

13-inch Record Book.

Vol. IV

F.K. Edmondson : 1935 - April 27, 1935

C.W. Tomblough : Aug. 12, 1936 - June 6
Returns to Vol. II p. 114. 1942

$$\frac{250}{1} = \frac{x}{62,500}$$

$$x = 15,625,000$$

Period = 4000 yrs

Planet suspects
 3/4 size of Pluto
 #1.

25
 25
 125
 50
 625.00
 625
 25
 3125
 1250
 15,625

Annual motion = $\frac{4 \sqrt{360}}{.090} = \frac{1}{10}$ degree = 3 mm. on plate

Daily motion near opposition = $\frac{91.66}{.07} = .07$ mm.

20 days = 1.4 mm back west

So object will be almost exactly in same star field

45° from Ecliptic

50 days = 3.5 mm. back west

Oct. 10, object exactly in same star field

plate
 envelope.
 cut.

Suspect no. 2. shift almost exactly that of Pluto.

Annual motion = $1.4 = 42$ mm.

30 days additional retrograding = 16 mm.

On Sept. 20, the object will be 26 mm. (25 mm) east of the Aug. 21, 1938 position

on Oct. 10, object will be 16 mm. east of 43° from Ecliptic

different
 made
 set one
 lunation,
 of this

8x10 plates lengthwise north and south

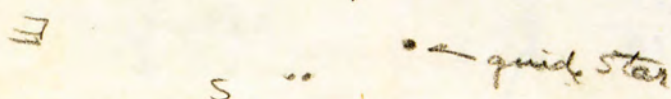
If an 8x10 plate is centered at:

R.A. = 21h 47m ± 6m

DECL. = +32° 10' ± 5'

it will encompass Suspects: 1, 2, & 3.

} there is a yellowish or reddish star 10 or 11th mag very near the central position



Copper tone -

9:15' Blueish gray toward sun lit side. Then into
A copper tone. West edge yellowish about
3 min after totality. Pinkish tone
9:20 NW limb yellowish some what
10:30 Putting ~~blues~~ pinkish around Tycho

$10\frac{1}{2}$
 $10\frac{3}{4}$
 $3\frac{1}{2}$

~~2:11. Theophanes pinkish~~

~~Crater ...~~

~~10:15 ... ated portion appeared~~

~~Pink ...~~

$+28^{\circ} 35'$
 $3^{\circ} 35'$

 $32 10$

E - Examined

A = Asteroid positions measured

Old Astronomical Slay used
Thru-out.

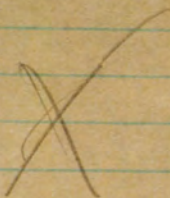
H. P. = Hammer Press ultra Rapid Plate

W. H. = Wallace Hydrochinon Developer.
- cut.

Series: plates of the same region bearing a different letter indicate that they were ~~not~~ made in the same lunation.

Example: B-2 signifies that there is at least one plate made of the region in a previous lunation, and that this is the 2nd plate taken of this region in a second lunation.

PAGES 1-3
ARE BLANK



Negative

No.	Serial	Guide Star	Region			1935			Hour Angle at End of Exposure	Camera	Plate Emulsion	Seeing		Development			Telescope East or West	Writing North or South	Observer	* Developed by A.M. Rojas.
			α	δ	Date	Time	Ret	Steadiness				Transp.	Developer	Temp.	Time	Remarks:				
X-454	B-1	5 th mag star	9 ^h 19 ^m	-25° 40'	Mar. 24	8:43-9:43	1 ^{hr}	5 ^m W	13" 5"	H.P.	2-1	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-455	B-1	7 th mag star	10 ^h 1 ^m	-28° 10'	Mar. 24	9:48-10:48	1 ^{hr}	25 ^m + W	13" 5"	H.P.	2	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-456	B-1	6 th mag star	10 ^h 40 ^m	-32° 20'	Mar. 24	11:09-12:09	1 ^{hr}	1 ^h 10 ^m W	13" 5"	H.P.	2-1	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-457	B-2	5 th mag star	9 ^h 19 ^m	-25° 40'	Mar. 25	8:37-9:37	1 ^{hr}	0 ^m + W	13" 5"	H.P.	2	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-458	B-2	7 th mag star	10 ^h 1 ^m	-28° 10'	Mar. 25	9:41-10:41	1 ^{hr}	25 ^m W	13" 5"	H.P.	2-3	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-459	B-2	6 th mag star	10 ^h 40 ^m	-32° 20'	Mar. 25	11:00-12:00	1 ^{hr}	1 ^h 5 ^m W	13" 5"	H.P.	2-3	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	70°	"	"	"	"	"	*
X-460	B-3	5 th mag star	9 ^h 19 ^m	-25° 40'	Mar. 26	8:31-9:31	1 ^{hr}	0 ^m ±	13" 5"	H.P.	3-2	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-461	B-3	7 th mag star	10 ^h 1 ^m	-28° 10'	Mar. 26	9:38-10:38	1 ^{hr}	25 ^m W	13" 5"	H.P.	3	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	70°	"	"	"	"	"	*
X-462	B-3	6 th mag star	10 ^h 40 ^m	-32° 20'	Mar. 26	10:57-11:57	1 ^{hr}	1 ^h 5 ^m W	13" 5"	H.P.	2-3	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	70°	"	"	"	"	"	*
X-463	A-1	6 th mag star	10 ^h 4 ^m	-16° 50'	Mar. 27	9:46-10:46	1 ^{hr}	35 ^m W	13" 5"	H.P.	3-2	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-464	A-1	9 th mag star	10 ^h 41 ^m	-21° 5'	Mar. 27	10:56-11:56	1 ^{hr}	1 ^h 10 ^m W	13" 5"	H.P.	3-2	Good	W.H.	70°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	*
X-465	A-2	6 th mag star	10 ^h 4 ^m	-16° 50'	Mar. 28	9:52-10:52	1 ^{hr}	45 ^m W	13" 5"	H.P.	3	Good	W.H.	69°	10 ^m	W	N	FHE		
"	"	"	"	"	"	"	"	"	"	"	"	"	"	70°	"	"	"	"	"	*

