ^h 29 ^m 43 ^s to 10 ^h 29 ^m 43 ^s	43 ^s Fast	13 45" Cooke	"	"	"	"	good	4	"	"	"	
1248 449	6 ^m Star	3 ^h 02'	+51° 23'	Oct 26	1 ^h 24 ^m E	10 ^h 47 ^m 45 ^s to 11 ^h 45 ^m 45 ^s	"	"	"	"	"	"	"	2	"	"	"	
450	Polar Seq. Focus plate	"	"	Oct 28	"	9 ^h 27 ^m 32 ^s exp. - 8 ^h 1 ^m 1 ^s each	"	13"	"	"	"	"	"	"	"	"	"	
1249 451	Faint Star	1 ^h 58.3 ^m	+49° 02'	Oct 28	1 ^h 10 ^m E	9 ^h 37 ^m 12 ^s to 10 ^h 47 ^m 12 ^s	12 ^s fast	"	14x17 Hamm URP Pan 8x10	"	"	"	Fair	2	"	"	"	
1250 452	6 ^m Star	3 ^h 02 ^m	+51° 23'	"	0 ^h 33 ^m E	11 ^h 27 ^m 12 ^s to 12 ^h 27 ^m 12 ^s	"	"	"	"	"	"	"	4	"	"	"	
453	7 ^m Star	4 ^h 09.2 ^m	+53° 01'	"	0 ^h 06 ^m W	13 ^h 14 ^m 12 ^s to 14 ^h 14 ^m 18 ^s	"	"	"	"	"	"	"	"	"	"	"	
454	Capella	5 ^h 12 ^m	+45° 52'	Oct 29	"	10 ^h 21 ^m to 10 ^h 31 ^m	12 ^s fast	15"	Joo Presto	R.M.	5 ^m	68°	"	3	"	"	"	240 line 1" Sq over Obj. Test of gratings.
1251 455	Faint Star	1 ^h 58.3 ^m	+49° 02'	"	0 ^h 07 ^m W	11 ^h 01 ^m 12 ^s to 12 ^h 01 ^m 12 ^s	"	13" + Cooke	14x17 Hamm URP 8x10	Joo Presto	"	"	Faint	3	"	"	"	
1253 456	5 th Mag Star	5 ^h 10 ^m	+53° 11'	"	1 ^h 20 ^m E	12 ^h 44 ^m 12 ^s to 13 ^h 44 ^m 12 ^s	"	"	"	"	"	"	"	"	"	"	"	
457	Reinuth Sargent	0 ^h 23.5 ^m	+12° 48'	Oct 30	2 ^h 55 ^m E	7 ^h 07 ^m 15 ^s to 7 ^h 17 ^m 15 ^s pause 1 ^m then + 2 ^m .	01 ^s fast	13"	8x10 Hamm URP	Wallace Hgd.	8 ^m	69°	Fair	2	"	"	"	
458	"	2 ^h 40 ^m	+3° 02'	"	4 ^h 49 ^m E	7 ^h 29 ^m 01 ^s to 7 ^h 39 ^m 01 ^s pause 1 ^m then + 2 ^m .	"	"	"	"	"	"	Faint Poor	0	"	"	"	
1255 459	6 ^m Star	3 ^h 02 ^m	+51° 23'	Oct 30	0 ^h 40 ^m W	12 ^h 32 ^m 00 ^s to 13 ^h 32 ^m 00 ^s	On Jim	13 85" Cooke	8x10 Hamm URP 14x17	Tomb. Dev.	"	"	Fair	3	"	"	"	
1256 460	7 th Mag Star	4 ^h 09.2 ^m	+53° 01'	"	0 ^h 40 ^m W	13 ^h 40 ^m 00 ^s to 14 ^h 40 ^m 00 ^s	"	"	"	"	"	"	good	3	"	"	"	
461	Reinuth Obj. Reg	21 ^h 21 ^m	+21° 45'	Nov. 1 st	0 ^h 39 ^m W	7 ^h 21 ^m 32 ^s to 7 ^h 41 ^m 32 ^s	32 ^s fast	"	"	"	"	"	good	2	"	"	"	30m exp. 1mpress then +1m to 7 ^h 43 ^m 32 ^s
mean III 462	"	20 ^h 30 ^m	+22° 04'	"	3 ^h 45 ^m W	9 ^h 43 ^m 32 ^s to 9 ^h 58 ^m 32 ^s	"	5" Cooke	Joo Presto	"	"	"	"	1	"	"	"	
463	"	20 ^h 56 ^m	+22° 10'	"	3 ^h 44 ^m W	10 ^h 07 ^m 00 ^s to 10 ^h 22 ^m 03 ^s	"	"	"	"	"	"	"	2	"	"	"	
1257 464	7 th Mag Star	4 ^h 09.2 ^m	+53° 01'	"	1 ^h 15 ^m E	11 ^h 37 ^m 31 ^s to 12 ^h 37 ^m 31 ^s	31 ^s fast	13" + 5" Cooke	14x17 Hamm URP 8x10	"	"	"	1/2 Good	3	"	"	"	
1258 465	6 th Mag. Star	5 ^h 10 ^m	+53° 11'	"	1 ^h 06 ^m E	12 ^h 46 ^m 31 ^s to 13 ^h 46 ^m 31 ^s	"	"	"	"	"	"	"	2	"	"	"	
at 466	ε Cassiopeae	1 ^h 50 ^m	+63° 23'	Nov. 2 nd	3 ^h 10 ^m E 7 ^h 09 ^m E	8 ^h 00 ^m 18 ^s to 8 ^h 20 ^m 18 ^s 9 ^h 00 ^m 18 ^s to 9 ^h 20 ^m 18 ^s 10 ^h 00 ^m 18 ^s to 10 ^h 20 ^m 18 ^s	18 ^s fast	"	"	"	"	"	1/2 Good	good	"	"	"	11 ^h 00 ^m 18 ^s to 11 ^h 20 ^m 18 ^s RHA. 0.09 W.F. 12 ^h 00 ^m 18 ^s to 12 ^h 21 ^m 18 ^s " 0.02 W.F. 13 ^h 00 ^m 18 ^s to 13 ^h 20 ^m 18 ^s " 0.02 W.F.
PV 467	R Aquarii	23 ^h 36.5 ^m	-14° 30'	Nov. 3	0 ^h 06 ^m W	9 ^h 03 ^m 04 ^s to 9 ^h 18 ^m 04 ^s	4 ^s fast	13"	3 1/2 x 4 1/4 Joo Presto	"	"	"	Good	3	"	"	"	5x7 20/15 yellow filter
468	"	"	"	"	0 ^h 26 ^m W	9 ^h 25 ^m 05 ^s to 9 ^h 37 ^m 05 ^s	"	"	4x5 East 40	"	"	"	"	3	"	"	"	
469	"	"	"	"	0 ^h 48 ^m W	9 ^h 52 ^m 04 ^s to 10 ^h 00 ^m 04 ^s	"	"	3 1/2 x 4 1/4 Joo Presto	"	"	"	"	"	"	"	"	Use 1" 20/15 in printing
470	"	"	"	"	"	30 ^s exp about 10:20	"	"	4x5 East 40	"	"	"	"	"	"	"	"	
1259 471	6 ^m Star	5 ^h 10 ^m	+53° 10'	"	1 ^h 14 ^m E	12 ^h 31 ^m 04 ^s to 13 ^h 31 ^m 07 ^s	"	13" + 5"	14x17 Hamm URP Pan 8x10	"	"	"	Good	3	"	"	"	
at 472	R Aquarii	23 ^h 40 ^m	-15° 31'	Nov. 4	0 ^h 05 ^m W	9 ^h 02 ^m 55 ^s to 9 ^h 17 ^m 55 ^s	55 ^s fast	13"	Joo Presto	"	"	"	Good	1	"	"	"	5x7 20/15 filter
473	"	"	"	"	0 ^h 29 ^m W	9 ^h 25 ^m 55 ^s to 9 ^h 40 ^m 55 ^s	"	"	4x5 East 40	"	"	"	"	1	"	"	"	

1938

1938

NEG NO.	REGION		DATE 1937-8	H.A. End of Exposure	Exposure Time *Old Astro. Day	Watch Error.	Instrument or Aperture	Plate Brand or Emulsion No.	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS	
	Guide Star	R.A.							Dec.	Kind	Time	Temp	Trans.					Stead.
474	γ Cassiopea	0 ^h 52.8	+68°22'	Nov. 4	1 ^h 01 ^m W	10 ^h 25 ^m 55 ^s to 11 ^h 25 ^m 55 ^s	53 ^s fast	13"	200 Pisto	VMS Developer		good	1	W	N	H.G.	plate for VMS.	
475	ε Cygni	20 ^h 43.2	+33°45'	Nov 5	4 ^h 44 ^m W	9 ^h 54 ^m 42 ^s to 10 ^h 54 ^m 42 ^s	42 ^s fast	"	"	"		"	1-0	E	S	"	"	
476	Haw. Star, Region	1 ^h 01 ^m	+15°21'	"	1 ^h 25 ^m W	1 ^h 25 ^m to 1 ^h 25 ^m (beginning 11 ^h 15 ^m then 1 ^h 25 ^m to 1 ^h 25 ^m and 1 ^h 25 ^m)	"	"	4x5 East. 40	D 11	6 ^m	65°	"	1-0	W	N	"	"
477	γ Cygni	20 ^h 20 ^m	+40°02'	Nov 8	5 ^h 02 ^m W	9 ^h 35 ^m 10 ^s to 10 ^h 36 ^m 08 ^s	on Jan	"	200 Pisto	VMS Developer		good	0	E	S	"	V.M.S.	
478	Polar Sequence		+9°00'	"	0 ^h 19 ^m E	10 ^h 47 ^m 00 ^s to 11 ^h 14 ^m 08 ^s	"	"	4x5 East 40	D 11	6	69	"	"	W	N	"	"
1260 479	45 Aurigae	6 ^h 17 ^m	+53°32'	Nov. 27	0 ^h 05 ^m E	13 ^h 10 ^m 36 ^s to 14 ^h 11 ^m 16 ^s	4 ^s slow	13"+5"	14x17 Ham URP 5x10	"		good	3	W	N	"	"	
1261 480	"	"	"	Nov. 30	0 ^h 56 ^m E	12 ^h 09 ^m 46 ^s to 13 ^h 09 ^m 46 ^s	46 ^s fast	"	"	"		Fair	1-3	"	"	"	"	
1262 481	"	"	"	Dec. 3	0 ^h 39 ^m E	12 ^h 14 ^m 45 ^s to 13 ^h 14 ^m 46 ^s	"	"	"	"		Fair	"	"	"	"	"	
482	RAquarii	23 ^h 40.8	-15°25'	Dec 4	0 ^h 28 ^m W	7 ^h 26 ^m 28 ^s to 7 ^h 41 ^m 28 ^s	28 ^s fast	13"	East 40 (cut)	"		good	0-1	"	"	"	#17 H+K filter.	
483	"	"	"	"	0 ^h 36 ^m W	7 ^h 52 ^m 28 ^s to 8 ^h 09 ^m 28 ^s	"	"	200 Pisto	"		"	0-1	"	"	"	"	
484	Haw. Star, Region	1 ^h 03 ^m	+15°08'	Dec. 5	0 ^h 44 ^m W		07 ^m fast	"	East 40	"		"	0-1	"	"	"	"	
1263 485	7 th mag. Star	7 ^h 18.0	+53°00'	Jan 4	0 ^h 15 ^m E	11 ^h 17 ^m 06 ^s to 12 ^h 33 ^m 06 ^s	06 ^s fast	13"+5"	14x17 Ham URP 5x10	"		good	0	W	N	"	"	
1264 486	5 th Mag. Star	8 ^h 28 ^m	53°22'	"	0 ^h 16 ^m W	12 ^h 59 ^m 06 ^s to 14 ^h 06 ^s	"	"	"	"		"	0 poor	"	"	"	"	
487	The Pleiades		+24°00'	Jan 6	0 ^h 32 ^m W	9 ^h 31 ^m 18 ^s to 9 ^h 36 ^m 18 ^s	18 ^s fast	13	5x10 200 Pisto	Wallace	8	70	good	1	"	"	"	"
488	"	"	"	"	0 ^h 41 ^m W	9 ^h 40 ^m 18 ^s to 9 ^h 45 ^m 18 ^s	"	"	"	"		good	1	"	"	"	"	
1265 489	7 th mag Star	9 ^h 18.0	+53°00'	"	0 ^h 34 ^m E	10 ^h 51 ^m 18 ^s to 12 ^h 06 ^m 18 ^s	"	13+5"	Ham URP	cut dev.		"	0	"	"	"	"	
1266 490	5 th Mag Star	8 ^h 28 ^m	53°22'	"	0 ^h 20 ^m E	12 ^h 14 ^m 18 ^s to 13 ^h 30 ^m 18 ^s	"	"	"	"		"	0	"	"	"	"	
491	Runneth Obj.	16 ^h 27.7	-21°17'	"	3 ^h 52 ^m E	17 ^h 36 ^m 25 ^s to 17 ^h 36 ^m 12 ^s	12 ^s fast	13"	200 Pisto	Wallace	8	70	"	1 poor	"	"	"	n = 15° at end.
492	"	"	"	"	3 ^h 23 ^m E	18 ^h 01 ^m 10 ^s to 18 ^h 25 ^m 10 ^s	10 ^s fast	"	"	"		"	0	"	"	"	"	
493	5 th mag Star	8 ^h 28 ^m	+53°22'	Jan 10	2 ^h 39 ^m W	14 ^h 42 ^m 46 ^s to 16 ^h 12 ^m 46 ^s	46 ^s fast	13+5"	14x17 Ham URP 5x10	"		good	2	"	"	"	"	
494	Runneth Object	16 ^h 23.6	-18°18'	"	3 ^h 35 ^m E	17 ^h 23 ^m 45 ^s to 17 ^h 33 ^m 44 ^s	42 ^s fast	"	200 Pisto	Wallace	8	70	"	0	"	"	"	"
495	"	16 42	-22°22'	"	3 19 E	18 02 44 to 18 27 44	"	"	"	"		"	0	"	"	"	"	
496	5 th mag Star	8 28	+53°22'	Jan 11	5 ^h 47 ^m W	16 ^h 00 ^m 23 ^s to 17 ^h 16 ^m 23 ^s	23 ^s fast	"	"	"		"	1	E	S	"	"	
497	Runneth Obj	16 23.2	-18°18'	"	3 11 E	17 44 22 to 18 14 22	21 ^s fast	"	"	Wallace	8	70	"	1	W	N	"	"
498	Variable Star	6 ^h 50.2	+50°42'	Jan 21	0 ^h 09 ^m W	10 ^h 41 ^m 44 ^s to 11 ^h 21 ^m 44 ^s	44 ^s "	"	Ham Wilson	"		good	1	"	"	"	"	
499	"	6 ^h 52.2	+51°06'	Jan 22	0 ^h 40 ^m W	10 ^h 20 ^m 25 ^s to 11 ^h 50 ^m 25 ^s	"	"	East 40	"		"	3	"	"	"	"	
500	θ Ursae Major	9 ^h 29.3	+52°00'	"	0 ^h 43 ^m E	12 ^h 04 ^m 00 ^s to 13 ^h 09 ^m 00 ^s	50 ^s slow	13"+5"	Ham URP	cut		"	3	"	"	"	"	
501	Variable Star	6 ^h 52.2	+51°06'	Jan 24	1 ^h 31 ^m E	8 ^h 43 ^m 9 ^s to 9 ^h 33 ^m 09 ^s	9 ^s fast	13"	200 Pisto	Ross Metal	6 ^m	68-77	"	0	"	"	"	#15 (57) filter.
502	" Lyra "	"	"	"	0 ^h 53 ^m E	9 ^h 40 ^m 04 ^s to 10 ^h 10 ^m 04 ^s	"	"	Eastman 40	"		"	0	"	"	"	"	
503	"	"	"	Jan 25	3 ^h 39 ^m E	7 ^h 07 ^m 35 ^s to 7 ^h 21 ^m 35 ^s	35 ^s fast	"	"	Ross Metal			"	2	"	"	"	#15 (57) filter
504	"	"	"	"	2 ^h 33 ^m E	7 ^h 27 ^m 35 ^s to 8 ^h 27 ^m 35 ^s	"	"	200 Pisto	"	6	72-70	"	1	"	"	"	"
505	"	"	"	"	3 ^h 04 ^m E	8 ^h 36 ^m 35 ^s to 8 ^h 56 ^m 33 ^s	35 ^s fast	"	Eastman 40	"			"	"	"	"	"	"
506	{ Polar Sequence	6 ^h 52.5	+59°59'	"	0 ^h 24 ^m E	18 ^h 20 ^m 35 ^s to 10 ^h 35 ^m 35 ^s	"	"	Eastman 40	"		68°/8	"	"	"	"	"	No guiding on pole.
		"	88°40'	"	"	10 ^h 46 ^m 10 ^s to 10 ^h 55 ^m 10 ^s	"	"	"	"			"	"	"	"	"	"

NEG. NO.	REGION			DATE 1938	H.A. End of Exposure	Exposure Time # Old Astronomical Day	WATCH ERROR	Instrument or Aperture	PLATE Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.	Dec.							KIND	TIME	TEMP.	Trans.	Stead.				
507	θ Ursae Majoris	+52°00'	9 ^h 29.3 ^m	Jan 25	0 ^h 53 ^m E	11 ^h 44 ^m 33 ^s to 12 ^h 44 ^m 33 ^s	33 ^s fast	5"413"	Hamm U.R. Press	Dev. by C.V.R.		Good	1	W	N	H.G.		
508	θ Ursae Majoris	+54°00'	10 ^h 35.6 ^m	"	0 ^h 50.5 ^m E	12 ^h 52 ^m 33 ^s to 13 ^h 52 ^m 33 ^s	"	"	"	"		"	"	"	"	"		
509	Lynx Variable	+51°23'	5 ^h 07 ^m	"	5 ^h 50 ^m W	14 ^h 43 ^m 33 ^s to 15 ^h 03 ^m 33 ^s	"	13"	Eastman 40	Ross Metal	6 ^m	68°	"	0	E	S	"	wrong setting = 5 ^h 07 ^m
510	Polar Sequence	5 ^h 55.1 ^m	+90° +1° 22'	Jan 26	0 ^h 50 ^m E	8 ^h 06 ^m 02 ^s to 8 ^h 34 ^m 02 ^s	02 ^s fast	"	"	"	"	68-67 1/2	Good	0	W	N	"	
511	25 ^h 52.2 ^m 3 + 49	5 ^h 54.7 ^m	+49° 58'	"	"	9 ^h 04 ^m 02 ^s to 9 ^h 24 ^m 02 ^s	"	"	"	"	"	68-67 1/2	"	0	"	"	"	
513	Lynx Variable	6 ^h 52.2 ^m	+51° 06'	"	0 ^h 35 ^m E	10 ^h 05 ^m 02 ^s to 10 ^h 20 ^m 02 ^s	"	"	"	"	"	70-68	"	0	"	"	"	
514	Polar Sequence	6 ^h 52.2 ^m	+50° 05'	"	0 ^h 15 ^m E	10 ^h 26 ^m 02 ^s to 10 ^h 41 ^m 02 ^s	"	"	"	"	"	"	"	1	"	"	"	
515	Lynx Variable	6 ^h 52.2 ^m	+51° 06'	Jan 27	0 ^h 07 ^m E	8 ^h 38 ^m 30 ^s to 8 ^h 43 ^m 30 ^s	29 ^s fast	"	"	"	"		Good	4+	"	"	"	general sky light very bright tonight
516	Polar Sequence	6 ^h 52.2 ^m	+50° 05'	" 27	1 ^h 47 ^m E	8 ^h 20 ^m 30 ^s to 8 ^h 25 ^m 40 ^s	"	"	"	"	"		"	"	"	"	"	
517	Lynx Variable	"	51° 06'	Jan 27	0 ^h 26 ^m E	9 ^h 11 ^m 29 ^s to 9 ^h 26 ^m 40 ^s	"	"	"	"	"	69-69	"	4	"	"	"	
518	θ Ursae Majoris	10 ^h 35.6 ^m	+54° 00'	"	1 ^h 05 ^m E	11 ^h 59 ^m 00 ^s to 13 ^h 29 ^m 00 ^s	22 ^s fast	13"45"	Hamm U.R. Press			Fair to Poor	4	"	"	"		
519	Lynx Variable	6 ^h 52.2 ^m	+51° 06'	Jan 28	0 ^h 17.6 ^m E	8 ^h 00 ^m 58 ^s to 8 ^h 30 ^m 58 ^s	02 ^s slow	13"	Eastman 40	"	"	71-69	Good	3	"	"	"	
520	Polar Sequence	6 ^h 52.2 ^m	+51° 58'	"	1 ^h 49 ^m E	8 ^h 38 ^m 58 ^s to 8 ^h 38 ^m 58 ^s	04 ^s slow	"	"	"	"	"	"	2	"	"	"	guiding on poles
521	Lynx Variable	6 ^h 52.2 ^m	+51° 06'	Jan 30	0 ^h 38 ^m E	9 ^h 17 ^m 00 ^s to 10 ^h 02 ^m 00 ^s	on time	"	"	"	"	69°	Not good	3	"	"	"	
522	"	"	"	Feb 2	1 ^h 06 ^m E	8 ^h 22 ^m 25 ^s to 9 ^h 22 ^m 35 ^s	25 ^s fast	"	"	"	"		Fair	3	"	"	"	
523	"	"	"	Feb 5	1 ^h 5 ^m E	8 ^h 25 ^m 10 ^s to 9 ^h 01 ^m 10 ^s	10 ^s	"	"	"	"	78-68	Good	3	"	"	"	slut off exp. 9 ^h 01 ^m for 1 m then 1 1/2 m more in addition
524	"	"	"	Feb 6	0 ^h 09 ^m W	9 ^h 41 ^m 00 ^s to 10 ^h 21 ^m 00 ^s	25 ^s slow	"	"	"	"	91-68	Poor	1	"	"	"	Trans. Poor 1st then fair, then good clouds, haze & moon
525	"	"	"	Feb 8	1 ^h 57 ^m W	11 ^h 45 ^m 00 ^s to 12 ^h 00 ^m 00 ^s	Approach	"	"	"	"	68	Fair	1	"	"	"	
526	"	"	"	Feb 9	1 ^h 58 ^m W	11 ^h 37 ^m 17 ^s to 11 ^h 57 ^m 17 ^s	17 ^s fast	"	"	"	"	68	Fair	2	"	"	"	Very bright moonlight on objective
527	"	"	"	Feb 10	0 ^h 53 ^m E	8 ^h 52 ^m 30 ^s to 9 ^h 03 ^m 30 ^s	"	"	"	"	"	68	Fair	1	"	"	"	Clouds float over
528	"	"	"	"	3 ^h 28 ^m W	12 ^h 43 ^m 10 ^s to 13 ^h 22 ^m	12 ^s slow	"	"	"	"	68	Fair	1	"	"	"	Clouds near of the lens
529	"	"	"	Feb 13	1 ^h 17 ^m E	8 ^h 09 ^m 28 ^s to 8 ^h 29 ^m 28 ^s	28 ^s fast	"	"	"	5 3/4	70-67	Fair	1	"	"	"	
530	"	"	"	Feb 17	0 ^h 45 ^m E	8 ^h 01 ^m 20 ^s to 8 ^h 45 ^m 20 ^s	20 ^s	"	"	"	6	70	Good	2	"	"	"	slut off exp. 7 times from of shinning in R.H.
531	"	"	"	Feb 17	1 ^h 03 ^m W	9 ^h 41 ^m 20 ^s to 10 ^h 30 ^m 20 ^s	"	"	"	"	"	70-68	"	1	"	"	"	out of balance
532	"	"	"	"	3 ^h 32 ^m W	12 ^h 20 ^m 20 ^s to 13 ^h 00 ^m 20 ^s	"	"	"	"	"	70-68	"	2	E	S	"	12 ^h 43 ^m ran across objective
533	"	"	"	"	5 ^h 20 ^m W	14 ^h 12 ^m 20 ^s to 14 ^h 47 ^m 20 ^s	28 ^s fast	"	"	"	"	70-68	"	2	"	"	"	moonlight
534	"	"	"	Feb 20	0 ^h 37 ^m E	9 ^h 56 ^m 42 ^s to 8 ^h 41 ^m 42 ^s	42 ^s	"	"	"	"	"	Good	1	W	N	"	
535	Polar Sequence	6 ^h 52.7 ^m	+51° 58'	Feb 21	0 ^h 01.5 ^m E	8 ^h 15 ^m 50 ^s to 9 ^h 15 ^m 50 ^s	50 ^s fast	"	"	"	"	67-?	Good	5	"	"	"	
536	8 ^m Star	10 ^h 27.1 ^m	+41° 51'	"	0 ^h 27 ^m E	11 ^h 21 ^m 52 ^s to 12 ^h 21 ^m 52 ^s	52 ^s	13+5"	Hamm U.R. Press	Tomb	"	"	"	4	"	"	"	
537	θ Ursae Majoris	11 ^h 15.2 ^m	+33° 30'	"	0 ^h 02 ^m E	12 ^h 33 ^m 52 ^s to 13 ^h 33 ^m 52 ^s	52 ^s	"	"	"	"	"	"	4	"	"	"	
538	Lynx Variable	6 ^h 52.2 ^m	+51° 58'	Feb 22	0 ^h 12 ^m W	8 ^h 31 ^m 00 ^s to 9 ^h 21 ^m 00 ^s	On Time	13"	Eastman 40	Ross Metal	6	68	Good	4	"	"	"	
539	Polar Sequence	11 ^h 24.6 ^m	+44° 58'	"	2 ^h 05 ^m W	9 ^h 30 ^m 00 ^s to 10 ^h 20 ^m 00 ^s	"	"	"	"	"	"	"	"	"	"	"	three stars in row of 2
540	Lynx Variable	6 ^h 52.2 ^m	+51° 06'	Mar. 1	1 ^h 48 ^m W	9 ^h 58 ^m 23 ^s to 10 ^h 29 ^m 23 ^s	23 ^s fast	13"	Eastman 40	"	10 ^m	70	VPoor	3	"	"	"	clouds completely cut off 3 m after beginning, mostly cloud

(1273)

(1274)

(1275)

65114
0 44
25 9m

NEG. No.	REGION			DATE 1938	H.A. End of Exposure	Exposure Time * Old Astronomical Day	Watch Error	Camera Telescope Aperture	Plate Emulsion or Brand	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R. A.	Dec.							KIND	TIME	TEMP.	Trans.	Stead				
Min. (1276) 541	Synx Variable	6 ^h 52.2 ^m	+51° 10'	Mar 5	3 ^h 32 ^m W	11 ^h 26 ^m 12 ^s to 11 ^h 56 ^m 12 ^s	12 ^s fast	13	Eastman 40	Ross/Meto	6 ^m	67 ⁺	Fair	3 ⁺	E	S	HG	
542	"	11 ^h 24.8 ^m	+44° 18'	"	0 ^h 52 ^m W	12 ^h 50 ^m 12 ^s to 13 ^h 30 ^m 12 ^s	"	13" + 5"	Eastman 40	Ross/Meto	6 ^m	67 ⁺	good	3 ⁺	W	N	"	
543	Synx Variable	6 ^h 52.2 ^m	+51° 06'	March 6	2 ^h 55 ^m W	10 ^h 45 ^m 30 ^s to 11 ^h 15 ^m 30 ^s	23 ^s fast	13"	Eastman 40	Ross/Meto	6 ^m	68-68	good	3	"	"	"	
Min beginning 544	"	"	"	" 12	1 ^h 07 ^m W	8 ^h 49 ^m 40 ^s to 9 ^h 04 ^m 40 ^s	20 ^s slow	"	"	"	5	68-67	"	1	"	"	"	light moonlight.
545	"	"	+51° 10'	March 11	3 ^h 04 ^m W	10 ^h 42 ^m 40 ^s to 11 ^h 12 ^m 40 ^s	"	"	Eastman 40	Wallace/Hydro	7	68	Poor	2	E	S	"	clouds coming across - slight off plate for some
546	"	"	"	March 14	1 ^h 03 ^m W	8 ^h 28 ^m 37 ^s to 8 ^h 53 ^m 37 ^s	23 ^s slow	"	"	"	6	68°	good	1	W	N	"	bright moonlight.
547	"	"	+51° 10'	" 16	3 ^h 08 ^m W	10 ^h 25 ^m 37 ^s to 10 ^h 51 ^m 00 ^s	23 ^s slow	"	"	"	"	?	"	2	E	S	"	moonlight.
548	"	"	+51° 06'	" 17	1 ^h 06 ^m W	9 ^h 57 ^m 29 ^s to 8 ^h 42 ^m 37 ^s	23 ^s "	"	Eastman 40	Ross/Meto	6	68	"	2	W	N	"	
549	"	"	"	March 18	0 ^h 57 ^m W	9 ^h 51 ^m 41 ^s to 8 ^h 31 ^m 41 ^s	19 ^s slow	"	"	"	"	"	Fair	3 ⁺	"	"	"	in wind
550	"	"	"	March 20	3 ^h 38 ^m W	10 ^h 33 ^m 32 ^s to 11 ^h 03 ^m 32 ^s	28 ^s slow	"	"	"	"	67-66	good	2	"	"	"	
551	"	"	"	March 21	3 24 W	10 ^h 17 ^m 32 ^s to 10 45 32	"	"	"	"	"	67 1/2	Poor	2	E	S	"	
552	"	"	+51° 10'	March 24	2 22 W	9 ^h 11 ^m 22 ^s to 9 ^h 41 ^m 22 ^s	22 ^s fast	"	"	"	"	70-68	Fair	3 ⁺	"	"	"	
1277 553	8 ^m Star	10 ^h 27.7 ^m	+41° 55'	March 24	1 ^h 09 ^m W	10 ^h 47 ^m 22 ^s to 11 14 22 ^s	"	13" & 5"	Eastman 40	Ross/Meto	6	68	good	3 ⁺	W	N	"	bright flash 11 ^h 27 ^m seen on floor of dome.
1278 554	v Ursae Majoris	11 ^h 15.1 ^m	+33° 30'	"	1 ^h 35 ^m W	12 ^h 08 22 to 13 ^h 08 22	"	"	"	"	"	68°	good	2	E	S	"	
555	Synx Variable	6 ^h 52.2 ^m	+51° 10'	March 25	3 ^h 55 ^m W	10 ^h 16 ^m 22 ^s to 11 ^h 01 ^m 22 ^s	22 ^s fast	13	Eastman 40	R. Meto	"	68°	good	2	E	S	"	
1279 556	6 ^m Star	11 ^h 38.5 ^m	+55° 36'	" 25	0 ^h 59 ^m W	11 ^h 52 ^m 22 ^s to 12 ^h 52 ^m 22 ^s	"	13 + 5"	Eastman 40	R. Meto	"	68°	good	1	W	N	"	
557	Synx Variable	6 ^h 52.2 ^m	+51° 06'	March 26	1 ^h 57 ^m W	7 ^h 50 ^m 00 ^s to 9 ^h 00 ^m 10 ^s	22 ^s fast	13	Eastman 40	R. Meto	"	68°	Poor	1	"	"	"	
558	"	"	"	"	2 ^h 17 W	9 ^h 08 ^m 27 ^s to 9 ^h 18 ^m 27 ^s	"	"	"	"	"	68	good	1	"	"	"	
559	Synx Variable Polar Sequence	6 ^h 52.5 ^m	+53° 03'	March 30	3 ^h 11 ^m W	8 ^h 43 ^m 10 ^s to 9 ^h 40 ^m 30 ^s	10 ^s fast	"	Imperial Ed. Soft	R.M.	6 ^m	68	good	3 ⁺	"	"	"	
1280 560	8 ^m May Star	10 ^h 27.1 ^m	+41° 52'	"	1 ^h 18 ^m W	10 ^h 34 ^m 10 ^s to 11 ^h 40 ^m 10 ^s	"	13" + 5"	Eastman 40	R. Meto	"	68	good	2	"	"	"	
1281 561	v Ursae Majoris 4.0 ^m	11 ^h 15.2 ^m	+33° 30'	"	2 ^h 01 ^m W	12 ^h 10 ^m 10 ^s to 13 ^h 10 ^m 10 ^s	"	"	"	"	"	68	good	3 ⁺	"	"	"	
562	Synx Variable Polar Seq	6 ^h 52.2 ^m	+51° 05'	March 31	2 ^h 00 ^m W	8 ^h 13 ^m 05 ^s to 8 ^h 43 ^m 10 ^s	On Time	13	Imperial Ed. Soft	R.M.	6	70-68	good	4	"	"	"	
1282 563	5 ^m Star	11 ^h 38.9 ^m	+55° 38'	"	0 ^h 26 ^m W	8 ^h 47 ^m 00 ^s to 9 ^h 17 ^m 00 ^s	"	13 + 5"	Eastman 40	R. Meto	"	68	good	4	"	"	"	
1283 564	E. Ur. May 2 ^m	12 ^h 51.9 ^m	+56° 22'	"	0 ^h 07 ^m E	11 ^h 34 ^m 00 ^s to 12 ^h 34 ^m 00 ^s	2 ^s slow	"	"	"	"	68	good	3-2	"	"	"	
565	Haw. St Region Synx Var.	6 ^h 39.5 ^m	+43° 50'	April 1	2 ^h 12 ^m W	8 ^h 09 ^m 55 ^s to 8 ^h 39 ^m 55 ^s	2 ^s slow	13"	Eastman 40	R.M.	6	69-67	good	2	"	"	"	
1284 566	7 th May Star	12 ^h 05 ^m	+31° 29'	"	2 33 W	8 ^h 43 ^m 20 ^s to 9 ^h 13 ^m 58 ^s	"	13 + 5"	Eastman 40	R. Meto	"	68	good	3	"	"	"	
1285 567	7 th May Star	12 ^h 21.3 ^m	+43° 30'	"	0 ^h 10.5E	10 ^h 40 ^m 58 ^s to 11 ^h 41 ^m 30 ^s	"	"	"	"	"	68	good	2	"	"	"	
1286 568	7 th May Star	11 ^h 38.5 ^m	+55° 36'	April 2	0 ^h 48 ^m W	11 ^h 52 ^m 58 ^s to 12 ^h 55 ^m 58 ^s	3 ^s slow	13 + 5"	Eastman 40	R. Meto	"	68	good	3 ⁺	"	"	"	
1287 569	8 ^m "	12 ^h 21.3 ^m	+43° 30'	"	0 ^h 20 ^m W	11 ^h 17 ^m 57 ^s to 12 ^h 23 ^m 57 ^s	"	"	"	"	"	68	good	3	"	"	"	
570	Synx Variable	6 ^h 52.2 ^m	+51° 08'	"	0 ^h 04 ^m E	0 ^h 17 ^m 37 ^s to 11 ^h 17 ^m 57 ^s	"	13"	Eastman 40	R.M.	6	68	good	2	E	S	"	
1288 571	7 th May Star	12 ^h 05.0 ^m	+31° 29'	April 3	6 ^h 54 ^m W	12 ^h 40 ^m 00 ^s to 13 ^h 00 ^m 10 ^s	9 ^s slow	13 + 5"	Eastman 40	R. Meto	"	68	good	3	W	N	"	
572	Synx Variable	6 ^h 52.2 ^m	+51° 08'	"	0 ^h 12 ^m W	10 ^h 55 ^m 51 ^s to 11 ^h 55 ^m 51 ^s	"	13	Eastman 40	R.M.	6	68	good	3	E	S	"	
1289 573	6 th May	12 ^h 51.9 ^m	+56° 22'	"	5 ^h 52 ^m W	12 ^h 05 ^m 55 ^s to 12 ^h 23 ^m 55 ^s	"	13 + 5"	Eastman 40	R. Meto	"	68	good	3	W	N	"	
574	Synx Variable	6 ^h 52.2 ^m	+51° 08'	"	7 ^h 41 ^m W	13 ^h 42 ^m 00 ^s to 14 ^h 12 ^m 00 ^s	"	13	Eastman 40	R.M.	6 1/2	68	good	0	E	S	"	

Minimum
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Minimum

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NEG No.	REGION		DATE 1938	H. A. end of Exposure	Exposure Time *old Astronomical Day	Watch Error	Aperture instrument or Camera	Emulsion or Plate No.	DEVELOPMENT		SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R. A.							Dec.	KIND	Time	Temp				
575	Lynx Variable	6 ^h 52.2	+51°08'	April 4	5 ^h 31 ^m W	11 ^h 28 ^m 45 ^s to 11 ^h 58 ^m W	13"	Eastman 40	Ross Metal	6 ^m	68 ⁺	Fair to Poor	1-	E	S	H.G.
576	Wide Double	12 ^h 21.9	+43°30'	"	1 ^h 14 ^m W	12 ^h 10 ^m 45 ^s to 13 ^h 10 ^m 45 ^s	13" E 5"	Eastman 40	Ross Metal	6	68	Good	3-	W	N	"
577	Syn Variable	6 ^h 52.7	+51°58'	April 17	3 ^h 35 ^m W	8 ^h 26 ^m 13 ^s to 9 ^h 11 ^m 13 ^s	13"	Eastman 40	Ross M.	6	68	Good	3	E	S	"
578	Selected Area Lynx Variable Selected Area 28	8 ^h 42.2	+43°55'	Apr. 18	4 ^h 00 ^m W 3 ^h 13 ^m W	9 ^h 24 ^m 13 ^s to 10 ^h 09 ^m 13 ^s 2 ^h 43 ^m W 2 ^h 37 ^m 12 ^s to 9 ^h 32 ^m 15 ^s 9 ^h 37 ^m 09 ^s to 10 ^h 34 ^m 09 ^s	"	"	Ross Metal	6	68	Fair	3	"	"	"
579	Syn Variable	6 ^h 52.5	+51°10'	"	6 ^h 41 ^m W	11 ^h 42 ^m 30 ^s to 12 ^h 12 ^m 30 ^s	"	"	"	"	"	Good	1-	"	"	"
580	"	"	"	"	7 ^h 28 ^m W	12 ^h 30 ^m 09 ^s to 13 ^h 00 ^m 10 ^s	"	"	"	"	"	Fair to Poor	0	"	"	"
581	"	"	"	April 20	4 ^h 22 ^m W	9 ^h 17 ^m 51 ^s to 9 ^h 45 ^m 51 ^s	"	"	"	"	67	Poor	4	"	"	"
582	"	"	"	April 21	4 ^h 08 ^m W	9 ^h 09 ^m 00 ^s to 9 ^h 27 ^m 00 ^s	"	"	"	"	"	Good	3	W	N	"
583	39 Comae Berenices	13 ^h 03.8	+21°36'	April 21	0 ^h 49 ^m E	9 ^h 42 ^m 41 ^s to 10 ^h 42 ^m 41 ^s	"	"	"	"	"	"	"	"	"	"
584	Syn Variable	6 ^h 52.2	+51°58'	"	5 ^h 51 ^m W	10 ^h 53 ^m 42 ^s to 11 ^h 13 ^m 42 ^s	"	"	"	"	"	"	"	"	"	"
585	"	6 ^h 52.2	+51°06'	April 22	4 ^h 30 ^m W	9 ^h 06 ^m 26 ^s to 9 ^h 46 ^m 26 ^s	"	"	"	"	"	"	"	"	"	"
586	7 th Mag. Star	12 ^h 55.8	+34°58'	"	0 ^h 14 ^m W	10 ^h 34 ^m 26 ^s to 11 ^h 34 ^m 26 ^s	"	"	"	"	"	"	"	"	"	"
587	5 th Double Star	13 ^h 47 ^m	+21°40'	"	0 ^h 36 ^m W	11 ^h 47 ^m 25 ^s to 12 ^h 47 ^m 25 ^s	"	"	"	"	"	"	"	"	"	"
588	Syn Variable	6 ^h 52.2	+51°10'	April 24	3 ^h 50 ^m W	8 ^h 28 ^m 50 ^s to 8 ^h 58 ^m 50 ^s	"	"	"	"	"	Good	3	E	S	"
589	39 Comae Berenices	13 ^h 03.8	+21°36'	"	1 ^h 05 ^m E	9 ^h 11 ^m 58 ^s to 9 ^h 13 ^m 50 ^s	"	"	"	"	"	"	"	"	"	"
590	7 th Mag Star	12 ^h 56.2	+34°58'	"	1 ^h 18 ^m W	11 ^h 30 ^m 00 ^s to 12 ^h 30 ^m 00 ^s	"	"	"	"	"	"	"	"	"	"
591	6 th Double	13 ^h 48.6	+21°40'	"	1 ^h 38 ^m W	12 ^h 41 ^m 50 ^s to 13 ^h 41 ^m 50 ^s	"	"	"	"	"	"	"	"	"	"
592	Syn Variable	6 ^h 52.2	+51°10'	April 26	4 ^h 05 ^m W	8 ^h 35 ^m 20 ^s to 9 ^h 05 ^m 20 ^s	"	"	"	"	"	Good	2-	E	S	"
593	"	"	"	"	4 ^h 41 ^m W	9 ^h 10 ^m 00 ^s to 9 ^h 42 ^m 00 ^s	"	"	"	"	"	"	"	"	"	"
594	5 th Mag Star	13 ^h 48.4	+35°09'	"	1 ^h 00 ^m E	9 ^h 57 ^m 20 ^s to 10 ^h 57 ^m 20 ^s	"	"	"	"	"	"	"	"	"	"
595	6 th Star	13 ^h 20.3	+47°21'	"	0 ^h 41 ^m W	11 ^h 10 ^m 20 ^s to 12 ^h 10 ^m 20 ^s	"	"	"	"	"	"	"	"	"	"
596	Syn Variable	6 ^h 52.2	+51°10'	"	7 ^h 48 ^m W	12 ^h 21 ^m to 12 ^h 47 ^m	"	"	"	"	"	Good	2+	W	N	"
597	6 th Star	14 ^h 29.7	+27°00'	April 27	1 ^h 15 ^m E	10 ^h 19 ^m 06 ^s to 11 ^h 19 ^m 30 ^s	"	"	"	"	"	"	"	"	"	"
598	Syn Variable	6 ^h 52.2	+51°10'	"	7 ^h 03 ^m W	11 ^h 29 ^m 16 ^s to 11 ^h 59 ^m 30 ^s	"	"	"	"	"	"	"	"	"	"
599	8 Bootes (3 rd)	14 ^h 30.7	+38°39'	"	0 ^h 34 ^m W	12 ^h 08 ^m 06 ^s to 13 ^h 08 ^m 06 ^s	"	"	"	"	"	Good	3	"	"	"
600	5 th M Star	13 ^h 48.4	+35°09'	Apr. 30	1 ^h 29 ^m W	12 ^h 09 ^m 45 ^s to 13 ^h 09 ^m 45 ^s	"	"	"	"	"	"	"	"	"	"
601	6 th "	14 ^h 30 ^m	+27°00'	"	1 ^h 55 ^m W	13 ^h 18 ^m 45 ^s to 14 ^h 18 ^m 45 ^s	"	"	"	"	"	"	"	"	"	"
602	Hale Comet 7-8 th Double	17 ^h 22 ^m	+13°30'	May 4	2 ^h 02 ^m W	12 ^h 32 ^m 19 ^s to 12 ^h 52 ^m 19 ^s	"	"	"	"	70°	"	2-	"	"	"
603	7 th M Star	12 ^h 55.5	+35°58'	May 13	4 ^h 29 ^m W	13 ^h 14 ^m 02 ^s to 14 ^h 25 ^m 02 ^s	"	"	"	"	"	Good	1	E	S	"
604	Syn Var.	6 ^h 52.2	+51°09'	May 18	6 ^h 27 ^m W	9 ^h 39 ^m 45 ^s to 9 ^h 59 ^m 45 ^s	"	"	"	"	"	Fair	1-	"	"	"
605	"	"	"	"	7 ^h 24 ^m W	10 ^h 42 ^m 45 ^s to 10 ^h 54 ^m 45 ^s	"	"	"	"	"	to Poor	"	"	"	"
606	8 Bootes 3 rd Star	14 ^h 30 ^m	+38°39'	May 20	0 ^h 26 ^m E	9 ^h 38 ^m 02 ^s to 10 ^h 38 ^m 02 ^s	"	"	"	"	"	Good	3	W	N	"
607	"	"	"	May 23	0 ^h 06 ^m W	9 ^h 58 ^m 42 ^s to 9 ^h 58 ^m 42 ^s	"	"	"	"	"	Good	3+	"	"	"
608	6 th Star	15 ^h 15.9	+57°08'	"	0 ^h 24 ^m W	11 ^h 07 ^m 42 ^s to 12 ^h 07 ^m 42 ^s	"	"	"	"	"	"	"	"	"	"

Interrupted Exp. 16^m after lag for about 1^m to 1.5^m shutter

No guiding on this exp. Set to new plate dev. pt.