1/2 hr of moonlight

EVERY OTHER 2 PAGES IN
THIS BOOK ARE BLANK
STARTING WITH PAGES 6-7

Negative		Region			1935 Exposure		Hour Angle at End of Exposure	Plate	Seeing		Development			Telescope	Writing	Observer	Remarks:	
No.	Series	Guide Star	α	δ	Date	Time	Alt	Camera	Emulsion	Steadiness	Transp.	Developer	Temp.	Time	East on West	North on South		
X-478	A-2	6 th mag star	13 ^h 43 ^m	-35° 50'	Apr. 25	11:56-12:58	1 ^m	13"	H.P.	2-0	Good	W.H.	70°	10 ^m	W	N	THE	
"	"	"	"	"	"	"	"	5"	"	"	"	"	"	"	"	"	"	*
X-479	A-3	8 th mag star	12 ^h 56 ^m	-35° 15'	Apr. 27	10:49-11:49	1 ^m	13"	H.P.	3-1	Good	W.H.	70°	10 ^m	W	N	THE	
"	"	"	"	"	"	"	"	5"	"	"	"	"	"	"	"	"	"	"
X-480	A-3	6 th mag star	13 ^h 43 ^m	-35° 50'	Apr. 27	11:53-12:58 12:44-13:19	1 ^h 20 ^m	13"	H.P.	2	Good-Poor	W.H.	70°	10 ^m	W	N	THE	
"	"	"	"	"	"	"	"	5"	"	"	"	"	"	"	"	"	"	"
								The following plates were received March 11, 1935		no 6297 (5X10's) were received July 30, 1936								
								no. 5803										
1100	A-1	6 th mag star	20 ^h 41 ³ / ₃ ^m	-39° 19'	1936 Aug. 12	11:18-12:08	0 ^h 50 ^m	13-inch	5803 H.P.	2-4	good	W.H.	73-68	10 ^m	W.	N.	CWT.	good plate
1100	"	"	"	"	"	"	"	5" Cog.	6297	"	"	"	73-67	12 ^m	"	"	"	very good plate
1101	A-2	6 th mag star	20 ^h 41 ³ / ₃ ^m	-39° 19'	Aug. 20	10:47-11:47	1 ^h 00 ^m	13-inch	5803 H.P.	1-3	fairly	W.H.	75-67	10 ^m	W	N.	CWT.	good plate
1101	"	"	"	"	"	"	"	5" Cog.	6297	"	"	"	75-67	12 ^m	"	"	"	good plate
1102	A-1	9 th mag star	19 ^h 43 ³ / ₃ ^m	-41° 00'	Aug. 21	9:20-10:20	1 ^h 00 ^m	13-inch	5803 H.P.	2	good	W.H.	75-66	10 ^m	W.	N.	CWT.	good plate
1102	A-1	"	"	"	"	"	"	5" Cog.	6297	"	"	"	76-67	12 ^m	"	"	"	good plate
1103	A-3	6 th mag star	20 ^h 41 ³ / ₃ ^m	-39° 19'	Aug. 21	10:43-11:43	1 ^h 00 ^m	13-inch	5803 H.P.	2	good	W.H.	76-67	10 ^m	W.	N.	CWT.	good plate
1103	"	"	"	"	"	"	"	5" Cog.	6297	"	"	"	76-67	12 ^m	"	"	"	good plate
1104	A-2	9 th mag star	19 ^h 43 ³ / ₃ ^m	-41° 00'	Aug. 22	9:16-10:16	1 ^h 00 ^m	13-inch	5803 H.P.	1	good	W.H.	76-66	10 ^m	W.	N.	CWT.	cracked in two
1104	"	"	"	"	"	"	"	5" Cog.	6297	"	"	"	76-70	12 ^m	"	"	"	good plate
1105	A-3	9 th mag star	19 ^h 43 ³ / ₃ ^m	-41° 00'	Aug. 23	9:45-10:45	1 ^h 00 ^m	13-inch	5803 H.P.	2-4	good, film smoky?	W.H.	76-67	10 ^m	W.	N.	CWT.	10 ^m moonlight
1105	"	"	"	"	"	"	"	5" Cog.	6297	"	"	"	77-71	12 ^m	"	"	"	good plate
1106	A-1	7 th mag star at:	22 ^h 26 ^m	+21° 10'	Sept. 6	9:30-10:35	1 ^h 05 ^m	13-inch	5803 H.P.	2-5	good	W.H.	77-65	10 ^m	W.	N.	CWT.	good plate
1106	"	"	"	"	"	"	"	5" Cog.	6297	"	"	"	77-69	10 ^m	"	"	"	good plate
								Sept. 7 -> 13-inch objective had lint + dust brushed off.										

No. Series

Guide Star

Region α δ

1936 Date

Exposure Time Net

Hour Angle at End of Exposure

Camera

Plate Emulsion

Seeing Steadiness Transp.

Development Developer Temp. Time

Telescope East of West

Writing North or South

Observer

Remarks

No.	Series	Guide Star	Region α	δ	1936 Date	Exposure Time	Net	Hour Angle at End of Exposure	Camera	Plate Emulsion	Seeing	Steadiness	Transp.	Development Developer	Temp.	Time	Telescope East of West	Writing North or South	Observer	Remarks
1107	A-2	7th mag star	22 ^h 26 ^m	+21° 10'	Sept. 11	9:11-10:11	1 ^h 00 ^m	1:19 E.	13-inch 5" Coq.	5803 H.P. 6297	3-4	good	Wallace Hydro	77-67	10 ^m	W.	N.	Edson	good plate	
1107	"	"	"	"	"	"	"	"	"	"	"	"	"	76-68	10 ^m	"	"	"	good plate	
1108	A-1	7th mag. star	21 ^h 54 ^m	-44° 11'	Sept. 11	10:54-11:49	0 ^h 55 ^m	0 ^h 51 ^m W.	13-inch 5" Coq.	5803 H.P. 6297	1-2	good + poor at last	W. H.	77-67	10 ^m	W.	N.	CWT.	jumped in Deel images on south side of field, stars good otherwise	
1108	"	"	"	"	"	"	"	"	"	"	"	"	"	76-68	10 ^m	"	"	"	5" good plate	
1109	A-3	7th mag. star	22 ^h 26 ^m	+21° 10'	Sept. 13	10:28-11:28	1 ^h 00 ^m	0 ^h 07 ^m W.	13-inch 5" Coq.	5803 H.P. 6297	1-3	good	W. H.	77-65	10 ^m	W.	N.	CWT.	cracked in two good images	
1109	"	"	"	"	"	"	"	"	"	"	"	"	"	79-67	10 ^m	"	"	"	good plate	
1110	A-1	7th mag. star	22 ^h 51 ³ ^m	-41° 20'	Sept. 13	10:54-12:56	1 ^h 02 ^m	1 ^h 08 ^m W.	13-inch 5" Coq.	5803 H.P. 6297	0-1	good	W. H.	77-66	10 ^m	W.	N.	CWT.	good plate	
1110	"	"	"	"	"	"	"	"	"	"	"	"	"	79-67	10 ^m	"	"	"	good plate	
1111	A-1	13 Pegasi	21 ^h 46 ^m 48 ^s	+16° 57.5'	Sept. 14	9:39-10:39	1 ^h 00 ^m	0 ^h 00 ^m	13-inch 5" Coq.	5803 H.P. 6297	3	good	W. H.	79-66	10 ^m	W.	N.	CWT.	good plate	
1111	"	"	"	"	"	"	"	"	"	"	"	"	"	79-66	10 ^m	"	"	"	good plate	
1112	A-2	7th mag. star	21 ^h 54 ^m	-44° 11'	Sept. 14	10:47-11:42	0 ^h 55 ^m	0 ^h 56 ^m W.	13-inch 5" Coq.	5803 H.P. 6297	1	good	W. H.	79-66	10 ^m	W.	N.	CWT.	good plate	