During Total Eclipse of Moon.

cut off by clouds

NEG. NO.	REGION		DATE	H. A. End of Exposure	Exposure Time Old Astronomical Day	WATCH ERROR	Aperture or Instrument	Plate Emulsion No.	DEVELOPMENT			SEEING		Position of Telescope	writing on Plate	Observer	REMARKS		
	Guide Star	R. A.							DEC.	KIND	TIME	TEMP.	Trans.					Stand	
1307	609	6 th Mag Star	15 ^h 20.4	+39° 52'	May 24	0 ^h 56 ^m E	9 ^h 42 ^m 45 ^s to 10 ^h 42 ^m 45 ^s	45 ^s fast	186.5	14x17 6710	Wallace Hydro	8	70	good	3-	W	N	H.G.	
1308	610	4 th Mag Star E Coronae B.	15 ^h 55.2	+27° 08'	"	0 ^h 03 ^m E	11 ^h 09 ^m 45 ^s to 12 ^h 09 ^m 45 ^s	"	"	"	"	"	"	"	3-	"	"	"	
1309	611	6 th Star	16 38.9	+25° 02'	"	0 ^h 24 ^m W	12 ^h 19 ^m 45 ^s to 13 ^h 19 ^m 45 ^s	"	"	"	"	"	"	"	2	"	"	"	
1310	612	6 th Star	13 ^h 20.8	+47° 21'	May 25	1 ^h 10 ^m 1/2 W	9 ^h 25 ^m 52 ^s to 10 ^h 25 ^m 52 ^s	52 ^s fast	"	"	"	"	"	good	3	"	"	"	
1311	613	6 th Star	15 15.9	+29° 08'	"	1 ^h 18 ^m W	11 ^h 47 ^m 00 ^s to 12 ^h 47 ^m 00 ^s	on time	"	"	"	"	"	"	"	"	"	"	
1312	614	7 th Mag Star	16 11.5	+38° 20'	"	1 ^h 36 ^m W	13 ^h 01 ^m 00 ^s to 14 ^h 01 ^m 00 ^s	"	"	"	"	"	"	"	"	"	"	"	
1313	615	E Coronae B.	15 55.2	+27° 08'	May 27	1 ^h 51 ^m E	9 ^h 11 ^m 50 ^s to 10 ^h 11 ^m 50 ^s	50 ^s fast	"	"	"	"	"	good	3-	"	"	"	
1314	616	6 th Star	16 38.9	+25° 02'	"	1 ^h 25 ^m E	10 ^h 20 ^m 54 ^s to 11 ^h 20 ^m 54 ^s	54 ^s fast	"	"	"	"	"	good	2-	"	"	"	
1315	617	7 th Star	13 20.3	+47° 21'	May 28	0 ^h 42 ^m W	9 ^h 05 ^m 37 ^s to 10 ^h 05 ^m 37 ^s	37 ^s fast	"	"	"	"	"	"	"	"	"	"	
1316	618	6 th Star	15 ^h 16 ^m	+29° 08'	"	0 ^h 18 ^m W	10 ^h 38 ^m 38 ^s to 11 ^h 38 ^m 38 ^s	"	"	"	"	"	"	"	"	"	"	"	
1317	619	5 th Star	15 ^h 20.7	+39° 50'	"	1 ^h 25 ^m W	11 ^h 47 ^m 38 ^s to 12 ^h 47 ^m 38 ^s	38 "	"	"	"	"	"	good	3-	"	"	"	
1318	620	7 th Star	14 ^h 15.5	+48° 20'	May 29	0 ^h 02 ^m E	9 ^h 11 ^m 13 ^s to 9 ^h 12 ^m 13 ^s	13 ^s fast	"	"	"	"	"	"	2	"	"	"	
1319	621	" "	16 ^h 71 ^m	+38° 19'	"	0 ^h 21 ^m E	10 ^h 48 ^m 15 ^s to 11 ^h 48 ^m 15 ^s	15 ^s fast	"	"	"	"	"	"	2	"	"	"	
1320	622	6 th Star	17 ^h 02 ^m	+34° 59'	"	0 ^h 02 ^m E	11 ^h 58 ^m 15 ^s to 12 ^h 58 ^m 15 ^s	"	"	"	"	"	"	good	3	"	"	"	
1321	623	" "	15 ^h 16 ^m	+27° 08'	May 30	0 ^h 41 ^m E	9 ^h 30 ^m 50 ^s to 10 ^h 30 ^m 50 ^s	50 ^s fast	"	"	"	"	"	good	3	"	"	"	
1322	624	E Coronae B.	15 55.2	+27° 08'	"	0 ^h 12 ^m E	10 ^h 37 ^m 10 ^s to 11 ^h 37 ^m 10 ^s	"	"	"	"	"	"	good	3	"	"	"	
1323	625	6 th Star	13 ^h 20.3	+49° 22'	June 1	2 ^h 18 ^m W	10 ^h 25 ^m 15 ^s to 11 ^h 25 ^m 15 ^s	15 ^s fast	"	"	"	"	"	"	3	"	"	"	
1324	626	6 th Star	15 ^h 20.3	+39° 52'	June 1 st	1 ^h 31 ^m W	11 ^h 37 ^m 16 ^s to 12 ^h 37 ^m 16 ^s	16 "	"	"	"	"	"	good	1	"	"	"	
1325	627	6 th Star	16 11.2	+38° 19'	June 2	1 ^h 10 ^m W	12 ^h 04 ^m 48 ^s to 13 ^h 04 ^m 48 ^s	48 ^s fast	"	"	"	"	"	"	1	"	"	"	
1326	628	6 th Star	17 ^h 02 ^m	+34° 59'	"	1 ^h 29 ^m W	13 ^h 13 ^m 48 ^s to 14 ^h 13 ^m 48 ^s	"	"	"	"	"	"	Fair to Poor	0	E	S	"	moonlight out of balance
	629	Lyrae Variable	6 ^h 52 ^m	+51° 08'	June 9	7 ^h 30 ^m W	9 ^h 13 ^m 30 ^s to 9 ^h 35 ^m 30 ^s	"	"	"	"	"	"	good	"	"	"	"	
	630	" "	"	"	June 18	8 ^h 10 ^m W	9 ^h 15 ^m 00 ^s to 9 ^h 40 ^m 00 ^s	correct to	"	"	"	"	"	"	2	W	N	"	
1327	631	6 th Mag Star	17 ^h 18.3	+21° 40'	"	1 ^h 01 ^m E	9 ^h 56 ^m 21 ^s to 10 ^h 56 ^m 21 ^s	21 ^s fast	"	"	"	"	"	good	3-	"	"	"	
1328	632	5 th Star	18 ^h 06.7	+20° 08'	June 20	1 ^h 51 ^m E	9 ^h 48 ^m 42 ^s to 10 ^h 48 ^m 42 ^s	42 ^s fast	"	"	"	"	"	"	3	"	"	"	
1329	633	7 th Star	17 ^h 50 ^m	+32° 02'	"	0 ^h 23 ^m E	10 ^h 59 ^m 42 ^s to 11 ^h 59 ^m 42 ^s	"	"	"	"	"	"	good	3	"	"	"	
1330	634	" "	17 ^h 18.3	+21° 40'	June 21	1 ^h 16 ^m E	9 ^h 31 ^m 00 ^s to 10 ^h 31 ^m 00 ^s	56 ^s fast	"	"	"	"	"	"	3-	"	"	"	
1331	635	6 "	18 40.4	+34° 34'	"	1 ^h 21 ^m E	10 ^h 47 ^m 56 ^s to 11 ^h 47 ^m 56 ^s	"	"	"	"	"	"	good	3-	"	"	"	
1332	636	5 th Mag Star	18 ^h 50 ^m	+21° 29'	June 22	1 ^h 44 ^m E	10 ^h 30 ^m 11 ^s to 11 ^h 30 ^m 11 ^s	11 ^s fast	"	"	"	"	"	"	"	"	"	"	
1333	637	8 th Star	19 ^h 35.4	+24° 59'	"	1 ^h 15 ^m E	11 ^h 44 ^m 15 ^s to 11 ^h 44 ^m 26 ^s	"	"	"	"	"	"	good	"	"	"	"	
1334	638	7 th Star	17 ^h 18 ^m	+21° 40'	June 23	0 ^h 49 ^m E	9 ^h 49 ^m 21 ^s to 10 ^h 49 ^m 21 ^s	21 ^s fast	"	"	"	"	"	"	"	"	"	"	
1335	639	5 th Star	18 ^h 06 ^m	+20° 08'	"	0 ^h 20 ^m E	11 ^h 06 ^m 21 ^s to 12 ^h 06 ^m 21 ^s	"	"	"	"	"	"	Fair	3	"	"	"	
1336	640	" "	18 ^h 06.6	+20° 08'	June 30	0 ^h 52 ^m E	10 ^h 06 ^m 52 ^s to 11 ^h 06 ^m 52 ^s	52 ^s fast	"	"	"	"	"	good	"	"	"	"	
1337	641	" "	18 ^h 40.5	+21° 32'	July 1	0 ^h 57 ^m W	12 ^h 24 ^m 05 ^s to 13 ^h 24 ^m 05 ^s	5 ^s fast	"	"	"	"	"	"	"	"	"	"	
1338	642	" "	18 ^h 50 ^m	+21° 29'	"	2 ^h 17 ^m W	13 ^h 55 ^m 05 ^s to 14 ^h 55 ^m 05 ^s	"	"	"	"	"	"	"	"	"	"	"	
1339	643	" "	18 ^h 40.5	+21° 32'	July 3	0 ^h 44 ^m W	12 ^h 04 ^m 28 ^s to 13 ^h 04 ^m 28 ^s	28 ^s fast	"	"	"	"	"	good	3-	"	"	"	

5 Var. Region { 19 54.50 SA. { 19h 34.8
+3° 53.5' } 18+0° 15'

NEG NO.	REGION		Date 1938	H.A. End of Exposure	Exposure Time Old Astronomical Day	WATCH ERROR	Instrument or Aperture	PLATE	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS		
	Guide Star	R.A.							Dec.	KIND	TIME	TEMP.	TRANS.					Stead.	
1340	644	5 th Mag. Star	16 ^h 26.4	+24° 38'	July 20	0 ^h 20 ^m E	10 ^h 30 ^m 15 ^s to 11 ^h 30 ^m 15 ^s	15 ^s fast	13"	14x17 Ham URP	C.W.T.			W	N	H.G.			
1341	645	7 th Mag. Star	19 ^h 57.8	+3° 18'	July 20	0 ^h 16 ^m E	11 ^h 44 ^m 15 ^s to 12 ^h 14 ^m 15 ^s	"	13"	Eastman 40	Ross Metal	6 ^m	68°	Good	2	"	"	equivalent of 1403m	
1341	646	2 th Mag Star	19 ^h 26.4	+24° 38'	July 22	0 ^h 24 ^m W	10 ^h 03 ^m 00 ^s to 12 ^h 15 ^m 00 ^s	corrected	"	8x10 Ham URP	cut			"	"	"	"		
1342	647	22 Scorpii	16 ^h 26.4	+24° 58'	July 23	2 ^h 17 ^m W	10 ^h 05 ^m 00 ^s to 11 ^h 05 ^m 00 ^s	corrected	"	8x10 Iso Puroto	Ross Metal	6	67	Good	1	"	"	V.M.S.	
1342	648	5 th Mag Star	19 ^h 26.4	+24° 38'	July 23	0 ^h 31 ^m W	11 ^h 17 ^m 15 ^s to 12 ^h 18 ^m 00 ^s	"	"	8x10 Ham URP	cut			"	"	"	"		
1342	649	8 Hercules	16 ^h 38.5	+31° 42'	July 28	5 ^h 40 ^m W	12 ^h 10 ^m 00 ^s to 14 ^h 20 ^m 00 ^s	Arrived	5" Cooke	III F	R.M.	6	67	Good	2	E	S	"	wood double grazing over objective
"	650	8 Cassiopea	0 ^h 53.0	+60° 25'	"	1 ^h 44 ^m E	14 ^h 40 ^m 00 ^s to 15 ^h 10 ^m 00 ^s	"	"	"	"			W	N	"	"		
"	651	7662 N.G.C.	23 ^h 22.8	+2° 17'	July 30	"	12 ^h 52 ^m 45 ^s to 14 ^h 10 ^m	"	"	III F	"			W	N	"	"		
1343	651	983 Vd. p. 5m	20 ^h 12 1/2	+25° 31'	Aug 16	1 ^h 12 ^m E	9 ^h 47 ^m 35 ^s to 9 ^h 47 ^m 35 ^s	35 ^s fast	5" Cooke	14x17 Ham URP	"			"	"	"	"	"	
1344	652	6 th Star	21 ^h 02 1/2	+26° 34'	Aug 17	1 ^h 32 1/2 E	9 ^h 14 ^m 37 ^s to 10 ^h 14 ^m 27 ^s	27 ^s fast	"	"	"			"	"	"	"	"	
1345	653	83 Vd.	20 ^h 12 1/2	+25° 30'	Aug 18	1 ^h 13 ^m E	8 ^h 39 ^m 21 ^s to 9 ^h 39 ^m 21 ^s	21 ^s fast	"	"	"			"	"	"	"	"	
1346	654	6 th Star	21 ^h 50 ^m	+28° 35'	"	1 ^h 37 ^m E	9 ^h 52 ^m 21 ^s to 10 ^h 52 ^m 21 ^s	"	"	"	"			"	"	"	"	"	
1347	655	7 th Star	21 ^h 02 1/2	+26° 34'	Aug 19	1 ^h 45 ^m E	8 ^h 53 ^m 17 ^s to 9 ^h 53 ^m 17 ^s	17 ^s fast	13"	5x7 East 40	"			"	"	"	"	"	
1348	656	5 Variable Field	19 ^h 57 ^m	+2° 30'	"	0 ^h 36 ^m W	10 ^h 08 ^m 17 ^s to 11 ^h 08 ^m 17 ^s	"	13 5"	14x17 Ham URP	"			"	"	"	"	"	
1348	657	6 th Star	20 ^h 12 1/2	+25° 30'	Aug 21	0 ^h 23 ^m E	9 ^h 17 ^m 15 ^s to 10 ^h 17 ^m 15 ^s	10 ^s fast	"	"	"			"	"	"	"	"	
1349	658	6 th Star	21 ^h 50 ^m	+28° 35'	Aug 21	0 ^h 50 ^m E	10 ^h 27 ^m 10 ^s to 11 ^h 27 ^m 10 ^s	"	"	"	"			"	"	"	"	"	
1350	658	7 th Star	21 ^h 02 1/2	+26° 35'	Aug 26	0 ^h 48 1/2 E	9 ^h 21 ^m 30 ^s to 10 ^h 22 ^m 30 ^s	30 ^s fast	"	"	Wallace Hydro	8 ^m	76-68	Good	2	"	"	"	
1351	658	6 th Star	21 ^h 50 ^m	+28° 35'	Aug 27	0 ^h 12 ^m E	10 ^h 23 ^m 32 ^s to 11 ^h 16 ^m 00 ^s	32 ^s fast	"	"	"			"	"	"	"	"	
1351	659	7 th Star (6 Var Region)	19 ^h 44.8	+8° 51'	Sept 12	0 ^h 31 ^m E	8 ^h 03 ^m 27 ^s to 8 ^h 23 ^m 27 ^s	1 ^m 35 ^s slow	13"	5x7 East 40	Ross Metal	6 ^m	65°	Good	3	"	"	"	Moonlight on lead post take bright + 1m or less dist
1352	660	"	19 ^h 54.9	+3° 58'	Sept 13	0 ^h 02 ^m E	8 ^h 05 ^m 27 ^s to 8 ^h 51 ^m 27 ^s	27 ^s fast	"	"	"			"	"	"	"	"	
1352	661	6 th Star (6 Var Reg.)	19 ^h 54.5	+4° 22'	Sept 17	0 ^h 35 ^m W	8 ^h 40 ^m 42 ^s to 9 ^h 10 ^m 42 ^s	42 ^s fast	"	"	"			"	"	"	"	"	
1352	662	5 th Star	22 ^h 29.5	+33° 09'	Sept 17	0 ^h 4 ^m E	9 ^h 30 ^m 42 ^s to 10 ^h 30 ^m 42 ^s	"	13 5"	14x17 Ham URP	Wallace	8	78-76	Good	2	"	"	"	
1353	663	"	22 ^h 47.8	32° 10'	Sept 19	1 ^h 53 ^m E	8 ^h 59 ^m 37 ^s to 9 ^h 29 ^m 37 ^s	37 ^s fast	13"	8x10 Iso Puroto	Ross Metal	7 ^m	62	fair	2	"	"	"	
1353	666	5 th Star	22 ^h 29.5	+33° 09'	Sept 19	0 ^h 25 ^m W	10 ^h 29 ^m 37 ^s to 11 ^h 29 ^m 37 ^s	"	13 5"	14x17 Ham URP	Wallace H.	8 ^m	72-69	Good	2	"	"	"	
1354	667	"	22 ^h 29.5	+33° 09'	Sept 24	0 ^h 11 1/2 W	9 ^h 54 ^m 16 ^s to 10 ^h 54 ^m 26 ^s	16 ^s fast	"	"	"			"	"	"	"	"	
1355	668	6 th Star	23 ^h 18.1	+37° 56'	Sept 24	0 ^h 43 ^m W	11 ^h 15 ^m 16 ^s to 12 ^h 14 ^m 16 ^s	"	"	"	"			"	"	"	"	"	
1356	669	Edmond-Rogers Var in Mon	6 ^h 18 ^m	+7° 38'	Oct 5	1 ^h 25 ^m E	4 ^h 11 ^m 10 ^s to 4 ^h 37 ^m 00 ^s	Out time	13"	4x5 E 40	"			"	"	"	"	"	
1356	670	"	"	"	Oct 5	0 ^h 31 ^m E	4 ^h 42 ^m 00 ^s to 5 ^h 16 ^m 00 ^s	"	"	"	"			"	"	"	"	"	
1356	671	N America Neb	20 ^h 47.9	+43° 52'	Oct 16	1 ^h 36 ^m W	7 ^h 35 ^m 10 ^s to 9 ^h 05 ^m 00 ^s	On time	"	8x10 Iso Puroto	"			"	"	"	"	"	for V.M.S.
1356	672	"	"	"	"	2 ^h 01 ^m W	9 ^h 25 ^m 05 ^s to 9 ^h 35 ^m 00 ^s	"	13"+5"	14x17 Ham U R Pur	Wallace Hydro	8	78-68	Good	2	"	"	"	
1357	673	John's Star	23 ^h 18.7	+37° 56'	Oct 17	0 ^h 14 ^m W	9 ^h 14 ^m 54 ^s to 10 ^h 14 ^m 54 ^s	06 ^s slow	"	"	"			"	"	"	"	"	
1357	674	"	"	"	Oct 20	0 ^h 39 ^m W	9 ^h 26 ^m 45 ^s to 10 ^h 27 ^m 00 ^s	20 ^s slow	13	Iso Puroto	Ross Metal	7 ^m	68-	Good	2	"	"	"	5x7 filter #5
1357	675	H.S.A. Edm + Rog. Red Var in Mon	6 ^h 15.7	+8° 19'	Oct 21	0 ^h 00 ^m E	14 ^h 47 ^m 35 ^s to 15 ^h 27 ^m 35 ^s	35 ^s slow	"	"	"			"	"	"	"	"	
1358	676	Edm - Rog Red Var in Mon	6 ^h 17.8	+7° 34'	"	0 ^h 34 ^m E	15 ^h 36 ^m 35 ^s to 16 ^h 16 ^m 35 ^s	"	"	"	"			"	"	"	"	"	
1358	677	6 th Star	23 ^h 18.7	+37° 56'	Oct 23	0 ^h 08 ^m W	8 ^h 44 ^m 35 ^s to 9 ^h 44 ^m 45 ^s	25 ^s slow	13+5"	14x17 Ham URP	Wallace Hydro	8 ^m	74-70	Good	3	E	S	"	Made with telescope reversed to calibrate plates for P.M.S.P. etc

1938

NEG. No	R E G I O N		DATE 1938	Hour Angle End of Exp	Exposure Time Old Astro. Day	Watch Error	
	Guide Star	R.A. Dec.					
678	Lynx Variable	6 ^h 51.7	+51° 08'	Oct. 23	6 ^h 09 ^m E	10 ^h 41 ^m 34 ^s to 11 ^h 01 ^m 34 ^s	26 ^s Slow
679	"	"	"	Oct. 23	4 ^h 56 ^m E	11 ^h 44 ^m 34 ^s to 12 ^h 11 ^m 34 ^s	"
680	"	"	"	"	3 ^h 33.4 E	13 ^h 05 ^m 34 ^s to 13 ^h 35 ^m 34 ^s	"
681	Edmondson-Peg Red Var	6 ^h 17 ^m	+7° 38'	"	2 ^h 08 ^m E	14 ^h 31 ^m 40 ^s to 15 ^h 01 ^m 34 ^s	"
682	Lynx Variable	6 ^h 51.7	+51° 08'	"	0 ^h 53 ^m E	15 ^h 46 ^m 34 ^s to 16 ^h 16 ^m 34 ^s	"
683	"	6 ^h 51 ^m	+51° 50'	Oct 25	0 ^h 57 ^m E	15 ^h 09 ^m 34 ^s to 15 ^h 39 ^m 34 ^s	"
684	"	"	"	"	0 ^h 11 ^m W	17 ^h 00 ^m 34 ^s to 17 ^h 20 ^m 34 ^s	"
685	"	"	"	Oct 25	6 ^h 36 ^m E	9 ^h 55 ^m 44 ^s to 10 ^h 25 ^m 48 ^s	25 ^s Slow
686	"	"	"	Monday	5 ^h 06 ^m E	11 ^h 28 ^m 38 ^s to 11 ^h 58 ^m 38 ^s	23 ^s "
687	BN Monocerotis	6 ^h 17.2	+7° 38'	"	3 ^h 44 ^m E	12 ^h 47 ^m 38 ^s to 13 ^h 19 ^m 38 ^s	"
688	Lynx Variable	6 ^h 45.5	+51° 50'	"	2 ^h 16 ^m E	14 ^h 15 ^m 38 ^s to 14 ^h 45 ^m 38 ^s	22 ^s Slow
689	BN Monocerotis	6 ^h 17 ^m	+7° 38'	"	0 ^h 58 ^m E	14 ^h 49 ^m 38 ^s to 15 ^h 29 ^m 38 ^s	"
690	Lynx Variable	6 ^h 52.4	+51° 08'	"	0 ^h 43 ^m E	15 ^h 48 ^m 38 ^s to 16 ^h 18 ^m 38 ^s	"
691	"	6 ^h 52.0	+51° 58'	"	0 ^h 35 ^m W	16 ^h 32 ^m 38 ^s to 17 ^h 02 ^m 38 ^s	"
692	"	"	"	Oct 30	0 ^h 38 ^m W	17 ^h 19 ^m 38 ^s - 1 hour 12 ^m 38 ^s and exp	"
693	"	"	"	"	4 ^h 26 ^m E	11 ^h 47 ^m 56 ^s to 12 ^h 17 ^m 56 ^s	04 ^s Slow
694	"	"	"	"	3 ^h 48 ^m E	12 ^h 25 ^m 56 ^s to 12 ^h 55 ^m 56 ^s	"
695	Lynx Var.	6 ^h 52 ^m	+51° 58'	Monday	3 ^h 03 ^m E	13 ^h 06 ^m 56 ^s to 13 ^h 37 ^m 56 ^s	"
696	"	"	"	Tuesday	2 ^h 32 ^m E	13 ^h 44 ^m 56 ^s to 14 ^h 11 ^m 56 ^s	"
697	"	"	"	Nov. 15	3 ^h 39 ^m E	11 ^h 32 ^m 50 ^s to 12 ^h 02 ^m 55 ^s	47 ^s fast
698	"	"	"	"	2 ^h 19 ^m E	12 ^h 48 ^m 47 ^s to 13 ^h 21 ^m 47 ^s	"
699	28 Andromedae	0 ^h 27.0	+29° 30'	Nov. 16	1 ^h 20 ^m E	14 ^h 10 ^m 46 ^s to 14 ^h 40 ^m 46 ^s	46 ^s fast
700	"	"	"	"	0 ^h 02 ^m W	15 ^h 11 ^m 46 ^s to 15 ^h 42 ^m 50 ^s	"
701	"	"	"	"	0 ^h 25 ^m W	17 ^h 37 ^m 45 ^s to 18 ^h 37 ^m 40 ^s	40 ^s fast
702	Lynx Variable	6 ^h 53.7	+52° 00'	Nov. 18	1 ^h 40 ^m W	9 ^h 50 ^m 40 ^s to 10 ^h 50 ^m 40 ^s	"
703	"	6 ^h 53.7	+52° 00'	Nov. 21	1 ^h 06 ^m W	7 ^h 10 ^m 24 ^s to 10 ^h 10 ^m 44 ^s	24 ^s fast
704	"	6 ^h 52.0	"	Nov. 22	5 ^h 03 ^m E	9 ^h 45 ^m 56 ^s to 10 ^h 15 ^m 53 ^s	7 ^s Slow
705	"	"	+52° 00'	"	4 ^h 47 ^m E	9 ^h 55 ^m 00 ^s to 10 ^h 25 ^m 00 ^s	10 ^s approximate
706	"	6 ^h 52.2	+51° 08'	Nov. 25	3 ^h 55 ^m E	10 ^h 44 ^m 38 ^s to 11 ^h 19 ^m 38 ^s	"
707	BN Monocerotis	6 ^h 17.7	+7° 38'	Nov. 26	4 ^h 21 ^m E	10 ^h 10 ^m 25 ^s to 10 ^h 40 ^m 00 ^s	17 ^s Slow
708	"	12 ^h 25.5	+26° 38'	Nov. 26	2 ^h 24 ^m E	12 ^h 03 ^m 42 ^s to 12 ^h 03 ^m 42 ^s	42 ^s Fast
					0 ^h 04 ^m E	10 ^h 02 ^m to 11 ^h 02 ^m	48 ^s Fast

1938

Instrmt or Aperture	PLATE Emulsion or Brand	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		KIND	TIME	TEMP.	Trans	Speed				
13"	4x5 East 40	Ross Metal	7 ^m	68-67	Good	2	TOP	N	HG	
"	"	"	7 ^m	68-66	"	3	W	N	"	
"	"	"	7 ^m	71-68	Good	3	"	"	"	
"	"	"	7 ^m	"	"	"	"	"	"	
"	"	"	9 ^m	"	"	"	"	"	"	
"	"	"	8 ^m	69-67	good	1	"	"	"	
"	"	"	7 ^m	68	Good	4	"	"	"	
"	"	"	"	"	"	1	"	"	"	
"	"	"	"	"	"	2	"	"	"	
"	Star 4 Iso Prosto	"	7 ^m	68-67	"	"	"	"	"	5V7 = 15 Filter
"	4x5 Eastman 40	"	"	"	"	2	"	"	"	
"	"	"	"	"	"	2	"	"	"	
"	"	"	"	"	"	"	"	"	"	7 ^h 31 ^m Set. 5 sec
"	"	"	7 1/2 ^m	70-68	Good	1	"	"	"	1/2 plate darken
"	"	"	"	"	"	1	"	"	"	
"	"	"	"	"	"	1	"	"	"	1/2 plates
"	"	"	7 ^m	68	Good	2	"	"	"	
"	"	"	"	"	"	1	"	"	"	
"	"	"	7 1/2 ^m	"	"	1	"	"	"	
"	"	"	"	"	"	3	"	"	"	
13" E-S"	4x17 8x10 Hamer UR Pan	Wallace Hydro	8 ^m	74-68	Good	3+	W	S	"	1/2 plate
"	"	"	"	"	"	2	E	N	"	1/2 plate
"	"	"	"	74-70	Good	3	W	"	"	
13"	4x5 Eastman 40	Ross Metal	7 1/2 ^m	68	Good	1-	"	"	"	1/2 plate
"	"	"	7 1/2 ^m	70	Good	2	"	"	"	1/2 plate
"	"	"	7 1/2 ^m	68	"	"	"	"	"	
"	"	"	"	"	Good	1-	"	"	"	
"	"	"	7 1/2 ^m	"	Good	2-	"	"	"	
"	"	"	"	"	"	2-	"	"	"	

NEG. NO.	REGION		DATE 1939	Hour Angle	EXPOSURE TIME	WATCH ERROR
	Guide Star	R.A. Dec.				
708	v Aries (4950)	2 ^h 35 ^m 9 ^s +21°48'	Tuesday Jan 10	0 ^h 08 ^m W	7 ^h 21 ^m 55 ^s to 7 ^h 51 ^m 45 ^s	45 ^s Fast
709	"	2 ^h 35.9 +21 48	"	3 24 W	10 ^h 38 ^m 45 ^s to 11 ^h 06 ^m 47 ^s	47 ^s Fast
710	Lynx Variable	6 ^h 54.0 +52°00'	Wednesday Jan 11	3 ^h 54 ^m E	7 ^h 31 ^m 52 ^s to 8 ^h 01 ^m 52 ^s	52 ^s Fast
711	"	"	"	7 ^h 57 ^m E	9 ^h 32 ^m 52 ^s to 10 ^h 02 ^m 52 ^s	"
712	Asteroid #750	7 ^h 08 ^m +27°00'	Jan 11	0 ^h 20 ^m W	11 ^h 44 ^m 04 ^s to 12 ^h 24 ^m 04 ^s	52 ^s Fast
713	Lynx Variable	6 ^h 52.2 +51°09'	"	1 ^h 07 ^m W	12 ^h 32 ^m 54 ^s to 13 ^h 03 ^m 54 ^s	"
714	"	6 ^h 54.1 +52°00'	Thursday Jan 12	3 ^h 34 ^m E	7 ^h 50 ^m 46 ^s to 8 ^h 20 ^m 46 ^s	46 ^s Fast
715	"	"	"	"	6-1 ^m Exp.	"
716	"	"	Jan 12	0 ^h 44 ^m E	10 ^h 40 ^m 46 ^s to 11 ^h 10 ^m 46 ^s	"
717	Asteroid #750	7 ^h 08 ^m +27°00'	"	0 ^h 13 ^m W	11 ^h 22 ^m 46 ^s to 12 ^h 12 ^m 46 ^s	45 ^s Fast
718	Lynx Variable	6 ^h 52.2 +51°08'	"	1 ^h 55 ^m W	13 ^h 21 ^m 50 ^s to 13 ^h 46 ^m 50 ^s	"
719	"	6 ^h 54.7 +52°00'	Friday Jan 13	3 ^h 14 ^m E	8 ^h 05 ^m 49 ^s to 8 ^h 35 ^m 49 ^s	49 ^s fast
720	"	"	"	1 ^h 50 ^m E	9 ^h 20 ^m 49 ^s to 10 ^h 00 ^m 00 ^s	"
721	"	"	"	1 ^h 04 ^m E	10 ^h 05 ^m 49 ^s to 10 ^h 46 ^m 15 ^s	"
722	"	"	Saturday Jan 14	3 ^h 24 ^m E	6 ^h 42 ^m 48 ^s to 7 ^h 22 ^m 48 ^s	48 ^s fast
723	"	"	"	0 ^h 17 ^m E	10 ^h 59 ^m 48 ^s to 11 ^h 29 ^m 59 ^s	"
724	"	"	"	0 ^h 19 ^m W	11 ^h 35 ^m 48 ^s to 12 ^h 05 ^m 48 ^s	"
725	"	"	"	0 ^h 54.2 W	12 ^h 10 ^m 48 ^s to 12 ^h 40 ^m 48 ^s	"
726	"	"	"	1 ^h 33 ^m W	12 ^h 48 ^m 55 ^s to 13 ^h 18 ^m 55 ^s	"
727	"	"	"	2 ^h 49 ^m W	14 ^h 04 ^m 48 ^s to 14 ^h 34 ^m 48 ^s	"
728	"	6 ^h 54.0 +52°00'	"	4 ^h 11 ^m W	15 ^h 25 ^m 48 ^s to 15 ^h 55 ^m 48 ^s	47
729	"	"	"	5 ^h 37 ^m W	16 ^h 51 ^m 48 ^s to 17 ^h 21 ^m 48 ^s	"
730	"	"	Monday Jan 16	5 ^h 42 ^m W	16 ^h 54 ^m to 17 ^h 20 ^m 04 ^s	"
731	"	6 ^h 52.5 +51°09'	Tuesday Jan 17	2 ^h 58 ^m E	8 ^h 04 ^m 00 ^s to 8 ^h 34 ^m 00 ^s	48 ^s Fast
732	BN Monoceros	6 ^h 17.0 +7°48'	Jan 17	1 ^h 02 ^m E	9 ^h 36 ^m 48 ^s to 9 ^h 56 ^m 48 ^s	"
733	"	"	"	0 ^h 33 ^m E	10 ^h 04 ^m 48 ^s to 10 ^h 24 ^m 48 ^s	"
734	Peltier Comet Region	20 ^h 27 ^m +30°12'	Jan 23	6 ^h 32 ^m W	6 ^h 55 ^m 12 ^s to 7 ^h 16 ^m 12 ^s	12 ^s fast
735	"	21 ^h 27 ^m +30°	"	6 ^h 14 ^m W	7 ^h 43 ^m 12 ^s to 8 ^h 03 ^m 12 ^s	"
736	"	21 ^h 57 ^m +26°32'	"	6 ^h 47 ^m W	8 ^h 26 ^m 50 ^s to 8 ^h 53 ^m 50 ^s	"
737	"	"	"	6 ^h 52 ^m W	9 ^h 01 ^m 00 ^s to 9 ^h 06 ^m 00 ^s	12 ^s fast
738	Super Nova NGC 4636	12 ^h 39.7 +2°58'	Monday Jan 24	2 ^h 24 ^m E	13 ^h 32 ^m 11 ^s to 14 ^h 32 ^m 11 ^s	"
739	Peltier Comet	21 ^h 55 ^m +26°20'	Jan 24	5 ^h 05 ^m W	6 ^h 58 ^m 00 ^s to 7 ^h 13 ^m 20 ^s	17 ^s fast
740	"	21 ^h 55 +26°20'	Jan 24	5 ^h 32 ^m W	7 ^h 16 ^m 00 ^s to 7 ^h 26 ^m 20 ^s	"
741	"	21 ^h 55 1/2 +25°55'	"	6 ^h 09 ^m W	7 ^h 36 ^m 20 ^s to 7 ^h 41 ^m 20 ^s	"
			"		7 ^h 47 ^m 20 ^s to 8 ^h 17 ^m 20 ^s	"

Instrument or Aperture	Emulsion or PLATE	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		KIND	TIME	TEMP	Trans	Stead				
13"	12x15 Imperial	Wallace H.	8 ^m	82-66	Good	1-2	W	N	H.G.	To find Asteroid 1937 PA
"	"	"	8	72-66	"	"	E	S	"	"
"	4x5 E. 40	Ross Metal	7 ^m	70-68	Good	3+	W	N	"	1/2 plate
"	"	"	"	"	"	"	"	"	"	"
"	"	Wallace Hyd	8	70	Good	3-	"	"	"	"
"	"	Ross Metal	7	68	"	2+	"	"	"	moon on h 12 ^h 34 ^m
"	"	"	7	70	Fair	3	"	"	"	"
"	3/4x4 Imperial	"	8	68	"	"	"	"	"	From plate 1/4 turn from 1/2 turn in to 1/2 turn out.
"	4x5 E 40	"	7	70	Fair+	3	"	"	"	"
"	"	Wallace Hyd	8	70	Good	3-2	"	"	"	"
"	3/4x4 48 Imp.	Ross Metal	7	69	Good	3	"	"	"	"
"	E 40	"	7	69-63	Good	3	"	"	"	"
"	"	"	"	69-68	Fair	2	"	"	"	Hi wind.
"	"	"	"	"	Fair+	2	"	"	"	"
"	"	"	"	"	Fair+	0	"	"	"	"
"	"	"	"	"	Good	2	"	"	"	"
"	"	"	"	"	"	3	"	"	"	"
"	"	"	"	"	"	3-	"	"	"	"
"	"	"	"	"	"	3±	"	"	"	"
"	"	"	"	"	"	2±	"	"	"	"
"	"	"	"	"	"	2	E	S	"	"
"	"	"	"	"	"	2+	"	"	"	"
"	Imperial Eo 154	"	"	"	Good	2	"	"	"	"
"	"	"	"	"	Good	2+	W	N	"	"
"	Eastman 40	"	7	70°	Good	3	"	"	"	1/2 plate
"	"	"	"	"	"	3	"	"	"	"
5" Cooke	8110 Iso Med.	Wallace Hyd	10	68	Good	0	E	S	"	"
"	"	"	"	65	"	"	"	"	"	"
5" + 13"	15" Hamner URP	"	"	70	"	"	"	"	"	"
13"	5x7 E. 40	"	8	70	"	"	"	"	"	This plate shows nothing
"	4x5 Hamner URP.	"	"	70	Good	0	W	N	"	"
"	4x5 Eastman 40	"	8	70	Good	1	E	S	"	"
"	"	"	8	"	"	1	"	"	"	"
"	"	Ross Metal	7	68	"	1-	"	"	"	"