1112	"	"	"	"	"	"	"	"	"	"	"	"	"	76-70	10 ^m	"	"	"	good plate	
1113	A-1	60 Pegasi	23 ^h 08 ^m 25 ^s	+26° 35'	Sept. 14	12:35-13:35	1 ^h 00 ^m	1 ^h 35 ^m W.	13-inch 5" Coq.	5803 H.P. 6297	3-4	good	W. H.	79-66	10 ^m	W.	N.	CWT.	good plate	
1113	"	"	"	"	"	"	"	"	"	"	"	"	"	79-66	10 ^m	"	"	"	good plate	
1114	A-2	7th mag. star	22 ^h 51 ³ ^m	-41° 20'	Sept. 15	11:45-12:47	1 ^h 02 ^m	1 ^h 07 ^m W.	13-inch 5" Coq.	5803 H.P. 6297	0-1	good	W. H.	79-65	10 ^m	W.	N.	CWT.	good plate	
1114	"	"	"	"	"	"	"	"	"	"	"	"	"	78-66	10 ^m	"	"	"	good plate	
1115	A-1	8th mag. star	0 ^h 01 ^m	+29° 50'	Sept. 15	13:05-14:05	1 ^h 00 ^m	1 ^h 17 ^m W.	13-inch 5" Coq.	6372 new (received Aug. 25, 1936) H.P. 6297	3-4	good	W. H.	76-66	10 ^{1/2} ^m	W.	N.	CWT.	good plate	
1115	"	"	"	"	"	"	"	"	"	"	"	"	"	78-66	10 ^m	"	"	"	good plate	
1116	A-2	13 Pegasi	21 ^h 46 ^m 48 ^s	+16° 57.5'	Sept. 16	8:48-9:48	1 ^h 00 ^m	0 ^h 38 ^m E.	13-inch 5" Coq.	5803 old H.P. 6297	2-3	good? not fair?	W. H.	77-67	10 ^m	W.	N.	CWT.	good plate	
1116	"	"	"	"	"	"	"	"	"	"	"	"	"	80-66	10 ^m	"	"	"	good plate	
1117	A-3	7th mag. star	21 ^h 54 ^m	-44° 11'	Sept. 16	10:39-11:38	0 ^h 59 ^m	1 ^h 00 ^m W.	13-inch 5" Coq.	5803 old H.P. 6297	1	fair	W. H.	79-67	10 ^m	W.	N.	CWT.	good plate	
1117	"	"	"	"	"	"	"	"	"	"	"	"	"	80-67	10 ^m	"	"	"	good plate	
1118	A-2	60 Pegasi	23 ^h 08 ^m 25 ^s	+26° 35'	Sept. 16	11:54-12:54	1 ^h 00 ^m	1 ^h 02 ^m W.	13-inch 5" Coq.	6372 new (received Aug. 25, 1936) H.P. 6297	1-3	good	W. H.	78-66	12 ^m	W.	N.	CWT.	del. jumped, companion cracked in two	
1118	"	"	"	"	"	"	"	"	"	"	"	"	"	80-67	10 ^m	"	"	"	"	
1119	A-2	8th mag. star	0 ^h 01 ^m	+29° 50'	Sept. 17	11:10-11:30	0 ^h 20 ^m	"	13-inch 5" Coq.	6372 new H.P. 6297	2-4	fair + poor cut off by haze	W. H.	80-68	11 ^m	W.	N.	CWT.	good plate	
1119	"	"	"	"	"	"	"	"	"	"	"	"	"	75-66	10 ^m	"	"	"	short good plate	

Negative		Region			1936 Date	Exposure		Hour Angle at End of	Plate Emul- sion	Seeing		Development			Telescope East or West	Writing North or South	Observer	Remarks:	
No.	Series	Guide Star	α	δ		Time	Net	Exposure		Camera	Steadiness	Transparency	Developer	Temp.					Time
1120	A-3	60 Pegasi	23 ^h 08 ^m 25 ^s	+26° 35'	Sept. 21	11:45-13:05	1 ^h 20 ^m	1 ^h 33 ^m W.	13-inch 5" Coq.	6372 new H.P.	2-4	fair	Wallace High	80-73	10 ^m	W.	N.	CWT. <i>extra</i>	good plate sky fog no moon good plate
1121	A-3	8th mag star	0 ^h 01 ^m	+29° 50'	Sept. 22	11:50-12:50	1 ^h 00 ^m	0 ^h 30 ^m W.	13-inch 5" Coq.	6372 new H.P.	3	good	W. H.	78-68	11 ^m	W.	N.	CWT.	Excellent plate good plate
1122	A-4	8th mag star	0 ^h 01 ^m	+29° 50'	Sept. 24	13:04-14:04	1 ^h 00 ^m	1 ^h 51 ^m W.	13-inch 5" Coq.	6372 new H.P.	2-4	good	W. H.	78-69	11 ^m	W.	N.	CWT.	good plate fogged by dome, red light
1123	A-1	6th mag star	0 ^h 53 ^m	+34° 57'	Oct. 6	9:32-11:02	1 ^h 30 ^m	1 ^h 15 ^m E.	13-inch 5" Coq.	6372 new H.P.	1-3 NE wind	good	W. H.	77-70	10 ^m	W.	N.	CWT.	beautiful good plate dome at top corner good plate
1124	A-1	6.3 mag star	1 ^h 45.0	+37° 40'	Oct. 7	10:20-12:20	2 ^h 00 ^m	0 ^h 45 ^m E.	13-inch 5" Coq.	6372 new H.P.	0-3 NE wind	good	W. H.	76-70	10 ^m	W.	N.	CWT.	good plate good plate
1125	A-2	6th mag star	0 ^h 53 ^m	+34° 57'	Oct. 8	10:20-11:50	1 ^h 30 ^m	0 ^h 19 ^m E.	13-inch 5" Coq.	6372 new H.P.	5	good	W. H.	77-77	10 ^m	W.	N.	CWT.	good plate good plate
1126	A-2	6.3 mag star	1 ^h 45.0	+37° 40'	Oct. 9	10:08-12:08	2 ^h 00 ^m	0 ^h 49 ^m E.	13-inch 5" Coq.	6372 new H.P.	4	good	W. H.	76-70	11 ^m	W.	N.	CWT.	good plate good plate
1127	A-3	6th mag star	0 ^h 53 ^m	+34° 57'	Oct. 10	9:40-11:40	2 ^h 00 ^m	0 ^h 21 ^m E.	13-inch 5" Coq.	6372 new H.P.	4-5	good	W. H.	75-70	11 ^m	W.	N.	CWT.	good plate good plate
1128	A-3	6.3th mag star	1 ^h 45.0	+37° 40'	Oct. 13	9:31-12:31	3 ^h 00 ^m	0 ^h 10 ^m E.	13-inch 5" Coq.	6372 new H.P.	4-3	murky fair or faint?	W. H.	76-70 probably = 70?	10 ^m	W.	N.	CWT.	good plate good plate
1129	A-1	6th mag star	2 ^h 32 ^m 3 ^s	+42° 10'	Nov. 6	10:15-11:45	1 ^h 30 ^m	0 ^h 10 ^m E.	13-inch 5" Coq.	6415 H.P.	3	Very good	W. H.	74-68	10 ^m	W.	N.	CWT.	Very good plate nuclear trail good plate
1130	A-1	7th mag star at	3 ^h 59 ^m 3 ^s	-34° 31'	Nov. 6	12:23-13:23	1 ^h 00 ^m	0 ^h 02 ^m W.	13-inch 5" Coq.	6415 H.P.	1-2	very good	W. H.	74-68	10 ^m	W.	N.	CWT.	good plate 6 days from moonlight good plate
1131	A-2	6th mag star at	2 ^h 32 ^m 3 ^s	+42° 10'	Nov. 9	10:15-11:45	1 ^h 30 ^m	0 ^h 02 ^m W.	13-inch 5" Coq.	6415 H.P.	2-3	good	W. H.	74-68	10 ^m	W.	N.	CWT.	good plate good plate
1132	A-2	7th mag star at	3 ^h 59 ^m 3 ^s	-34° 31'	Nov. 9	12:11-13:11	1 ^h 00 ^m	0 ^h 02 ^m W.	13-inch 5" Coq.	6415 H.P.	2-1-0	very good	W. H.	74-67	10 ^m	W.	N.	CWT.	good plate good plate

note → Dr. V. M. Slipher washed the front surface of the crown element of the 7-inch objective of the guide telescope on the 13-inch Oct. 28, 1936 4:30 P.M.