NEG. NO.	REGION		DATE 1939	Hour Angl. End of Exposure	Exposure Time Old Astronomical/Day	WATCH ERROR	Instrument of Aperture	Emulsion or Plate	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A. Dec.							KIND	TIME	TEMP	Trans.	Struc.				
742	S.A. # 103 Super Nova NGC 4636	11 ^h 51.9 ^m -1° 05'	Jan 24	2 ^h 40 ^m E	12 ^h 35 ^m 15 ^s to 13 ^h 25 ^m 15 ^s	15 ^s fast	13"	4X5 Eastman 40	Wallace Hydro	8	70	good	1	W	N	H.G.	
743	Peltier Comet	22 ^h 04 ^m +25° 06'	Jan 25 Wednesday	2 ^h 21 ^m E	13 ^h 35 ^m 15 ^s to 14 ^h 25 ^m 15 ^s	11 ^s fast	"	"	"	"	"	good	0	E	S	"	
743	"	"	"	5 ^h 03 ^m W	7 ^h 06 ^m 11 ^s to 7 ^h 07 ^m 11 ^s	"	"	"	"	"	"	"	"	"	"	"	
744	"	"	"	"	7 ^h 10 ^m 11 ^s to 7 ^h 16 ^m 11 ^s	"	"	"	"	"	"	"	"	"	"	"	
745	"	22 ^h 03 ^m +25° 20'	"	5 ^h 41 ^m W	7 ^h 22 ^m 30 ^s to 7 ^h 52 ^m 30 ^s	10 ^s fast	"	4X5 Iso Presto	"	"	"	"	"	"	"	"	
746	S.A. # 103 Super Nova NGC 4636	11 ^h 52.3 ^m +1° 29'	Jan 25	2 ^h 42 ^m E	12 ^h 38 ^m 10 ^s to 13 ^h 18 ^m 20 ^s	9 ^s fast	"	4X5 Eastman 40	"	"	"	good	1	W	N	"	1/2 plate
747	"	12 ^h 39.4 ^m +1° 42'	"	2 ^h 40 ^m E	13 ^h 27 ^m 9 ^s to 14 ^h 07 ^m 19 ^s	"	"	"	"	"	"	"	"	"	"	"	
748	Peltier Comet	22 ^h 03 ^m +25° 59'	"	2 ^h 01 ^m E	14 ^h 16 ^m 09 ^s to 14 ^h 47 ^m 09 ^s	"	"	"	"	"	"	"	"	"	"	"	
748	Peltier Comet	22 ^h 10 ^m +24° 40'	Jan 26	4 ^h 47 ^m W	6 ^h 48 ^m 03 ^s to 7 ^h 02 ^m 03 ^s	02 ^s S. fast	"	"	"	8	70-67	Fair	2	E	S	"	
749	"	"	"	4 ^h 57 ^m W	7 ^h 05 ^m 03 ^s to 7 ^h 11 ^m 03 ^s	"	"	"	"	9	"	"	"	"	"	"	
750	"	22 ^h 11 ^m +24° 41'	"	5 ^h 21 ^m W	7 ^h 15 ^m 03 ^s to 7 ^h 36 ^m 03 ^s	01 ^s fast	"	8X10 Iso Presto	"	9	71-68	Fair	"	"	"	"	Hazy - image of comet gone
751	Super Nova	12 ^h 40.5 ^m +3° 00'	"	1 ^h 53 ^m E	14 ^h 16 ^m 00 ^s to 14 ^h 51 ^m 00 ^s	"	"	4X5 Eastman 40	"	"	"	Fair	2	W	N	"	
752	Cosik-Peltier	22 ^h 27 ^m +23° 09'	Jan 28 Saturday	4 ^h 55 ^m W	7 ^h 08 ^m 07 ^s to 7 ^h 18 ^m 07 ^s	6 ^s fast	"	4X5 "	"	8	71-68	Good	1	E	S	"	
753	"	"	"	5 ^h 23 ^m W	7 ^h 20 ^m 06 ^s to 7 ^h 46 ^m 06 ^s	"	"	4X5 Iso Presto	"	8	71-68	"	"	"	"	"	
754	Lynx Variable	6 ^h 52.2 ^m +51° 08'	"	2 ^h 07 ^m E	8 ^h 11 ^m 06 ^s to 8 ^h 41 ^m 06 ^s	"	"	Eastman 40	Ross Metal	7	68	"	2	W	N	"	
755	Aurion in sky!!	12 ^h 41 ^m +7° 58'	"	3 ^h 35 ^m E	12 ^h 38 ^m 06 ^s to 13 ^h 03 ^m 06 ^s	"	"	"	Wallace Hydro	8	"	"	1	"	"	"	Wrong setting! Too blurry.
756	"	"	"	2 ^h 48 ^m E	13 ^h 07 ^m 10 ^s to 13 ^h 48 ^m 10 ^s	10 ^s fast	"	"	"	"	"	"	0	"	"	"	
757	Super Nova	"	"	1 ^h 51 ^m E	14 ^h 10 ^m 10 ^s to 14 ^h 45 ^m 10 ^s	"	"	"	"	"	"	"	0	"	"	"	
758	"	12 ^h 40 ^m +3° 00'	Feb 1 Wed. AM.	2 ^h 03 ^m W	17 ^h 44 ^m 00 ^s to 18 ^h 21 ^m 00 ^s	on time	"	"	"	"	76-70	Fair+	2	"	"	"	
759	a Pegasus.	23 ^h 02 ^m +15° 00'	Feb 2	4 ^h 58 ^m W	7 ^h 22 ^m 10 ^s to 7 ^h 37 ^m 05 ^s	corrected	"	"	"	6+	70	good	2+	E	S	"	Bright moonlight
760	Super Nova	12 ^h 40 ^m +3° 00'	Feb 2	3 ^h 46 ^m E	12 ^h 10 ^m 00 ^s to 12 ^h 30 ^m 05 ^s	corrected	"	"	"	6	"	good	2-	W	N	"	
761	Cosik-Peltier Comet	0 ^h 17 ^m +6° 00'	Feb 9	4 ^h 17 ^m W	7 ^h 30 ^m 25 ^s to 7 ^h 42 ^m 25 ^s	35 ^s Slow	"	"	"	14	71-	Fair	2	E	S	"	S.T. set only, approx from clock.
762	"	0 ^h 15 ^m 1/2 +6° 09'	Feb 9	4 ^h 49 ^m W	7 ^h 47 ^m 00 ^s to 8 ^h 13 ^m 00 ^s	"	"	8X10 Iso Presto	"	14+	71-68	Fair	4	"	"	"	
763	Super Nova in 4636	12 ^h 40.1/2 ^m +3° 00'	"	3 ^h 11 ^m E	12 ^h 02 ^m 25 ^s to 12 ^h 37 ^m 25 ^s	"	"	4X5 Eastman 40	"	8	71-	Fair	2-	W	N	"	Pope Died
764	Cosik-Peltier	0 ^h 33.2 ^m +2° 32'	Feb 11 Saturday	3 ^h 54 ^m W	7 ^h 10 ^m 21 ^s to 7 ^h 26 ^m 21 ^s	39 ^s Slow	"	"	"	"	"	good	2	E	S	"	S.T. set approx
765	"	0 ^h 34.0 ^m +2° 22'	Feb 11	4 ^h 28 ^m W	7 ^h 33 ^m 21 ^s to 8 ^h 03 ^m 21 ^s	39 "	"	8X10 Home V.R.P.	"	"	"	"	"	"	"	"	
766	Lynx Variable	6 ^h 52.6 ^m +51° 08'	"	0 ^h 23 ^m E	9 ^h 04 ^m 21 ^s to 9 ^h 30 ^m 21 ^s	"	"	4X5 Eastman 40	Ross Metal	6+	70°	"	1	W	N	"	
767	S.A. # 103	11 ^h 51.9 ^m -1° 04'	"	1 ^h 30 ^m E	12 ^h 32 ^m 21 ^s to 13 ^h 22 ^m 21 ^s	39 ^s Slow	"	"	Wallace Hydro	8	"	good	2	"	"	"	
768	Super Nova in	12 ^h 40.9 ^m +3° 29'	"	1 ^h 22 ^m E	13 ^h 28 ^m 21 ^s to 14 ^h 18 ^m 21 ^s	"	"	"	"	8	"	"	"	"	"	"	
769	"	12 ^h 40.4 ^m +3° 00'	Feb 13 Monday	2 ^h 33 ^m E	12 ^h 19 ^m 30 ^s to 12 ^h 59 ^m 30 ^s	30 ^s Slow	"	"	"	"	72-69	"	1-	"	"	"	
770	Cosik-Peltier Comet	0 ^h 58.0 ^m -3° 46'	Feb 14 Tuesday	1 ^h 40 ^m E	13 ^h 05 ^m 30 ^s to 13 ^h 53 ^m 30 ^s	"	"	"	"	"	"	"	1	"	"	"	
771	"	0 ^h 58.0 ^m -3° 29'	"	3 ^h 43 ^m W	7 ^h 16 ^m 31 ^s to 7 ^h 31 ^m 31 ^s	39 ^s Slow	"	"	"	"	"	good	2	E	S	"	S.T. set approx from clock.
772	Lynx Variable	6 ^h 52.0 ^m +51° 08'	Feb 14	4 ^h 17 ^m W	7 ^h 36 ^m 00 ^s to 8 ^h 06 ^m 00 ^s	"	"	4X5 Iso Presto	"	"	"	"	"	"	"	"	
773	S.A. # 103 Super Nova NGC 4636	11 ^h 52.5 ^m +1° 29'	"	0 ^h 46 ^m E	8 ^h 35 ^m 00 ^s to 9 ^h 00 ^m 00 ^s	"	"	4X5 Home V.R.P.	"	"	"	"	3	W	N	"	
773	"	12 ^h 39.6 ^m +1° 43'	Feb 15	0 ^h 28 ^m E	13 ^h 17 ^m 38 ^s to 14 ^h 07 ^m 38 ^s	25 ^s Slow	"	4X5 Eastman 40	"	"	73-70	good	2+	"	"	"	

NEG. NO.	R E G I O N		DATE 1939	Hour Angle End of Exposure	EXPOSURE TIME Old Astronomical Day	Watch Error
	Guide Star	R.A. Dec.				
774	Cosik-Peltier Comet	1 ^h 44 ^m -14° 05'	Feb 20	3 ^h 41 ^m W	7 ^h 35 ^m 22 to 7 ^h 49 ^m 22	37 ^s Slow
775	" " "	1 ^h 45 ^m -14° 10'	Feb 20	4 ^h 05 ^m W	7 ^h 55 ^m 00 to 8 ^h 15 ^m 00	"
776	Lynx Variable	6 ^h 52.3 +51° 08'	Feb 20	0 ^h 02 ^m E	8 ^h 39 ^m 30 to 9 ^h 15 ^m 30	"
777	" " "	6 ^h 54.0 +51° 34'	"	3 ^h 12 ^m W	10 ^h 16 ^m 23 to 10 ^h 46 ^m 23	37 ^s Slow
778	Super Nova NGC. 4636	12 ^h 39.8 +1° 42'	"	1 ^h 10 ^m E	12 ^h 54 ^m 23 to 13 ^h 04 ^m 23	"
779	Lynx Variable	6 ^h 52.2 +51° 08'	Feb 21	2 ^h 57 ^m W	11 ^h 08 ^m 05 to 12 ^h 11 ^m 05	42 ^s Slow
780	Super Nova	12 ^h 40.6 +1° 31'	Feb 21	1 ^h 34 ^m E	12 ^h 27 ^m 18 to 13 ^h 27 ^m 18	"
781	" " "	1 ^h 58.4 -6° 45'	Feb 22	3 ^h 45 ^m W	7 ^h 41 ^m 15 to 8 ^h 01 ^m 15	45 ^s Slow
782	Cosik-Peltier Comet	1 ^h 56.0 -17° 15'	Feb 22	4 ^h 17 ^m W	8 ^h 06 ^m 30 to 8 ^h 31 ^m 30	"
783	Lynx Variable	6 ^h 54.0 +51° 30'	Feb 22	2 ^h 20 ^m W	4 ^h 58 ^m 15 to 9 ^h 48 ^m 15	"
784	" " "	6 ^h 54.5 +51° 29'	Feb 22	3 ^h 00 ^m W	10 ^h 39 ^m 15 to 11 ^h 29 ^m 15	"
785	Cosik-Peltier Comet	2 ^h 02 ^m -18° 42'	Feb 23	3 ^h 32 ^m W	7 ^h 27 ^m 10 to 7 ^h 49 ^m 10	50 ^s Slow
786	" " "	" " "	Feb 23	3 ^h 57 ^m W	7 ^h 53 ^m 10 to 8 ^h 13 ^m 10	"
787	Lynx Variable	6 ^h 52.0 +51° 29'	"	0 ^h 06 ^m E	8 ^h 45 ^m 10 to 9 ^h 00 ^m 10	"
788	Cosik-Peltier Comet	2 ^h 10.1 -20° 20'	Feb 24	0 ^h 57 ^m W	9 ^h 48 ^m 10 to 10 ^h 03 ^m 10	"
789	" " "	2 ^h 10.2 -20° 03'	Feb 24	3 ^h 24 ^m W	7 ^h 28 ^m 11 to 7 ^h 44 ^m 11	11 ^s fast
790	Lynx Variable	6 ^h 54.0 +51° 30'	Feb 24	3 ^h 50 ^m W	7 ^h 52 ^m 11 to 8 ^h 10 ^m 11	"
791	" " "	" " "	"	0 ^h 06 ^m E	8 ^h 47 ^m 11 to 9 ^h 59 ^m 11	"
792	" " "	" " "	"	0 ^h 54 ^m W	9 ^h 46 ^m 11 to 9 ^h 58 ^m 11	"
793	" " "	6 ^h 54.5 +51° 29'	March 7	2 ^h 03 ^m W	10 ^h 54 ^m 10 to 11 ^h 06 ^m 10	10 ^s fast
794	" " "	" " "	"	2 ^h 05 ^m W	10 ^h 00 ^m 50 to 10 ^h 24 ^m 50	"
795	" " "	" " "	"	3 ^h 30 ^m W	11 ^h 28 ^m 50 to 11 ^h 48 ^m 50	10 ^s Slow
796	" " "	" " "	"	2 ^h 30 ^m W	10 ^h 29 ^m 50 to 10 ^h 49 ^m 50	"
797	Near S.A 77	9 ^h 14 ^m +13° 27'	March 11	4 ^h 30 ^m W	12 ^h 23 ^m 50 to 12 ^h 49 ^m 50	"
798	" " "	" " "	March 11	0 ^h 33 ^m E	9 ^h 06 ^m 44 to 9 ^h 51 ^m 44	16 ^s Slow
799	BN Monocerotis	6 ^h 17.8 +7° 37'	March 13	0 ^h 46 ^m W	10 ^h 25 ^m 44 to 11 ^h 10 ^m 44	"
800	" " "	" " "	March 13	2 ^h 03 ^m W	9 ^h 03 ^m 00 to 9 ^h 23 ^m 00	20 ^s Slow
801	Lynx Variable	6 ^h 52.3 +51° 08'	Mar. 13	2 ^h 32 ^m W	9 ^h 31 ^m 40 to 9 ^h 51 ^m 40	"
802	" " "	" " "	Mar. 14	0 ^h 08 ^m W	7 ^h 37 ^m 42 to 7 ^h 59 ^m 42	18 ^s Slow
803	" " "	" " "	Mar. 14	2 ^h 13 ^m W	8 ^h 03 ^m 42 to 10 ^h 04 ^m 42	"
804	" " "	6 ^h 54.1 +51° 29'	"	2 ^h 55 ^m W	10 ^h 16 ^m 42 to 10 ^h 46 ^m 42	"
805	" " "	" " "	"	3 ^h 29 ^m W	10 ^h 54 ^m 42 to 11 ^h 20 ^m 42	"
806	" " "	6 ^h 52.7 +51° 08'	Mar 15	2 ^h 54 ^m W	10 ^h 11 ^m 00 to 10 ^h 41 ^m 00	18 ^s Slow
"	" " "	" " "	"	3 ^h 38 ^m W	10 ^h 55 ^m 00 to 11 ^h 25 ^m 00	"
807	" " "	" " "	Mar 15	4 ^h 23 ^m W	11 ^h 39 ^m 00 to 12 ^h 09 ^m 00	"
808	" " "	" " "	Mar 16	6 ^h 30 ^m W	13 ^h 47 ^m 45 to 14 ^h 12 ^m 45	15 ^s Slow
809	" " "	6 ^h 53 +51° 29'	Friday A.M.	7 ^h 05 ^m W	14 ^h 21 ^m 45 to 14 ^h 47 ^m 45	"
810	" " "	" " "	"	7 ^h 52 ^m W	14 ^h 54 ^m 45 to 15 ^h 34 ^m 45	"
811	" " "	" " "	"	8 ^h 30 ^m W	15 ^h 42 ^m 45 to 16 ^h 12 ^m 45	"

Instrument of Aperture	Plate of Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		KIND	TIME	TEMP	Trans	Stead				
13"	4x5 Eastman 40	Ross Metal	7+	68-67	Good	2-	E	S	H.G.	
"	" Iso Presto	"	"	"	"	"	"	"	"	
"	4x5 Eastman 40	Wallace Hydro	8	"	"	3+	W	N	"	Trail Plate
"	4x5 Eastman 40	Ross Metal	7+	68	"	2-	"	"	"	5/2 plate open trail 4 2 m Expanded to identify
"	"	Wallace Hydro	8	70-68	"	1	"	"	"	
"	"	Ross Metal	7+	"	Good	3	"	"	"	Trail Pl.
"	"	Wallace Hydro	8	"	"	3±	"	"	"	
"	Iso Presto 4x5	Ross Metal	7+	"	Good	2	E	S	"	
"	Eastman 40 100	"	"	"	"	2	"	"	"	
"	" " "	"	"	"	Fair	3	W	N	"	2 m exp. to identify end same place as above 2 m exp. to identify end.
"	" " "	"	"	"	-69 Fair	2	E	S	"	
"	Iso Presto 4x5	"	7+	"	good	2	"	"	"	S.T. set approx.
"	Eastman 40	"	10 m	"	"	"	"	"	"	
"	" " "	"	8 m	"	"	3+	W	N	"	S.T. set approx.
"	" " "	"	"	"	good	2	E	S	"	
"	" " "	"	"	"	"	"	"	"	"	
"	" " "	"	8 m	-67	good	3	W	N	"	1/2 plate
"	" " "	"	"	"	"	"	E	S	"	
"	" " "	"	7 m	-67	good	3	W	S	"	
"	" " "	"	"	"	"	"	W	N	"	
"	" " "	"	"	"	"	"	E	S	"	
13" & 5"	Hammer Ultra Rapid Process	Wallace Hydro	8 m	70	1/2 good	3	W	N	"	1 1/2 plate open plates ground from lens 1 1/2 plate open Comparison of Pico XII Radio
13"	Eastman 40	"	"	"	good	2+	W	N	"	
"	"	"	"	"	"	"	E	S	"	
"	"	Ross Metal	7 m	68±	good	2+	W	N	"	Micro copy, 2.8-8.25, 4.75-9.05
"	"	"	"	"	"	"	"	"	"	Trail plate
"	"	"	"	"	"	3+	"	"	"	1 1/2 plate
"	"	"	"	"	"	"	E	S	"	
"	"	"	"	"	good	2-	"	"	"	
"	"	"	"	"	"	"	"	"	"	
Min!	"	"	"	"	"	"	"	"	"	Short 1 1/2 v pad end to identify
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	good	2-	"	"	"	
"	"	"	"	"	"	1	"	"	"	
"	"	"	"	"	"	1	"	"	"	Well! Fogged in dark room

NEG NO.	REGION			DATE 1939	Hour Angle and Exposure	Exposure Time Old Astro. Day	WATCH ERROR	Instrument or App.	PLATE Emulsion or Brand	DEVELOPMENT			SEEING		Position of Telescope	writing on Plate	Observer	REMARKS
	Guide Star	R.A.	Dec.							Kind	Time	Temp	Trans	Stead				
809	BN Monocerotis	6 ^h 18 ^m	+7°37'	March 23 Thursday	2 ^h 05 ^m W	8 ^h 09 ^m 21 ^s to 8 ^h 39 ^m 21 ^s	39 ^s Slow	13"	4X5 Eastman 40	Wallace Hydro	8	70	good	3	E	S	H.G.	
810	"	"	"	March 23	2 ^h 35 ^m W	8 ^h 45 ^m 21 ^s to 9 ^h 15 ^m 21 ^s	"	"	"	"	"	"	"	"	"	"	"	
811	Lynx Variable	6 ^h 52.5 ^m	+51°08'	Mar. 23	4 ^h 28 ^m W	11 ^h 13 ^m 21 ^s to 11 ^h 43 ^m 21 ^s	"	"	"	Ross Metal	7	68	"	2	"	"	"	
812	"	"	"	"	5 ^h 07 ^m W	11 ^h 53 ^m 21 ^s to 12 ^h 23 ^m 21 ^s	"	"	"	"	"	"	fair	2	"	"	"	30 ^s Exp. over to last exp.
813	"	"	"	"	6 ^h 09 ^m W	12 ^h 45 ^m 21 ^s to 13 ^h 25 ^m 21 ^s	"	"	"	"	"	"	Paper	"	"	"	"	1/2 Exp. thin thick clouds
614	Comet Väisälä 1939CB	9 ^h 42.5 ^m	+24°08'	Mar. 24	0 ^h 06 ^m E	9 ^h 10 ^m 35 ^s to 9 ^h 55 ^m 35 ^s	25 ^s Slow	"	4x10 Hammer Ultra RP.	Wallace Hydro	8	70	good	3	W	N	"	covered & uncovered by clouds
615	Asteroid # 1011	10 ^h 52 ^m	+15°38'	Friday Mar. 24	0 ^h 34 ^m W	10 ^h 54 ^m 35 ^s to 11 ^h 44 ^m 35 ^s	"	"	4x5 Eastman 40	"	"	"	"	3	"	"	"	
616	Comet Väisälä 1939CB.	9 ^h 42.9 ^m	+24°08'	Mar. 25	0 ^h 37 ^m W	9 ^h 51 ^m 32 ^s to 10 ^h 36 ^m 38 ^s	38 ^s Slow	"	4x10 Ham. V.R. Press	"	"	"	good	3	"	"	"	
617	Asteroid # 1011	10 ^h 52 ^m	+15°38'	Mar. 25	0 ^h 26 ^m W	10 ^h 42 ^m 32 ^s to 11 ^h 32 ^m 32 ^s	"	"	4x5 Eastman 40	"	"	"	good	"	"	"	"	
818	Lynx Var. trail pl.	6 ^h 52.2 ^m	+51°08'	Apr. 5	3 ^h 38 ^m W	8 ^h 15 ^m to 10 ^h 02 ^m	"	"	"	"	"	"	good	"	"	"	"	
819	"	6 ^h 52.2 ^m	+51°08'	Apr. 6	1 ^h 55 ^m W	7 ^h 55 ^m 25 ^s to 8 ^h 16 ^m 25 ^s	30 ^s Fast	"	"	Ross Metal	7	65	good	2	E	S	"	No guiding Moon on last 45 ^m Exp.
820	" trail plate	"	"	Thursday Apr. 6	4 ^h 00 ^m W	8 ^h 20 ^m 30 ^s to 10 ^h 20 ^m 30 ^s	30 ^s Fast	"	"	"	9	68	good	1	"	"	"	shutter closed 1 ^m before to 1 ^m after 9:00
821	"	"	"	"	4 ^h 26 ^m W	10 ^h 23 ^m 30 ^s to 10 ^h 44 ^m 30 ^s	"	"	"	"	8	"	good	"	"	"	"	" " 15 ^m " to 1 1/2 " 10:00
822	BN Monocerotis	6 ^h 18 ^m	+7°38'	April 8	3 ^h 03 ^m W	8 ^h 11 ^m 12 ^s to 8 ^h 41 ^m 12 ^s	12 ^s fast	"	"	Wallace Hydro	9	70	good	2	"	"	"	
823	"	6 ^h 18 ^m	"	Apr. 8	3 ^h 39 ^m W	8 ^h 46 ^m 12 ^s to 9 ^h 16 ^m 12 ^s	"	"	"	"	"	"	"	"	"	"	"	
824	Coma Bern. Group	12 ^h 25 ^m	+26°38'	Apr. 18	0 ^h 24 ^m E	10 ^h 02 ^m to 11 ^h 02 ^m	36 ^s Slow	5"	Agfa Film	Ross Metal	6	"	good	2	W	N	"	Wood Bi Priam grating on 5"
825	Dawson Object.	12 ^h 49 ^m	-34°40'	Apr. 18	0 ^h 46 ^m W	11 ^h 45 ^m 30 ^s to 12 ^h 15 ^m 30 ^s	"	"	"	"	8	"	"	1	"	"	"	
826	Coma Ber. Group.	12 ^h 24 ^m	+27°12'	"	2 ^h 49 ^m W	12 ^h 52 ^m 00 ^s to 13 ^h 52 ^m	"	"	Eastman 40	Wallace Hydro	8	"	"	"	"	"	"	
827	BN Monocerotis	6 ^h 18 ^m	+7°38'	Apr. 20	"	8 ^h 17 ^m 00 ^s to 8 ^h 37 ^m	on June	13"	Agfa Film	Ross Metal	6	"	"	2	"	"	"	Wood Bi Priam grating on 5"
828	Dawson Object	12 ^h 49 ^m	-34°40'	Apr. 20	0 ^h 21 ^m W	11 ^h 13 ^m 00 ^s to 11 ^h 43 ^m 00 ^s	on June	"	3 1/2 x 4 1/2 inch Ito Press	Wallace Hydro	8	70	good	3	W	S	"	5x7 yellow filter cloud broke down before finished
1359	7 th Star in Bootes	15 ^h 14.3 ^m	+51°12'	Apr. 20	0 ^h 46 ^m E	12 ^h 00 ^m 00 ^s to 13 ^h 00 ^m 00 ^s	"	5" 6 13"	Eastman 40	"	"	"	"	3	E	W	"	
830	BN Monocerotis	6 ^h 18 ^m	+7°37'	April 21	"	8 ^h 05 ^m 00 ^s to 8 ^h 30 ^m 00 ^s	corrected	13"	4x10 2 3 7055 B Ham. V.R. Press 3-7055 B	"	"	73-67	"	4	"	"	"	
831	"	"	"	Friday Apr. 21	4 ^h 08 ^m W	8 ^h 33 ^m 00 ^s to 8 ^h 55 ^m 00 ^s	June	"	Eastman 40	"	8	70	good	3	W	S	"	5x7 #15 filter
1360	7 th Double in Bootes	15 ^h 14 ^m	+51°10'	Apr. 23	1 ^h 04 ^m E	11 ^h 33 ^m 07 ^s to 12 ^h 33 ^m 07 ^s	07 ^s fast	13" 6 5"	3 1/2 x 4 1/2 inch Ito Press	"	"	70	"	"	"	"	"	
833	Lynx Var	6 ^h 52.2 ^m	+51°06'	Apr. 23	"	12 ^h 44 ^m 07 ^s to 13 ^h 07 ^m 07 ^s	"	"	4x5 Eastman 40	"	8	74-69	good	3	"	"	"	cloud set off
834	Super Nova in NGC 4636	12 ^h 40.1 ^m	+2°33'	Apr. 24	1 ^h 45 ^m W	13 ^h 53 ^m 06 ^s to 14 ^h 53 ^m 06 ^s	06 ^s fast	13" 6 5"	4x10 2 3 7055 B Ham. V.R. Press 3-7055 B	"	"	70	cloud	?	E	S	"	cloud set off
1361	7 th Double in Bootes	15 ^h 14 ^m	+51°10'	Apr. 26	1 ^h 30 ^m W	13 ^h 53 ^m 06 ^s to 14 ^h 53 ^m 06 ^s	06 ^s fast	13" 6 5"	"	"	8	"	fair	2	E	S	"	
836	Hassell Comet	5 ^h 11.4 ^m	+36°50'	Apr. 30	5 ^h 38 ^m W	8 ^h 30 ^m 45 ^s to 8 ^h 41 ^m 45 ^s	15 ^s Slow	13"	4x10 Ham. V.R. Press	1:20 Rodinal	4	66	good	2	E	S	"	Bright Moonlight.
837	"	5 ^h 10 ^m	+36°08'	May 2	5 ^h 35 ^m W	8 ^h 18 ^m 00 ^s to 8 ^h 32 ^m 00 ^s	38 ^s slow	13"	4x5 Eastman 40	1:20 Rodinal	6	"	good	"	"	"	"	"
838	"	5 ^h 37.5 ^m	+33°28'	May 4	5 ^h 58 ^m W	8 ^h 32 ^m 05 ^s to 9 ^h 02 ^m 20 ^s	5 ^s fast	13"	4x10 Ham. V.R. Press	Wallace Hydro	8 ^m	67	good	2	"	"	"	
839	Lynx Variable	6 ^h 53 ^m	+51°08'	May 6	5 ^h 23 ^m W	9 ^h 20 ^m 00 ^s to 9 ^h 45 ^m 00 ^s	15 ^s slow	13"	4x5 Eastman 40	Ross Metal	7 ^m	68	fair	3	"	"	"	1 ^m exp where first exp. 2 previous plate was made for id.
840	"	"	"	"	6 ^h 01 ^m W	9 ^h 50 ^m 00 ^s to 10 ^h 20 ^m 00 ^s	"	"	"	"	6 ^m	"	good	2	"	"	"	
841	"	"	"	Saturday May 6	6 ^h 40 ^m W	10 ^h 26 ^m 45 ^s to 11 ^h 01 ^m 50 ^s	"	"	"	"	5 ^m	"	good	1	"	"	"	
842	Hassell Comet	5 ^h 52 ^m	+31°08'	May 7	7 ^h 27 ^m W	11 ^h 19 ^m 00 ^s to 11 ^h 50 ^m 00 ^s	corrected June	"	"	"	7	74-68	good	1	"	"	"	

NEG. NO.	R E G I O N		DATE 1939	Hour Angle end of Exposure	Exposure Time Old Astronomical Day	Watch Error	Instrument or Aperture	Plate or Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A. Dec.							Kind	Time	Temp	Trans.	Stead				
843	Hassel Comet	6 ^h 00 ^m +29°50'	May 9	6 ^h 09 ^m W	8 ^h 45 ^m to 9 ^h 26 ^m	Corrected	13"	X110 Haman U.R. Press	Ross Metal	7 ^m	65	good	Fair	E	S	H.G.	
844	BN Monocerotis	6 ^h 18 +7°38'	May 11	5 ^h 33 W	8 ^h 40 ^m to 8 ^h 59 ^m	about 35 ^s fast	"	UX5 Fairman 40	Wallace Hydro	8	67	good	Fair	"	"	"	
1362 845	9 ^m Star	16 ^h 15.2 +50°50'	May 16	0 ^h 43 ^m E	11 ^h 23 ^m to 12 ^h 23 ^m	Corrected	13" + 5"	X110 Haman U.R. Press	"	8 ^m	72-70	good	3	W	N	"	
1363 846	BN Monocerotis	6 ^h 17.3 +7°38'	May 17	5 ^h 42 ^m W	8 ^h 38 ^m 30 to 8 ^h 45 ^m 00		13"	UX5 Fairman 40	"	9	70	good	2	Top	"	"	Followed into trees
24" 847	9 ^m Star	16 ^h 15.2 +50°50'	May 18	0 ^h 05 ^m W	12 ^h 03 ^m 02 to 13 ^h 03 ^m 02	02 ^s fast	13 + 5"	UX117 Haman U.R. Press	"	8	73-69	good	3	W	N	"	
848	Hyra Variable	6 ^h 52 ^m +51°	May 18		8 ^h 57 ^m to 9 ^h 12 ^m		24"	5X7 Eastman 40	"	8	73-68	good		E	?	"	24" Focal plane double slide
849	"	"	May 18		9 ^h 30 ^m to 10 ^h 01 ^m		24"	"	"	"	"	"	"	"	"	"	"
1364 850	9 ^m Star	16 ^h 15.2 +50°50'	May 21	0 ^h 21 E	11 ^h 23 ^m 00 to 12 ^h 25 ^m 00	Corrected	15" + 5"	X110 Haman U.R. Press	"	"	73-69	good	2	W	N	"	
1365 851	16 ^m Star	17 ^h 14.5 +46°51'	June 10	0 ^h 15 E	11 ^h 11 ^m 00 to 12 ^h 11 ^m 00	Corrected	"	"	"	"	72-66	good	3	"	"	"	
1366 852	7 ^m "	"	June 12	0 ^h 34 E	10 ^h 45 ^m 30 to 11 ^h 45 ^m 30	35 ^s fast	"	"	"	"	73-69	good	"	"	"	"	
1367 853	6 ^m Star	18 ^h 12.0 +43°20'	"	0 ^h 10 E	12 ^h 05 ^m 35 to 13 ^h 05 ^m 35	"	"	"	"	"	73-71	good	"	"	"	"	
1368 854	7 th Star	17 ^h 15 ^m +46°51'	June 14	0 ^h 31 E	10 ^h 40 ^m 40 to 11 ^h 40 ^m 40	40 ^s fast	"	"	"	"	72-70	good	2-1-2	"	"	"	
1369 854	6 ^m Star	18 ^h 12 +43°20'	June 14	0 ^h 20 E	11 ^h 46 ^m 40 to 12 ^h 48 ^m 40	"	"	"	"	"	73-69	good	3-	"	"	"	
B70 855	"	18 ^h 12 +43°20'	June 17	0 ^h 26 1/2 E	11 ^h 30 ^m 00 to 12 ^h 30 ^m 00	Corrected	"	"	"	"	72-70	good	3	"	"	"	
1371 856	6 ^m Star	19 ^h 00 +48°00'	June 17	0 ^h 01 W	12 ^h 45 ^m 00 to 13 ^h 45 ^m 00	"	"	"	"	"	73-71	good	3	"	"	"	
1372 857	"	"	June 20	0 ^h 24 E	12 ^h 08 ^m 00 to 13 ^h 08 ^m 00	"	"	"	"	"	73-69	good	3-	"	"	"	
1373 858	"	"	June 22	0 ^h 36 W	13 ^h 00 ^m 00 to 14 ^h 00 ^m 00	"	"	"	"	"	73-69	good	3-	"	"	"	
859	Pole	+90°00'	June 23	2 ^h 06 W	1200 to 1403		13	"	"	"	73-68	good	3	"	"	"	
860	Mars,		June 23		3:20 to 3:40 AM.		24" at 22" ap	IX10 Iso Med	"	"	72-69	good		E	S	FKE HLG	
861	Pole Trail	+90°00'	"	1 ^h 00 E	2:25 to 3:52 AM + 3 ^m trail		13	Cramer Iso Med	Cramer M.H.	4 1/2	65	"	3-	"	"	"	HLG
862	Mars, III T		"		3:15 to 3:28 AM		24" at 22" ap	IX10 Iso Med	Wallace Hydro	8	73-	"		W	N	"	
863	Pole Trail	+90°00'	June 24	2 ^h 03 W	11:42 to 14:42		13	Cramer Iso Med	Cramer M.H.	4 1/2	65	good	2	E	"	"	
864	Mars.		June 26		4:23 to 4:32 AM		24" 22" ap	III T #12 filter	Cramer M.H.	4 1/2	65	good	good	W	N	FKE HLG	15 ^m trailing at end
865	Pole Trail Pl.	+90°00'	"	2 ^h 05 W at 12:58	9:48-9:58 12:44-12:58 trail 10:40-10:52 12:58-1:08 trail 11:47-11:57		13	IX10 Iso Med	Wallace Hydro	8	73-	good		W	N	FKE HLG	#12 filter
866	Mars.		June 28		2:21 to 2:28 AM.		24" 22" ap	Haman L.S.	Cramer M.H.	4 1/2	65	good	Fair	"	"	"	
867	Pole Trail adj Pl.	+90°00'	June 27	0 ^h 40 W at 11:04	9:05-9:15, 11:06-11:16 11:04-11:14, 3:00-3:10 11:14-11:24, 3:10-3:20		13	Iso Presto	Wallace Hydro	7 1/2	70	good	?	W	N	FKE HLG	H.A. 2 ^h 06 W at 3:10
868	"		June 28	0 ^h 03 E at 11:23	9:24-9:34, 11:24-11:34 11:23-11:33, 3:14, 3:24		13	IX10 Iso Presto	"	"	"	"	"	"	"	"	Trail 3:24-3:34
869	Mars		July 2		3:41 to 3:48 AM.		24" at 22" ap	III T	Cramer M.H.	4 1/2		Fair	good	"	"	"	K.M.S. took plate from wash water.
870	Mars		July 4	2:	2:30 to 2:35 A.M. 2 ^h 5		24" 23" ap	103 T	D 19	4		good	good	"	"	"	
P.V. 872	Polar Seq.	+90°00'	July 4	1 ^h 29 E	3:25 to 3:30 A.M. 1 ^h 5 T		13"	Haman Slow L.S.	Cramer M.H.	5	65	"	Fair	"	"	FKE	
P.V. 873	Polar Sequence	+90°00'	July 5	1 ^h 15 E	8 ^h 52 ^m to 9 ^h 52 ^m P.M.		13"	IX10 Iso Presto #12 written filter	Wallace Hydro	8	70	"	good	"	"	FKE	with slits under slide and 2 holders and made # to face of holders
P.V. 874	"	"	July 6	0 ^h 11 E	10:38 to 11:33		"	"	"	7 to 10 1/2	Room	"	good	"	"	FKE	See instructions + directions in filing envelope
875	Mars		July 7	0 ^h 30 W	10:25 to 11:30		24" at 22"	"	"	4		good	good	"	"	FKE	
876	"		July 7	0 ^h 04 E	15:01 to 15:06		at 23"	Haman Reg. L.S. #12 filter	Cramer M.H.	4		good	Fair	"	"	"	

1374

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NEG. NO.	REGION			DATE 1939	Hour Angle End of Exp	Exposure Time *Old Astro. Day	Watch Error	Instr. or Aperture	Plate or Emulsion	DEVELOPMENT			Seeing		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R. A.	Dec.							KIND	Time	Temp.	Trans	Stead.				
877	MARS			July 12		3 ^h 03 ^m to 3 ^h 07 ^m AM		24" at 22"	III F	D19	4	68	Fair+	Fair+	E		H.G.	#29 F filter
878	7 th star	17 ^h 51 ^m	+32°05'	July 12	2 ^h 00 ^m W	11 ^h 55 ^m 40 ^s to 12 ^h 55 ^m 40 ^s	40 ^s fast	13 ^h 45"	Hammer U.R. Press	Wallace Hydro	8	71-68 72-69	Good	Good	W	N	H.G.	
879	MARS			July 13		14 ^h 25 ^m to 14 ^h 33 ^m		24" at 22"	103 G	D19	4	Room	Good	Fair-	E		"	#12 filter
880	"			July 13		14 ^h 35 ^m to 14 ^h 40 ^m		"	III T	"	"	"	"	"	"	"	"	"
881	"			July 15		13 ^h 00 ^m to 13 ^h 07 ^m		24" at 18"	Hammer Lantier Slide	Cr. M. H.	4 1/2	68	Good	Good	"		"	developed upside down hence uneven development
882	"			July 21		13 ^h 25 ^m to 13 ^h 30 ^m		24" at 23"	"	"	4	Room	Fair Hammer	Poor	"		"	
884	"			July 21		14 ^h 26 ^m to 14 ^h 31 ^m		"	Eastman III F	D19	3 3/4	"	"	Fair-	"		"	
883	"			July 25		13 ^h 27 ^m to 13 ^h 35 ^m		"	Hammer L.S.	Cr. M. H.	3 1/2	"	"	Poor	"		"	Turned over to work, July 26. Night of 2 clouds on Mars.
885	Rigolet Comet	5 ^h 11.2 ^m	+32°40'	July 29	5 ^h 16 ^m E	3 ^h 36 ^m 50 ^s to 3 ^h 56 ^m 50 ^s ANSATIN Day	10 ^s Slow	13"	U.R. Press	Wallace Hydro	8	70+	Fair+	Good	W	N	"	
886	MARS			July 29		13 ^h 20 ^m to 13 ^h 25 ^m		24" at 23"	Hammer yel. label L.S.	Cramer M.H.	3 1/2	"	Good	Fair	"		"	
887	"			"		13 ^h 55 ^m to 14 ^h 01 ^m		"	Eastman III F	D29	3 1/2	"	"	Fair+	"		"	Too much development
888	"			"		14 ^h 10 ^m to 14 ^h 16 ^m		"	Eastman 103 G	"	"	"	"	"	"		"	
889	"			July 31		10 ^h 55 ^m to 11 ^h 01 ^m		24" at 23"	Hammer Lantier Slide	Cr. M. H.	3 1/2	"	Fair+	Fair	"		"	
890	Lynx Variable	6 ^h 52.0 ^m	+51°08'	August 8	5 ^h 57 ^m E	15 ^h 50 ^m 00 ^s to 16 ^h 15 ^m 00 ^s	corrected	13"	4x5 Eastman 40	Wallace Hydro	8 ^m	70	Good Fair	3	W	N	"	clouds over reg. at end
891	7 th star	17 ^h 50 ^m	+32°05'	August 11	2 ^h 50 ^m W	10 ^h 47 ^m 00 ^s to 11 ^h 48 ^m 00 ^s	"	13+5	10x8 Ham U.R. Press Hammer Portrait 14x17 3 7450A	Eastman	"	"	Good	4	"	"	"	
892	MARS			Aug. 14		12 ^h 15 ^m to 12 ^h 21 ^m		24" at 23"	Hammer L.S.	Cr. M. Hydro	3 1/2	Room	Fair+	Poor	"		"	
893	Asteroid 657 Gunlöd	20 ^h 28 ^m	-15°12'	Aug 15	0 ^h 56 ^m W	11 ^h 59 ^m 00 ^s to 12 ^h 15 ^m 00 ^s	Corrected	13"	Hammer U.R. Press 4x10	Wallace Hyd.	8 ^m	70°	Good	2+	"	"	"	odd dirty piece
894	"	"	"	Aug 17	2 ^h 05 ^m E	8 ^h 53 ^m 00 ^s to 9 ^h 02 ^m 00 ^s	"	"	4x10 Ice Pack to	"	"	"	"	"	"	"	"	
895	7 th star	17 ^h 50 ^m	+32°05'	Thursday	1 ^h 45 ^m W	9 ^h 19 ^m 00 ^s to 10 ^h 19 ^m 00 ^s	"	"	Em. 29789 5x10 Cr. M.H.S. Sp.	"	"	"	"	3+	E	S	"	
896	Lynx Var.	6 ^h 52 ^m	+51°08'	Aug 17		15 32 00 to 16 02 00	"	"	4x5 Eastman 40	Ross Metal	6 ^m	Room	Good	"	W	N	"	
897	"	"	"	"	4 ^h 52 ^m W	16 10 00 to 16 45 00	"	"	"	"	"	"	"	"	"	"	"	
898	Asteroid 657	20 ^h 22.2 ^m	-15°07'	Aug 20	1 49 W	12 ^h 28 ^m 07 ^s to 12 ^h 44 ^m 07 ^s	07 ^s fast	"	5x10 Cr. M. Speed Sp.	Wallace Hydro	8 ^m	70	Good	3	"	"	"	
899	" 657	20 ^h 22.5 ^m	-15°07'	Aug 21	1 37 W	12 ^h 12 ^m 40 ^s to 12 ^h 28 ^m 40 ^s	40 ^s fast	"	"	"	"	"	Good	2-	"	"	"	
900	Mars			Sept 1		10:31 to 10:36		24" at 24"	Eastman 3D	D19	3 1/2	Room	Good	Fair-	"		"	
901	7 th star	17 ^h 50 ^m	+32°05'	Sept 2	1 ^h 40 ^m W	8 ^h 12 ^m 00 ^s to 9 ^h 12 ^m 00 ^s	Corrected	13"	Em. 5 7498 B 5x10 Hammer U.R. Press	Wallace Hydro	8 ^m	70°	Good	2+	W	N	"	Moon just rising 9:00 PM
902	R Aquarii	23 ^h 41 ^m	-15°59'	Sept 14	0 ^h 29 ^m E	11 ^h 46 ^m 00 ^s to 12 ^h 06 ^m 00 ^s	about 2 ^s per	13"	#28 filter 103 E	"	6 ^m	"	Good	1	"	"	"	
903	The Pleiades	3 45	+24°	Sept 20		2 21 to 2 46		13"	Cramer Hill Sp.	"	8	"	Fair to Poor	3	"	"	"	Field correction plate for 7mm, spoiled by clouds.
Plates 175 to 201 incl. on Taurus region for F.K. Edmondson																		
904	MARS			Sept 22		10:37 to 10:44		24" ap.	103 E 29 F filter Eastman	D19	3 1/2	65°	Poor Fair Poor	Poor	"		"	clouds + haze in sky.
905	"			"		10:49 to 10:55		"	Hammer L.S.	"	"	"	"	"	"		"	
906	"			Sept 26		8:22 to 8:29		24"	Hammer L.S. 5 ^s Exp. + less	Cramer Met Hydro	6 ^m	69	Good	Fair-	"		"	
907	"			"		8:48 to 8:56		24"	Eastman 103 E 1 1/2, 2 ^s exp.	D19	3 1/2	"	"	Fair- to Poor	"		"	#29 F filter
908	"			"		8:59 to 9:05		24"	Eastman 103 D 1 1/2, 2 ^s +	"	"	"	"	"		"	"	#12 filter
909	"			Sept 27		8:08 to 8:13		"	Hammer L.S. 5 to 6 ^s ±	Cramer metal Hydro	6 ^m	"	"	Poor+	"		"	
910	"			"		8:23 to 8:33		"	Eastman 33	"	4 ^m	"	"	2-3	"		"	