682 nitules on plate! a record as far (Oct 23, 1936)

6415 (revised Oct 8, 1936; thin glass)

6415 (revised Oct 8, 1936; thin glass)

No.		Region			1936	Exposure		Hour Angle at End of Exposure	Plate	Seeing		Development			Telescope	Writing	Observer	Remarks		
No.	Series	Guide Star	α	δ	Date	Time	Net		Camera	Emulsion	Steadiness	Transparency	Developer	Temp.	Time	East or West	North or South			
1148	A-3	8th mag. star	4h 47m	-31° 28'	Dec. 17	9:51-11:51	2h 00m	0h 25m W.	13-inch	H.P.	0-3	fair	W.H.	78-69	12m	W.	N.	CWT.	good plate	
1148	"	"	"	"	"	"	"	"	5" Cog.	Imperial	"	poor long patches thin Milky	"	77-72	12m	"	"	"	"	good plate
1149	B-2	δ Caeli	4h 28.3m	-44° 57'	Dec. 18	10:15-11:35	1h 20m	0h 29m W.	5" Cog	H.P.	0-1	much haze fair good	W.H. at first	78-69	11m	W.	N.	CWT.	good plate	
1150	A-2	n Columbae	5h 57m	-42° 41'	Dec. 18	11:55-12:55	1h 00m	0h 21m W.	5" Cog	H.P.	0-1	good	W.H.	78-69	11m	W.	N.	CWT.	good plate	
1151	A-3	8th mag. star	6h 27.2m	-31° 02'	Dec. 20	12:05-13:20	1h 15m	0h 24m W.	13-inch	H.P.	3	haze good	W.H.	77-70	11m	W.	N.	CWT.	good plate	
1151	"	"	"	"	"	"	"	"	5" Cog	H.P.	"	fair good	"	76-72	11m	"	"	"	good plate	
1152	A-1	9th mag. star at	7h 14.3m	-32° 50'	1937	12:13-12:25	0h 05m	0h 05m W.	13-inch	H.P.	2-3	good	new dev. W.H.	78-68	10m	W.	N.	CWT.	considerable diff. good plate	
1152	"	"	"	"	Jan. 10	11:10-12:25	1h 15m	"	5" Cog.	H.P.	"	"	"	78-66	10m	"	"	"	good plate	
1153	A-2	9th mag. star at	7h 14.3m	-32° 50'	Jan. 14	10:54-12:15	1h 21m	0h 10m W.	13-inch	H.P.	0-3	good	W.H.	78-65	10m	W.	N.	CWT.	not climbable with fair plate	
1153	"	"	"	"	"	"	"	"	5" Cog.	Imperial	"	"	"	78-66	10m	"	"	"	soft images from instability. good plate	
1154	A-3	9th mag. star at	7h 14.3m	-32° 50'	Jan. 15	11:00-12:20	1h 20m	0h 19m W.	13-inch	H.P.	2-3	good	W.H.	80-63	10m	W.	N.	CWT.	much better than the first plate	
1154	"	"	"	"	"	"	"	"	5" Cog.	H.P.	"	"	"	80-70	10m	"	"	"	good plate	
1155	A-1	9th mag. star at	8h 3.3m	-34° 29'	Feb. 1	10:45-11:55	1h 00m	0h 11m W.	13-inch	H.P.	2-3	good	W.H.	78-68	10m	W.	N.	CWT.	good plate	
1155	"	"	"	"	"	"	"	"	5" Cog.	H.P.	"	poor good	"	79-72	10m	"	"	"	good plate	
1156	A-1	3rd mag O Puppis	7h 27.4m	-43° 01'	Feb. 2	10:30-11:15	0h 45m	0h 13m W.	5" Cog only	H.P.	1-3	good poor fair	W.H.	79-66	10m	W.	N.	CWT.	weak	
1157	A-2	O Puppis	7h 27.4m	-43° 01'	Feb. 3	10:14-11:30	1h 16m	0h 32m W.	5" Cog only	H.P.	0-2	fair from the first	W.H.	79-66	10m	W.	N.	CWT.	fairly good?	
1158	A-3	O Puppis	7h 27.4m	-43° 01'	Feb. 9	9:52-10:52	1h 00m	0h 17m W.	5" Cog only	H.P.	-1 to +1	NE wind good	W.H.	79-68	10m	W.	N.	CWT.	good plate	
1159	A-1	8th mag. star	8h 54m	-36° 47'	Feb. 9	11:07-12:12	1h 05m	0h 11m W.	13-inch	H.P.	0-1	lull in wind good	W.H.	79-70	10m	W.	N.	CWT.	images a little soft	
1159	"	"	"	"	"	"	"	"	5" Cog.	H.P.	"	"	"	79-68	10m	"	"	"	fair plate fringed at W. end good plate	
1160	A-2	9th mag. star	8h 3.3m	-34° 29'	Feb. 10	10:15-10:45	0h 30m	about 0h 15m E.	13-inch	H.P.	1-2	good first poor then from cut off	W.H.	77-68	11m	W.	N.	CWT.	good images, but cut short by haze	
1160	"	"	"	"	"	"	"	"	5" Cog.	H.P.	"	"	"	80-75	11m	"	"	"	"	
1161	A-4	O Puppis	7h 27.4m	-43° 01'	Feb. 12	9:45-10:45	1h 00m	0h 22m W.	5" Cog only	H.P.	1-3	fairly good	W.H.	79-67	10m	W.	N.	CWT.	good plate	