NEG. NO.	R E G I O N			DATE 1939	Hour Angle End of Ex.	Exposure "Old Astro. Day"	Watch Error	Instr. App.	Plate or Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.	Dec.							KIND	TIME	TEMP.	Trans.	Stead.				
911	MARS			Sept 27		9:55 to 10:01		24"	103T	D 19	3 1/2	69	good	2-3				
912	"			"		10:08 to 10:15		"	103 E	"	"	"	"	"				
913	Lyr x Var.	6h 52.8	+51° 08'	"		11:26:30 to 11:38:30		12"	Cramer H/S Sp. Sp.	Rodinal 1/32	5 ^m	69	good	1	W	N		
914	"	"	"	"		11:41:00 to 11:54:00		"	"	"	6 1/2	"	"	1	"	"		Very bright moonlight plates badly fogged.
915	MARS			Sept 28		9:15 to 9:21		24"	Hammer L.S. (VL)	Cramer Metol/Hydro	6 1/2	"	good	mid 3				
916	"			"		9:22 to 9:30		"	Eastman 33	"	4	"	"	2, 3, 4				
917	"			"		9:40 to 9:46		"	Eastman 103 E	D 19	3 1/2	"	"	"				29 f filter
918	"			"		10:08 to 10:14		"	Eastman 103 D	"	"	"	"	"				*12 filter
919	MARS			Sept 29		7:56 to 8:02		"	Hammer L.S.	Cramer M.H.	5	69±	good	4				
920	"			"		8:07 to 8:14		"	Eastman 33	"	"	"	"	"				
921	"			"		8:20 to 8:25		"	Eastman 103 G	D 19	3 1/2	"	"	"				#12 f
922	"			"		8:29 to 8:35		"	Eastman 103 E	"	"	"	"	"				*29 f f.
923	"			"		8:43 to 8:48		"	Eastman III F	"	"	"	"	"				*29 f f
924	"			"		9:20 to 9:25		"	Eastman 103 T	"	"	"	"	"				#12 f
925	"			"		9:34 to 9:41		"	Hammer L.S.	Cramer M.H.	5	"	"	"				
926	Jupiter			"		11:56 to 12:01		"	Eastman 33	D 19	3 1/2	"	good	4+				Blue camera focus setting slightly out. Improved focus.
927	"			"		12:25 to 12:28		"	Hammer L.S.	Cramer M.H.	5+	"	"	"				
928	"			"		12:37 to 12:40		"	Eastman 103 G	D 19	3 1/2	"	"	"				#12 filter
929	"			"		12:58 to 13:03		"	Eastman 103 E	"	"	"	"	"				29 f filter
930	MARS			Sept 30		8:30 to 8:35		"	Hammer yellow L.S.	Cramer M.H.	6	69	fair	3±				
931	"			"		8:43 to 8:48		"	Eastman 103 E	D 19	3 1/2	"	fair+	"				29 f filter
932	"			"		8:52 to 8:59		"	Eastman 103 G	"	"	"	good	"				#12 filter
933	MARS			Oct 1		7:54 to 8:02		"	Hammer L.S. yellow	Cramer M.H.	6 ^m	69	good	2, 3				
934	"			"		8:10 to 8:16		"	Eastman 103 G	D 19	3 1/2	69	"	"				#12 filter
935	"			"		8:22 to 8:28		"	Eastman 103 E	"	"	"	"	"				29 f filter
936	MARS			Oct 2		7:12 to 7:17		"	Eastman 33	"	"	"	"	"				
937	"			"		7:20 to 7:24		"	103 F	"	"	"	"	"				
938	MARS			Oct 4		7:50 to 7:57		24" 233	Hammer yellow L.S.	Cr. met Hydro	6	69	good	good 4				
939	"			"		8:05 to 8:10		"	103 E	D 19	3 1/2	Room 69	"	3 to 4				
940	"			"		8:14 to 8:21		"	103 G	"	"	"	"	"				
941	"			"		8:49 to 8:55		"	Eastman III G	"	"	"	"	"				#12 filter
942	"			"		9:00 to 9:06		"	3F exp. 2, 4± sec	"	"	"	"	"				
943	"			"		9:13 to 9:18		"	Eastman 33	Cramer M.H.	6	"	"	"				
944	SATURN			"		11:52 to 11:59		"	Eastman 33	"	"	"	"	"				
945	JUPITER			"		12:08 to 12:14		"	Eastman 33	"	"	"	"	"				

image edges sharp but fine lines still present

NEG No.	R E G I O N		DATE 1939	Hour angle End of Exp.	Exposure *old Astro Day	Watch Error
	Guide Star	R. A. Dec.				
946	Jupiter		Oct 4		12 ^h 46 ^m to 12 ^h 51 ^m	
947	Saturn		"		13 02 to 13 10	
948	"		"		13:44 to 13 54	
949	Jupiter		"		14:02 to 14:10	
950	MARS		Oct 5		8:39 to 8:45	
951	"		Thurs.		8:47 to 8:55	
952	"		"		8:59 to 9:05	
953						
954	Lynx Var.	6 ^h 52.5 ^m +51° 08'	Oct 5	3 ^h 25 ^m E	14 ^h 43 ^m - 14 58 05	1 ^m 30 ^s Fast
955	"	"	"	2 ^h 33 ^m E	15 29 30 - 15 50 30	"
956	"	"	"	2 09 E	15 54 00 - 16 14 00	"
957	MARS		Oct 9		8:06 - 8:14	
958	"		"		8:20 - 8:25	
959	"		"		8:30 - 8:35	
960	MARS		Oct 10		7:52 - 8:02	
961	"		"		8:08 - 8:13	
962	"		"		8:19 - 8:26	
963	MARS		Oct 11		8:29 - 8:35	
964	"		"		8:38 - 8:44	
965	MARS		Oct 12		7:15 - 7:21	
966	"		"		7:28 - 7:36	
967	"		"		7:42 - 7:49	
968	"		"		8:56 - 9:02	
969	"		"		9:08 - 9:20	
970	"		"		9:34 - 9:40	
971	JUPITER		"		11:32 - 11:46	
972	"		"		11:53 - 12:09	
973	Lynx Var.	6 ^h 52.8 ^m +51° 08'	Oct 12	4 ^h 57 ^m E	12 ^h 40 ^m to 12 ^h 46 ^m small zone 12 49 to 12 52 large space 12 53 to 12 58 large space	0 ^s fast
974	"	"	"	"	13 ^h 38 ^m 00 ^s - 13 ^h 53 ^m 00 ^s	0 ^m 01 ^s fast
975	"	"	"	2 ^h 25 ^m E	13 55 00 to 14 10 00	correct
976	"	"	"	1 56 E	15 15 00 to 15 30 00	add 7 ^m
977	MARS		Oct 13		7:58 - 8:06	
978	"		"		8:19 - 8:28	
979	"		"		8:32 - 8:42	
980	BN Monocerotis	6 ^h 18 ^m +7 ^h 38'	Oct 13		16 ^h 38 ^m 10 ^s to 16 ^h 48 ^m 10 ^s	04 ^s fast

Inst. App.	Plate or Emulsion No	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		KIND	Time	Temp	Trans.	Stead				
23"	III F	D 19	3 1/2	69	good	good 4			HG	under exposed
"	20 to 5 sec	"	"	"	"	"			"	"
"	III F	"	"	"	"	"			"	OK exposure
"	20 to 6 sec	"	"	"	"	"			"	2 to 4 sec, correct exposure
"	III D	"	"	"	"	"			"	
"	20 to 6 sec	"	"	"	"	"			"	
"	III D	"	"	"	"	"			"	
"	8 to 30 sec	"	"	"	"	"			"	
24" app	Hammer yell label L.S.	Cr. M. H.	6	"	"	Fair 2,3			"	
"	4,5,6 L.S.	"	"	"	"	"			"	
"	103 T	D 19	3 1/2	"	"	"			"	
"	103 F	"	"	"	"	"			"	
13"	Cramer Hi Sp Sp 3/4 x 4 cut	Rodinal 1/32	10 ^m	Room 69	good	1-2	W	N	"	Moonlight
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
24"	Hammer yell. Label 3 to 6 sec L.S.	Cramer M. H.	6	"	"	Poor			"	
"	103 E	"	"	"	"	"			"	
"	1/2 to 2 sec	D 19	3 1/2	"	"	"			"	
"	103 G	"	"	"	"	"			"	
"	1 to 3 sec	"	"	"	"	"			"	
"	Hammer yell Label 3 to 6 sec L.S.	Cr. M. H.	6	"	"	Poor			"	
"	103 G	"	"	"	"	"			"	
"	1 to 3 sec	D 19	3 1/2	"	"	"			"	
"	103 F	"	"	"	"	"			"	
"	1/2 to 3 sec	"	"	"	"	"			"	
"	Cramer Hi Speed Sp 1/2 to 3 sec	Cr. M. H.	6	"	"	Poor 1,2			"	
24" x 23"	103 F	D 19	3 1/2	"	"	"			"	
"	1/2 to 2 1/2 sec	"	"	"	"	"			"	
"	Hammer yell L.S.	Cr. M. H.	6	"	"	Fair + 3,4 + 5			"	
"	3 to 6 sec L.S.	"	"	"	"	"			"	
"	III F	D 19	3 1/2	"	"	"			"	
"	6 to 1 sec	"	"	"	"	"			"	
"	103 T	"	"	"	"	"			"	
"	2 to 4	"	"	"	"	"			"	
"	III D	"	"	"	"	"			"	
"	1 to 4 sec	"	"	"	"	"			"	
"	III F	"	"	"	"	"			"	
"	1 to 4 sec	"	"	"	"	"			"	
"	Hammer yellow label L.S.	"	"	"	"	"			"	
"	Hammer L.S.	Cramer M. H.	6	"	"	"			"	Too much exposure.
"	103 F	"	"	"	"	"			"	
"	20, 10 ± sec	D 19	3 1/2	"	"	"			"	
13"	3/4 x 4/4 Cramer Hi Sp Sp	Ross Metal	6	68 ⁺	good	5	W	N	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	watch stopped was 7 m slow when compared to Chron at 16 ^h
"	"	"	"	"	"	"	"	"	"	
24" x 23"	Hammer Yellow L.S. 3 to 6	Cramer M. H.	6	69	good	5 ⁺			"	
"	III F 1 to 2 1/2 sec 24 f film	D 19	3 1/2	"	"	"			"	
"	III G 1 to 2 1/2 sec 11 f film	"	"	"	"	"			"	
13"	Cramer Hi Sp Sp cut from 8 x 10	Ross Metal	6	67	good	5	W	N	"	

NEG. No.	REGION		DATE 1939	Hour Angle End of Exp.	EXPOSURE *Old Astro. Day	Watch Error	Telescope or Aperture	Plate Brand or Emulsion No.	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Developer	REMARKS
	Guide Star.	R.A.							Dec.	KIND	TIME	TEMP	Trans.				
P.V. 981	BN Monocerotis	6 ^h 18 ^m	+7°38'	Oct 13 Friday	0 ^h 10 ^m W	16 ^h 55 ^m 10 ^s to 17 ^h 05 ^m 11 ^s	04 ^s fast	13" 103 G East. Sp. Sp. cut from E&10	Ross Metal	6	Room 67±	Good	4-	W	N	HG	#15 (5x7) filter.
982	Lynx Variable	6 52.8	+51°08'	"	"	17 ^h 13 ^m 05 ^s - 17 ^h 25 ^m 05 ^s	"	"	"	6+	"	"	"	"	"	"	Dawn coming on.
983	"	"	"	"	0 ^h 14 ^m E	17 ^h 28 ^m 16 ^s - 17 ^h 36 ^m 16 ^s	"	"	"	5+	"	"	"	"	"	"	"
984	MARS			Oct 14 Saturday	"	7 ^h 48 ^m - 7 ^h 56 ^m	"	24" at 23 ap Hammer yell label 4 to 7 sec L.S.	Cramer M.H.	6	"	good	4,5	"	"	"	#12 filter
985	"			"	"	8:13 - 8:22	"	103 G 1/2 to 2 sec	D19	3 1/2	"	"	"	"	"	"	#29 f filter.
986	"			"	"	8:30 - 8:37	"	103 F 1/2 to 2 sec	"	"	"	"	"	"	"	"	"
987	MARS			Oct 15 Sunday	"	8:52 - 9:00	"	Hammer yell label 4 to 7 sec	Cramer M.H.	6	"	good	3,-	"	"	"	"
988	"			"	"	9:07 - 9:15	"	103 E 1/2 to 2 sec	D19	3 1/2	"	"	"	"	"	"	"
989	"			"	"	9:22 - 9:31	"	103 G 1/2 to 3 sec	"	"	"	"	"	"	"	"	"
990	MARS			Oct 16 Monday	"	7:42 - 7:50	"	Hammer yellow label 3 to 7 sec L.S.	Cr. M.H.	6	"	good	3±	"	"	"	Too much development
991	"			"	"	7:55 - 8:01	"	103 G #12 filter 1/2 to 2 sec	D19	4 1/2	"	"	"	"	"	"	"
992	"			"	"	8:05 - 8:11	"	103 F #29 f filter 1/2 to 2 sec	"	"	"	"	"	"	"	"	"
993	Jupiter			"	"	10:22 - 10:25	"	Hammer yellow label 4 to 10 sec	Cramer M.H.	6	"	"	4	"	"	"	"
994	MARS			Oct 17	"	7:29 - 7:36	"	Hammer yellow label L.S.	"	"	"	good	2-	"	"	"	"
995	"			"	"	7:43 - 7:51	"	103 E #29 f filter 1/2 to 2 sec	D19	3 1/2	"	"	"	"	"	"	"
996	"			"	"	7:56 - 8:04	"	103 D #12 filter 1/2 to 2 sec	"	"	"	"	"	"	"	"	"
997	MARS			Oct 18	"	7:20 - 7:39	"	Hammer yellow label 4 to 8 sec	Cr. M.H.	6	"	Fair some haze	4,5-	"	"	"	"
998	"			"	"	7:46 - 7:55	"	103 D #12 filter 1/2 to 2 sec	D19	3 1/2	"	"	"	"	"	"	"
999	"			"	"	8:00 - 8:06	"	103 E #29 f filter 1/2 to 2 sec	"	"	"	"	"	"	"	"	"
1000	MARS			Oct 19	"	6:20 - 6:34	"	Hammer yell label 4 to 8 sec	Cr. M.H.	7	"	slight haze	3,2	"	"	"	"
1001	"			"	"	6:40 - 6:45	"	103 E #29 f filter 1/2 to 2 sec	"	"	"	"	"	"	"	"	"
1002	"			Thursday	"	6:48 - 6:54	"	103 D #12 filter 1/2 to 2 sec	D19	4	"	Fair +	"	"	"	"	"
1003	Lynx Variable	6 ^h 52.8 ^m	+51°08'	Oct 19	5 ^h 40 ^m E	11 ^h 32 ^m 40 ^s - 11 ^h 47 ^m 40 ^s	40 ^s fast	13" Cramer M.H. Sp. Sp. cut from E&10	Ross Metal	6	"	good	3-	W	N	"	"
1004	"	"	"	"	"	11 58 00 - 12 13 15	41 "	"	"	"	"	"	"	"	"	"	"
1005	"	"	"	"	"	12 18 40 - 12 33 40	43	"	"	"	"	"	"	"	"	"	"
1006	"	"	"	"	"	12 38 40 - 12 53 40	45	"	"	"	"	"	"	"	"	"	"
1007	"	"	"	"	"	12 55 40 - 13 10 40	47	"	"	"	"	"	"	"	"	"	"
1008	"	"	"	"	3 ^h 58 ^m E	13 ^h 17 ^m 00 ^s - 13 ^h 32 ^m 00 ^s	48	"	"	"	"	"	"	"	"	"	"
1009	"	"	"	"	"	13 38 40 - 13 53 40	50 ^s fast	"	"	"	"	"	"	"	"	"	"
1010	"	"	"	"	"	13 59 40 - 14 14 40	52	"	"	"	"	"	"	"	"	"	"
1011	"	"	"	"	"	14 20 00 - 14 36 00	54	"	"	"	"	"	"	"	"	"	"
1012	"	"	"	"	2 ^h 53 ^m E	14 41 03 - 14 56 03	56	"	"	"	"	"	"	"	"	"	"
1013	"	"	"	"	"	15 01 43 - 15 16 47	58 sec	"	"	"	"	"	"	"	"	"	"
1014	"	"	"	"	"	15 25 - 15 30	60 sec fast at 16 ^h 00 ^m	"	"	"	"	"	3+	"	"	"	Focus plate N.G. fell out of holder lens threw away.

Neg. No	REGION			DATE	Hour Angle End of Exp	EXPOSURE *Old Astro. Day	Watch Error	Instr. or Apr.	Plate or Emulsion No	DEVELOPMENT			SEEING		Position of Telescope	W. rays on Plate	Observer	REMARKS
	Guide star	R.A.	Dec.							KIND	Time	Temp.	Trans	Stead				
1015	BN Monocerotis	6 ^h 18 ^m	+7°35'	Oct. 20	—	14 ^m 26 ^s - 14 ^m 35 ^s	05 ^s fast		103 E	D 19	4		Good	3-	W	N	HG	Focus plate 1 st exp each
Pr 1016	"	"	"	Friday	1 ^h 28 ^m E	15 1600 - 15 21 00	"		103 E, #28 filter	Ross Metal	5	68	"	"	"	"	"	
Pv 1017	"	"	"	"	—	15 32 15 - 15 47 15	"		103 G #15 filter	"	"	"	"	"	"	"	"	
Pv 1018	"	"	"	"	—	15 55 00 - 16 05 00	"		103 G #12 filter	"	"	"	"	"	"	"	"	
1019	"	"	"	"	0 ^h 38 ^m E	16 11 00 - 16 21 00	"		Cramer Ht Sp Sp not from 2213	"	6+	"	"	"	"	"	"	
1020	Lynx Variable	6 ^h 52.8 ^m	+51°08'	"	"	16 28 15 - 16 43 15	"		"	"	"	"	"	4	"	"	"	
1021	"	"	"	"	0 ^h 13 ^m E	16 55 05 - 17 10 05	07 ^s fast		"	"	"	"	"	4-	"	"	"	
1022	MARS			Oct 21		7:43 - 7:49			Hammer yellow label L.S. 4 to 10 sec	Cramer M.H.	6	"	Good	3, 4±			"	
1023	"			Saturday		7:51 - 7:59			103 D #12 filter 1/2 to 2 1/2 sec	D 19	3 1/2	"	"	"			"	
1024	"			"		8:03 - 8:11			103 F #29 filter 1/2 to 2 1/2 sec	"	"	"	"	"			"	
1025	MARS			Oct 22		7:45 - 7:55			Hammer yellow label 3 to 9 sec	Cr. M.H.	6	"	"	3±			"	
1026	"			"		8:03 - 8:10			103 F #29 filter 1/2 to 2 1/2 sec	D 19	3 1/2	"	good?	"			"	
1027	"			"		8:16 - 8:22			103 D #12 filter 1/2 to 2 sec	"	"	"	"	"			"	
1028	MARS			Oct 24		7:28 - 7:36			Hammer L.S. 4 to 10 sec	Cr. M.H.	7	"	Good	2, 3			"	
1029	"			Sunday		7:43 - 7:50			103 D #12 filter 1/2 to 2 sec	D 19	3 1/2	"	"	"			"	
1030	"			"		7:56 - 8:04			103 E #29 filter 1/2 to 2 sec	"	"	"	"	"			"	
PR 1031	Polar Seq.		+90°00'	Oct 24	2 ^h 00 ^m E	8 ^h 55 ^m 05 - 9 ^h 55 ^m 00			103 E #28 filter	R. Metal	5+	68	Good	2, 1	W	N	"	Bright moonlight day before full moon.
PR 1032	Lynx Var.	6 ^h 52.8 ^m	+51°08'	Oct 26	5 ^h 07 ^m E	11 ^h 07 ^m - 11 ^h 57 ^m			103 E #28 filter	"	"	"	Good	2, 1	"	"	"	
1033	R Aquarii	23 ^h 39.2 ^m	-15°42'	Nov. 3	0 ^h 39 ^m E	8 ^h 36 ^m 00 - 8 ^h 46 ^m 00	36 ^s fast		Cr. Ht Sp Sp	"	6	67-68	Good	3+	"	"	"	
1033 1/2	"	"	"	"	0 ^h 07 ^m E	8 55 00 - 9 10 10			Eastman 40	"	"	"	"	2-	"	"	"	#28 filter
PR 1034	"	"	"	"	—	9 20 40 - 9 35 40			103 E	"	"	69-67	"	2	"	"	"	
Pv 1035	"	"	"	"	0 ^h 39 ^m W	9 45 00 - 9 55 00			103 G #12 filter	"	"	"	"	"	"	"	"	
Western each Pv 1036	"	"	"	"	—	10 05 - 10 20			103 G	"	"	"	"	"	"	"	"	focus plate, macromos big space at last exposure Sp. OK.
1037	BN Monocerotis	6 ^h 18.0	+7°32'	"		11 50 00 - 12 03 00	40 ^s fast		Cr. Ht Sp Sp	"	"	69-68	Good	2+	"	"	"	
Pr 1038	"	"	"	"	3 ^h 25 ^m E	12 18 10 - 12 30 10			103 G #12 filter	"	"	"	Poor	"	"	"	"	Have spoiled plate little moon.
1039	Comet Friend	18 ^h 30 ^m	+24°10'	Nov. 14	4 ^h 10 ^m W	7 ^h 04 ^m 00 - 7 ^h 34 ^m 00	On time	13 ^{cc}	2x10 Cr. Ht Sp Sp	Wallace Hydro	8	69	Good	2+	E	S	"	
1040	R Aquarii	23 ^h 39.2 ^m	-15°42'	"	0 ^h 04 ^m E	8 13 00 - 8 28 00	"		103 E #28 filter	Ross Metal	6	69	"	3	W	N	"	
1041	"	"	"	"	0 ^h 25 ^m W	8 43 00 - 8 58 00	"		103 G #12 filter	"	"	"	"	"	"	"	"	
1042	"	"	"	"	0 ^h 57 ^m W	8 18 00 - 8 30 00	"		Cr. Ht Sp Sp	"	"	"	"	"	"	"	"	
1043	Lynx Var	6 ^h 54 ^m	+52°08'	"	5 ^h 04 ^m E	10 30 00 - 10 44 00	"		"	"	"	"	"	"	"	"	"	
1044	"	"	"	"	4 38 E	10 52 00 - 11 10 00	"		"	"	"	"	"	"	"	"	"	
1045	Rigel			Nov. 16		12 44 00 - 13 24 00			Eastman 40	"	"	"	"	"	"	"	"	
1047	Lynx Var	6 ^h 52.8 ^m	+51°08'	Nov. 18	0 ^h 49 ^m E	14 12 00 - 14 30 05	30 ^s fast	12 Schmidt	Agfa Super Pan	Wallace Hydro	8	70+	Good	3	"	"	"	
1048	"	"	"	Saturday	1 ^h 38 ^m E	14 36 00 - 14 52 00	"	13 ^{cc}	Cr. Ht Sp Sp	Ross Metal	6	69	Good	2-	"	"	"	

NEG. NO.	REGION		DATE 1939-40	Hour Angle End of Exposure	EXPOSURE *Old Astro. Day	WATCH ERROR
	Guide star	R.A. Dec.				
1049	BN Monocerotis	6 ^h 17 ^m +7 ^o 38'	Nov. 20		16 ^h 05 ^m 00 - 16 ^h 20 ^m 00	40 ^s fast
1050	"	"	"	1 ^h 53 ^m W	16 ^h 25 ^m 00 - 16 ^h 39 ^m 00	"
1051	Lynx Var	6 ^h 2.8 +51 ^o 08'	Nov. 21	0 ^h 13 ^m W	15 ^h 10 ^m 48 - 15 ^h 30 ^m 48	48 ^s fast
1052	"	"	"	0 ^h 50 ^m W	15 ^h 52 ^m 48 - 16 ^h 07 ^m 48	"
1053	Lynx Var	"	Dec 4	1 ^h 08 ^m E	12 ^h 57 ^m 00 - 13 ^h 19 ^m 00	On time
1054	"	"	"	0 ^h 46 ^m E	13 ^h 26 ^m 00 - 13 ^h 41 ^m 00	"
1055	BN Monocerotis	6 ^h 17 ^m 2 +7 ^o 43'	"	0 ^h 15 ^m W	13 ^h 51 ^m 00 - 14 ^h 06 ^m 00	"
1056	"	6 ^h 17 ^m 2 +7 ^o 43'	"	0 ^h 43 ^m W	14 ^h 17 ^m 00 - 14 ^h 32 ^m 00	"
1057	Lynx Var	+6 ^h 53 ^m +51 ^o 08'	"	0 ^h 33 ^m W	14 ^h 43 ^m 00 - 14 ^h 58 ^m 00	"
1058	"	"	"	"	15 ^h 05 ^m 00 - 15 ^h 21 ^m 00	"
1059	"	"	"	1 ^h 15 ^m W	15 ^h 27 ^m 00 - 15 ^h 41 ^m 00	"
1060	Lynx Var	6 ^h 2.3 +51 ^o 08'	Dec 11	1 ^h 41 ^m E	12 ^h 04 ^m 00 - 12 ^h 20 ^m 00	1 ^m 40 ^s fast
1061	"	"	"	1 ^h 22 ^m E	12 ^h 23 ^m 00 - 12 ^h 39 ^m 00	"
1062	Polar Sequence	+90 ^o 00'	Dec 12		7 ^h 37 ^m to 10 ^h 37 ^m	"
1063						
1064						
1065	γ Pegasi	+14 ^o 48'	Dec 13	4 ^h 24 ^m W	9 ^h 29 ^m 00 - 11 ^h 31 ^m 00	Corrected
1066	NGC 3184	10 ^h 14 ^m +41 ^o 49'	Dec 14	3 ^h 39 ^m E	12 ^h 30 ^m 00 - 13 ^h 30 ^m 00	"
1067	BN Monocerotis	6 ^h 18 ^m +7 ^o 35'	Dec 16	1 ^h 18 ^m E	11 ^h 29 ^m 45 - 11 ^h 47 ^m 45	45 ^s fast
1068	"	"	"	"	12 ^h 01 ^m 45 - 12 ^h 17 ^m 45	"
1069	"	"	"	"	12 ^h 24 ^m 45 - 12 ^h 41 ^m 45	"
1070	"	"	"	M.T.	12 ^h 47 ^m 45 - 12 ^h 04 ^m 45	"

1940

1940

Instrument or Aperture	Plate or Emulsion No	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		KIND	TIME	TEMP	Trans.	Stead.				
13"	Cr. Hi Sp Sp.	Ross Metal	7 ^m	70°	good	3	W	N	H.G.	
"	103 G, #12 filter	"	"	"	"	"	"	"	"	
"	Eastman 40	"	"	"	good	3	"	"	"	Holder "A"
"	Cr. Hi Sp Sp.	"	"	"	"	"	"	"	"	
"	East 40	"	"	"	"	1	"	"	"	
"	Criff's Sp. Sp.	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	103 G, #12 filter	"	"	"	"	"	"	"	"	
"	Criff's Sp. Sp.	"	"	"	"	1	"	"	"	Nothing visible on plate #12 filter in way
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	good	1	"	"	"	
"	"	"	"	"	"	"	"	"	"	
13"	"	"	"	"	"	"	"	"	"	
12-5"	Criff's Sp. Sp.	Wallace	8 ^m	70°	good	3	E	S	"	
13"	EX 10	"	"	"	"	1	W	N	"	
13"	103 E	Ross Metal	7 ^m	70°	good	4	"	"	"	29 f. filter
"	103 G	"	"	"	"	"	"	"	"	#12 filter
"	Cr. Hi Sp Sp.	"	"	"	"	3	"	"	"	
"	Eastman 40	"	"	"	"	2	"	"	"	

1940

1940

1071	BN Monocerotis	6 ^h 18 ^m +7 ^o 38'	Jan 1	1 ^h 08 ^m E	10 ^h 32 ^m 00 - 10 ^h 52 ^m 00	30 ^s slow
1072	"	"	"	"	11 ^h 02 ^m 00 - 11 ^h 22 ^m 00	"
1073	"	"	"	"	11 ^h 28 ^m 00 - 11 ^h 46 ^m 00	"
1074	"	"	"	"	11 ^h 53 ^m 00 - 12 ^h 08 ^m 00	"
1075	Rigel		Jan 13	9 ^h 20 ^m 00 - 9 ^h 41 ^m 00		36 ^s fast
1076	"		"	10 ^h 17 ^m 00 - 10 ^h 57 ^m 00		"
1077	Rigel		Jan 14	10 ^h 26 ^m 00 - 10 ^h 36 ^m 00		"
1078	"		"	10 ^h 56 ^m 00 - 11 ^h 11 ^m 00		"
1079	"		"	11 ^h 48 ^m 00 - 12 ^h 03 ^m 00		"

13"	Eastman Spectro 103E #28 filter	Ross Metal	6 ^m	70°	good	3	W	N	"	
"	Eastman Spectro #12 filter 103D	"	"	"	good?	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	Cr. Hi Sp Sp.	"	"	"	poor	"	"	"	"	clouds up and over regions
8" Schmidt	Hoffa Super Pan	"	7 ^m	70°	good	1	"	"	"	frost on connecting plate so quit further exps.
"	"	"	"	"	"	"	"	"	"	
"	Eastman Commercial film	"	"	"	"	2	"	"	"	
"	"	"	"	"	"	1	"	"	"	

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NEG. No.	R E G I O N			Date 1940	Hour Angle End	EXPOSURE *Old Astro. Day	Watch Error	Inst. or App.	Plate or Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Of cover	REMARKS
	Guide Star.	R.A.	Dec.							Kind	Time	Temp.	Trans.	Stead.				
1113	S Monocerotis		+9° 55'	Feb. 28	2 ^h 55 ^m W	11 ^h 11 ^m 00 to 11 ^h 36 ^m	Corrected	8" Schmidt	Alpha Super Pan film	Ross/Metal	8 ^m	70	good fair	2	W			Hand lower towards end
1114	Lynx Var.	6 ^h 52 ^m	+51° 05'	Mar 1	0 ^h 28 ^m E	7 52 00 - 8 12 10	"	13"	Orion's Sp Sp.	"	"	"	good	2	"	N	"	
1115	"	"	"	"	"	8 20 00 - 8 40 00	"	"	"	"	"	"	"	"	"	"	"	
1116	"	"	"	"	"	8 47 00 - 9 07 00	"	"	"	"	"	"	"	"	"	"	"	
1117	"	"	"	"	"	9 15 00 - 9 35 00	"	"	"	"	"	"	"	"	"	"	"	
1118	"	"	"	"	"	9 42 00 - 10 02 00	"	"	"	"	"	"	"	"	"	"	"	
1119	"	"	"	"	1 ^h 50 ^m W	10 10 00 - 10 30 00	"	"	"	"	"	"	"	"	"	"	"	
1120	δ Orionis		-2° 35'	Mar 1	3 53 W	10 57 - 11 : 19	"	8" Schmidt	Alpha Super Pan film	"	"	"	"	1	"	"	"	airplane flew across field leaving light streak.
1121	λ Orionis		+9° 20'	"	4 40	11 : 44 - 12 : 04	"	"	"	"	"	"	"	"	"	"	"	
1122	μ Gemeni		+22° 50'	"	4 36	12 : 25 : 12 : 45	"	"	"	"	"	"	"	"	"	"	"	
1123	S Mon.		+10° 00'	Mar 2	1 ^h 53 ^m W	10 : 00 to 10 : 20	"	"	"	"	"	68 ⁺	good	2 ⁺	"	"	"	wind shaking mounting
1124	17 Mon		+8° 02'	"	2 40 W	10 : 48 to 11 : 13	"	"	"	"	"	"	"	"	"	"	"	
1125	η Gemeni		+22° 40'	"	4 07 W	11 : 39 to 12 : 04	"	"	"	"	"	"	"	"	"	"	"	
1126	Pleiades		+24 06	Mar. 5	3 15 W	8 : 12 to 8 : 32	"	"	"	"	"	"	good	3	"	"	"	
1127	Rigel		-8° 16'	"	2 ^h 24 ^m W	8 : 55 to 9 : 15	"	"	"	"	"	"	"	"	"	"	"	
1128	i Orionis	6 ^h 27 ^m	-5° 55'	"	3 ^h 00 ^m W	9 : 34 to 10 : 00	"	"	"	"	"	"	"	"	"	"	"	
1129	C Maj	7 ^h 02 ^m	+7° 45'	"	2 ^h 25 ^m W	10 : 30 to 10 55	"	"	"	"	"	"	"	"	"	"	"	
1130	14 Mon	7 29	+7° 50'	"	3 35 W	11 : 20 to 11 : 40	"	"	"	"	"	"	"	"	"	"	"	
1131	O ² Ca. Maj.		-23° 45'	Mar 6	0 ^h 05 ^m W	8 : 31 to 8 : 56	"	"	"	"	"	"	good	3	"	"	"	
1132	Lynx Var	6 ^h 50 ^m	+50° 40'	Wednesday	"	11 : 27 : 00 - 11 : 47 : 30	58 ⁵ fast	13"	Cramer's Sp Sp.	"	7 ^m	70	"	"	"	"	"	1/2 plate
"	Pole	11 ^h 30 ^m	+90° 29'	"	"	11 : 54 00 to 12 : 15 30	"	"	"	"	"	"	"	"	"	"	"	
1133	"	"	"	Mar 7	1 ^h 26 W	"	5	8 1/2 Sch	Alpha Super Pan	"	8	68	good	3	"	"	"	
1134	Monoceros	7 ^h 01 ^m	-10° 00'	"	1 ^h 17 ^m W	9 : 38 15 to 9 : 42 15	1 ^m fast	"	"	"	"	"	"	"	"	"	"	
1135	β N Mon	6 18	+7 34	"	2 25 W	9 : 59 40 to 10 : 06 : 30	"	"	"	"	"	"	"	"	"	"	"	
1136	"	7 39	-9° 30'	"	1 ^h 16 ^m W	10 : 15 00 - 10 : 19 : 00	"	"	"	"	"	"	"	"	"	"	"	
1137	14 Mon	6 30	+7 28	"	2 39 W	10 : 28 00 - 10 : 32 : 30	"	"	"	"	"	"	"	"	"	"	"	
1138	Lynx Var	6 52 5	+51 05	Mar 8	"	7 ^h 45 ^m 00 - 8 ^h 05 ^m 00	40 ⁵ fast	13"	Orion's Sp Sp.	"	"	70°	Fair	3 ⁺	"	N	"	
1139	"	"	"	"	18 ^m	8 ^h 11 ^m 00 - 8 ^h 31 00	"	"	"	"	"	"	good	"	"	"	"	
1140	"	"	"	"	1 ^h 03 ^m W	8 55 00 - 9 15 00	"	"	"	"	"	"	"	"	"	"	"	
1141	Ca Maj	7 ^h 15 ^m	-25 0	"	2 ^h 15 ^m W	9 32 30 - 9 52 30	"	8" Sch	Alpha Super Pan	"	"	68 ⁺	"	"	"	"	"	
1142	ε Ori	6 ^h 05 ^m	-1° 05'	"	3 ^h 41 ^m W	10 15 00 - 10 35 00	"	"	"	"	"	"	"	"	"	"	"	
1143	Lynx Var	6 52	+50° 08'	"	3 ^h 23 ^m W	10 59 00 - 11 34 00	"	13"	Orion's Sp Sp.	"	"	70°	"	"	"	"	"	
"	Pole	11 15	+90 + 1°	"	0 ^h 28 ^m E	11 40 00 - 12 15 00	"	"	"	"	"	"	"	"	"	"	"	
1144	Coma Virgo		+29° 40'	"	1 ^h 40 ^m E	11 57 00 - 12 10 00	"	8" Sch	Alpha Super Pan	"	"	68	"	"	"	"	"	

NEG. No.	R E G I O N		DATE 1940	H.A. End of Exposure	EXPOSURE "Old Astro. Day	Watch Error	Instrument or Aperture	Plate or Emulsion	DEVELOPMENT			SEEING		Position of Telescope	writing on Plate	Observer	REMARKS
	Guide star.	R.A.							Dec.	KIND	TIME	Temp	TRACES				
1212	Lynx Var.	6 ^h 52 ^m	+51° 06'	April 30	4 ^h 02 ^m W	8 ^h 25 ^m 00 - 8 ^h 49 ^m 00	1 ^m 04 ^s fast	13"	Or. Hi Sp. 4X5	Ross Metol	7 ^m	69±	fair	3	E	S	HG Jerry Kent
1213	"	"	+51° 06'	"	5 ^h 02 ^m W	9:20:00 - 9:44:00	"	"	"	"	"	"	"	"	"	"	"
1214	"	"	"	Tuesday	5 17 W	9:49:00 - 10:02:00	"	"	"	"	"	"	good	"	"	"	"
1215	"	"	"	"	6 ^h 03 ^m W	10:28:05 - 10:46:05	"	"	"	"	"	"	"	"	"	"	HG
1216	27 Coma Ber		+17° 40'	May 1	0 ^h 45 ^m E	7:33:00 - 7:53:00	1 ^m 50 ^s	8" P.E. Sch	Agfa Super Pan	"	"	"	good	3	W	"	"
1217	Coma - Virgo Cl.		+27° 55'	"	0 ^h 11 ^m W	10:03:00 - 10:23:00	"	"	"	"	"	"	"	"	"	"	"
1218		13 ^h 03 ^m	+36° 22'	"	1 ^h 55 ^m W	12:32:00 - 12:47:00	"	"	"	"	"	"	"	"	"	"	"
1219			-25°	"		13:02:00 - 13:14:00	"	Cogoh Sch	"	"	"	"	"	"	"	"	"
1220	#2 Scorpionis		-25° 35'	"	0 ^h 06 ^m W	13:48:00 - 14:03:00	"	8" P.E. Sch	"	"	"	"	"	"	"	"	"
1221	Deneb.		+46° 10'	"		14:10:00 - 14:22:00	"	"	"	"	"	"	"	"	"	"	"
1222	BN Mon	6 ^h 17 ^m	+7° 50'	May 3	4 ^h 48 ^m W	8 ^h 34 ^m 30 - 8 ^h 44 ^m 30	"	13"	Or. Hi Sp. Sp.	"	"	"	Fair	1	E	S	"
1223	Coma-Virgo Cl.	12 ^h 26 ^m	+26° 20'	"	0 ^h 01 ^m E	9:47:00 - 10:05:00	"	Cogoh Sch	Agfa Super Pan	"	"	"	"	2	W	"	"
1224	14 Com. Vir.	13 ^h 03	+36° 05'	Friday	0 ^h 13 ^m E	10:14:00 - 10:29:00	"	"	"	"	"	"	"	"	"	"	"
1225	Coma-Vir Cl.			May 4	0 ^h 10 ^m E	9:20 to 9:31 1/2 until 9:39 to 9:48	absent 1 ^m 20 ^s fast	"	"	"	"	"	cloudy	"	"	"	out off for clouds to pass
1226	11 Coma Ber	12 ^h 17 ^m	+18° 10'	"	0 29 W	10:03 to 10:23	"	"	"	"	"	"	Fair	"	"	"	"
1227	Corvi Reg.	12 30.2	-12° 30'	"	0 44 W	10:30 to 10:50	"	"	"	"	"	"	good	"	"	"	"
1228	Centauri	13 15	-45° 20'	"	0 27 W	10:58 to 11:18	"	"	"	"	"	"	"	"	"	"	"
1229	Coma V	12 02	+9 03	"	2 10 W	11:28 to 11:48	"	"	"	"	"	"	"	"	"	"	"
1230	BN Monoceros	6 ^h 17 ^m	+7° 50'	May 6		8:27:00 - 8:37:00	2 ^m fast	13"	1035 = 12 filter	"	"	"	good	good for look	E	S	"
1231	"	"	"	"	5 ^h 06 ^m W	8:42:00 - 8:52:00	"	"	"	"	"	"	"	"	"	"	"
1232	α Leonis	10 ^h 05 ^m	+12° 24'	"	2 25 W	9:48:00 - 10:02:00	"	Perkin Sch	Agfa Super Pan	"	"	"	good	3	W	"	"
1233	β Leonis	11 ^h 15 ^m	+13° 50'	"	1 56 W	10:29:00 - 10:47:00	"	"	"	"	"	"	"	"	"	"	"
1234	M 83	13 ^h 29 ^m	-28° 25'	"	0 ^h 05 ^m W	10:52:00 - 11:06:00	"	"	"	"	"	"	"	"	"	"	"
1235	ρ Virginis	12 ^h 38 ^m	+10° 50'	"	1 ^h 45 ^m W	11:41:00 - 11:55:00	"	"	"	"	"	"	"	"	"	"	"
1236	22 Scorpii	16 25	-25° 00'	"	0 ^h 55 ^m W	14:34:00 - 14:39:00	"	"	"	"	"	"	"	2	"	"	"
1237	36 Ophiuchi	17 12	-26° 35'	"	0 ^h 26 ^m W	14:54 - 15:09:00	"	"	"	"	"	"	"	"	"	"	"
1238	4 Sagittarius	17 52	-22 50	"	0 ^h 06 ^m W	15:20 - 15:35:00	2 ^m fast	"	"	"	"	"	"	"	"	"	"
1239	8 Lyrae	19 05	+32° 30'	May 7	2 ^h 00 E	14:12 - 14:27	30 ^s fast	"	"	"	"	"	good	1+	"	"	"
1240	8 Cygni	20 19	+40° 18'	Friday	2 53 E	14:34:30 - 14:49:30	"	"	"	"	"	"	"	"	"	"	"
1241	α Cygni	20 ^h 52 ^m	+49° 28'	"	2 57 E	15:04:30 - 15:19:30	"	"	"	"	"	"	"	"	"	"	"
1242	Open Cluster	17 59.5	-22 31	"	0 ^h 16 ^m W	15:26:00 - 15:41:00	"	"	"	"	"	"	"	"	"	"	"
1243	BN Mon	6 ^h 18 ^m	+7° 40'	May 8	5 ^h 07 ^m W	8:30:30 - 8:42:30	45 ^s fast	13"	Or. Hi Sp. Sp.	"	"	"	good	1	E	S	"
1244	Lynx Var	6 ^h 52 ^m	+52°	"	4 55 W	8:50:00 - 9:08:00	"	"	"	"	"	"	"	"	"	"	"
1244	Pole	18 30	+91°	"	1 ^h 20 E	9:11:00 - 9:29:00	"	"	"	"	"	"	"	"	W	"	"
1245	Stars Leonis	10 ^h 45 ^m	+14° 35'	"	2 ^h 06 ^m W	9:50:00 - 10:10:00	"	Cogoh Sch	Agfa Super Pan	"	"	"	"	"	"	"	"

553° E 4^m

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NEG. NO.	R E G I O N			DATE	H. A. End of Exposure	EXPOSURE *Old Astronomical Day	Watch Error	Instrument or Aperture	Plate Brand or Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star.	R. A.	Dec.							KIND	Time	Temp.	Trans.	Stead.				
1246	8 Lyrae		+38°45'	May 8		14.38:30 - 14.43:30	52 ^s fast	Perkin Sch	Agfa Super Pan	Roso Metal	7 ^m +	69 ⁺	good	3	W		H.G.	
1247	"		"	"	1 ^h 18 ^m E	14.45:00 - 15.00:00	"	"	"	"	"	"	"	"	"		"	Kodakoid plates
1248	N Am neb	20 ^h 57 ^m	+44°24'	"	204 E	15:12:00 - 15:27:00	"	"	"	"	"	"	"	"	"		"	
1249	S. & N. am neb.	20 47.2	+40 50	"	216 E	15:32:30 - 15:47:30	"	"	"	"	"	"	"	"	"		"	
1250	Cephei	21 36	+56 58	"	240 E	15:57:30 - 16:12:50	"	"	"	"	"	"	"	"	"		"	
1251	And neb.	0 ^h 38	+40 30	"	538 E	16:17:00 - 16:21:00	"	"	"	"	"	"	"	"	"		"	
1252	Lynx Var.	6 ^h 50 ^m	+50°08'	May 9	5 ^h 10 ^m W	8:45:00 - 9:15:00	1 ^m 17 ^s fast	13"	Or 41 Sp Sp 5x4	"	"	"	good	2-	E		"	Germany invades
1252	Pole	13 30	+89°0'	"	0 ^h 55 ^m F	9:20:00 - 9:50:00	"	"	"	"	"	"	"	"	W		"	Holland & Belgium
1253		12 17	+14°15'	"		9:54:00 - 10:13:00	41	Coaghill Sch	Agfa Super Pan	"	"	"	"	3	"		"	
1254	35 Coma Rev	12 50.2	+21°40'	"	0 ^h 30 ^m W	10:15 - 10:35:00	"	"	"	"	"	"	"	"	"		"	
1255		12 34.8	+12°10'	"	1 ^h 08 ^m W	10:38: - 10:58:00	"	"	"	"	"	"	"	"	"		"	
1256		17 11.5	-34°20'	"	0 ^h 13 ^m W	14:24 - 14:39:00	"	Perkin Sch	"	"	"	"	"	"	"		"	
1257		17 22 1/2	-24°10'	"	0 ^h 23 ^m W	14 46 - 15 01	"	"	"	"	"	"	"	"	"		"	
1258		17 44	-31°40'	"	0 ^h 34 ^m W	15 20 - 15 35	"	"	"	"	"	"	"	"	"		"	
1259		18 ^h 3/2	-28°29'	"	32 W	15 38 - 15 53	"	"	"	"	"	"	"	"	"		"	
1260	N Am neb.	20 ^h 57 ^m	+44°24'	May 10		15 13 - 15 28	13 ^s fast	"	Eastman Super	"	"	"	good	3	"		"	
1261	Viel Neb-Cygnus	20 48	+31°	"	1 ^h 54 ^m W	15 34:00 - 15 48:00	"	"	Panchro Pan	"	"	"	"	"	"		"	
1262	Coma Cluster Neb	12 ^h 28 ^m	+12°54'	May 27	2 ^h 29 ^m W	15 47:30 - 16 03:30	Conesto	13"	Agfa Super Pan Rev	"	"	"	"	"	"		"	Belgium surrenders to Hitler
1263	Lynx Var	6 ^h 50 ^m	+50°08'	May 28	7 ^h 05 ^m W	9 ^h 41 ^m 00 - 11 ^h 01 ^m 10	40 ^s slow	"	Hammil U R Pan	"	"	8	good	3+	N		"	King Leopold dethroned because of his
1263	Pole	15 ^h 00	+89°00'	"	0 ^h 07 ^m F	9 ^h 03 ^m 00 - 9 ^h 53 ^m 00	44 ^s	"	103G #12 filter	"	"	7	good	2	E	S	"	
1264	Lynx Var	6 ^h 52 ^m	+51°08'	May 30	6 52 W	10 ^h 00:00 - 10 50:00	45 ^s fast	"	"	"	"	"	"	"	"		"	
1265	"	"	"	"	7 25 W	9 45:45 - 10 08:45	"	"	3/4 x 4 1/2 inch Pan	"	"	"	good	1	"	"	"	
1266	Lynx Var	6 ^h 53 ^m	+52°00'	May 31	7 24 W	9 22:00 - 10 07:00	"	"	"	"	"	"	"	"	"		"	
1267	Pole	17 ^h	+90°+1°	"	0 ^h 52 ^m E	10 13:00 - 10 58:00	"	"	103G #12 filter	"	"	"	good	2-	"		"	
1268	Lynx Var	6 ^h 50	+50°10'	June 1	7 ^h 24 W	9 ^h 09 ^m 40 - 9 ^h 59 ^m 50	"	"	"	"	"	"	"	"	W		"	
1268	Pole	15 ^h 10 ^m	+89°	"	0 ^h 02 ^m F	10 05:00 - 10 55:00	"	"	103G #12 filter	"	"	"	good	1	E		"	
1269	Cepheus Region	21 ^h 36 1/2	+57°	June 3	1 ^h 36 ^m F	15 ^h 20 ^m 00 - 15 35:00	25 ^s fast	Perkin Sch	Agfa Super Pan Rev	"	"	"	good	3	W		"	
1270	SA #44 #28 Androm.	0 ^h 26 ^m	+29°38'	"	4 06 E	15 42:00 - 15 54:00	"	"	"	"	"	"	"	"	"		"	
1271	i Scorpionis	16 43 1/2	-39°55'	June 4	0 ^h 21 ^m W	12 20:20 - 12 38:20	38 ^s fast	"	"	"	"	"	good	2	"		"	
1272	22 Scorpionis	16 27	-25°	"	"	12 45:00 - 13 03:00	"	"	"	"	"	"	"	"	"		"	
1273	#28 Andromeda Region	0 ^h 26.6	+29° 30'	"	4 ^h 13 W	15 08 - 15 24	"	"	"	"	"	"	"	"	"		"	
1274	" SA #44	"	"	"	4 13 W	15 29 - 15 45	"	"	"	"	"	"	"	"	"		"	
1275	14 Can Ven	13 ^h 03 ^m	+36°08'	June 5	2 ^h 58 ^m W	11 ^h 11 ^m 00 - 11 ^h 31 ^m 00	15 ^s fast	Coaghill Sch	"	"	"	"	good	2.	"		"	
1276	#28 Androm	0 ^h 26	+29°30'	"	4 11	15 24:00 - 15 44	"	"	"	"	"	"	"	"	"		"	

Neg. No.	REGION			Date 1941	M.A. End of Exp.	Exposure Time *Old Astro. Day	Watch Error
	Guide Star	R.A.	Dec.				
1342 ^a	Dutoit Object.	20 ^h 55 ^m .5	-4° 0'	Aug. 25	0 ^h 28 ^m E	10 ^h 13 ^m 00 - 10 ^h 35 ^m 00	Correct.
1343	"	20 58	-5°	Aug 26	1 ^h 09 ^m E	9 ^h 35 ^m 10 ^s - 9 ^h 55 ^m 10 ^s	10 ^s fast.
1344	"	"	"	"	0 ^h 17 ^m E	10 45 10 - 10 50 10	"
1345 ^a	"	"	"	Aug 27	0 ^h 01 ^m W	10 42 21 - 11 ^h 00 21 ^s	18 ^s fast
1346 ^a	Comet van Gent	12 ^h 07 ^m	+42° 42'	Sept 8	6 ^h 24 ^m W	8 ^h 04 ^m 00 - 8 ^h 14 ^m 00	5 ^s fast
1347 ^a	du Toit-Neu. Obj.	21 18	-4° 50'	"	1 ^h 50 ^m E	8 ^h 33 ^m 00 - 8 ^h 43 ^m 00	"
1348 ^a	"	21 17	-5 42	Sept. 10	1 28 E	8 45 22 - 8 55 22	22 ^s fast
1349 ^a	Neijmin Comet	22 ^h 01 ^m	-11° 09'	"	1 32 E	8 31 - 8 56	"
1350 ^a	Neijmin Comet	21 ^h 47 ^m 1/2	-10° 57'	Sept 11	1 ^h 16 ^m E	9 ^h 15 ^m 22 - 9 ^h 36 ^m 22 Schmidt 2 ^m longer	31 ^s fast
1351 ^a	"	21 45	-10 08	Sept 15	0 ^h 07 ^m E	10 ^h 05 ^m 00 - 10 ^h 25 ^m 00 Schmidt 2 ^m longer	ontime
1352 ^a	du Toit-Neu. Comet	21 28	-5° 50'	Sept 16	1 ^h 11 ^m E	8 ^h 29 ^m 00 - 9 ^h 01 ^m 20 ^s	9 ^s fast
1353 ^a	Neijmin Comet Region	21 49.8	-11° 50'	"	0 ^h 52 ^m E	9 ^h 12 ^m 00 - 9 ^h 42 ^m 00	"
1354 ^a	"	"	"	Sept 17	0 16 E	9 40 00 - 10 10 00	31 ^s fast
1355	N America Neb. Region	20 57	+44° 30'	Sept 20	0 ^h 14 ^m E	8 42 - 9 12	"
1356	Andromeda Neb.	0 39	+40° 40'	Sept 20	1 21 E	11 ^h 22 ^m - 11 ^h 47 ^m	"
1357 ^a	"	0 ^h 35 ^m	+41° 04'	Sept 22	2 ^h 34 ^m E	9 ^h 21 ^m 05 - 10 20 05 Sch. 1 ^m longer	5 ^s fast
1358 ^a	Scutum Cloud.	18 ^h 50'	-7° 08'	Sept 24	1 ^h 27 ^m W	8 ^h 27 ^m 35 ^s - 9 ^h 30 ^m 32 ^s Sch. 1 ^m longer	28 ^s fast
1359 ^a	Andromeda Neb.	0 ^h 38 ^m	+40° 30'	Sept 25	2 ^h 38 ^m E	9 ^h 10 ^m - 9 ^h 50 ^m	"
1360 ^a	du Toit Comet Region	22 ^h 57.5	-3° 37'	Nov. 10	0 ^h 20 ^m W	7 ^h 46 ^m 00 - 8 ^h 22 ^m 00 2 sec (slow)	10 sec fast
1361 ^a	"	22 55	-3 55	Nov. 11	0 13 W	7 35 08 - 8 ^h 11 10 2 sec (slow)	10 sec fast

1942

1942

Instr. & Aperture	Plate or Emulsion	DEVELOPMENT			SEEING		Position of Telescope	Writing on plate	Observer	REMARKS
		Kind	Time	Temp	Trans.	Stood.				
13" C.F.F.S.	210 Cr. Hi. Sp. Sp.	Ross Metal	8 ^m	70°	Good	Fair	W	N	H.G.	a cut to 4x5 size and meas. for position cut
13" only	"	"	"	"	"	"	"	"	"	"
13" C.F.F.S.	4x5 Cr. Hi. Sp. Sp.	"	"	"	"	"	"	"	"	"
13" C.F.F.S.	200 med.	"	8	"	"	"	E	"	"	b about 2 ^m longer in exp.
13" C.F.F.S.	"	"	"	"	"	"	W	N	"	"
13" C.F.F.S.	"	"	7	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	103 D	"	"	"	"	"	"	"	"	"
"	"	"	8	"	good	7	"	"	"	"
"	4x5 "	"	"	"	"	5	"	"	"	"
"	8x10 "	"	"	"	"	5	"	"	"	"
"	8x10 "	"	"	"	"	7	"	"	"	good setting.
C.F.F.S.	103 D	"	"	"	"	6	"	"	"	"
13" "	103 D	"	"	"	"	6	"	"	"	Schmidt camera slipped (trails) during exposure.
13" "	4x5 Cr. Hi. Sp. Sp.	"	"	63°	"	5	"	"	"	"
13" C.F.F.S.	103 D	"	"	70°	Fair	5	"	"	"	Sky overcast most of time - Made to test filter.
13" C.F.F.S. only	3/4 Cr. Hi. Sp. Sp.	"	7	70	Poor	5	"	"	"	"
13" C.S.	4x5 Cr. Hi. Sp. Sp.	"	7 ^m 4 ^m	"	good	6	"	"	"	"
"	Agfa S.P.P.	D19	"	"	"	"	"	"	"	"

1942

1942

1942

1362 ^a	Andromeda Neb.	0 ^h 40 ^m	+40° 40'	Jan. 10.	3 ^h 14 ^m W	8 ^h 27 ^m 07 ^s - 8 ^h 57 ^m 07 ^s	07 ^s fast
1363	BN Monocerotis	6 ^h 18 ^m	+7° 36'	"	1 ^h 45 ^m E	9 ^h 16 ^m 07 ^s - 9 ^h 38 ^m 07 ^s	"
1364	Lynx Var.	6 ^h 52 ^m	+51° 04'	Jan. 13	4 ^h 24 ^m E	7 ^h 00 ^m 15 ^s - 7 ^h 20 ^m 15 ^s	10 ^s fast 6 ^h 25 ^m PM.
1365	Gr. And. Neb.	0 ^h 40 ^m	+40° 40'	"	2 ^h 31 ^m W	7 ^h 30 ^m 10 ^s - 7 ^h 38 ^m 10 ^s one 4 ^m exp. between	"
1366	Lynx Var.	6 ^h 52 ^m	+51° 04'	"	3 ^h 13 ^m E	7 ^h 51 ^m 10 ^s - 8 ^h 07 ^m 10 ^s	"
1367	"	"	"	"	2 37 E	8 ^h 15 ^m 25 - 8 ^h 36 ^m 00 ^s	13 ^s
1368	"	"	"	"	2 12 E	8 51 15 - 9 11 15	10
1369	"	"	"	"	1 51 E	9 42 30 - 10:02:30	17 ^s fast 10 ^h 20 ^m PM.
1370 ^a	Gr. And. Nebula	0 ^h 40 ^m	+40° 40'	Jan. 14	3 ^h 15 ^m W	2 ^m exp: about 8 ^h 50 ^m 4 ^h 13 ^m 00 - 4 ^h 17 ^m 00	55 ^s fast.
1371	"	"	"	Jan. 15	3 ^h 35 ^m W	8 ^h 52 ^m - 9 ^h 00	Corrected
1372	BN Monocerotis	6 ^h 18 ^m	+7° 36'	"	1 ^h 38 ^m E	9 ^h 11 ^m - 9 ^h 26 ^m	"
1373	"	"	"	"	1 ^h 18 ^m E	9 33 - 9 ^h 48 ^m	"
1374	"	"	"	Jan 17	1 41 E	9 ^h 00 - 9 ^h 15 ^m	"

13" C. Sel.	Drum. Hi. Sp. Sp.	Ross Metal	7 1/2	70°	Good	0-1	W	N	H.G.	Schmidt camera moved during exp: 13" OK, but other trails
13" "	Agfa Triplex S. Pans.	"	"	"	"	"	"	"	"	"
13" "	103 E with #28 filter	"	"	"	"	"	"	"	"	"
Cog. Selm.	Cramer Hi. Sp. Sp.	"	8	70°	good	3+	"	"	"	Camera slipped on mounting during exposure.
13" "	Agfa Sup. Bu. Press.	"	"	68°	"	"	"	"	"	Good Primary Minimum.
"	Cramer Hi. Sp. Sp.	"	"	70°	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
Cog. Sel.	Agfa Sup. Bu. Press.	"	7	68	"	0, 1+	"	"	"	focus plates preceding this.
"	"	"	"	"	"	3	"	"	"	"
13" "	103 E with #28 filter	"	8	"	"	"	"	"	"	"
"	103 G with #12 filter	"	"	"	"	"	"	"	"	"
"	Cr. Hi. Sp. Sp.	"	6	"	"	4	"	"	"	"

Min!

Min!

Instr. or Aperture	PLATE Brand & Em. or Filter	DEVELOPMENT			SEEING		Position of InsTr.	Writing on Plate	Observer	REMARKS
		Kind	Time	Temp	Trans.	Stead.				
13"	Cramer Hi Sp. Sp.	Ross Meto /	6m	68	Good.	4	W	N	H.G.	Prod.
"	Eastman 103 E #28 Filter	"	5 1/2	"	"	"	"	"	"	"
"	Cramer Hi Sp. Sp.	"	7	"	"	"	"	"	"	"
"	"	"	6 1/2	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	7	"	"	"	"	"	"	Thursday A.M. 5:33
"	4X5	"	6	"	"	3	"	"	"	"
"	3 1/2 x 4 1/4	"	"	"	"	3	"	"	"	"
"	"	"	"	"	Poor	3, 2	"	"	"	"
"	"	"	"	"	Poor to Fair	3+	"	"	"	"
"	"	"	"	"	Very good	8	"	"	"	Object in? found on plate Really moving fast. 4x5
13" + Cog. Sel.	3/4 x 1 1/4 C. Hi Sp. Sp.	"	7	"	"	"	"	"	"	"
13"	810 Cramer Hi Sp. Sp. Alfa S.P. Press.	"	"	"	"	"	"	"	"	"
13"	810 Cramer Hi Sp. Sp.	"	"	68	"	"	"	"	"	"
13" + Cog.	4x5 C. Hi Sp. Sp. Alfa S.P. Press.	"	11m	68	good	5	"	"	"	N.E. wind. Prod.
13"	#28 filter	"	8m	68	"	1	"	"	"	"
13" Cog. Sel.	103 E East Sp. 4x5 C. Hi Sp. Sp. Alfa S.P. Press filter	"	7	?	"	4	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
13"	"	"	"	"	"	"	"	"	"	"
13" Cog. Sel.	103 E #28 filter Alfa S.P. Kodak filter	"	7	68	"	3	"	"	"	Prod Exp. for Obj. just 1 hour later same region on Sel. only.
13" Cog. Sel. only	Alfa S.P. Kodak filter	"	"	"	"	3	"	"	"	"
13" Cogh. Sel.	810 Cramer Hi Sp. Sp. Alfa S.P. Press	"	9	"	Room good	3	"	"	"	"
"	4x5	"	7	"	"	"	"	"	"	"
"	"	"	8	"	"	"	"	"	"	"
Lower Sel. on 15" mt.	Alfa S.P. Press Film	D19	5+	"	"	"	F	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	poor focus. per bet better focus. good focus.
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"

13"

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13" + Cog. Sel.

13"

13" + Cog.

13"

13" Cog. Sel.

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13"

13" Cog. Sel. only

13" Cogh. Sel.

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58°F in plate

N.E. wind. Prod.

Prod Exp. for Obj. just 1 hour later same region on Sel. only.

poor focus. per bet better focus. good focus.

good

NEG. No.	R E G I O N		DATE 1942	H.A. of end of exposure	Exposure Time Old Astro Day M.S.T.	Watch Error
	Object	R.A. Dec.				
1410	Search for Vaisala Obj.	12 ^h 20 ^m +60° 11'	April 8	1 ^h 20 ^m E	10 ^h 16 ^m 32 ^s to 10 ^h 21 ^m 32 ^s	4 1/2 sec fast.
1411	"	13 ^h 17 ^m +45° 40'	"	2 ^h 02 ^m F	10:30:41 to 10:35:41	"
1412	"	12 21 +60° 12'	April 9	1 ^h 26 ^m F	10 ^h 06 ^m 58 ^s - 10 ^h 11 ^m 58 ^s	4 1/2 sec fast
1413	"	12 00 +69° 05'	"	0 53 E	10:20:20 - 10:25:20	"
1414	"	12 55 +69 00	"	1 ^h 37 E	10:31:30 - 10:36:30	"
1415	"	11 45 +29° 40'	April 10	0 ^h 26 ^m E	10:26:00 - 10:31:00	4 1/2 sec fast
1416	"	12 ^h 00 +41 05	"	0 30 E	10:38:00 - 10:43:00	"
1417	"	12 09 +50° 25'	"	0 27 E	10:49:00 - 10:51:00	"
1418 ^a	"	12 08.5 +33° 21'	April 12	0 ^h 58 ^m E	a) 9 ^h 14 ^m 00 ^s - 9 ^h 14 ^m 00 ^s b) 9 34 00 - 9 54 00	4 1/2 sec fast
1419 ^a	"	"	" 13	0 ^h 34 ^m W	a) 10:42:00 - 11:42:00 b) 11:02:00 - 11:22:00	4 1/2 sec fast
1420	"	12 19 +39° 42'	April 14	0 ^h 40 ^m E	10:16:00 - 10:36:00	4 1/2 sec fast
1421	"	12 19 1/2 +47° 30'	"	0 15 E	10:42:02 - 11:02:02	"
1422 ^a	"	12 19 +39 42	April 15	1 50 E	9:02:00 to 9:22:00	"
1423 ^a	"	12 19.5 +47° 30'	"	1 25 E	9:28:00 - 9:48:00	"
1424 ^a	"	12 17 +52° 48'	"	0 49 E	9:59:00 - 10:19:00	"
1425 ^a	"	12 19 +58 12'	"	0 35 E	10:25:00 - 10:45:00	"
1426	4 May Var Region	7 10 +30° 10'	April 16	3 ^h 00 W	8:55:30 - 8:59:30	4 1/2 sec fast
1427	Search for Vaisala Obj.	11 46 +28° 22'	"	1 22 E	9:08:00 - 9:12:00	"
1428 ^a	"	12 06.8 +28° 33'	April 17	0 ^h 02 ^m E	10:33:00 - 10:53:00	4 1/2 sec fast
1429	"	12 17 +52° 48'	April 18	0 ^h 39 ^m E	9:38:00 - 9:58:10	50 sec fast
1430	"	12 19 +58° 18'	"	0 ^h 24 ^m E	10:05:00 - 10:25:00	"
1431 ^a	Presumably Grigg-Skjellerup Comet	8 52.3 +28° 12'	June 4	5 ^h 00 W	9 ^h 05 ^m 00 ^s - 9:25:00 9 06 00 - 9:26:00	23 ^s slow
1432 ^a	Old P. nova variable field.	12 13 -17° 10'	"	2 ^h 13 W	9:39:02 - 9:59:02 Sch: 9:40:00 - 10:00:02	"
1433 ^a	Grigg-Skjellerup Comet	9 ^h 22.2 +29° 57'	June 5	4 ^h 38 ^m W	12) 9 ^h 10 ^m 00 ^s - 9 ^h 31 ^m 00 ^s Sch: 9:11:00 - 9:30:00	19 ^s slow.
1434 ^a	"	9 26 +30 17	June 6	4 53 W	13) 9:20:00 - 9:40:00 Sch: 9:21:00 - 9:39:00	15 ^s "
1435 ^a	"	9 ^h 42.8 +31 28	June 8	4 33 W	14) 9 ^h 15 ^m 00 ^s - 9:35:06 Sch: 9:16:00 - 9:34:06	06 ^s slow
1436 ^a	Schw. Wach Comet Region	9 50 +15 04	June 16	4 53 W	15) 9:21:00 - 9:31:00 Sch: 9:21:30 - 9:31:30	14 ^s fast
1437 ^a	Grigg-Skjellerup Comet	10 ^h 53.8 +37° 12'	"	4 18 W	16) 9:40:00 - 10:00:00 Sch: 9:40:30 - 10:00:30	"
1438 ^a	Comet Forbes	0 ^h 45 ^m -0° 32'	July 11	2 ^h 12 ^m E	15 ^h 12 ^m 00 ^s - 15 ^h 42 ^m 00 ^s Sch: 3 sec. lens unshd.	16 ^s slow
1439 ^a	Forbes Comet	0 ^h 52 ^m +0° 30'	July 18	1 ^h 34 ^m E	15 ^h 29 ^m 00 ^s - 15 ^h 47 ^m 00 ^s Schmidt 25 sec. lens on mech. and.	13 ^s fast Revised to 10 fast
1440 ^a	Nova Herculis	18 ^h 07 ^m +45° 44'	August 11	0 ^h 36 ^m W	13 ^h 9 ^m 28 ^s 00 ^s - 9 ^h 42 ^m 00 ^s Sch: 9 28 04 - 9:48:04	18 ^s slow
1441	"	"	"	"	9 ^h 46 ^m 04 ^s to 10 ^h 10 ^m 04 ^s	"
1442	Comet Forbes Reg	1 ^h 17 +2° 00'	August 20	0 06 E	15 ^h 10 59 to 15 25 59 Sch + 45	15.5/low
1443	"	"	"	0 15 W	15:30:59 - 15:45:59 Sch + 45	"
1444	Lunar Eclipse	"	August 25	"	1. 9 ^h 23 ^m 45 ^s - 2. 03 ^s 2. 9 33 00 " 15 ^s 3. 9 41 30 " 8 ^s	60 ^s fast

Instrument or Aperture	PLATE Brand or Fm.	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		Kind	Time	Temp.	Trans.	Stood.				
Lower Schmidt	Agfa Sup. Pan Press 3 1/4 dia	D 19	5	Room	Good	3	E	H.G.		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	Fair+	2	"	"		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"		
13" Cougl. Sch	8x10 Cr. Hi Sp. Sp. Agfa S.P.P.	Rosa Match	7+	"	good	3+	W	"		
"	"	"	"	"	"	"	"	"		
Cougl. Sch	Agfa S.P.P.	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	Good	3±	"	"		
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"		
Lower Sch	"	"	"	"	Fair good	3-	"	"	out of focus.	
"	"	"	"	"	"	"	"	"	Tobio claims it has been bombed.	
13" Cougl. Sch	8x10 Cr. Hi Sp. Sp. Agfa S.P.P.	"	7+	80 to 68	Fair to good	1	"	N		
Cougl. Sch	Agfa S.P.P.	"	"	Room	Good	3	"	"		
"	"	"	"	"	"	"	"	"		
13" Cougl. Schmidt	Cr. Hi Sp. Sp. Agfa S.P.P.	"	7	68+	good to fair+	3+	"	"	compared with other plates from S.E. of center use 12" 17" - 18"	
"	"	"	"	"	"	"	"	"		
"	"	"	"	"	good	3	"	"		
"	"	"	"	"	"	"	"	"		
"	Agfa Triple Pan	"	7	68	"	3	"	"		
"	"	"	"	"	good	3-	"	"		
"	Agfa S.P. Press.	"	8	70	good	"	"	"	Old film, not new dev. plates with dark corners made on plates.	
"	Wallace Hydro R.M.	"	7	74°	good	3±	"	"		
"	"	"	"	69	"	3+	"	"		
"	"	"	"	"	good	8+	"	"	getting of wire space as dia of wire below objective.	
"	"	"	"	"	"	sum good	"	"		
13" only	Cr. Hi Sp. Sp.	"	"	"	"	"	"	"		
13" Cougl. Sch	Agfa S.P.P.	"	7	68	good	3	"	"		
"	"	"	"	"	Fair	"	"	"	C.O.L. H.G. Part here for record of exposure times.	
40" Newton	Kodachrome 3 1/4 x 4 1/4	"	"	"	good	Fair low	"	"		

Neg. No.	REGION		DATE 1943	H.A. End of Exposure	Exposure Time *Old Astro. Day	Watch Error	Instrument or Appr.	Plate Brand or Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.							Dec.	Kind	Time	Temp.	Trans.				
1497	Lynx Variable	6 ^h 53 ^m	+51° 03'	Jan 1	3 ^h 58 ^m E	8:18:00 - 8:39:00	01 ^s Slow	13"	3/4x4 1/4 Cr. Hi Sp. Sp.	Ross Metal	6 ^m	73 to 68	Good	3	W	N	H. G. Gies, out of balance + shifted train images.
1498	"	"	"	"	3:25 E	8:52:05 - 9:12:05	"	"	"	"	"	"	"	"	"	"	"
1499	"	"	"	"	2:56 E	9:20:10 - 9:40:10	"	"	"	"	"	"	"	"	"	"	"
1500	"	"	"	"	2:28 E	9:47:00 - 10:07:00	5 ^s Slow	"	"	"	"	"	"	"	"	"	"
1501	"	"	"	"	1:59 E	10:17:00 - 10:37:00	"	"	"	"	"	"	"	"	"	"	"
1502	"	"	"	"	1:30 E	10:45:05 - 11:05:15	"	"	"	"	"	"	"	"	"	"	"
1503	"	"	"	"	1:03 E	11:11:11 - 11:31:11	6 ^s Slow	"	"	"	"	"	"	"	"	"	"
1504	Nova Puppis	8 ^h 05 ^m	-35° 00'	Jan 4	0 ^h 18 ^m E	13:13:00 to 13:18:00	4 ^s Slow	"	4x5 "	D 19	4	65°	good	4	"	"	"
1505	Whipple Comet II	8 ^h 54.5	+30° 30'	"	0 ^h 37 ^m E	13:27:00 to 13:39:00	"	13" + Capsh	Agfa S.P.P.	"	"	"	"	"	"	"	13" Exp on 13" plate.
1506	"	9 ^h 02 ^m	+32° 38'	Jan. 7	0 ^h 08 ^m W	14:20:00 to 14:28:00	4 ^s Slow	13"	"	"	"	"	good	2-0	"	"	Strong N.E. wind.
1507	"	"	"	"	0 ^h 38 ^m W	14:15:15 to 14:55:15	5 ^s Slow	13" + Capsh	"	"	"	"	"	"	"	"	"
1508	Lynx Variable	6 ^h 53 ^m	+51° 03'	Jan 8	4 33 E	7:17:00 - 7:37:00	6 ^s Slow	13"	3/4x4 1/4 Cr. Hi Sp. Sp.	Ross Metal	6 ^m	70°	good	2-1	"	"	"
1509	"	"	"	"	4 01 E	7:50:00 - 8:10:00	8 ^s "	"	"	"	"	"	"	"	"	"	"
1510	"	"	"	"	3 28 E	8:20:00 - 8:40:00	9 ^s "	"	"	"	"	"	"	"	"	"	"
1511	"	"	"	"	3 06 E	8:48:00 - 9:08:00	10 ^s Slow	"	"	"	"	"	"	"	"	"	"
1512	"	"	"	"	2 29 E	9:18:00 - 9:39:00	11 ^s "	"	"	"	"	"	"	"	"	"	"
1513	"	"	"	"	2 00 E	9:47:00 - 10:09:00	12 ^s "	"	"	"	"	"	"	"	"	"	"
1514	"	"	"	"	1 31 E	10:17:00 - 10:37:00	13 ^s "	"	"	"	"	"	"	"	"	"	"
1515	"	"	"	"	1 06 E	10:43:00 - 11:03:00	14 ^s Slow	"	"	"	"	"	"	"	"	"	"
1516	Whipple II Comet	9 ^h 05 ^m	+33° 18'	"	2 46 E	11:19:00 - 11:34:00	15 ^s Slow	13" + Capsh	4x5 Cr. Hi Sp. Sp. + Agfa S.P.P.	D 19	4	65°	"	1-0	"	"	"
1517	BN Monocrotis	6 18	+7° 38'	Jan. 11	0 ^h 47 ^m W	11:54:10 - 12:08:10	14 ^s Slow	13"	4x5 Cr. Hi Sp. Sp.	R.M.	6	70	good	3±	"	"	"
1518	Whipple Comet	9 15	+35° 37'	"	1 36 E	12:22:00 - 12:32:10	"	13" Capsh	3/4x4 1/4 Cr. Hi Sp. Sp.	D 19	4	65	"	"	"	"	"
1519	Nova Puppis	8 11	-35 00	"	0 13 E	12:57:00 - 13:02:00	16 ^s Slow	13"	4x5 Cr. Hi Sp. Sp.	"	4	"	"	"	"	"	"
1520	Whipple Comet	10 ^h 28 ^m	+49° 03'	Jan 30	"	11:32:00 - 11:47:00	52 ^s Slow	13" & Sol.	4x5 Cr. Hi Sp. Sp. + Agfa S.P.P.	"	5	64	good	3	"	"	"
1521	"	"	"	"	2 ^h 20 ^m E	11:50:00 - 11:55:00	"	13"	Cr. Hi Sp. Sp.	"	4	"	"	"	"	"	"
1522	"	10 43	+49 42	Feb 3	3 53 E	10:12:00 - 10:22:00	55 ^s Slow	13" + Capsh	Agfa S.P.P.	D 19	4	64	Fair to	5	"	"	Set comet 1/2 across field
1523	"	10 45	+51 08	"	2 24 E	11:15:00 to 11:35:00	"	"	"	"	"	64	good	"	"	"	"
1524	Whipple Comet Scale Plate	"	"	"	"	15:10 to 11:35:10	"	"	"	"	"	64	good	"	"	"	Expos: 1/2 mag. intervals: 25 ^s , 40 ^s , 63 ^s , 100 ^s , 158 ^s . 2 times open.
1525	Whipple Comet	10 ^h 52 ^m	+52°	Feb. 5	"	10:21:00 to 10:25:00	03 ^s Slow	lower Sol	Agfa S.P.P.	D 19	4	64	good	4	"	"	check chattering, trailed images, N.S.
1526	"	10 ^h 52 ^m	+52° 00'	"	"	1/2 Papan Ratio	"	13"	Cr. Hi Sp. Sp.	"	"	"	good	"	"	"	Exp: 4 ^s , 6 ^s , 10 ^s , 16 ^s , 25 ^s , 40 ^s , 63 ^s , 100 ^s , 2 ^m 38 ^s , 4 ^m 11 ^s .
1527	"	"	"	"	"	12:08:00 to 12:30:00	06 ^s Slow	13" + Capsh	Agfa S.P.P.	"	"	"	"	"	"	"	"
1528	BN. Monocrotis	6 ^h 18 ^m	+7° 38'	Feb 6.	0 ^h 06 ^m W	9:32:00 - 9:45:00	08 ^s Slow	13"	3/4x4 1/4 Cr. Hi Sp. Sp.	Ross Metal	7	68°	good	4	"	"	"
1529	"	"	"	"	0 27 ^m W	9:52:00 - 10:08:00	08	"	East 103 D with #12 filter	"	"	70°	"	"	"	"	"
1530	"	"	"	"	0 52 ^m W	10:20:00 - 10:30:00	"	"	East 103 E with #28 filter	"	"	"	"	"	"	"	"
1531	Nova Puppis	8 ^h 07 ^m	-35° 12'	"	0 38 ^m E	10:42:00 - 10:50:00	"	"	4x5 Cr. Hi Sp. Sp.	D 19	4	64	"	0	"	"	"