32 Negative		Region			1937	Exposure		Hour Angle	Camera or	Plate	Seeing:		Development			Tel-	Writ-	Obser-	33
No.	Series	Guide Star	R.A.	DECL	Date	Time	Net	at end of Exposure	Instrument	Emul-sion	Stead	Transp	Dev.	Temp.	Time	scope East or West of axis	ing at North or South end of p	ver	Remarks
1162 ^E	A-2	8th mag. star	8 ^h 54 ^m	-36° 47'	Feb. 12	10:56-12:00	1 ^h 04 ^m	0 ^h 10 ^m W.	13-inch	⁶⁴¹⁵ H.P.	1-2	fair	W.H.	78-66	10 ^m	W.	N.	CWT.	good plate
1162	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	79-67	10 ^m	"	"	"	good plate
1163 ^E	A-3	8th mag. star	8 ^h 54 ^m	-36° 47'	Feb. 16	12:20-13:20	1 ^h 00 ^m	1 ^h 47 ^m W.	13-inch	⁶⁴¹⁵ H.P.	1-2	good	W.H.	77-68	10 ^m	W.	N.	CWT.	good plate (re- Sveconer - Kessner difficult refraction from early 40s)
1163	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	78-72	10 ^m	"	"	"	good plate
1164 ^E	B-1	9th mag. star	7 ^h 57 ^m	-35° 00'	March 2	8:53-9:53	1 ^h 00 ^m	0 ^h 11 ^m W.	13-inch	⁶⁴¹⁵ H.P.	4-5	good	W.H.	78-66	10 ^m	W.	N.	CWT.	(some diff. marks)
1164	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	79-67	10 ^m	"	"	"	good plate
1165	A-1	6th mag. star	9 ^h 02 ^m	-46° 41'	March 2	10:03-11:03	1 ^h 00 ^m	0 ^h 16 ^m W.	5" Cog (only)	⁶⁴⁵⁷ H.P.	1-3	good	W.H.	79-67	10 ^m	W.	N.	CWT.	good plate
1166 ^E	A-1	9th mag. star	9 ^h 47 ^m	-36° 48'	March 4	10:06-11:06	1 ^h 00 ^m	0 ^h 18 ^m E.	13-inch	⁶⁴¹⁵ H.P.	1-2	very good	more fresh added W.H.	78-66	11 ^m	W.	N.	CWT.	(diff. marks)
1166	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	NE or W. side	"	79-67	10 ^m	"	"	"	good plate
1167	A-1	α Velorum	10 ^h 19 ^m 3 ^s	-41° 11'	March 4	11:18-12:18	1 ^h 00 ^m	0 ^h 21 ^m W.	5" Cog (only)	⁶⁴⁵⁷ H.P.	0-1	more NE side very good	W.H.	79-67	10 ^m	W.	N.	CWT.	good plate
1168 ^E	B-2	9th mag. star	7 ^h 57 ^m	-35° 00'	March 5	8:43-9:43	1 ^h 00 ^m	0 ^h 13 ^m W.	13-inch	⁶⁴¹⁵ H.P.	1-3	good	more fresh added W.H.	83-66	11 ^m	W.	N.	CWT.	good plate
1168	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	78-70	10 ^m	"	"	"	good plate
1169 ^E	A-2	7th mag. star	9 ^h 47 ^m	-36° 48'	March 7	9:54-10:54	1 ^h 00 ^m	0 ^h 18 ^m E.	13-inch	⁶⁴¹⁵ H.P.	1-3	very good	W.H.	80-68	11 ^m	W.	N.	CWT.	good plate
1169	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	80-72	11 ^m	"	"	"	good plate
1170	C-1	8th mag. star	8 ^h 15 ^m 3 ^s	+21° 47'	March 8	8:22-9:22	1 ^h 00 ^m	0 ^h 14 ^m E.	13-inch	⁶⁴¹⁵ H.P.	4	good	W.H.	77-67	10 ^m	W.	N.	CWT.	good plate
1170	B-1	(near 42 Cancer) α 163777	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	80-72	10 ^m	"	"	"	good plate
1171	B-1	6th mag. star	9 ^h 47 ^m	-36° 48'	March 29	8:15-9:15	1 ^h 00 ^m	0 ^h 30 ^m E.	13-inch	⁶⁴¹⁵ H.P.	2	fair	W.H.	82-73	10 ^m	W.	N.	CWT.	good plate
1171	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	78-74	10 ^m	"	"	"	good plate
1172	B-1	6th mag. star at	9 ^h 02 ^m	-46° 41'	March 31	8:20-9:20	1 ^h 00 ^m	0 ^h 28 ^m W.	5" Cog only	⁶⁴⁵⁷ H.P.	1-2	fair	W.H.	77-67	10 ^m	W.	N.	CWT.	good plate
1173	B-1	α Velorum	10 ^h 19 ^m 3 ^s	-41° 11'	March 31	9:28-10:28	1 ^h 00 ^m	0 ^h 18 ^m W.	5" Cog only	⁶⁴⁵⁷ H.P.	2-3	fair	W.H.	77-67	10 ^m	W.	N.	CWT.	good plate
1174 ^E	A-1	5th mag. star at	11 ^h 38 ^m	-42° 35'	April 2	10:30-11:35	1 ^h 05 ^m	0 ^h 15 ^m W.	5" Cog only	⁶⁴⁵⁷ H.P.	1	fair	W.H.	77-73	10 ^m 1/2	W.	N.	CWT.	good plate
1175	A-1	7th mag. star at	13 ^h 17 ^m	-46° 21'	April 4	11:11-12:04	0 ^h 53 ^m net about 45 ^m	0 ^h 47 ^m E.	13-inch	⁶⁴¹⁵ H.P.	1-2	fair good 35 fair 10 poor net usually cut off	W.H.	82-70	11 ^m	W.	N.	CWT.	shows α Centauri! fair plate
1175	"	"	"	"	"	"	"	"	5" Cog.	⁶⁴⁵⁷ H.P.	"	"	"	79-74	11 ^m	"	"	"	fair plate