NEG. No.	REGION			DATE 1943	H.A. end of Exposure	Exposure Time *Old Astro. Day	Watch Error	Instrument or Aperture	Plate Brand Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.	Dec.							Kind	Time	Temp	Trans.	Stead.				
1567	Lynx Variable	6 ^h 53 ^m	+51°03'	April 1	1 ^h 45 ^m W	8 ^h 05 ^m 00 to 8 ^h 25 ^m 00 ^s	29 ^s Slow	13"	3/4x4 1/4 Cr. 76 Sp. Sp.	Ross Metal	7 ^m	70°	good	3-1	W	N	#6. war is hell	
1568	"	"	"	"	2 21 W	8:40:00 - 9:00:00	"	"	"	"	"	"	"	"	"	"	"	
1569	"	"	"	"	2 50 W	9:10:00 - 9:30:00	"	"	"	"	"	"	"	"	"	"	"	
1570	"	"	"	"	3 20 W	9:40:00 - 10:00:00	"	"	"	"	"	"	"	"	"	"	"	
1571	Whipple II Comet	12 ^h 44 ^{1/2} ^m	+46°30'	"	2 ^h 11 ^m E	10 ^h 11 ^m 00 to 10 ^h 20 ^m 04 ^s	30 ^s Slow	"	"	D19	4	62	"	"	"	"	"	
1572	"	"	+46°00'	Apr. 2	"	9 ^h 51 ^m 00 - 10 ^h 00 ^m 00	48 ^s Slow	lower	Schmidt	Agfa S.P.P.	D19	4	"	good	3	"	"	
1573 ^a	"	"	"	"	1 ^h 51 ^m E	10:18:00 - 10:38:00	"	13" & Sch	Cr. 76 Sp. Sp. 4x5	"	"	"	"	"	"	"	"	
1574	"	12 ^h 48 ^m	+41°05'	Apr. 14	1 ^h 06 ^m E	10:36:01 to 10:40:01	8 ^s Fast	13"	4x5 Cr. 76 Sp. Sp.	D19	3	62	good	4	"	"	"	
1575	"	"	"	"	0 54 ^m E	10:45:01 to 10:51:31	"	"	"	"	4	"	"	"	"	"	"	
1576 ^a	Oterma Comet	8 ^h 01.5 ^m	+38°52'	Apr. 24	3 ^h 24 ^m W	9 ^h :08:10 to 9 ^h 40:10 ^s	8 ^s Fast	13" & Sch	4x5 Cr. 76 Sp. Sp. Agfa S.P. Press	D19	4 1/2	63°	good	3	"	"	"	
1577 ^b	Whipple Comet	12 ^h 52 ^m	+36°35'	"	1 ^h 02 ^m E	9:53:00 to 9:59:00	7 ^s fast	"	"	"	"	"	"	"	"	"	"	
1578 ^a	Oterma II Region	8 ^h 04 ^m	+39°40'	Apr. 26	3 ^h 34 ^m W	9:22:00 to 9:47:00	12 ^s Slow	"	4x5 Cr. 76 Sp. Sp. Hammer Blue film	"	√	63	good	3+	E	S	"	
1579 ^a	New Comet Region?	12 ^h 7.3 ^m	+2°14'	"	0 ^h 17 ^m W	10:03:02 to 10:33:02	13 "	"	4x5 Cr. 76 Sp. Sp. Agfa S.P. P.	"	"	"	"	"	W	N	cut out 4x5 center section with comet 1943a on it.	
1580 ^a	Lynx Variable	6 ^h 53 ^m	+51°03'	Apr. 27	4 ^h 27 ^m W	8:25:00 to 9:25:00	16 ^s Slow	13"	103 G with #12 filter	D19	4	65	Vgood	4	E	S	"	
1580 ^b	"	"	"	"	"	8:55:00 to 9:25:00	"	Cog. Sch.	Hammer Blue film	"	"	"	"	"	"	"	"	
1581	S.A. #4	8 ^h 08 ^m	+74°45'	"	4 28 W	9:38:00 to 10:38:00	17 ^s "	13"	103 G with #12 filter	D19	4	65	"	"	"	"	"	
1582	Whipple II Comet	12 ^h 52 ^m	+35°38'	"	0 ^h 07 ^m W	10:55:00 to 11:05:00	18 ^s Slow	"	4x5 Cr. 76 Sp. Sp.	"	"	63	"	"	"	"	"	
1583 ^a	Lynx Var. P.	6 ^h 53 ^m	+51°03'	Apr. 29	4 ^h 52 ^m W	8 ^h 39 ^m 00 to 9 ^h 39 ^m 00	30 ^s Slow	13"	103 G with #12 filter	D19	4	68°	Vgood	4	E	S	"	
1583 ^b	"	"	"	"	"	9 ^h 10 ^m to 9 ^h 38 ^m	"	Cog. Sch	Agfa S.P. Press	"	"	63°	"	"	"	"	"	
1584	S.A. #4 P.	8 ^h 10 ^m	+74°42'	"	4 ^h 51 ^m W	9 ^h 27 ^m 00 to 10 ^h 54 ^m 32 ^s	"	13"	103 G with #12 filter	"	"	68°	"	"	"	"	"	
1585	Whipple Comet	12 ^h 55 ^m	+34°37'	"	0 ^h 38 ^m W	11 ^h 18 ^m 00 to 11 ^h 30 ^m 00 ^s	32 ^s Slow	"	4x5 Cr. 76 Sp. Sp.	"	"	63°	"	"	W	N	"	
1586 ^a	Lynx Var P.	6 ^h 53 ^m	+51°03'	April 30	4 ^h 59 ^m W	8:44:00 to 9:45:10	35 ^s Slow	13" & Cog. Sch	Hammer Portrait film	D19	4	65	good	4-	"	"	"	
1587 ^a	New Comet Region see H.A.C. 656	12 ^h 07.3 ^m	+2°14'	"	0 ^h 37 ^m W	10:07:00 to 10:37:00	"	"	4x5 Cr. 76 Sp. Sp. 3910 Hammer Med. Cond. 3 1/4 x 4 1/4 Cr. 76 Sp. Sp.	"	"	"	"	"	"	"	cut to 4x5	
1588	Lynx Var.	6 ^h 53 ^m	+51°03'	May 1	5 ^h 01 ^m W	9 ^h 23 ^m 00 to 9 ^h 43 ^m 00	39 ^s Slow	13"	4x5 Cr. 76 Sp. Sp.	Ross Metal	7	69°	good?	2+	"	"	"	
1589 ^a	Whipple II Comet	12 ^h 54 ^m	+33°12'	"	0 ^h 10 ^m E	10 ^h 13 ^m 00 to 10 ^h 33 ^m 00 ^s	40 ^s Slow	13" & Cog. Sch	Agfa S.P. P.	D19	4	63	good	3	"	"	"	
1590	"	"	"	"	0 ^h 06 ^m W	10:39:00 to 10:50:00	"	13"	4x5 Cr. 76 Sp. Sp.	"	"	"	"	"	"	"	"	
1591	BN. Monocerotis	6 ^h 18 ^m	+7°38'	May 5	"	8 ^h 40 ^m to 8 ^h 50 ^m	1 ^m Slow	"	4x5 Cr. 76 Sp. Sp.	Ross Metal	7 ^m	69+	good	1	E	S	"	
1592	"	"	"	"	5 ^h 19 ^m W	8 ^h 56 ^m to 9 ^h 09.5 ^m	"	"	"	"	"	"	"	"	"	"	"	
1593	P.A. Drift Test at 225°	12 ^h 01 ^m	+0°20'	"	Near M.	end of drift 9 ^h 54 ^m	"	"	4x5 Cr. 76 Sp. Sp.	D19	4	63°	"	2	W	N	"	
1594 ^b	Comet 1943a Region	12 ^h 02 1/2 ^m	+3°31'	May 22	2 ^h 06 ^m W	10:03:00 to 10:33:02	25 ^s fast	13" & Cog. Sch	4x5 Cr. 76 Sp. Sp. Agfa S.P. P.	"	5	"	good	3	"	"	"	
1595 ^a	Whipple Comet	13 ^h 05 ^m	+24°20'	"	1 ^h 29 ^m W	10:45:00 to 11:00:00	"	"	"	"	4	"	Fair + Poor	3	"	"	"	
1596 ^b	Comet 1943a Region	12 ^h 2 1/2 ^m	+3°31'	Tues. May 25	1 ^h 02 ^m W	8 ^h 49 ^m 00 to 9 ^h 21 ^m 00 ^s	8 ^s Fast	"	8x10 "	"	"	"	good	3+	"	"	cut to 4x5	
1597 ^a	Whipple Comet	13 ^h 07 ^m	+23°32'	"	0 ^h 20 ^m W	9:31:00 to 9:46:00	"	"	4x5 Hammer 1000 Comid 8x10 Cr. 76 Sp. Sp. Agfa S.P. P.	"	"	"	Fair	2-	"	"	cut to 4x5	
1598 ^a	Comet 1943a	12 ^h 06 ^m	+2°13'	May 28	2 ^h 35 ^m W	10:00:00 to 10:45:00	52 ^s Slow	"	"	"	4	"	good	2	"	"	"	
1599 ^a	"	"	"	June 2	1 ^h 55 ^m W	9 ^h 10 ^m 00 to 9 ^h 46 ^m 00	55 ^s Slow	"	"	"	"	"	good	2	"	"	"	

NEG. No.	REGION		DATE 1943	H.A. End of Exposure	Exposure Time *Old Astro. Day	Watch Error	Instrum. of Aperture	Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.							Dec.	Kind	Time	Temp	Trans.				
1600	ω ₂ Scorpius		June 2	0 ^h 32 ^m E	10 ^h 59 ^m 00 to 11 ^h 14 ^m 00	57 ^s Slow	13"	8X10 Cr. 76 Sp. Sp.	D19	4 ⁺	63°	good	2	W	N	H.G.	
1601 ^a	Comet 1943a Region	12 ^h 07 ^m	June 3	2 ^h 19 ^m W	9:30:00 to 10:00:02 ^s Sub + 4 ^s	6 ^s Slow KSC + cork	13" Cogh Sch	485 Cr. Hi Sp Sp. Hammer Blue Film	"	"	"	"	"	"	"	"	High Wind
1602 ^a	Whipple II Comet	13 ^h 15 ^m	"	1 ^h 27 ^m W	10:08:00 to 10:23:02 ^s Sub + 4 ^s	"	"	"	"	"	"	"	"	"	"	"	"
1603 ^a	Comet 1943a	12 ^h 07 ^m	June 7	3 ^h 44 ^m W	10:15:00 to 10:45:02 ^s Sub + 2 ^s	28 ^s 24 ^s Slow	"	485 Cr. Hi Sp Sp. Hammer Post. Ortho	"	"	"	"	"	"	"	"	"
1604	Adonis Search Regions	18 05	June 8	0 ^h 41 ^m W	13:05:00 to 14:05:00	34 ^s Slow	13"	14X17 Cr. 76 Sp. Sp.	"	"	65	good	2, 3	"	"	"	"
1605	"	19 22.0	"	0 ^h 34 ^m W	14:13:00 to 15:13:00	"	"	"	"	"	"	good	3	"	"	"	"
1606	"	19 53.2	June 13	0 ^h 57 ^m W	14:54:02 to 15:44:02	53 ^s Slow	"	"	"	"	"	good	2	"	"	"	"
1607	Comet 1943a Region	12 ^h 22 ^m	June 19	2 ^h 33 ^m W	9 ^h 02 ^m 00 to 9 ^h 32 ^m 10	11 ^s Slow	"	8X10	"	"	62	good	3	"	"	"	"
1608	"	"	June 21 Monday	3 ^h 17 ^m W	9:22:00 to 10:07:00	15 ^s "	"	"	"	"	"	"	2	"	"	"	cut to 4X5
1609	τ Scorpii		"		End 10 ^h 52 ^m	"	"	"	"	"	"	"	"	"	"	"	Trail then space may see for 3 rev in P.A. 245°
1610	Adonis Search Region	18 ^h 35 ^m	June 24	0 ^h 56 ^m W	12 ^h 48 ^m 00 to 13 ^h 48 ^m 00	24 ^s Slow	"	14X17 Cr. 76 Sp. Sp.	"	3 3/4	65	good	2, 3	"	"	"	Trail in P.A. 245° move 1/10 scale div dec. nos. every 2 ^m
1611	Comet 1943a Region	12 ^h 22 ^m	June 25 Friday	3 ^h 46 ^m W	9 ^h 29 ^m 00 to 10 ^h 22 ^m 00	26 ^s Slow	"	8X10 Cr. Hi Sp Sp.	"	4 ⁺	"	"	"	"	"	"	cut to 4X5
1612	Adonis Search Region	19 ^h 16.9	"	0 ^h 35 ^m E	11:55:00 to 12:55:00	"	"	14X17	"	4	65 ⁺	good	2	"	"	"	Trail due South 1/20 Mike division every 1 1/2 ^m - 2 Rev. per hour P.A. 180° dec. Rate P.A. 155° Trail to rev. every minute: i.e. 6 rev = 267"
1613	"	20 ^h 7 ^m	June 30	0 ^h 10 ^m E	12:49:00 to 13:49:00	21 ^s fast	"	"	"	4 1/2	65	good	1, 2	"	"	"	P.A. 217° drive Mike 1/10 div / 30° S.W.
1614	"	18 ^h 01 ^m	July 2	0 ^h 54 ^m W	12:00:00 to 12:40:00	3 ^s fast	"	"	"	✓	"	"	1	"	"	"	Set P.A. 275° then trail 1/20 rev./min N West. 2334° W.
1615	"	16 ^h 10 ^m	July 3	0 ^h 15 ^m W	9:17:00 to 10:07:10 ^s	1 ^s fast	"	"	"	4 1/2	66	"	1	"	"	"	"
1663 1616	"	"	"	1 08 W	10:10:00 to 11:00:00	"	"	"	"	"	"	"	"	"	"	"	cut to 4X5
1617	Comet 1943a Region	12 ^h 22 ^m	July 4	4 ^h 07 ^m W	9:07:00 to 10:07:00	7 ^s Slow	"	8X10	"	"	"	"	"	"	"	"	"
1618	Adonis Search Region	15 ^h 44 ^m	July 5	0 ^h 45 ^m W	9:25:00 to 10:00:00	9 ^s Slow	"	14X17	"	"	67	good	1, 2	"	"	"	P.A. 273° then move to rev every 30 ^s westerly.
1619	"	17 ^h 20 ^m	"	0 ^h 07 ^m W	10:19:00 to 11:00:05	"	"	"	"	"	"	"	"	"	"	"	no trailing.
1620	Sagittarius Variable	18 ^h 10.5	Aug. 26	8 ^h 18 ^m 00 to 8 ^h 44 ^m 00	01 ^s Slow	"	"	5 1/2 X 4 1/2 Cr. 76 Sp Sp.	D19	4	68°	good	1, 2	"	"	"	"
1621	"	"	"	0 ^h 59 ^m W	8 ^h 57 ^m 00 to 9 ^h 18 ^m 00	"	"	"	"	"	"	"	"	"	"	"	"
1622 ^a	"	"	Aug. 31	0 ^h 46 ^m W	8:25:03 to 8:45:06 Sub + 7	10 ^s fast	13" Cogh Sch	Cr. Hi Sp Sp. Hammer Blue Film	"	"	"	good	2	"	"	"	select exp: 15:15 to 15:35
1623 ^a	δ Ceti	2 ^h 36.5	Sept. 1	0 ^h 21 ^m E	15:15 to 15:35 then 15:38 to 15:58 Sub + 40 ^s	60 ^s Slow	"	"	"	"	"	"	"	"	"	"	2 nd half of 13" exposure.
1624 ^b	"	"	"	0 ^h 21 ^m E	15:38 to 15:58	"	"	Alpha SPP nos Hammer Blue Film	"	"	"	"	"	"	"	"	"
1625 ^b	search for Diamica form. Comet?	10 ^h 05 ^m	Sept. 15	16 ^h 52 ^m 00 to 16 ^h 59 ^m 00	43 ^s Slow	"	"	8X10 Cr. 76 Sp Sp.	"	3 ±	2	"	"	"	"	"	Bright moonlight
1626 ^b	"	9 ^h 50 ^m	Sept. 16	5 ^h 50 ^m E	16:37:00 to 16:44:00 Sub + 10 ^s	6 ^s Fast	"	"	D19	3 1/2	Room	good	1, 2	"	"	"	"
1627 ^a	"	9 31	"	5 08 E	16:59:00 to 17 ^h 06 ^m 00 Sub + 10 ^s	5 ^s fast	"	"	"	"	"	"	"	"	"	"	"
1628 ^a	"	9 ^h 14 ^m	Sept 19	5 ^h 17 ^m E	16 ^h 22 ^m 00 to 16 ^h 29 ^m 00 Sub + 5 ^s	18 ^s Slow	"	"	"	"	"	"	2	"	"	"	moonlight.
1629 ^a	"	7 ^h 47 ^m	"	3 ^h 27 ^m E	16 ^h 46 ^m 07 ^s to 16 ^h 47 ^m 07 ^s Sub + 4 ^s	"	"	"	"	"	"	"	"	"	"	"	"
1630	"	4 ^h 02 ^m	Sept 21	9 ^h 35 ^m 05 ^s - 9 ^h 40 ^m 05 ^s	25 ^s Slow	"	Lower Schmidt	Alpha S. Pan Press	D19	4	Room	good	1	TOP	"	"	"
1631	"	6 48	"	9 51 00 - 9 56 00	"	"	"	"	"	"	"	"	"	"	"	"	"
1632	"	6 18	"	10 05 00 - 10:10:00	"	"	"	"	"	"	"	"	"	"	"	"	"
1633	"	3 55	"	10 23 00 - 10:28:00	27 ^s Slow	"	"	"	"	"	"	"	"	"	"	"	"

See # 1655 & jacket number # 1656a

1663

cut to 4X5

Trail then space may see for 3 rev in P.A. 245° Trail in P.A. 245° move 1/10 scale div dec. nos. every 2^m

Trail due South 1/20 Mike division every 1 1/2^m - 2 Rev. per hour P.A. 180° dec. Rate P.A. 155° Trail to rev. every minute: i.e. 6 rev = 267" P.A. 217° drive Mike 1/10 div / 30° S.W. Set P.A. 275° then trail 1/20 rev./min N West. 2334° W.

cut to 4X5

P.A. 273° then move to rev every 30^s westerly. no trailing.

select exp: 15:15 to 15:35 2nd half of 13" exposure.

Bright moonlight moonlight.

Neg. No.	R E G I O N		DATE 1943	H.A. End of Exposure	Exposure Time *Old Astro. Day.	Watch Error	Instrument or Aperture	Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star.	R.A.							Dec.	Kind	Time	Temp	Trans.				
1634	search for																
1635	Diamaca Comet	18 ^h 30 ^m	+4° 00'	Sept. 28		10:22:00-10:27:00	03 ^s Slow	Lower Schmidt	Alpha S. P. P. nos	D 19	4 ^m	65°	good	2+	W		H.G. Low altitudes
1636	"	19 02	-5 00	"		10:33:00-10:38:00	"	"	"	"	"	"	"	"	"	"	"
1637	"	19 22	-14° 00'	"		10:43:05-10:48:05	"	"	"	"	"	"	"	"	"	"	"
1638	search for	20 ^h 15 ^m	-22° 00'	"		10:54:00 to 11:00:00	"	"	"	"	"	"	"	"	"	"	"
1638	Diamaca Comet	17 01	+14° 00'	Sept. 29		7:30:02 to 7:35:02	7 ^s Slow	"	"	"	"	"	"	"	"	"	"
1639	"	17 46	+5°	"		7:41:00-7:46:00	"	"	"	"	4 ^m	"	"	2+	"	"	"
1640	"	17 46	-5° 20'	"		7:52:00-7:57:00	"	"	"	"	"	"	"	"	"	"	"
1641 ^a	Comet Comas-Sola	2 ^h 24 ^m	+0° 22'	Oct. 25	1 ^h 03 ^m E	11:00:00-11:32:00	17 ^s Fast.	13" 6" Cop. Sch	4x5 Cr. Hi Sp Sp. + alpha S. P. P.	D 19	4	67	Fair+	3	W	N	"
1642 ^b	" d'Arrest.	20 ^h 14 ^m	-28° 15'	Oct. 26	1 ^h 07 ^m W	6:57:00 to 7:31:00 Sch + 8 sec.	8 ^s fast	"	"	"	"	"	good	2	"	"	"
1643	"	"	"	Oct. 27	1 ^h 03 ^m W	7:09:00-7:23:00	5 ^s fast	13"	"	"	"	"	Fair+	2	"	"	"
1644	Lynx Var.	6 ^h 53 ^m	+51° 05'	Oct. 30	1 ^h 57 ^m F	14:29:00-14:49:00	10 ^s Slow	13"	1/4 x 1/4 Crown Hi Sp. Sp.	Ross Metal	7 ^m	70°	good	3	"	"	"
1645	"	"	"	Sat.	1:28 E	14:57:00-15:17:00	11	"	"	"	"	"	"	"	"	"	"
1646	"	"	"	"	0:59 E	15:25:00-15:45:00	11	"	"	"	"	"	"	"	"	"	"
1647	"	"	"	"	0:27 E	15:56:00-16:16:00	12	"	"	"	"	"	"	"	"	"	"
1648	"	"	"	"	M.T.	16:24:00-16:44:00	13	"	"	"	"	"	"	"	"	"	"
1649	"	"	"	"	0 ^h 27 ^m W.	16:57:00-17:11:00	14	"	"	"	"	"	"	"	"	"	"
1650	"	"	"	"	0:55 W	17:18:00-17:38:00	14 ^s Slow	"	"	"	"	"	"	"	"	"	"
1651 ^a	Comet d'Arrest	20 ^h 33 ^m	-28° 5'	Nov. 1	1:05 W	7:00:00-7:21:00	20 ^s "	13" Cop. Sch	Cr. Hi Sp Sp 4x5 Hammur Med Comet	D 19	4	80-72	good	2	"	"	"
1652 ^b	Comet Comas-Sola	2 ^h 19 ^m	+0° 42'	Monday	0:48 E	7:00:05-7:15:15 10:41:00-11:21:00	23 ^s "	"	"	"	"	68	"	"	"	"	"
1653	BN Monocerotis	6 ^h 18 ^m	+7° 40'	Nov. 2	2 ^h 27 ^m E	10:41:10-11:11:10	27 ^s Slow	13"	alpha S. P. P. nos. 103 G with #12 filter	Ross Metal	7 ^m	70°	good	3+	"	"	"
1654	Polar Seq.	"	+90°	Tuesday	"	13 ^h 20 ^m 00 to 13 ^h 30 ^m 00	"	"	"	"	"	"	"	"	"	"	"
1655	BN Mon.	"	+7° 40'	"	1 ^h 50 ^m E	13:39:00 to 13:49:00	"	"	"	"	"	"	"	"	"	"	"
1656	Polar Seq.	"	+90°	"	"	13:57:00 to 14:07:00	"	"	"	"	"	"	"	"	"	"	"
1657	BN Monocerotis	"	+7° 40'	"	1 ^h 10 ^m E	14:15:00 to 14:25:00	"	"	"	"	"	"	"	"	"	"	"
1658	"	"	"	"	0 ^h 54 ^m E	14:37:00 to 14:47:00	"	"	103 E with #28 filter	"	"	"	"	"	"	"	"
1659	"	"	"	"	0 ^h 37 ^m E	14:52:00 to 15:02:00	"	"	"	"	"	"	"	"	"	"	"
1660	"	"	"	"	"	15:10:00 to 15:20:00	"	"	examer Hi Sp. Special.	"	"	"	"	"	"	"	"
1661 ^a	Comet Comas-Sola	2 ^h 16 ^m	+1° 00'	Nov. 3	0 ^h 09 ^m W	15:25:00 to 15:35:00	30 ^s Slow	"	"	"	"	"	"	"	"	"	"
1662	BN Mon.	6 ^h 18 ^m	+7° 36'	"	3 ^h 33 ^m E	11:41:00 to 12:01:00 Sch + 1:05 to 11:56:05	33 ^s Slow	13" Cop. Sch	4x5 Cr. Hi Sp Sp. East. 103 F film	D 19	4	68	good	3	"	"	"
1663	Polar Seq.	"	+90°	"	"	12:10:00 to 12:20:00	"	13"	Eastman Spectral 103 G with #28 yellow filter	Ross Metal	7	70	good	3	"	"	"
1664	BN Mon.	"	+7° 36'	"	3 ^h 00 ^m E	12:27:00 to 12:37:00	"	"	"	"	"	"	"	"	"	"	"
1665	Polar Seq	"	+90°	"	"	12:45:00 to 12:55:00	"	"	"	"	"	"	"	"	"	"	"
1666	d'Arrest Comet	21 ^h 33 ^m	-26° 02'	Nov. 18	0 ^h 27 ^m W	13:01:15 to 13:11:15	35 ^s Slow	"	"	"	"	"	"	"	"	"	"
1667 ^b	"	"	"	"	0 ^h 55 ^m W	6:30:00-6:40:00	34 ^s Fast	1"	Cr. Hi Sp Sp.	D 19	4	70	good	2+	"	"	"
1668 ^a	Comas-Sola	2 ^h 00 ^m	+1° 42'	"	M.T.	6:45:00-7:05:00 Sch + 75 10:18:00-10:38:00 Sch :05	33 ^s Fast	13" Cop. Sch	103 F film Cr. Hi Sp Sp. Alpha S. P. P.	"	"	69	"	"	"	"	"

NEG No	REGION		DATE 1943-4	Hour Angle End Exp	Exposure Time *old Astro. Day	Watch Error	Inst. or Apert.	Emulsion No	DEVELOPMENT			SEEING		Pos of Telos.	Wri on Plate	Observer	REMARKS			
	Guide Star	R.A. Dec							Kind	Time	Temp.	Trans	Stead							
1669 ^a	d'Arrest Comet	22 ^h 11 ^m -25° 20'	Nov. 29 Monday	0 ^h 48 ^m W	6:47:30 - 6:52:30 Sub +10s	4 ^{sec} Fast	13" Cogh Sch	4x5 Cr 76 Sp Sp. East 103 0	D 19	5	68°F	good	2-	W	N	H G	Comet invisible on 13" plates due to short exp. Do not use the Sel. with films for Position			
1670 ^b	"	"	"	0 59 E	6:57:00 - 7:00:00 Sub :05 - 7:02:05	"	"	4x5 Cr 76 Sp Sp. Hammer Mid. Comet	"	"	"	"	"	"	"	"	"			
1671 ^a	Polar Sequence	1 ^h 00 ^m +90°	"	"	8:34:00 - 8:39:00 Sub. +5	2 ^s Fast	"	3/4x4 1/4 Cr 76 Sp Sp. East 103-0 film	"	"	"	"	"	"	"	"	"			
1672 ^b	"	"	"	"	8:43:00 - 8:48:00 Sub :05 - +05	"	"	East 103-0 film Agfa S.P. Press.	"	"	"	"	"	"	"	"	"			
1673 ^b	Comet Comas-Sola	1 ^h 53 ^m +2° 42'	"	0 ^h 37 ^m W	9:59:00 - 10:19:00 Sub :05 - 10:14:05	on time!	"	4x5 Cr 76 Sp Sp. East 103-0	"	"	"	"	3	"	"	"	"			
1674	d'Arrest Comet	22 ^h 16 ^m -24° 55'	Nov. 30 Tues.	0 ^h 53 ^m W	6:43:00 to 7:01:00	01 ^s Slow	13"	4x5 Cr 76 Sp Sp.	D 19	4	68	good	3	"	"	"	Slightly fogged by moonlight.			
1675	BN Monocerotis	6 ^h 18 ^m +7° 26'	"	3 ^h 13 ^m E	10:48:00 - 10:56:00	03 ^s Slow	13"	East 103 F with #28 filter	Ross Metol	6 1/2	70°	good	3	"	"	"	"			
1676	"	"	"	2 58 E	11:01:00 - 11:10:00	"	"	"	"	"	"	"	"	"	"	"	"			
1677	"	"	"	"	11:20:30 - 11:29:30	"	"	East 103 G with #12 filter	"	"	"	"	"	"	"	"	"			
1678	"	"	"	2 24 E	11:34:00 - 11:44:00	"	"	"	"	"	"	"	"	"	"	"	"			
1679	"	"	"	"	11:51:15 - 12:05:00	"	"	"	"	"	"	"	"	"	"	"	"			
1680	"	"	"	1:46 E	12:09:30 - 12:22:00	04 ^s Slow	"	Cr. 76 Sp Sp.	"	"	"	"	"	"	"	"	"			
1681	van Gent Comet	7 ^h 18 ^m -43° 20'	Dec 2	0 ^h 14 ^m E	14:27:00 - 14:47:00	08 ^s Slow	"	14x17 Cr 76 Sp Sp.	D 19	5 1/2	?	good	0-1	"	"	"	Friday A.M.			
1682	"	6 ^h 53.7 ^m -44° 40'	"	0 ^h 55 ^m W	15 ^h 24 ^m 00 ^s - 15 ^h 30 ^m 00 ^s	10 ^s Slow	"	4x5 Cr 76 Sp Sp.	"	5 ^m	68±	"	"	"	"	"	"			
1683	"	"	"	1 ^h 03 ^m W	15:33:00 - 15:38:00	"	Cogehall Sel.	Agfa S.P. Press.	"	"	"	"	"	"	"	"	"			
1684 ^a	"	6 ^h 43.5 ^m -46° 46'	Dec. 3	0 ^h 02 ^m W	14 ^h 13 ^m 00 ^s - 14 ^h 23 ^m 02 ^s Sub :04 - 23:05	11 ^s Slow	13" + Cogehall Sel.	4x5 Cr 76 Sp Sp East 103-0	D 19	5	68±	good	0	"	"	"	comet not on a, only on Sel. film.			
1685	"	6 ^h 3 1/2 ^m -48° 18'	Dec. 4	"	13:29:00 - 13:39:00	12 ^s Slow	13"	8x10 Cr. 76 Sp Sp.	D 19	5 1/2	"	"	"	E	S	"	cut to 4x5			
1686	"	6 ^h 24 ^m -48° 00'	"	0 ^h 13 ^m W	14:02:12 - 14:10:12	13 ^s Slow	"	"	"	"	"	"	"	"	"	"	"			
1687	Search for New Pattern which is van Gent Comet	22 ^h 28 ^m -16° 32'	Dec 12 Wed.	2 ^h 16 ^m W	6:49:00 - 7:05:00	31 ^s Slow	13"	14x17 Cr 76 Sp Sp.	D 19	5 ^m	63±	good	0	"	"	"	"			
1688	"	23 ^h 03 ^m -15° 41'	"	2 01 W	7:10:00 - 7:26:00	"	"	"	"	"	70-65	"	"	"	"	"	"			
1689	"	23 ^h 32 ^m -15° 30'	Dec. 23	1 ^h 18 ^m W	6:50:00 - 7:10:00	31 ^s Slow.	13"	"	D 19	5	70-64	good	1, 2	W	N	"	Sent to Duncan at White Obs.			
1690	Vesta	4 ^h 26 ^m +16° 30'	"	3 ^h 06 ^m E	7:19:00 - 7:39:00	"	"	4x5 "	"	"	65±	good	1, 2	"	"	"	"			
1691 ^a	van Gent Comet	22 ^h 31 ^m -1° 52'	Dec. 27 Monday	2 ^h 32 ^m W	7 ^h 01 ^m 00 ^s - 7 ^h 06 ^m 00 ^s Sub +7sec.	32 ^s Slow	13" Cogh Sch	4x5 Cr 76 Sp Sp. Agfa S.P. Press.	D 19	5	68±	good	2	"	"	"	Sel had test images at 2 div. clockwork cool.			
1692	"	"	"	3 ^h 11 ^m W	7 ^h 41 ^m 00 ^s - 7 ^h 45 ^m 00 ^s	"	"	"	"	"	"	"	"	"	"	"	13" plates locked.			
1693 ^a	Vesta	4 ^h 21 ^m +16° 32'	"	1 ^h 51 ^m E	8 ^h 24 ^m 00 ^s - 8 ^h 34 ^m 00 ^s Sub +6sec.	34 ^s Slow	"	"	D 19	5	68±	fair + good?	2	"	"	"	Sent to J.C. Duncan at White Obs.			
1694 ^b	"	"	"	0 ^h 49 ^m E	9 ^h 24 ^m 00 ^s - 9 ^h 34 ^m 00 ^s Sub +6sec.	"	"	"	"	"	"	"	"	"	"	"	"			
1944			1944			1944			1944			1944			1944			1944		
1695		21 ^h 33 ^m +14° 58'	Jan. 14 th Friday	5 ^h 07 ^m W	7 ^h 00 ^m 00 ^s to 7 ^h 30 ^m 00 ^s	38 ^s Slow	13"	14x17 Oranor Hi Sp Spec.	D 19	5	70-68°	good	1	W	N	"	"			
1696 ^b		21 ^h 31 ^m +21° 23'	Jan 15 th Sat.	5 ^h 22 ^m W	7 ^h 11 ^m 01 ^s to 7 ^h 41 ^m 01 ^s Sub 11:30 - 7 26 30 5	40 ^s Slow	13" Cogh Sel.	4x5 Cr 76 Sp Sp Agfa S.P. Press.	D 19	5	68-64	good	0	"	"	"	"			
1697	Vesta	4 ^h 11 1/2 ^m +17° 30'	Jan. 18	0 ^h 23 ^m W	9 ^h 06 ^m 00 ^s - 9 ^h 11 ^m 00 ^s	40 ^s Slow	13"	4x5 Cr 76 Sp Sp	D 19	5	68°	good	1	"	"	"	Sent to Duncan, White Obs			
1698	"	4 ^h 16 1/2 ^m +18° 52'	Feb. 10 th Thurs.	0 ^h 14 ^m W	7 ^h 32 ^m 00 ^s to 7 ^h 37 ^m 00 ^s	42 ^s Slow	"	"	"	4 1/2	Rom	good	1	"	"	"	"			
1699	Lynx Variable	6 ^h 53 ^m +57° 05'	Feb 11	"	7:18:00 - 7:28:00	45 ^s Slow	"	3 1/4 x 4 1/4 "	Ross Metol	7	70	good	4+	"	"	"	"			
1700	"	"	"	2 ^h 12 ^m E	7:34:00 - 7:44:00	"	"	"	"	"	"	"	"	"	"	"	"			
1701	Orionis Region	"	"	0 ^h 34 ^m E	1 ^m Exp. each setting	"	"	4x5 "	D 19	5	Rm.	"	"	"	"	"	Ground Glass in front of plate. 21 div. clockwork, #3 050 220, 400, 600			

NEG No	REGION			DATE 1944	Hour Angle End of Exp	Exposure Time *Old Astro Day	Watch Error	Instr or Apr.	Em. or Plate	DEVELOPMENT			SEEING		Pos. of Telnc.	Writ on Plate	Obtain	REMARKS
	Guide Star	R.A	Dec							Kind	Time	Temp	Trans	Stead				
1702	Daniel Comet Region	7 ^h 49.4	+48° 58'	March 16	0 ^h 06 ^m E	8 ^h 02 ^m 00 ^s to 8 ^h 32 ^m 00 ^s	33 ^s Slow	13"	4x5 Cr. Hi Sp. Spec.	D 19	5	66°	1 good	3	W	N	H.G.	
1703	Lynx Variable	6 52.4	+51° 12'	"	1 ^h 08 ^m W	8:39:03 to 8:49:03	"	"	3/4x4 1/4 "	Ross Metal	7 ^m	70°	"	"	"	"	"	Friday A.M.
1704	Search for Schumassse Comet	17 ^h 8.0	-12° 38'	March 23	0 ^h 11 ^m E	16 ^h 16 ^m 00 ^s to 17 ^h 16 ^m 00 ^s	39 ^s Slow	"	14x17 Cr. Hi Sp. Spec.	D 19	5	72-68	good	3	"	"	"	
1705	BN Monocerotis	6 ^h 17 ^m 2	+7° 38'	March 24	2 ^h 41 ^m W	9 ^h 01 ^m 00 ^s - 9 ^h 15 ^m 00 ^s	40 ^s Slow	"	3/4x4 1/4 "	Ross Metal	7 ^m	70	good	3	"	"	"	
1706	Search for Schumassse Comet	17 ^h 8.0	-12° 38'	"	0 ^h 18 ^m E	16 ^h 05 ^m 10 ^s to 17 ^h 05 ^m 10 ^s	44 ^s Slow	"	14x17	D 19	5	72-67	"	3 ±	"	"	"	Holder I strong NE wind
1707	Schaumasse Comet	16 ^h 49.2	-14° 43'	March 27	1 ^h 03 ^m E	14 ^h 50 ^m 05 ^s - 15 ^h 50 ^m 05 ^s	49 ^s Slow	"	"	"	"	"	good	0-1	"	"	"	Holder II
1708	"	"	"	"	0 ^h 04 ^m W	15:55:00 - 16:55:00	50 ^s Slow	"	"	"	"	72-68	"	"	"	"	"	Wednesday A.M.
1709	"	16 46.1	-9° 50'	March 28	0 ^h 15 ^m W	16 ^h 00 ^m 00 ^s - 17 ^h 00 ^m 00 ^s	54 ^s Slow	"	4x5	"	"	73-	good	2 ±	"	"	"	
1710 ^a	"	16 46.1	-9 50	March 29	0 27 W	16 ^h 07 ^m 00 ^s - 17 ^h 07 ^m 00 ^s	68 ^s Slow	13" + Cogsk Sch	4x5	"	"	70	good	4+	"	"	"	
1711 ^b	"	"	"	March 30	0 28 W	16:05:03 - 16:30:10 Sub 07:10 - 16:30:10 Sub 06:03 - 16:16:03	11 ^s Slow	"	East 1030	"	"	"	good	√+	√	"	"	
1712	"	"	"	March 31	0 30 W	16:04:00 - 17:04:00	19 ^s Slow	13"	4x5 Cr. Hi Sp. Spec.	"	"	70-	good	5	"	"	"	
1713 ^b	"	"	"	April 1	0 27 W	15 ^h 56 ^m 00 ^s - 16 ^h 56 ^m 00 ^s	22 ^s Slow	13" Cogsk Sch	East 1030	"	"	70 ±	good	3-	"	"	"	
1714	"	"	"	April 2	0 27 W	15:53:00 - 16:53:00	27 ^s Slow	13"	4x5 Cr. Hi Sp. Spec.	"	"	65	good	2+	"	"	"	
1715	Daniel Comet Region	8 ^h 45 ^m	+41° 56'	April 17	1 ^h 45 ^m W	8 ^h 22 ^m 00 ^s - 9 ^h 12 ^m 00 ^s	34 ^s Slow	13"	8x10 Cr. Hi Sp. Spec.	D 19	5	68	good	3	"	"	"	
1716	Schaumasse Comet Region	16 ^h 37 ^m	-9° 24'	"	0 ^h 07 ^m W	14 ^h 30 ^m 00 ^s - 15 ^h 25 ^m 00 ^s	36 ^s Slow	13"	14x17	"	"	"	good to fair	4	"	"	"	Few scattered clouds at East on Sept.
1717 ^a	"	"	"	Apr. 18	1 ^h 16 ^m W	15 ^h 30 ^m 00 ^s - 16 ^h 30 ^m 00 ^s	40 ^s Slow	13" + Sch	4x5	"	"	70°	good	2	"	"	"	
1718 ^b	"	16 ^h 32.8	-9° 34'	Apr. 21	0 ^h 23 ^m E	15:30:15 - 15:44:15 Sch 13 ^h 35 ^m 02 ^s - 14 ^h 35 ^m 02 ^s	49 ^s Slow	"	East 1030	"	"	"	good	1, 2	"	"	"	
1719 ^a	"	"	"	"	0 ^h 47 ^m W	Sch : 12 to 13:51:12 ^s 14 ^h 44 ^m 01 ^s to 15 ^h 44 ^m 20 ^s	51 ^s Slow	"	cranes on portrait	D 19	5	"	"	"	"	"	"	
1720	"	16 ^h 03 ^m	-10° 38'	May 15	0 ^h 06 ^m W	Sch 4:10 to 16:00:10 12 ^h 00 ^m 30 ^s to 13 ^h 00 ^m 30 ^s	22 ^s Slow	13"	4x5 Cr. Hi Sp. Spec.	D 19	5	70-67	good	3	"	"	"	Few scattered clouds low down
1721	"	"	"	"	1 ^h 09 ^m W	13 ^h 03 ^m 06 ^s to 14 ^h 03 ^m 06 ^s	20 ^s Slow	"	"	"	"	"	good	3	"	"	"	
1722	Toy for Encke Comet	1 ^h 52 ^m	+20° 38'	May 21	6 ^h 27 ^m E	15 ^h 43 ^m 00 ^s to 15 ^h 53 ^m 00 ^s	07 ^s fast	"	8x10 Cr. Hi Sp. Spec.	"	"	65	good	0	"	"	"	
1723	Lynx Var.	6 ^h 52.5	+51° 08'	May 22	"	8 ^h 51 ^m 00 ^s - 9 ^h 06 ^m 00 ^s	07 ^s fast	"	3/4x4 1/4 "	Ross Metal	6 1/2 ^m	70°	good	3	E	S	"	
1724	"	"	"	"	"	9:09:00 - 9:24:03	"	"	"	"	"	"	"	2	"	"	"	
1725	"	"	"	"	6 ^h 31 ^m W	9:30:00 - 9:45:00	"	"	"	"	"	"	"	2	"	"	"	
1726	Comet Search	11 ^h 50 ^m	-33° 30'	June 14	3 ^h 18 ^m W	9 ^h 43:05 - 10:00:12	on time	"	8x10	"	"	68°	good	1	"	"	"	
1727	"	16 12 1/2	-15° 53'	June 19	0 ^h 29 ^m W	10:45:00 - 11:15:00	10 ^s Slow	"	8x10	"	5 1/2	"	"	3	W	N	"	
1728	"	16 12.9	-15 42	June 21	0 ^h 20 ^m E	9:46:10 - 10:17:10	16 ^s Slow	"	"	"	"	"	"	2	"	"	"	
1729	"	11 06	-29 20'	June 22	3 ^h 54 ^m W	9:08:00 - 9:19:00	19 ^s Slow	"	"	"	"	64	"	0	"	"	"	
1730	NGC 6093	16 ^h 13 ^m	-22° 45'	July 10	1 53 W	10:47:30 + 2 ^m 36 ^s 10:51:40; 56 + 6 ^m 18 ^s ; 10:54:10; 10:57:14	5 ^s Slow	"	4x5	"	√	"	"	3	"	"	"	Single of 21 2 ^m 36 ^s W 10:47:30 4 ^m 18 ^s W 10:51:40 3 ^m 18 ^s W 10:54:10 3 ^m 18 ^s W 10:57:14
1731	Sagitt Var	18 ^h 11 ^m	-34° 12'	Aug. 21	0 ^h 53 ^m W	9 ^h 08 ^m 00 ^s - 9 ^h 28 ^m 00 ^s	27 ^s Slow	"	3/4x4 1/4 "	D 19	4	68°	good	3	"	"	"	
1732	"	"	"	"	1 ^h 16 ^m W	9 31 00 - 9 51 00	"	"	"	"	"	"	"	2	"	"	"	
1733	"	18 ^h 10 1/2	"	Aug 22	0 ^h 39 ^m W	8:50:10 to 9:10:12	30 ^s Slow	"	"	"	"	"	good	2	"	"	"	
1734	"	"	"	"	1 ^h 01 ^m W	9:13:00 - 9:33:00	"	"	"	"	"	"	"	3	"	"	"	
1735	ε Sagittarius	"	-34° 20'	Sept 6	1 ^h 23 ^m W 1 33 W 1 42 W	9:00:00 - 9:05:00 9:10:00 - 9:15:00 9:19:00 - 9:24:00	22 ^s Slow	Cogsk Sch	Eastman Type B S. P. P. East. Sports Type.	D 19	4	"	good	1	"	"	"	

1945

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1945

1945

Neg No	REGION		DATE 1944	H.A. End of Exp	EXPOSURE TIME Old Astro Dag M.S.T.	Watch Error	Inst. of Apr	Plate or Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.							Dec	KIND	Time	Temp	Trans				
1736 ^a	Sagitt Var. Region	18 ^h 10 ^m	-34° 10'	Sept. 11	1 34 W	32 ^s Slow	13"	Cr. 24 Sp Spec 1/2x4 1/2	D19	4	68°F	good	1	W	N	#6	Schmidt set focus 2 1/2 inches counted clockwise. Trained to 1/4 of microscope. rev.
1737	M17	18 18.8	-15° 50'	"	1 45 W	"	13"	Cr. 24 Sp Spec 1/2x4 1/2	"	"	"	"	"	"	"	"	
1738		19 ^h 37 ^m	+17° 58'	Sept 20	1 ^h 36 ^m W	11 ^s Fast	13"	8x10 Cr. 24 Sp Spec.	D19	4	75-68	good	3+	"	"	"	
1739	Near β Cass.	0 ^h 12 1/2 ^m	+58° 09'	"	"	10 ^s Fast.	"	4x5 Cr. 24 Sp. Spec.	"	"	68-	"	4	"	"	"	
1740	"	"	"	"	1 ^h 15 ^m E	"	"	"	"	"	"	"	"	"	"	"	
1741	γ Cass.	0 ^h 1/2 ^m	+55° 18'	Sept. 21	1 ^h 52 ^m E.	5 ^s Fast	"	"	"	4	74-68	good	6	"	"	"	
1742	"	"	"	"	1 ^h 37 ^m E	"	"	"	"	"	"	"	"	"	"	"	
1743	"	"	"	Sept. 22	3 25 E	3 ^s fast.	"	"	D19	4	75-68	good	5	"	"	"	
1744	"	"	"	"	3:12 E	"	"	"	"	"	"	"	"	"	"	"	
1745	Lynx Variable	6 ^h 53 ^m	+57° 08'	Oct. 17	0 ^h 03 ^m E	7 ^s fast	"	3 1/2 x 4 1/2 Cr. 24 Sp. Spec.	Ross Metal	7 ^m	70°	good	4	"	"	"	
1746 ^a	Androm. Neb.	0 ^h 40 ^m	+40° 43'	Oct. 19	"	6 ^s " mid.	"	Sports Type Sup. Pancho Pan 1400 B	15x7 Exps.	6 ^m	69°	good	5	"	"	"	Film Speed, Dev. Tests.
1746 ^b	"	"	"	"	"	5 ^s fast	"	Agfa Sup. Pan Panos	DK60a	5 ^m	67 1/2°	good	5	"	"	"	
1746 ^c	"	"	"	"	"	"	"	Agfa Sup. Pan Panos	DK60a	5 ^m	67 1/2°	good	5	"	"	"	
1746 ^d	"	"	"	"	"	"	"	Sports Type S	DK60a	6	70	good	4	"	"	"	
1746 ^e	"	"	"	Oct 20	"	3 ^s fast	"	East. Sup. Pancho Panos	DK60a	6	70	good	4	"	"	"	
1747	"	"	"	"	"	9:12:00 - 9:14:00	"	Sports Type S	DK60a	6	70	good	4	"	"	"	
1748	106 Tauri Region	5 ^h 4 1/2 ^m	+20° 22'	Dec. 16	1 ^h 12 ^m W	2 ^s Slow.	13"	14x17 Cr. 24 Sp. Spec.	D19	4 1/2	68	good	4	"	"	"	
1749	"	"	"	Dec. 19	0 ^h 28 ^m E	4 ^s Slow	"	"	"	"	"	fair to fair	3	"	"	"	
1750	Lynx Variable	6 ^h 53 ^m	+57° 08'	Jan. 6	2 ^h 26 ^m E	17 ^s Slow	13"	3 1/2 x 4 1/2 Cramer Hi. Sp. Spec	Ross Metal	7 ^m	69°	good	2	W	N	"	
1751	"	"	"	Saturday Ev.	2 ^h 06 ^m E	"	"	"	"	"	"	"	2	"	"	"	
1752	"	"	"	"	"	"	"	"	"	"	"	"	3	"	"	"	
1753	"	"	"	"	"	"	"	"	"	"	"	"	3	"	"	"	
1754	"	"	"	"	1 ^h 17 ^m E	"	"	"	"	"	"	"	3	"	"	"	
1754	"	"	"	Jan. 12	1 ^h 49 ^m E	38 ^s Slow	"	"	"	"	70°	good	1	"	"	"	
1755	"	"	"	"	1 ^h 23 ^m E	"	"	"	"	"	"	"	"	"	"	"	
1756	"	"	"	Jan. 14	1 ^h 58 ^m E	43 ^s Slow	"	"	"	"	70°	good	3	"	"	"	
1757	"	"	"	"	1 ^h 34 ^m E	"	"	"	"	"	"	"	3	"	"	"	
1758	"	"	"	"	1 ^h 34 ^m E	"	"	"	"	"	"	"	3	"	"	"	
1759	"	"	"	Jan. 17	0 ^h 43 ^m E	51 ^s Slow	"	"	"	"	70°	good	3	"	"	"	
1760	"	"	"	"	0 ^h 19 ^m E	"	"	"	"	"	"	"	"	"	"	"	
1761	"	"	"	"	0 ^h 07 ^m W	"	"	"	"	"	"	"	"	"	"	"	
1762	"	"	"	Feb. 10	0 ^h 36 ^m W	14 ^s Fast.	"	"	"	"	72-67	good	4	"	"	"	
1763	"	"	"	"	0 ^h 58 ^m W	"	"	"	"	"	"	"	"	"	"	"	
1764	Search for Pons-Winnecke Comet	13 ^h 49 ^m	+34° 58'	Mar. 8	2 ^h 45 ^m W.	7 ^s Fast.	"	14x17 Cr. 24 Sp Spec.	D19	4 ^m	68°	good	3-4	"	"	"	
1765	"	"	"	Mar. 9	2 ^h 35 ^m W.	3 ^s "	"	"	"	"	"	good	4+	"	"	"	
1766	Lynx Variable	6 ^h 53 ^m	+57° 08'	Mar. 12	1 ^h 25 ^m W	8 ^s Slow	"	3 1/2 x 4 1/2 Cr. 24 Sp Spec	Ross Metal	7	69-70	fair to good	5	"	"	"	
1767	"	"	"	"	1 52 W	"	"	"	"	"	"	"	"	"	"	"	
1768	"	"	"	"	2 20 W	10 ^s Slow.	"	"	"	"	"	"	"	"	"	"	Time somewhat in? here. Bolide it was 9:57 to 10:17 = 20"

NEG. NO.	R E G I O N			DATE 1945	H.A. End of Exposure	EXPOSURE TIME *Old Astro Day.	Watch ERROR	Instr. or Apert.	Plate & Emulsion No.	DEVELOPMENT			SEEING		Pos of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.	Dec.							Kind	Time	Temp.	Trans	Stead.				
1839	Nova Aquila	19 ^h 16 ^m	+0°22'	Sept 3 Monday		9:23:03-9:25:03	15 ^s Slow.	13"	East. 103a0	D19	5 ^m	68°F.	good	2 ⁺	W	N	H.G.	
1840	"	"	"	"	0 ^h 43 ^m W.	9:30:30-9:32:30	"	"	"	"	"	"	"	"	"	"	"	
1841	"	"	"	"	0 ^h 57 ^m W	9:42:00-9:47:00	"	"	East. 103aD with #12 filter	"	"	"	"	"	"	"	"	
1842	Pole		+90°	"		9:54:00-9:59:00	"	"	"	"	"	"	"	"	"	"	"	
1843	Nova Aquila	19 ^h 16.2	+0°33'	Sept. 4	0 ^h 46 ^m W	9:32:00-9:34:00	19 ^s Slow	"	East. 103a0	D19	5 ^m	68°F.	good	3	"	"	"	
1844	"	"	"	"	0 ^h 55 ^m W	9:40:00-9:42:00	"	"	"	"	"	"	"	"	"	"	"	
1845	Pole			"		9:50:00-9:52:00	"	"	"	"	"	"	"	"	"	"	"	
1846	"			"		9:57:10-9:59:10	"	"	"	"	"	"	"	"	"	"	"	
1847 ^a	Kopff Comet.	17 ^h 23.3	-15°03'	Sept. 7 Friday	2 ^h 30 ^m W	8:52:00-9:12:00	32 ^s Slow	13" 6 Cond. Sph.	East. 103a0	D19	5 ^m	68°F.	good	2	"	"	"	
1848	Nova Aquila	19 16	+0°33'	"	0 ^h 49 ^m W.	9:22:10-9:24:10	"	"	East. Suppluu Spt. Jap	"	"	"	"	"	"	"	"	
1849	"	"	"	"	0 ^h 57 ^m W.	9:30:00-9:32:00	"	"	East. 103a0	"	"	"	"	"	"	"	"	
1850	Pole	21 ^h 00	+90	"		9:39:00-9:41:00	"	"	"	"	"	"	"	"	"	"	"	
1851	"	"	"	"		9:49:00-9:54:00	"	"	"	"	"	"	"	"	"	"	"	
1852	Nova Aquila	19° 16 ^m	+0° 33'	"	1 ^h 31 ^m W.	10:01:05-10:06:05	"	"	East. 103aD #12 filter	"	"	"	"	"	"	"	"	
1853	"	"	"	"	1 45 W.	10:16:00-10:21:00	"	"	"	"	"	"	"	"	"	"	"	
1854	Pole	21 ^h 00	+90°	"		10:28:00-10:33:00	"	"	East. 103a E #28 filter.	"	"	"	"	"	"	"	"	
1855	Kopff Comet	17 ^h 29.7	-15°00'	Sept 12 Wednesday	1 ^h 16 ^m W.	7:51:00-7:55:00	51 ^s Slow	"	"	"	"	"	"	"	"	"	"	
1856	"	"	"	"	1 ^h 25 ^m W.	8:00:00-8:04:00	"	"	Cr. Hi Sp Spec 4x5	D19	5	68°F	good	1	"	"	"	
1857	"	18 ^h 22 ^m	-14°00'	Oct. 1 Monday	1 ^h 59 ^m W.	8:02:00-8:06:00	21 ^s Fast	"	"	"	"	"	"	"	"	"	"	
1858	"	"	"	"	2 ^h 07 ^m W.	8:10:00-8:14:00	"	"	4x5	"	"	60°F	good	1-	"	"	"	
1859	Nova Aquila	19 ^h 16 ^m	+0°18'	"	1 ^h 30 ^m W	8:27:00-8:31:00	"	"	"	"	"	"	"	"	"	"	"	
1860	"	"	"	"	1 ^h 40 ^m W	8:37:00-8:41:00	"	"	3 1/2 x 4 1/4 East. 103a0	"	5	68°F	"	"	"	"	"	
1861	Kopff Comet	18 ^h 29 ^m	-14°40'	Oct 2 Tues.	1 ^h 18 ^m W	7:20:00-8:30:00	15 ^s Fast	"	8x10 Cr. Hi Sp. Spec	"	5	60	good	3	"	"	"	
1862	"	18 39	-14°38'	"	1 45 W	8:03:00-8:05:00	"	"	4x5 Cr. Hi Sp Spec	"	"	60	"	"	"	"	"	
1863	Nova Aquila	19 ^h 16 ^m	+0°29 ^m	"	1 ^h 15 ^m W	8:11:00-8:13:00	14 ^s Fast.	"	Eastman 103a0	"	5	68°F	good	3	"	"	"	1863 & 1866 dev. together.
1864	Pole	"	+90°	"		8:21:00-8:23:00	"	"	"	"	"	"	"	"	"	"	"	
1865	"	"	"	"		8:29:00-8:31:00	"	"	"	"	"	"	"	"	"	"	"	
1866	Nova Aquila	"	+0°29'	"	1 ^h 47 ^m W	8:37:00-8:39:00	"	"	"	"	"	"	"	"	"	"	"	
1867	Kopff Comet	18 ^h 20.0	-14°20'	Oct 6 Saturday	1 ^h 29 ^m W	7:41:00-7:45:00	8 ^s Slow KSL.	"	4x5 Cr. Hi Sp Spec.	D19	5	68°F	good	3	"	"	"	
1868	"	"	"	" 6	2 ^h 08 ^m W	8:17:00-8:23:00	"	"	"	"	"	"	"	"	"	"	"	
1869	"	20 ^h 23.0	-11°32'	Nov. 9 Friday	1 ^h 51 ^m W	7:16:00-7:26:00	7 ^s fast	"	8x10 Cr. Hi Sp Spec	"	4 1/2	68°	"	1	"	"	"	
1870	"	"	"	"	2 ^h 20 ^m W	7:50:00-7:55:00	"	"	4x5 Cr. Hi Sp Spec	"	"	"	"	"	"	"	"	
1871	"	20 ^h 34.5	-11°09'	Nov. 13	1 ^h 19 ^m W.	6:42:00-6:50:00	19 ^s Slow	"	"	"	"	68	good	1	"	"	"	
1872	"	21 ^h 02	-9°19'	Nov. 24	1 ^h 23 ^m W	6:33:00-6:48:00	18 ^s Slow.	"	"	"	3 1/2	"	good	3	"	"	"	
1873	Search for Friend Comet	17 ^h 04 ^m	+22°12'	Nov. 25	6 ^h 04 ^m W	7:04:45-7:14:45	24 ^s Slow	"	14x17	"	5 1/2	?	good	1	"	"	"	

Neg. No.	REGION			DATE 1946	H.A. End of Exposure	EXPOSURE TIME Old Astro. Day	Watch Error	Instr.	Emulsion	DEVELOPMENT.			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star.	R.A.	Dec							Kind	Time	Temp.	Trans.	Stead.				
1943	Ca. Min. Var.	7 ^h 14.5 ^m	+1°49'	Jan. 31 Thursday	0 ^h 16 ^m E	10:22:00-10:42:00	7 ^s Fast.	13"	103 a O Eastman	D19	4 ^m	68°F	good	3	W	N	H.G.	
1944	S. A. # 98	6 ^h 49.2 ^m	-0°11'	"	0 ^h 37 ^m W	10:51:00-11:11:00	6 ^s "	"	"	"	"	"	"	"	"	"	"	Nos. 1941, 42, 43, 44 Dev. Together
1945	Ca Min. Var.	7 ^h 14.5 ^m	+1°49'	"	1 ^h 47 ^m W	12:25:00-12:45:00	3 ^s "	"	"	"	"	"	"	"	"	"	"	
1946	"	"	"	"	2 ^h 15 ^m W	12:53:00-13:13:00	2 ^s "	"	"	"	"	"	"	"	"	"	"	
1947	"	"	"	"	4 ^h 13 ^m W	14:51:00-15:11:00	2 ^s Slow	"	"	"	"	"	"	"	"	"	"	
1948	"	"	"	"	4 ^h 40 ^m W	15:18:00-15:38:00	3 ^s Slow	"	"	"	"	"	"	"	"	"	"	
1949	"	"	"	Feb. 1	1 ^h 07 ^m E	9:26:00-9:47:00	9 ^s Slow	"	"	D19	4 ^m	68°F	good	2 ⁺	"	"	"	
1950	"	"	"	"	2 ^h 11 ^m W	12:44:00-13:05:00	10 ^s "	"	"	"	"	"	"	"	"	"	"	
1951	Timmer's Comet	9 ^h 45.5 ^m	+46°18'	Feb 5 Tuesday	5 ^h 10 ^m E	7 ^h 43 ^m 00-8 ^h 00 ^m 00 ^s	19 ^s Fast.	"	14x17 Cr. Hi Sp. Spec.	D19	5 ^m	68°F	good	2	"	"	"	
1952	"	9 ^h 41 ^m	+46°50'	"	3 ^h 52 ^m E	9:03:00-9:13:00	17 ^s Fast	"	4x5 "	"	4 1/2 ^m	70°F	"	"	"	"	"	
1953	"	"	"	"	3 ^h 42 ^m E	9:18:00-9:23:00	17 ^s Fast	"	"	"	"	"	"	"	"	"	"	
1954	"	9 ^h 39.4 ^m	+48°42'	Feb. 6	1 ^h 02 ^m E	11:52:00-11:55:00	9 ^s Fast.	"	4x5 "	D19	4	68°F	good	3	"	"	"	
1955 ^a	"	"	"	"	0 ^h 02 ^m E	12 ^h 36 ^m 15 ^s -12 ^h 56 ^m 15 ^s		13" and	3 1/2 x 4 1/2 East. 103 a O	"	4	"	"	"	"	"	"	
1956	"	"	"	"	0 ^h 07 ^m W	12 ^h 36 ^m 09 ^s -12 ^h 51 ^m 09 ^s	Schmidt.	13"	East Sup. Panchro Pan	"	5	"	"	"	"	"	"	
1957	"	9 ^h 39.6 ^m	+49°00'	Feb. 7	3 ^h 06 ^m E	9:46:00-9:50:00	on time	"	4x5 Cr. Hi Sp. Spec.	D19	4	68°F	good	2	"	"	"	
1958 ^b	"	"	"	"	0 ^h 53 ^m E	11:44:03-11:59:03	4 ^s Slow	13" &	103 a O Eastman	"	"	"	good?	2	"	"	"	
1959	"	9 ^h 36.6 ^m	+49°22'	"	0 ^h 45 ^m E	Sch: 11:44:07-11:59:07		Cogh. Schmidt	East Sup. Panchro Pan	"	"	"	"	2	"	"	"	
1960	"	9 ^h 35.7 ^m	+50°30'	Feb 8	1 ^h 12 ^m E	12:05:00-12:09:00	5 ^s Slow	13	4x5 Cr. Hi Sp. Spec.	"	"	"	"	2	"	"	"	
1961	"	9 ^h 30 ^m	+51°42'	Feb 8	1 ^h 12 ^m E	11:31:00-11:36:00	14 ^s Slow at 11:15 15 ^s " at 11:47	"	"	D19	"	"	good	1	"	"	"	
1962 ^a	"	9 ^h 31.5 ^m	+51°42'	Feb 9 Saturday	2 ^h 02 ^m W.	14:35:00-14:39:00	28 ^s Slow	"	"	"	4	"	good	3	"	"	"	
1963	"	9 ^h 23 ^m	+55°00'	Feb 12 Tues.	1 ^h 13 ^m E	Sch: 14:49:05-15:06:15	30 ^s Slow at 3:20	13" &	103 a O Eastman	"	"	"	"	"	"	"	"	
1964	"	"	"	"	1 ^h 08 ^m E	10:46:15-11:01:15	52 ^s Slow	Cogh. Sa. H.	East Sup. Panchro Pan	"	"	"	"	"	"	"	"	
1965	"	9 ^h 18 ^m	+57°00'	Feb. 14	1 ^h 12 ^m E	11:07:00-11:11:00	"	"	103 a O Eastman	"	"	"	good	2	"	"	"	
1966	"	9 ^h 13 ^m	+60°40'	Feb 18 Monday	0 ^h 36 ^m W	10:53:00-10:56:00	7 ^s Slow.	"	with #29 filter	D19	4	64°F?	good	3 ⁺	"	"	"	
1967	"	9 06	+60°30'	"	0 ^h 54 ^m W	12:12:00-12:22:00	43 ^s Slow	"	4x5 Cr. Hi Sp. Spec.	"	"	"	"	"	"	"	"	
1968 ^a	"	8 ^h 58 ^m	+62°49'	Feb. 21 Tues.	0 ^h 33 ^m W.	12:28:00-12:32:00	44 ^s Slow	"	103 a O East	D19	4 1/2	68°F	good	2	"	"	"	
1969	"	"	+62°47'	"	0 ^h 43 ^m W.	Sch: 11:32:00-11:52:00 Sch: 11:32:10-11:48:10	4 ^s Slow.	"	East Sup. Panchro Pan	"	4	"	"	"	"	"	"	
1970	X2 Aurigae	6 ^h 00.8 ^m	+47°08'	Feb. 22 Friday	1 ^h 35 ^m W.	11:58:00-12:02:00	11 ^s Slow.	"	4x5 Cr. Hi Sp. Spec.	"	4 1/2	"	"	"	"	"	"	
1971	Pole	"	+90°	"	2 ^h 00 ^m W	9:38:00-9:53:00	"	"	3 1/2 x 4 1/2 Eastman	D19	4 ^m	68°F	good	6	"	"	"	
1972	X2 Aurigae	"	+47°08'	"	2 ^h 25 ^m W	10:03:00-10:18:00	"	"	103 a O with #29 filter	"	"	"	"	"	"	"	"	
1973	Pole	9 ^h 00 ^m	+90	"	0 ^h 13 ^m E	10:27:00-10:42:00	12 ^s Slow	"	"	"	"	"	"	"	"	"	"	
1974 ^a	Timmer's Comet	8 ^h 54 ^m	+63°30'	"	0 ^h 34 ^m W.	10:49:00-11:04:00	"	"	103 a O	D19	4	"	good	6	"	"	"	Nos. 1970-73 incl. Dev. Together.
1975	"	"	+63°28'	"	0 ^h 51 ^m W	Sch: 11:20:10-11:38:10	"	"	East Sup. Panchro Pan	"	"	"	"	"	"	"	"	
So. 91.	1976	Polar Sequence	8 ^h 30 ^m	+90°	Feb. 26	0 ^h 43 ^m E	Series Ended 9 ^h 49 ^m	13 ^s Slow	4x5 Cr. Hi Sp. Spec.	"	"	"	"	"	"	"	"	10 ^s , 16 ^s , 25 ^s , 40 ^s , 63 ^s , 100 ^s , 158 ^s 5 ^m 15 ^s over exp.
So. 91.	1977	Timmer's Comet	8 ^h 39 ^m	+66°10'	"	Series Ended 10:27:38	"	"	103 a O	"	"	68	good	5	"	"	"	10 ^s , 16 ^s , 25 ^s , 40 ^s , 63 ^s , 100 ^s , 158 ^s 4 ^m 11 ^s .

NEG NO.	R E G I O N			DATE 1946	H.A. End of Exposure	EXPOSURE TIME Old Astronomical	Watch Error
	Guide Star	R.A.	Dec.				
1978	Timmers Comet	8 ^h 39 ^m	+66° 20'	Feb. 26	0 ^h 11 ^m W.	10:40:00 - 10:50:00	44 ^s Slow.
1979	"	"	"	Tuesday	0 ^h 31 ^m W.	11:01:00 - 11:11:00	45 ^s "
1980	"	"	"	"	0 ^h 45 ^m W.	11:21:00 - 11:25:00	46 ^s "
1981	"	8 ^h 28 ^m	+68° 08'	March 1	0 ^h 51 ^m W.	11:04:00 - 11:08:00	11 ^s Slow.
1982	"	8 ^h 3 ^m 2	+71° 02'	March 7	0 ^h 2 ^m W.	9:28:00 - 9:32:00	6 ^s Fast.
SP. 1983	"	"	"	Thursday	0 ^h 55 ^m W.	Scale Plate 10 ^s , 16 ^s , 30 ^s , 40 ^s , 63 ^s , 100 ^s , 2 ^m 38 ^s , 4 ^m 11 ^s end at 10:20	6 "
1984	"	6 ^h 58 ^m 5	+75° 31'	March 22	0 ^h 40 ^m W.	8 ^h 00 ^m 56 ^s - 8 ^h 04 ^m 56 ^s	45 ^s Slow.
1985	"	7 ^h 03 ^m	+75° 48'	Friday	1 ^h 15 ^m W.	8:13:00 - 8:43:00	"
1986	Ca Min Var.	7 ^h 14 ^m 2	+1° 49'	Mar. 25	1 ^h 44 ^m W.	8:52:00 - 9:12:00	33 ^s Slow
1987	T Lyncis	8 ^h 15 ^m	+33° 36'	"	1 ^h 03 ^m W.	9:24:00 - 9:32:00	"
1987s	Timmers Comet.	6 ^h 43 ^m	+77° 00'	Mar. 29	2 ^h 18 ^m W.	8:57:00 - 9:01:00	9 ^s Slow.
SP. 1988	"	"	"	Friday	2 ^h 56 ^m W.	Scale Plate Ending 9:39:38 10 ^s , 16 ^s , 30 ^s , 40 ^s , 60 ^s , 100 ^s , 2 ^m 38 ^s , 4 ^m 11 ^s , 6 ^m 38 ^s .	"
1989	"	"	"	"	3 ^h 28 ^m W.	9:49:00 - 10:09:00	"
1990	Polar Segs	10 ^h 30 ^m	+90°	"	M. T.	10:20:00 - 10:30:00	"
1991	T Lyncis	8 ^h 21 ^m	+33° 46'	"	2 ^h 33 ^m W.	10:41:00 - 10:51:00	10 ^s Slow
1992	"	"	"	"	2 ^h 49 ^m W.	10:58:00 - 11:08:00	"
1993	Polar Seg.	11 ^h 30 ^m	+90	"	0 ^h 04 ^m E.	11:14:00 - 11:24:00	"
1994	T Lyncis	8 21	+34 00	"	3 ^h 21 ^m W.	11:29:30 - 11:39:30	"
1995	"	"	"	"	3 39 W	11:49:00 - 11:59:00	11 ^s Slow
Tempel 1996	Tempel Comet 2 Region	20 ^h 03 ^m	-11° 43'	April. 8	2 ^h 26 ^m E.	16:00:00 - 16:55:00	35 ^s Slow.
1997	"	"	"	April 9	2 ^h 36 ^m E.	15:41:00 - 16:41:00	42 ^s Slow.
Tempel 1998	Tempel Suspect "	20 ^h 29 ^m 1/2	-16° 18'	Apr. 10	3 ^h 40 ^m E.	15 ^h 49 ^m 00 ^s - 15 ^h 59 ^m 00 ^s	51 ^s Slow.
1999	"	"	"	"	2 ^h 40 ^m E.	16 ^h 53 ^m 00 ^s - 17 ^h 00 ^m 00 ^s	52 ^s Slow.
2000	Timmers Comet	6 ^h 11 ^m	+79° 22'	Apr. 11	3 ^h 09 ^m W.	8:22:00 - 8:26:00	4 ^s Fast.
2001	An Asteroid?	20 ^h 30 ^m 8	-16° 12'	Apr. 11	2 ^h 53 ^m E.	16:34:00 - 16:44:00	1 ^s Fast
2002	"	"	"	"	2 ^h 41 ^m E.	16:46:00 - 16:56:00	on Time
2003	Timmers Comet?	6 ^h 29 ^m	+80° 38'	April 22	4 ^h 12 ^m W.	9:03:00 - 9:07:00	33 ^s Fast.
2004	"	6 ^h 10 ^m	+80° 49'	Monday	4 55 W	9:15:00 - 9:19:00	"
2005	Polar Seg.	12 ^h 00 ^m	+90°	"	0 ^h 43 ^m E.	9:33:00 - 9:43:00	"
2006	T Lyncis	8 ^h 18 ^m	+34° 31'	"	3 ^h 20 ^m W.	9:53:10 - 10:03:10	"
2007	"	"	"	"	3 ^h 42 ^m W.	10:15:00 - 10:25:00	"
2008	Polar Seg.	13 ^h 00 ^m	+90	"	0 ^h 45 ^m E.	10:29:00 - 10:39:00	"
2009	A Region v on Rep. Cont	10 ^h 04	+84° 32'	April 23	0 ^h 29 ^m W.	8:46:00 - 9:16:00	20 ^s Fast
2010	"	7 ^h 42 ^m	+81° 11'	"	3 ^h 56 ^m W.	10:10:00 - 10:20:00	20 ^s "

Instr.	Plate Brand or Emulsion	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
		Kind	Time	Temp.	Trans.	stead.				
13"	103a G with #12 filter.	D19	4 ^m 68 ^F	68 ^F	Good	5	W	N	H.G.	
"	103a E with #29 filter.	"	4 ^m	"	"	"	"	"	"	
"	4x5 C. Hi. Sp. Spec.	"	"	"	"	"	"	"	"	
"	"	D19	4	68	good	5	"	"	"	
"	"	"	"	"	"	3	"	"	"	
"	*N Eastman 103a O	"	"	"	"	"	"	"	"	Some 30° Exp. included 25 for 32° image.
"	"	D19	4	68	good	3	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	3 1/4 x 4 1/4	"	4	68	good	2	"	"	"	
"	4x5	"	"	"	"	2	"	"	"	
"	"	D19	4	68	good	3	"	"	"	
"	"	"	"	"	"	"	"	"	"	Very good Timing.
"	"	"	"	"	"	"	"	"	"	1990-1993 incl. Dev. Together.
"	"	"	"	"	"	"	"	"	"	Edm = Sent to Frank K. Edmondson
"	"	"	"	"	"	"	"	"	"	Edm
"	"	"	"	"	"	"	"	"	"	Edm
"	"	"	"	"	"	"	"	"	"	Edm
"	103a E with #28 Filter	"	"	"	"	"	"	"	"	Edm
"	103a G with #12 filter	"	"	"	"	"	"	"	"	Edm
"	14x17 C. Hi. Sp. Spec.	D19	4	70 ^F	good	3	"	"	"	
"	"	"	"	68 ^F	good	0, 1, 2	"	"	"	
"	4x5 103a O	"	"	Room	"	1	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	Room	"	2	"	"	"	
"	"	"	"	"	"	2	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	68 ^F	good.	2+	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	68 ^F	"	"	"	"	"	Edm Nos. 5 & 8 incl dev. Together.
"	"	"	"	"	"	"	"	"	"	Edm
"	"	"	"	"	"	"	"	"	"	Edm
"	14x17 C. Hi. Sp. Spec.	"	"	68	good	2, 3	"	"	"	
"	8x10	"	"	Room	"	"	"	"	"	

NEG NO.	Guide REGION			DATE 1947	Hour Angle (End)	EXPOSURE * Old Astro Day	Watch Error
	Guide Star	R.A.	Dec.				
2220	Bester Comet	1 ^h 23 ^m	+10° 10'	Mar. 14		7:44:02 - 7:49:01	8 ^s Slow
2221	Grigg-Skj	5 ^h 7 ^m	-30° 58'	Friday	1 ^h 57 ^m W	7:58:00 - 8:03:00	"
2222	"	"	"	"	2 ^h 20 ^m W	8:17:04 - 8:27:04	"
2223 ^a	"	"	"	"	2 ^h 41 ^m W	8:31:05 - 8:46:05	"
2224	Polar Seg.	8 ^h 30 ^m	+90°	"		8:57:05 - 9:02:05	"
2225	"	"	"	"		9:03:00 - 9:18:00	"
2226	"	"	"	"		9:22:00 - 9:32:00	9 ^s Slow
2227 ^a	Grigg-Skj. Comet	5 ^h 03 ^m	-31°	Mar. 15	2 ^h 04 ^m W	7:58:00 - 8:03:00	9 ^s Slow
2228 ^a	"	"	"	"	2 ^h 21 ^m W	8:07:00 - 8:17:00	9 ^s Slow
2229	A Region in Sky	5 ^h 39 ^m	-30° 38'	Mar. 17	1 ^h 36 ^m W	8:17:00 - 8:22:00	13 ^s Slow
2230	"	"	"	"	2 ^h 00 ^m W	8:25:00 - 8:35:00	"
2231	"	4 ^h 12	-30°	Mar. 24	3 ^h 29 ^m W	7:53:00 - 8:00:00	12 ^s Slow
2232	"	"	"	"	3 ^h 42 ^m W	8:03:15 - 8:13:15	"
2233	Grigg-Skj. Comet	4 ^h 04 ^m	-29° 13'	Mar. 27	3 ^h 45 ^m W	7:52:00 - 7:57:00	10 ^s Slow
2234	"	"	"	"	3 ^h 53 ^m W	7:59:30 - 8:04:30	"
2235	Jones Comet	19 ^h 53 ^m	+20° 38'	"		12:01:15 - 12:06:15 AM	11 ^s Slow
2236	"	"	"	"	2 ^h 51 ^m E	17:08:00 - 17:12:02	11 ^s Slow
2237	asteroid (135) Hertha	19 ^h 53.5 ^m	-23° 10'	"	2 ^h 53 ^m E?	17:20:15 - 17:26:15	"
2238	Pole		+90°	Mar. 29	0 ^h 27 ^m E	9:19:00 to 9:23:00	12 ^s Slow
2239	"		+90°	"	0 ^h 10 ^m E	10:01:00 to 10:06:00	"
2240	Pole, Beevar		+90°	Mar. 30	0 ^h 2 ^m W	16:40:00 to 17:00:00	9 ^s Slow
2241	Asteroid (135) Hertha	20 ^h 01 ^m	-22° 40'	"		4:40:00 to 5:00:00 AM	9 ^s Slow
2242	"	"	"	"	2 ^h 37 ^m E	17:08:00 to 17:13:00	"
2243	Beevar Comet	4 ^h 18 ^m	+83° 42'	Mar. 31	4 ^h 05 ^m W	17:14:15 to 17:19:15	10 ^s Slow
2244	"	"	"	Monday	4 ^h 13 ^m W	8:08:00 to 8:13:00	10 ^s Slow
2245	"	"	"	"	4 ^h 21 ^m W	8:19:00 to 8:24:00	"
2246	"	"	"	"	4 ^h 28 ^m W	8:27:00 to 8:31:00	"
2247	"	5 ^h 00 ^m	+79° 52'	April 1	3 ^h 33 ^m W	8:34:00 to 8:38:00	11 ^s Slow
2248	"	4 ^h 50 ^m	+80° 42'	"	4 ^h 09 ^m W	8:18:00 to 8:22:00	12 ^s Slow
2249	"	"	"	"	4:48 W	8:44:00 to 8:47:00	"
2250	"	"	"	"	4:55 W	9:24:00 to 9:26:00	"
2251	A Region in Sky	7 ^h 31	+65° 30'	Apr. 6	2 ^h 17 ^m W	9:31:00 to 9:33:00	12.5 ^s Slow
2252	A Region	7 ^h 32	+65° 18'	"	3:03 W	9:14:00 to 9:22:00	8 ^s Slow
2253	"	"	"	"	3:10 W	10:06:00 to 10:03:00	9 ^s Slow
2254	"	6 ^h 5 ^m	+59° 00'	Apr. 7	2 ^h 45 ^m W	8:08:00 to 8:15:00	9 ^s Slow

Instrument	PLATE Brand	DEVELOPMENT			SEEING		Position of Telescope	Writing on Plate	Observer	REMARKS
		Kind	Time	Temp	Trans	Stead				
13"	Eastman 103 a 0 4x5	D19	4 ^m	68°F	good	3	W	N	HG	
"	"	"	"	"	"	2	"	"	"	
"	Sch. East S.P.P.	"	"	"	"	"	"	"	"	Schmidt film old + fogged
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	Sch 103 F film	"	"	"	good	2+	"	"	"	
"	"	"	"	"	"	"	"	"	"	wrong setting for cond.
"	"	"	"	"	Fair	2	"	"	"	
"	"	"	"	"	Fair-	1	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	good	1	"	"	"	moonlight.
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	good	2+	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	morning twilight fog.
"	8x10 Cr. 74 Sp Spec	"	"	"	Fair+	?	"	"	"	bright moonlight.
"	"	"	"	"	"	"	"	"	"	A.M. H.S.T.
"	14x17 Cr. H. Sp. S.	"	"	"	Fair to poor cloudy.	2	"	"	"	
"	4x5 Eastman 103 a 0	"	"	"	"	"	"	"	"	Blurred Pair but no asteroid.
"	4x5 Cr. 74 Sp Spec	"	"	70°	Fair-	2	"	"	"	
"	"	"	"	"	good-	"	"	"	"	
"	4x5 Eastman 103 a 0	"	"	68	± "	"	"	"	"	
"	"	"	"	"	± "	"	"	"	"	
"	4x5 Cr. 74 Sp Spec	"	"	"	good-	3	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	4x5 Eastman 103 a 0	"	"	"	"	"	"	"	"	
"	8x10 Cr. 74 Sp Spec	"	"	"	Fair	2	"	"	"	
"	4x5 Cr. 74 Sp Spec	"	"	"	"	"	"	"	"	
"	8x10 Cr. 74 Sp Spec	"	"	"	good-	1	"	"	"	

NEG No	REGION	R.A.	DEC.	H.A. End of Exp.	DATE 1947	EXPOSURE TIME *Old Astro. Day.	Watch Error	Instrument	PLATE	DEVELOPMENT			SEEING		Pos of Tele.	Writing on Plate	Observer	REMARKS
										Kind	Time	Temp.	Trans.	Stand.				
2394	Reinmath & 1947j	23 ^h 15 ^m	+9 ^o 28'	1 ^h 19 ^m E	Oct. 9	8:51:00 - 9:11:00	33 ^{sec} Slow	13"	36x45 Eastman 103a0	D19	4 ^m	68°F	good	3-	W	N	H.G.	
2395	Search for R-B. (1947b) not found	4 ^h 36 ^m	+70 ^o 55'	1 ^h 03 ^m W	Oct. 16	16 ^h 00 ^m 00 ^s - 16 ^h 30 ^m 00 ^s	7.2 ^{sec} Fast	"	4x5 Eastman 103a0	"	"	68°F	good	4	W	"	"	
2396	Faye Comet (1947f)	6 ^h 04 ^m	+14 ^o 32'	0 ^h 15 ^m W	"	16:36:00 - 17:06:00	"	"	"	"	"	"	"	"	"	"	"	
2397	Encke's	9 ^h 45 ^m	+42 ^o 42'	3 ^h 10 ^m E	"	17:20:00 - 17:22:00	"	"	"	"	"	"	"	"	"	"	"	
2398	"	"	"	3 ^h 04 ^m E	"	17:24:00 - 17:28:00	6.0 ^{sec} Fast	"	"	"	"	"	"	"	"	"	"	
2399	Bester II (1947k)	4 ^h 8.5 ^m	-35 ^o 20'	1 ^h 22 ^m W	Oct. 17	16:00:00 - 16:15:00	5.8 ^{sec} Fast	"	"	"	"	"	good	1	"	"	"	
2400	Search for Reid-Bester (1947b) Not found.	4 ^h 36 ^m	+70 ^o 55'	1 ^h 41 ^m W	"	16:21:00 - 17:01:00	"	"	"	"	"	"	"	3	"	"	"	Blended with #2395 but Comet not located.
2401	Encke's	9 ^h 58.8 ^m	+41 ^o 21'	3 ^h 22 ^m E	"	17:16:00 - 17:20:00 ²⁰	"	"	"	"	"	"	"	"	"	"	"	
2402	"	"	"	3 ^h 14 ^m E	"	17:26:00 - 17:28:00	"	"	"	"	"	"	"	"	"	"	"	
2403	"	"	"	3 ^h 12 ^m E	"	17:30:00 - 17:31:00	3.2 ^{sec} Fast	"	"	"	"	"	"	"	"	"	"	
2404	Bester (1947k)	4 ^h 05 ^m	-36 ^o 12'	1 ^h 46 ^m W	Oct 18	16:25:00 - 16:30:00	1 ^{sec} fast	"	"	"	"	"	good	2	"	"	"	Sunday A.M.
2405	"	"	"	1 ^h 53 ^m W	"	16:33:00 - 16:38:00	"	"	"	"	"	"	"	"	"	"	"	
2406	Faye Comet	6 ^h 07 ^m	+13 ^o 53'	0 ^h 14 ^m W	"	16:50:00 - 17:00:00	"	"	"	"	"	"	"	3	"	"	"	
2407	Encke's Comet	10 ^h 13 ^m	+39 ^o 49'	3 ^h 38 ^m E	"	17:11:00 - 17:15:00	"	"	"	"	"	"	"	"	"	"	"	
2408	"	"	"	3 ^h 27 ^m E	"	17:25:00 - 17:27:00	"	"	"	"	"	"	"	"	"	"	"	
2409	"	"	"	3 ^h 23 ^m E	"	17:29:00 - 17:30:00	0.1 ^{sec} fast	"	"	"	"	"	"	"	"	"	"	
2410	Bester II (1947k)	4 ^h 02 ^m	-37 ^o 05'	1 ^h 39 ^m W	Oct 19	16:12:00 - 16:15:00	2.0 ^{sec} Slow	"	"	"	"	"	good	2	"	"	"	Monday A.M.
2411	"	"	"	1 ^h 46 ^m W	"	16:18:00 - 16:23:00	"	"	"	"	"	"	"	"	"	"	"	
2412	Encke's Comet	10 ^h 27 ^m	+38 ^o 18'	4 ^h 05 ^m E	"	16:53:00 - 16:57:00	"	"	"	"	"	"	"	3	"	"	"	
2413	"	"	"	3 ^h 56 ^m E	"	17:04:00 - 17:06:00	"	"	"	"	"	"	"	"	"	"	"	
2414	"	"	"	3 ^h 53 ^m E	"	17:09:00 - 17:10:00	3 ^{sec} Slow	"	"	"	"	"	"	"	"	"	"	
2414b	Reinmath & 1947j.	23 ^h 15 ^m	+8 ^o 50'	1 ^h 00 ^m W	Oct. 20	10:25:00 - 10:47:00	5 ^{sec} Slow	"	"	"	"	"	good	3	"	"	"	
2415	Encke's Comet.	10 ^h 40 ^m	+36 ^o 50'	4 ^h 10 ^m E	"	17:00:00 - 17:02:00	6 ^{sec} Slow	"	"	"	"	"	"	"	"	"	"	
2416	"	"	"	4 ^h 04 ^m E	"	17:06:00 - 17:07:03	6.8 ^{sec} Slow	"	"	"	"	"	"	"	"	"	"	
2417	"	10 ^h 52 ^m	+34 ^o 20'	4 ^h 17 ^m E	Oct 21	17:01:00 - 17:03:00	9 ^{sec} Slow	"	"	"	"	"	good	0	"	"	"	
2418	"	"	"	4 ^h 12 ^m E	"	17:06:00 - 17:07:00	10 ^{sec} Slow	"	"	"	"	"	"	"	"	"	"	
2419	"	11 ^h 7.5 ^m	+32 ^o 50'	"	Oct. 22	17:25:00 - 17:27:02	12 ^{sec} Slow	"	"	"	"	"	Fair to Poor	3-	"	"	"	
2420	"	"	"	4 ^h 00 ^m E	"	17:29:00 - 17:30:00	"	"	"	"	"	"	"	"	"	"	"	
2421	"	11 ^h 27.5 ^m	+28 ^o 48'	4 ^h 20 ^m E	Oct. 24	17:22:00 - 17:24:00	19 ^{sec} Slow	"	"	"	"	"	good	2	"	"	"	
2422	"	"	"	4 ^h 15 ^m E	"	17:27:00 - 17:28:00	19.2 ^{sec} Slow	"	"	"	"	"	"	"	"	"	"	
2423	"	11 ^h 39.5 ^m	+26 ^o 50'	4 ^h 22 ^m E	Oct. 25	17:27:00 - 17:29:00	23 ^{sec} Slow	"	"	"	"	"	good	3	"	"	"	
2424	"	"	"	4 ^h 17 ^m E	"	17:32:00 - 17:33:00	"	"	"	"	"	"	"	"	"	"	"	
2425	"	11 ^h 49.5 ^m	+24 ^o 50'	4 ^h 25 ^m E	Oct. 26	17:31:00 - 17:32:00	25 ^{sec} Slow	"	"	"	"	"	good to fair	3	"	"	"	Monday A.M.
2426	"	"	"	4 ^h 22 ^m E	"	17:35:00 - 17:35:30	25.6 ^{sec} Slow	"	"	"	"	"	"	"	"	"	"	
2427	"	11 ^h 59.2 ^m	+23 ^o 00'	4 ^h 34 ^m E	Oct. 27	17:26:00 - 17:27:00	29.2 ^{sec} Slow at end.	"	"	"	"	"	good	?	"	"	"	

NEG NO.	REGION			H.A. End of Exposure	DATE 1947	EXPOSURE TIME *Old Astro. Day.	Watch Error	Instrument	PLATE	DEVELOPMENT			SEEING		Pos. of Telescope	Writings on Plate	Observer	REMARKS
	Guide Star.	R.A.	Dec.							Kind	Time	Temp.	Trans.	Stead.				
2428	Encke's Comet	12 ^h 16 ^m	+19° 30'	4 ^h 37 ^m E	Oct. 29	17 ^h 33 ^m 00 ^s - 17 ^h 34 ^m 00 ^s	33 ^{sec} slow	13"	4x5 Eastman 103a0	D19	4 ^m	68°	good	3	W	N	HG	Thurs. AM Bright moonlight
2429	"	"	"	4 ^h 33 ^m E	"	17 ^h 37 ^m 00 ^s - 17 ^h 37 ^m 30 ^s	33 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2430	"	12 ^h 24 ^m	+17° 15'	4 ^h 40 ^m E	Oct. 30	17:34:00 - 17:35:00	36 ^{sec} slow	"	"	"	"	"	good	?	"	"	"	
2431	"	"	"	4 ^h 34 ^m E	"	17:39:00 - 17:41:00	37 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2432	"	12 ^h 45 ^m	+12° 18'	4 ^h 47 ^m E	Nov. 2	17:34:00 - 17:36:00	13 ^{sec} slow	"	"	"	"	"	good	1	"	"	"	Monday, AM.
2433	"	"	"	4 ^h 45 ^m E	"	17:40:00 - 17:41:00	"	"	"	"	"	"	"	"	"	"	"	
2434	Reinmuth 2 (1947j) ←	23 ^h 20.3 ^m	+8° 24'	0 ^h 23 ^m E	Nov. 3	8:13:00 - 8:13:00	15 ^{sec} slow	"	"	"	"	"	good	1	"	"	"	
2435	Encke's Comet	12 ^h 55 ^m	+10° 58'	4 ^h 48 ^m E	"	17:37:00 - 17:38:00	18 ^{sec} slow	"	"	"	"	"	"	1	"	"	"	
2436	Wirtanen 6	18 ^h 43.4 ^m	+13° 27'	3 ^h 47 ^m W	Nov. 4	7:14:00 - 8:04:00	19 ^{sec} slow	"	"	"	"	"	good	2	"	"	"	Did not find Wirtanen on plate.
2437	Hertha (135)	21 ^h 47.4 ^m	-11° 50'	0 ^h 59 ^m W	"	8:13:00 - 8:18:00	"	"	Cramer Hi Sp Spec	"	"	"	"	"	"	"	"	
2438	"	"	"	1 ^h 21 ^m W	"	8:35:00 - 8:40:00	"	"	"	"	"	"	"	"	"	"	"	
2439	Reinmuth 2 (1947j) E	23 ^h 20.3 ^m	+8° 30'	0 ^h 14 ^m W	"	8:47:00 - 9:07:00	20.2 ^{sec} slow	"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2440	Encke's ←	13 ^h 09 ^m	+5° 36'	4 ^h 48 ^m E	Nov. 6	17:43:00 - 17:44:00	25 ^{sec} slow	"	"	"	"	"	good	1	"	"	"	
2441	"	"	"	4 ^h 45 ^m E	"	17:47:00 - 17:48:00	25 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2442	"	13 ^h 15 ^m	+4° 00'	4 ^h 56 ^m E	Nov. 7	17:37:00 - 17:38:00	28 ^{sec} slow	"	"	"	"	"	good	1	"	"	"	
2443	"	"	"	4 ^h 53 ^m E	"	17:41:00 - 17:41:30	28 ^{sec} "	"	"	"	"	"	"	"	"	"	"	
Pic 2444	"	13 ^h 38 ^m	0° 00'	4 ^h 56 ^m E	Nov. 10	17:34:00 to 17:44:00	33 ^{sec} slow	"	"	"	"	"	good	1	"	"	"	Guiding on Comet.
2445	"	"	"	4 ^h 50 ^m E	"	17:48:30 - 17:49:00	33.6 ^{sec} slow.	"	"	"	"	"	"	"	"	"	"	
2446	"	13 ^h 50 ^m	-5° 08'	"	Nov. 14	17:53:00 - 17:54:00	40 ^{sec} slow	"	"	"	"	"	good	2	"	"	"	
2447	"	"	"	4 ^h 45 ^m E	"	17:56:00 - 17:56:30	"	"	"	"	"	"	"	"	"	"	"	
2448	"	14 ^h 27 ^m	-15°	4 ^h 51 ^m E	Nov. 23	18:01:00 to 18:02:00	42 ^{sec} slow	"	"	"	"	"	good	1	"	"	"	
2449	"	14 ^h 31.4 ^m	-15° 00'	4 ^h 41 ^m E	"	18:06:30 - 18:07:30	"	"	"	"	"	"	"	"	"	"	"	
2450	"	14 ^h 47.2 ^m	-15° 45'	4 ^h 58 ^m E	Nov. 24	18:00:30 - 18:01:30	44.3 ^{sec} slow	"	"	"	"	"	good	0	"	"	"	
2451	"	"	"	4 ^h 55 ^m E	"	18:04:10 - 18:06:10	"	"	8x10 Cr. Hi Sp. Spec.	"	"	"	"	"	"	"	"	
2452	"	14 ^h 52 ^m	-17°	"	Nov. 25	17:57:00 - 18:00:00	"	"	"	"	"	"	good	1	"	"	"	
2453	"	"	"	4 ^h 49 ^m E	"	18:02:00 - 18:03:00	45.6 ^{sec} slow	"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	cut to 4x5
2454	Asteroid Plates	2 ^h 45 ^m	+15° 21'	0 ^h 53 ^m W	Dec. 11	9:14:00 - 10:44:00	5 ^{sec} fast	"	14x17 Cramer Hi Sp. Spec.	"	"	"	good	1	"	"	"	cut to 4x5
2455	"	"	"	1 ^h 01 ^m W	Dec. 13	9:13:52 - 10:43:52	3 ^{sec} slow.	"	"	"	"	"	"	2	"	"	"	
2456	(1947 n) ←	20 ^h 12.8 ^m	-32° 00'	"	Dec. 18	6:24:00 - 6:26:00	11 ^{sec} slow	"	4x5 Cr. Hi Sp. Spec	"	"	"	good	1	E	S	"	
2457	"	"	"	"	Thurs.	6:30:35 - 6:35:35	"	"	8x10 "	"	"	"	"	"	"	"	"	
2458	"	"	"	"	"	6:38:00 - 6:41:00	"	"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2459	"	"	"	4 ^h 00 ^m W	"	6:46:05 - 6:51:05	12 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2460	"	20 ^h 21.5 ^m	-31° 22'	"	Dec. 19	6:22:00 - 6:25:00	14 ^{sec} slow	"	"	"	2	"	Fair	1	"	"	"	
2461	"	"	"	"	Friday	6:30:30 - 6:33:30	"	"	"	"	3	"	+	"	"	"	"	
2462	"	"	"	3 ^h 46 ^m W	"	6:35:30 - 6:40:30	15 ^{sec} slow	"	8x10 Cramer Hi Sp Spec	"	4	"	Fair to Poor	"	"	"	"	

NEG NO.	REGION			DATE 1948	H.A. End of Exposure	EXPOSURE TIME *Old Astro Day	Watch Error	Instrument	PLATE Brand & Filter etc	DEVELOPMENT			SEEING		Pos. of Tele.	Writing on Plate	Observed	REMARKS
	Guide Star - Obj	R.A.	DEC.							Kind	Time	Temp.	Trans	Stad				
2567	<i>Also Wintanus Asteroid Search for Amor found!</i>	11 ^h 48.5 ^m	-5° 00'	Mar. 5	1 ^h 18 ^m E	11:40:00 to 12:00:00	27 ^{sec} slow KSL 12:00	13"	14x17 Cramer Hi-Speed Special	D19	4	68°F	good	2	W	N	#6	
2568	"	11 ^h 52 ^m	-5° 40'	"	0 ^h 45 ^m E	12:18:00 - 12:38:00		"	"	"	"	"	"	3	"	"	"	Set P.A. 234°; mks moved + 1/8 rev/min. (i.e. S and W.)
2569	"	"	"	"	0 ^h 13 ^m E	12:50:00 - 13:10:00		"	"	"	"	"	"	2	"	"	"	"
2570	Amor	11 ^h 58.5 ^m	-3° 18'	March 7 Sunday	1 ^h 11 ^m E	11:44:00 - 11:46:00 Shift 103 11:47:00 - 11:52:00 Trail 11:53:00 - 11:55:00 12:00:00 - 12:02:00 12:03:00 - 12:07:20 trail 12:08:20 - 12:10:20	40 ^{sec} slow 11:20	"	4x5 Eastman 103a0	"	"	"	good	3, 4	"	"	"	Set P.A. 233° Trailed +.11 rev/min.
2571	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
2572	"	"	"	"	"	12:22:00 - 12:26:00		"	"	"	5	"	"	"	"	"	"	"
2573	"	"	"	"	0 ^h 50 ^m E	12:27:00 - 12:31:00	41 ^{sec} slow 12:45	"	"	"	"	"	"	"	"	"	"	"
2574	Wintanus Obj. II	12 ^h 05 ^m	-2° 54'	Mar. 10 Wednesday	1 ^h 23 ^m E	11:38:00 - 11:53:00	3 ^{sec} Fast	"	8x10 Cramer Hi-Speed Spec.	"	4	"	good	2-	"	"	"	"
2575	"	"	"	"	1 ^h 02 ^m E	12:00:00 - 12:15:00	3 ^{sec} Fast KSL 12:00	"	"	"	"	"	"	"	"	"	"	"
2576	AMOR	12 ^h 17.1 ^m	-0° 22'	"	"	12:25:00 - 12:29:00		"	4x5 Eastman 103a0	"	5	"	"	"	"	"	"	"
2577	"	"	"	"	0 ^h 53 ^m E	12:32:00 - 12:36:03 <i>poor timing</i>		"	"	"	"	"	"	"	"	"	"	"
2578	"	"	"	"	"	12:47:00 - 12:49:00		"	"	"	"	"	"	"	"	"	"	"
2579	"	"	"	"	0 ^h 36 ^m E	12:51:00 - 12:53:01		"	"	"	"	"	"	2+	"	"	"	"
2580	Polar Seg.	"	+90°	"	"	13:06:00 - 13:08:00		"	"	"	"	"	"	"	"	"	"	"
2581	"	"	"	"	"	13:10:00 - 13:12:00	"on time" 13:30	"	"	"	"	"	"	"	"	"	"	"
2582	Hertha (135)	1 ^h 30 ^m	+10° 43'	Mar 11	5 ^h 13 ^m W	7:43:00 - 7:51:00	5 ^{sec} slow.	"	"	"	4	"	good	2-	"	"	"	"
2583	"	"	"	Thursday	5 ^h 27 ^m W	7:55:00 - 8:05:00	5 ^{sec} "	"	"	"	"	"	"	"	"	"	"	"
2584	AMOR	12 ^h 24.5 ^m	+1° 28'	"	"	11:30:00 - 11:34:00	6 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	"
2585	"	"	"	"	"	11:36:00 - 11:38:00		"	"	"	"	"	"	"	"	"	"	"
2586	"	"	"	"	"	11:44:00 - 11:46:00		"	"	"	"	"	"	"	"	"	"	"
2587	"	"	"	"	1 ^h 40 ^m E	11:48:00 - 11:52:00	7 ^{sec} slow 12:05	"	"	"	"	"	"	"	"	"	"	"
2588	Keuff&Kamp (1948c)	6 ^h 21.4 ^m	+60° 50'	Mar. 13 Saturday	2 ^h 37 ^m W	9:47:00 - 9:57:00	17 ^{sec} slow	"	8x10 Cramer Hi-Speed Spec	"	"	"	fair	2	"	"	"	
2589	"	"	"	"	2 ^h 44 ^m W	10:02:00 - 10:04:00		"	4x5 Eastman 103a0	"	"	"	Poor	"	"	"	"	cut off by clouds
2590	"	"	"	"	2 ^h 54 ^m W	10:13:00 - 10:15:00	19 ^{sec} slow	"	"	"	"	"	fair	"	"	"	"	"
2591	AMOR	13 ^h 00.8 ^m	+7° 05'	Mar. 15 Monday	0 ^h 56 ^m W	14:43:00 - 14:47:00	30.5 ^{sec} slow 12:20	"	"	"	"	"	good	2	"	"	"	"
2592	"	"	"	"	"	14:50:00 - 14:52:00		"	"	"	"	"	"	"	"	"	"	"
2593	"	"	"	"	"	14:59:00 - 15:01:00		"	"	"	"	"	"	"	"	"	"	"
2594	"	"	"	"	1 ^h 15 ^m W	15:02:10 - 15:06:10		"	"	"	"	"	"	"	"	"	"	"
2595	Radj.-Mrkos (1948d)	18 ^h 28 ^m	+18° 02'	Mar. 15	3 ^h 56 ^m E	15:18:00 - 15:22:00		"	"	"	"	"	"	"	"	"	"	"
2596	"	"	"	"	3 ^h 51 ^m E	15:25:00 - 15:27:00	31.9 ^{sec} slow 12:40	"	"	"	"	"	"	"	"	"	"	"
2597	Wintanus Object	10 ^h 13.5 ^m	-38° 58'	Mar. 31	0 ^h 53 ^m W	10:43:00 - 10:58:00	10 ^{sec} fast	"	8x10 Cramer Hi Sp. Spec.	"	"	"	good	2-	"	"	"	blinked pair but obj not found
2598	"	"	"	"	1 ^h 17 ^m W	11:05:00 - 11:20:00		"	"	"	"	"	"	"	"	"	"	"
2599	AMOR (not found)	15 ^h 12.5 ^m	+29° 23'	"	1 ^h 19 ^m E	13:29:00 - 13:31:10 shift 2 hrs. Trail +.14 rev/min 13:32:00 - 13:38:00 shift then 13:39:00 to 13:41:00		"	"	"	"	"	"	"	"	"	"	Trailed +.14 rev/min P.A. 230°
2600	"	"	"	"	"	13:44:00 to 13:53:00		"	"	"	"	"	"	"	"	"	"	"
2601	"	"	"	"	0 ^h 48 ^m E	13:59:00 to 14:01:10 shift 2 hrs. Trail 14:02:00 - 14:08:00 14:49:00 - 14:51:05	9 ^{sec} fast 12:20	"	"	"	"	"	"	"	"	"	"	Trailed +.14 rev/min P.A. 230° blinked with above, not m.p. found.

NEG NO.	R E G I O N		DATE	H.A. End of Exposure	EXPOSURE *Old ASTD. Day	Watch Error	Instrument	PLATE	DEVELOPMENT			SEEING		Pos. of Telescope	writing of plate	Observer	REMARKS
	Guide Star or Obj.	R.A.							Dec	1948	Kind	Time	Temp				
Infra Red 2602	Praesepe Cluster		April 5	2 ^h 08 ^m W	10:05:00 - 10:15:00	19 ^s Slow	13"	Eastman IN #88 Filter	219	4 ^m	68°	good	2	N	N	H.G.	
2603	Polar Sequence	+19°50'	"	"	10:26:00 - 10:28:00	"	"	Eastman 1039D	"	"	"	"	"	"	"	"	
2604	"	+90°	"	"	10:41:00 - 10:45:00	"	"	Cramer HiSpSpec	"	"	"	"	"	"	"	"	
2605	"	"	"	M.T.	10:46:10 - 10:50:10	19 ^s Slow	"	"	Don L	10	"	"	"	"	"	"	
2606 ^a	Forbes & Region	13 ^h 36 ^m -10°50'	April 27	0 ^h 35 ^m W	11:13:00 - 12:13:00	24 ^s Slow	13"	14x17 Cramer HiSpSpec	"	"	"	good	3+	"	"	"	Blinked 18 m.p.s. marked
2607 ^b	"	"	Apr. 28	0 ^h 13 ^m W	10:43:00 - 11:47:00	28 ^s Slow 29 ^s Slow	5" Cooke	8x10 Cramer HiSpSpec	"	"	"	good	3-	"	"	"	Clipped by 1/2"
2608	Bester (1947k)	11 ^h 47.5 ^m +67°39'	May 1 Saturday	0 ^h 36 ^m E	8:58:00 - 8:59:00	41 ^s Slow	13"	Eastman 4x5 10300	"	"	"	good	4	"	"	"	H.G.
2609	"	"	"	0 ^h 29 ^m E	9:03:00 - 9:05:00	"	"	"	"	"	"	"	"	"	"	"	
2610	"	"	"	0 ^h 16 ^m E	9:15:00 - 9:19:00	"	"	"	"	"	"	"	"	"	"	"	
2611	Polar Sequence	+90°	"	"	9:28:00 - 9:30:00	"	"	"	"	"	"	"	"	"	"	"	
2612	"	"	"	"	9:32:00 - 9:34:00	42 ^s Slow 43 ^s Slow	"	"	Don L	10 ^m	68	"	"	"	"	"	
2613	AMOR	17 ^h 10 ^m +35°38'	"	1 ^h 03 ^m E	13:32:00 - 13:52:00	43 ^s Slow 13:45 ^m	"	"	"	"	"	"	3	"	"	"	
2614	"	"	"	0 ^h 38 ^m E	13:57:00 - 14:17:00	44 ^s Slow 14:30 ^m	"	"	"	"	"	"	"	"	"	"	
2615	"	17 ^h 05 ^m +35°26'	May 3 Monday	0 ^h 22 ^m W	14:46:00 - 15:06:00	8 ^s fast	"	"	"	"	"	good	"	"	"	"	ie. Jan A.M.
2616	"	"	"	0 ^h 47 ^m W	15:10:00 - 15:30:00	"	"	"	"	"	"	"	"	"	"	"	
2617	"	"	"	1 ^h 14 ^m W	15:36:10 - 15:57:10	7 1/2 ^s fast	"	"	"	"	"	"	"	"	"	"	P.A. 180+7° Move 1/48 in/90°
2618 ^a	Forbes & Region	13 ^h 27 ^m -10°28'	May 6	0 ^h 40 ^m W	10:32:05 - 11:32:05	2 ^s Slow	13"	Cramer HiSpSpec 8x10 and 14x17	"	"	"	good	3+	"	"	"	ie. Guide star drive S.E.
2619 ^b	"	"	May 7	0 ^h 14 ^m E	9:35:00 - 10:35:00	6 ^s Slow 7 ^s Slow	"	"	"	"	"	fair	2-	"	"	"	"
2620	"	10 ^h 59 ^m +66°42'	May 10	1 ^h 18 ^m W	9:28:00 - 9:29:00	21 ^s Slow	13"	4x5 Eastman 10300	"	"	"	good	2	"	"	"	
2621	"	"	"	1 ^h 27 ^m W	9:35:00 - 9:37:00	"	"	"	"	"	"	"	"	"	"	"	
2622	"	"	"	1 ^h 43 ^m W	9:49:00 - 9:53:00	"	"	"	"	"	"	"	"	"	"	"	
2623 ^b	M.P.'s opposition 16.4 marked	14 ^h 48.5 ^m -15°50'	"	0 ^h 11 ^m E	10:47:00 - 11:47:00	2 1/2 ^s Slow	5" Cooke	Cramer HiSpSpec 14x17; 8x10	"	"	"	"	"	"	"	"	
2624	"	10 ^h 46 ^m +62°40'	May 11	2 ^h 04 ^m W	10:04:00 - 10:06:00	26 ^s Slow	13"	4x5 Eastman 10300	"	"	"	good	2	"	"	"	
2625	"	"	"	2 ^h 10 ^m W	10:09:00 - 10:13:00	"	"	"	"	"	"	"	"	"	"	"	
2626 ^a	M.P.'s opposition 16.4 marked	14 ^h 48 ^m -15°50'	"	0 ^h 34 ^m E	10:21:00 - 11:21:00	"	5" Cooke	Cr. HiSpSpec 14x17; 8x10	"	"	"	"	"	"	"	"	
2627	AMOR OK	17 ^h 21 ^m +33°28'	May 13	1 ^h 02 ^m E	12:48:00 - 13:18:00	37 ^s Slow	13"	4x5 Eastman 10300	"	"	"	good	3	"	"	"	
2628	"	"	"	0 ^h 29 ^m E	13:21:00 - 13:51:00	38 ^s Slow	"	"	"	"	"	"	"	"	"	"	
2629	(No Finders)	"	May 14	"	15:03:00 - 15:23:00	43 ^s Slow	"	"	"	"	"	good	3	"	"	"	
2630	"	"	"	1 ^h 35 ^m W	15:25:00 - 15:49:00	"	"	"	"	"	"	"	"	"	"	"	
2631	Bester (1947k)	10 ^h 27.2 ^m +52°05'	May 27	3 ^h 28 ^m W	9:56:00 - 10:00:00	28 ^s Slow	"	"	"	"	"	Fair+	3	"	"	"	
2632	"	"	"	3 ^h 42 ^m W	10:06:00 - 10:14:20	"	"	"	"	"	"	"	"	"	"	"	
2633	Repeat m.p.'s plate	14 ^h 48 ^m -15°50'	May 31	0 ^h 25 ^m W	10:00:00 - 11:00:00	29 1/2 ^s Slow	"	14x17 Cr HiSpSpec	"	"	"	good	1	"	"	"	Drive in P.A. 0° North 1/48 in/90°
2634	AMOR Region Object not found	17 ^h 20.5 ^m +27°55'	"	1 ^h 20 ^m E	11:20:00 - 11:50:00	"	"	4x5 Eastman 10300	"	"	"	"	2+	"	"	"	Blinked but not found.
2635	"	"	"	0 ^h 45 ^m E	11:54:00 - 12:24:02	30 ^s Slow	"	"	"	"	"	"	"	"	"	"	
2636	Repeat m.p.'s plate	14 ^h 48 ^m -15°50'	June 4	0 ^h 37 ^m W	9:58:00 - 10:58:00	7 ^s fast	"	14x17 Cramer HiSpSpec	"	"	"	good	2+	"	"	"	

NEG NO.	REGION			DATE 1948	H.A. End of Exposure	EXPOSURE *Old Astro Day	Watch Error	Instrument	PLATE	DEVELOPMENT			SEEING		Pos. of Telescope	Writing on Plate	Observer	REMARKS
	Guide Star	R.A.	Dec							Kind	Time	Temp	Trans	Stead				
2637	Whirlpool Neb.	13 ^h 30 ^m	+47°30'	June 4	2 ^h 17 ^m W	11:10:00-11:20:00	7 ^{sec} fast	13"	4x5 Eastman 103a0	von L	10 ^{min}	68°F	good	3	W	N	H.G.	
2638	"	"	"	"	2 ^h 31 ^m W	11:24:00-11:34:00	"	"	"	D19	4 ^{min}	68°F	"	"	"	"	"	
2639	Bester (1947k) Region	10 ^h 20 ^m	+46°50'	June 7	3 ^h 30 ^m W	9:00:00-9:11:00	1 ^{sec} slow	"	8x10 Cr. Hi Sp Spec	D19	4	68°F	good	3	"	"	"	
2640	"	"	"	"	3 ^h 42 ^m W	9:15:00-9:25:00	"	"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2641	Search Whipple & No Comet found	2 ^h 00 ^m	+10°51'	"	"	15:37:00-15:47:00	3 ^{sec} slow 3:05 AM	"	"	"	"	"	good	1	"	"	"	7 aged morning twilight
2642	"	"	"	"	5 ^h 24 ^m E	15:49:10-15:56:10	"	"	"	"	"	"	"	"	"	"	"	
2643	Bester (1947k)	10 ^h 20 ^m	+47°20'	June 9	3 ^h 56 ^m W	9:24:00-9:29:00	9 ^{sec} slow	"	"	"	"	"	good	2	"	"	"	
2644	"	+47°20'	"	"	4 ^h 09 ^m W	9:32:00-9:42:00	"	"	"	"	"	"	"	"	"	"	"	
2645	← Honda (1948) on this plate	3 ^h 05 ^m	+40°45'	"	6 ^h 46 ^m E	15:22:00-15:32:00	10 ^{sec} slow	5" Cooke	8x10 Cr. Hi Sp Spec	"	"	"	good	1	"	"	"	
2646	"	2 ^h 17 ^m	+50°45'	"	5 ^h 43 ^m E	15:38:03-15:48:03	"	"	"	"	"	"	"	"	"	"	"	
2647	← Honda	1 ^h 09 ^m	+52°50'	June 11	5 ^h 00 ^m E	15:14:00-15:15:00	13 ^{sec} S/O	13"	4x5 Eastman 103a0	"	"	"	good	3	"	"	"	
2648	"	"	"	"	4 ^h 53 ^m E	15:17:00-15:19:00	"	"	"	"	"	"	"	"	"	"	"	7 allowed motion of E
2649 ^a	"	"	"	"	"	15:26:47-15:46:47	"	13" 6" Cooke	8x10's Cr. Hi Sp Spec	"	"	"	"	"	"	"	"	
2650	"	"	"	"	4 ^h 23 ^m E	15:49:10-15:51:10	"	13"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2651	"	"	"	"	4 ^h 20 ^m E	15:53:00-15:54:00	13 ^{1/2} sec slow 15:56:03	"	"	"	"	"	"	"	"	"	"	guiding on E
2652 ^a	"	"	+53°30'	June 12	4 ^h 08 ^m E	15:28:00-15:48:00	23 ^{sec} slow	13" 6" Cooke	8x10 Cramer Hi Sp Spec	"	"	"	good	3	"	"	"	
2653	"	"	"	"	4 ^h 04 ^m E	15:51:30-15:53:30	"	13"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2654	"	"	"	"	4 ^h 01 ^m E	15:55:30-15:56:00	25 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	guiding on E
2655 ^b	"	0 ^h 41.5 ^m	+54°05'	June 13	3 ^h 57 ^m E	15:10:00-15:40:00	7 ^{sec} slow	13" 6" Cooke	8x10 Cramer Hi Sp Spec	"	"	"	good	3	"	"	"	
2656	"	"	"	"	3 ^h 55 ^m E	15:43:00-15:44:20	"	13"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2657	"	"	"	"	3 ^h 51 ^m E	15:46:30-15:47:00	7 ^{1/2} sec slow 15:47:00	"	"	"	"	"	"	"	"	"	"	
2658	"	0 ^h 13 ^m	+54°56'	June 15	3 ^h 19 ^m E	15:00:00-15:04:00	13 ^{sec} slow	"	"	"	"	"	good	3	"	"	"	
2659	"	"	"	" ¹⁵	3 ^h 14 ^m E	15:07:05-15:09:05	"	"	"	"	"	"	"	"	"	"	"	
2660	"	"	"	"	3 ^h 24 ^m E	15:17:00-15:37:00	"	"	8x10 Cr. Hi Sp Spec	"	"	"	"	"	"	"	"	
2661	"	"	"	"	3 ^h 21 ^m E	15:40:00-15:41:00	"	"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2662	"	"	"	"	3 ^h 19 ^m E	15:43:00-15:43:30	14 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2663	"	23 ^h 58 ^m	+55°18'	June 16	3 ^h 02 ^m E	15:20:30-15:40:30	17 ^{sec} slow	"	8x10 Cr. Hi Sp Spec	"	"	"	good	3	"	"	"	
2664	"	"	"	"	2 ^h 58 ^m E	15:44:00-15:45:00	"	"	4x5 Eastman 103a0	"	"	"	"	"	"	"	"	
2665	"	"	"	"	2 ^h 55 ^m E	15:47:00-15:47:30	17 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2666	"	23 ^h 29 ^m	+55°32'	June 18	2 ^h 44 ^m E	15:22:00-15:23:00	22.2 ^{sec} slow	"	"	"	"	"	good	3-	"	"	"	
2667	"	"	"	"	2 ^h 18 ^m E	15:27:30-15:47:30	22.5 ^{sec} slow	"	"	"	"	"	"	"	"	"	"	
2668	← Bester (1947k)	10 ^h 33.5 ^m	+44°00'	June 26	4 ^h 36 ^m W	9:08:00-9:18:00	21 ^{sec} fast	"	"	"	"	"	good	2+	E	S	"	
2669	"	"	"	"	4 ^h 49 ^m W	9:21:00-9:31:15	"	"	"	"	"	"	"	"	"	"	"	61 ^{min} Exp.
2670	m.p. opposition	17 ^h 56.5 ^m	-23°46'	June 28	0 ^h 23 ^m W	11:16:07-12:17:07	7 ^{sec} fast	"	14x17 Cramer Hi Sp Spec	"	"	"	good	1	W	N	"	
2671	"	"	"	June 29	0 ^h 03 ^m W	10:55:00-11:55:00	2 ^{sec} fast	"	"	"	"	"	good	2-1	"	"	"	

\$ 13.29 ← { 17 50
+ 32 02

1331 ← { 18 40
+ 34 34

975

13 55 00 to 14 10 00

14 11 05 to 14 26 05

14 27 02 to 14 42 02

14 43 02 to 14 58 02

14 59 02 to 15 14 02

15 15 02 to 15 30 02

27 Sgt Va
30 #913
00 #914 ←
081 HA 7402^m

2+51° 20'

20
4:20
4:39 453^m
81

then 2^m 38.5 }
5 then 15.8 } Ending

SEARCH PROGRAM PLATES

It was found 1/2 turn clear with prime corner

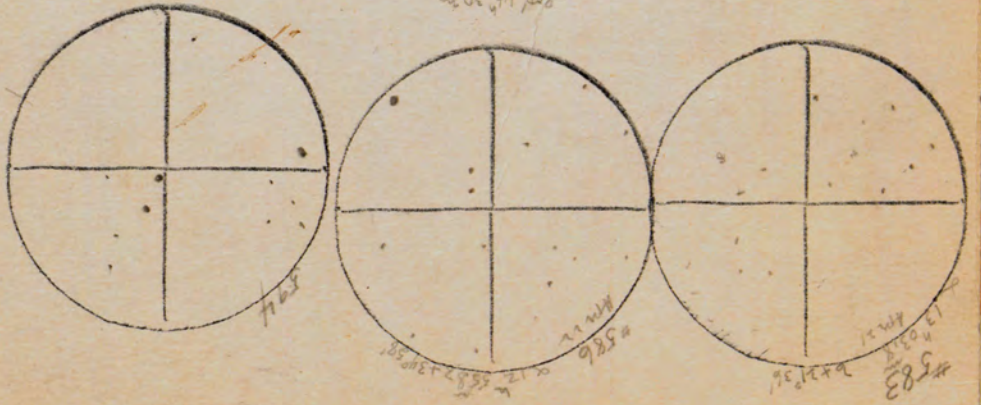
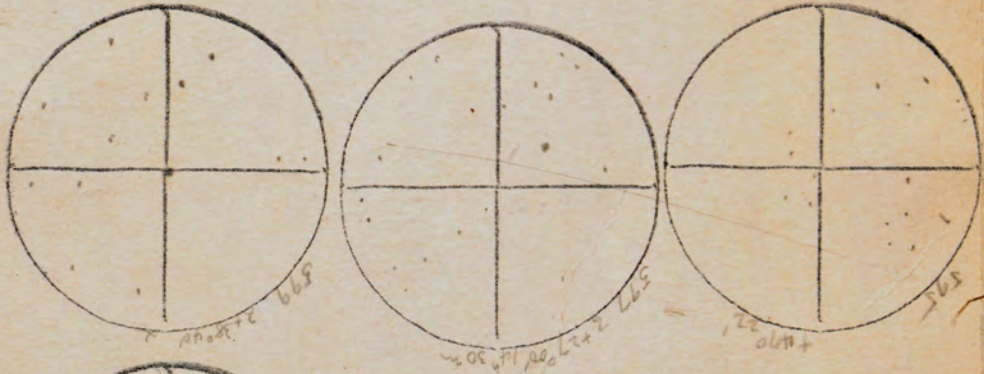
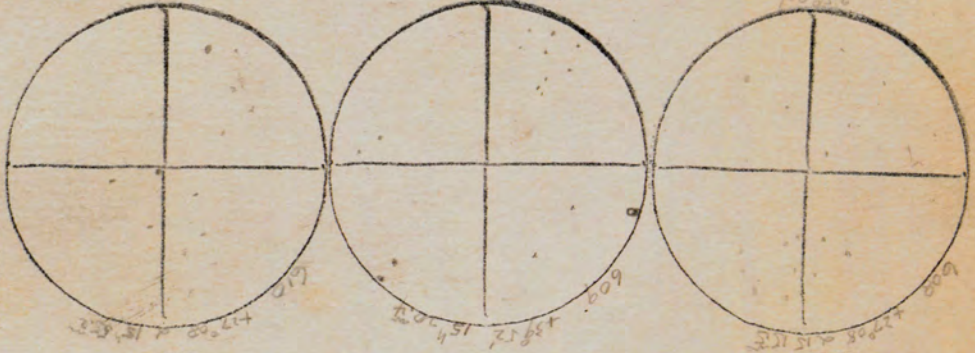
(657) Du

Aug 5

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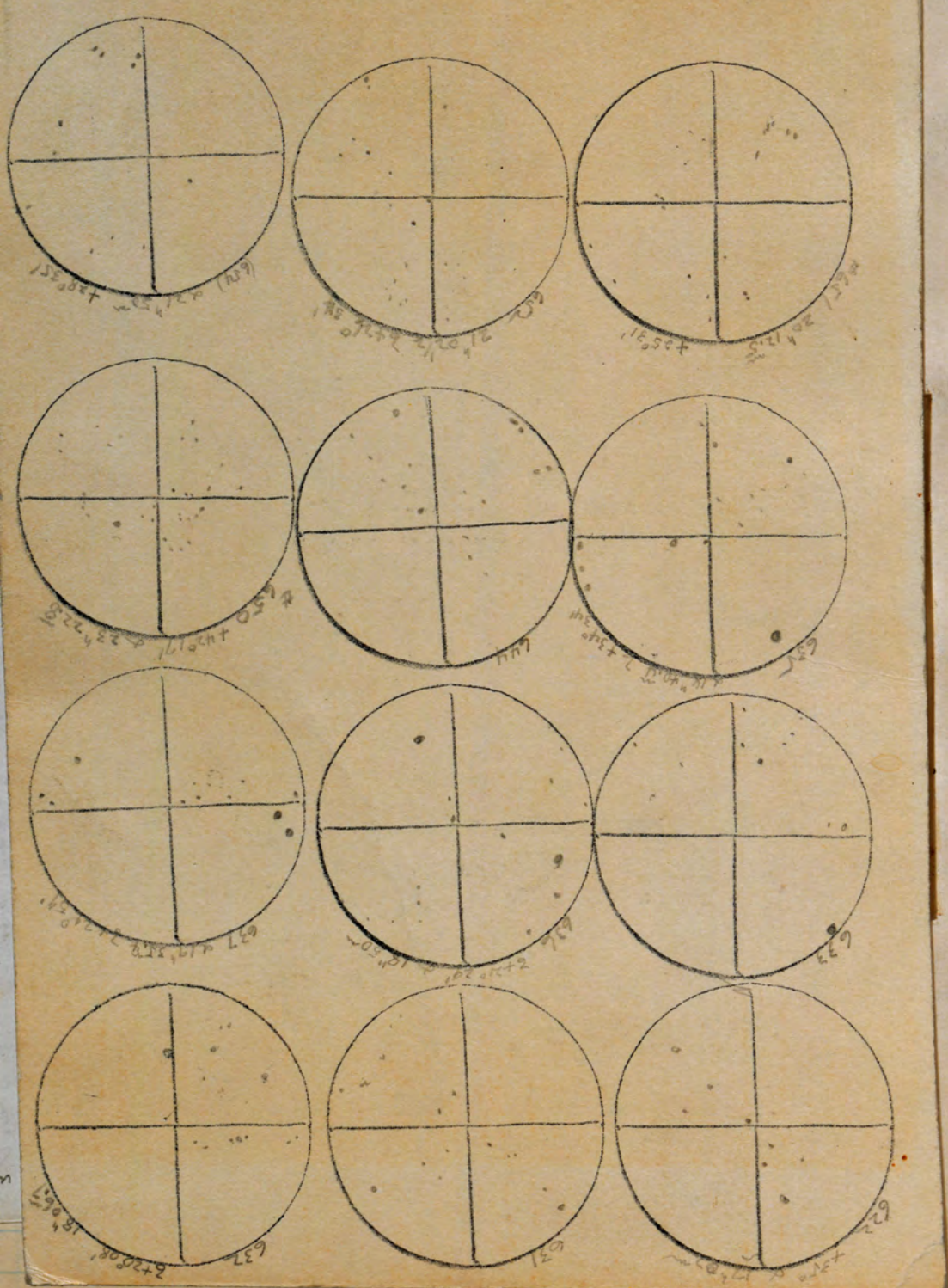


SEARCH PROGRAM PLATES

Region (1940)	Act. Settings	A - 1 I (1359)	A - 2 I (1360)	A - 3 I (1361)	
6 ^m Star (1359) α 15 ^h 16.5 ^m δ +52° 02' 15 ^h 14.3 ^m +51° 12' } set		Exp: 12 ^h 00 ^m 00 ^s to 13 ^h 00 ^m 00 ^s H.A. 0 ^h 46 ^m E Trans. good, Stead V. good April 20, 1939	April 23 11 ^h 33 ^m 00 ^s to 12 ^h 33 ^m 00 ^s H.A. 1 ^h 04 ^m E Trans good, Stead good	April 26 13 ^h 53 ^m 00 ^s to 14 ^h 53 ^m 00 ^s H.A. 1 ^h 30 ^m W Trans good, Stead Fair	Poor emulsion full of holes etc. Old plates Em. 3 7088 B
Fish for star α 16 ^h 14.5 ^m δ +51° preferably < β α 16 ^h 15.2 ^m +50° 50'		1362 holder III May 16 11 23 00 - 12 23 00 0 ^h 43 ^m E end Good-, good Stead	1363 III May 18 12 03 00 to 13 03 00 0 05 ^m W good, (Stead good)	1364 III May 21 11 23 00 to 12 25 00 0 ^h 21 ^m E good- Stead Fair.	new emulsion used # 8 7310 8810 87203 14117
6 ^m Star 74 Nor. α 17 ^h 14.5 ^m δ +47° 24' α α 17 ^h 14.5 ^m δ +46° 51' } set		1365 I June 10 11 ^h 11 ^m 00 to 12 ^h 11 ^m 00 0 ^h 15 ^m E Trans good, good.	1366 I June 12 10 44 55 to 11 44 55 0 ^h 34 ^m E good, (Stead good)	1368 III June 14 10:40:00 to 11:40:00 0 ^h 31 ^m E good, Stead, Trans good	
Fish for star at α 18 ^h 13 ^m δ +43° 50' preferably < β α 18 ^h 12.0 ^m δ +43° 20'		1367 III June 12 12 05 00 to 13 05 00 0 ^h 10 ^m E Trans good, Stead, Fair, Pen Fin	1369 I June 14 11:48:00 to 12:48:00 0 ^h 20 ^m E Trans good, Stead good	1370 I June 17 11 ^h 30 ^m 00 to 12 ^h 30 ^m 00 0 26 ^m 1/2 E Trans good Stead good.	no Hammer Plates left for 5 ^h ✓ Plates
α 19 ^h 00.5 to 19 ^h 05 ^m δ +48° 00' set { α 18 ^h 59.8 ^m +47° 59'		1371 III June 17 12 45 00 to 13 45 00 0 ^h 01 ^m W Trans good, Stead good.	1372 III June 20 12 08 00 to 13 08 00 0 24 ^m E Trans. good, Stead good -	1373 III June 22 13 ^h 40 ^m 00 to 14 ^h 00 ^m 00 H.A. 0 ^h 36 ^m W Trans good Stead, good -	#1373 doubled images because axis ality OK for ✓
α 19 ^h 55.5 ^m δ +48° 00'					
α 20 ^h 35.5 ^m δ +38° 20'					
α 20 ^h 47 ^m					

These 4 regions made on defective plates

27 Signet Va 2+51° 20'
 30 #918
 00 #914



(657) Bunkhod & (1950.0) 8
 Aug 5 20^h 37^m 17^s -15° 18'
 13 20 30.0 -15 23
 21 20 23.1 -15 27
 mag. 13^m 7