Decl. is 2' more on next page # 1190-1188

Negative		Region			1937 date	Exposure		Hour Angle at end of Exposure	Instrument	Plate Emulsion	Seeing		Development			Tale-cup East or West of axis	Writing at North or South end of Plate	Observer	Remarks
No.	Series	Guide Star	RA	DECL.		Time	net				Stead	Transp.	Dev.	Temp	Time				
1176	B-2	6th mag. star	9h 02m	-46° 41'	April 7	8:05-9:05	1h 00m	0h 40m W.	5" Coq. only	6457 H.P.	0-1	fair-	W.H.	79-68	11m	W.	N.	CWT.	good plate
1177	B-2	r Velorum	10h 19 2/3m	-41° 11'	April 7	9:15-10:15	1h 00m	0h 32m W.	5" Coq. only	6457 H.P.	1-2	fair-	W.H.	79-68	11m	W.	N.	CWT.	good plate
1178	A-1	20 Booti	14h 17m	+16° 41'	April 9	11:50-12:50	1h 00m	0h 42m E	13-inch	6415 H.P.	4-6	very good	W.H.	79-70	10m	W.	N.	CWT.	very good plate
1178	"	"	"	"	"	"	"	"	5" Coq.	6457 H.P.	"	"	"	77-69	10m	"	"	"	very good plate
1179	A-1	α Lupi 3rd mag	14h 37 2/3m	-46° 58'	April 9	13:00-14:00	1h 00m	0h 07m W.	5" Coq. only	6457 H.P.	0-2	very good	W.H.	77-69	10m	W.	N.	CWT.	good plate
1180	A-2	5th mag. star	11h 38m	-42° 37'	April 10	9:59-11:04	1h 05m	0h 16m W.	5" Coq. only	6457 H.P.	1-2	fair-	W.H.	78-73	10m	W.	N.	CWT.	fairly good plate
1181	A-2	20 Booti	14h 17m	+16° 41'	April 11	11:26-12:26	1h 00m	1h 02m E	13-inch	6415 H.P.	3-4	very good	W.H.	80-68	10m	W.	N.	CWT.	good plate
1181	"	"	"	"	"	"	"	"	5" Coq.	6457 H.P.	"	"	"	78-72	10m	"	"	"	good plate
1182	A-3	20 Booti	14h 17m	+16° 41'	April 14	12:01-13:31	1h 30m	0h 19m W.	13-inch	6415 H.P.	3-6	fair+	W.H.	79-69	10m	W.	N.	CWT.	good plate
1182	"	"	"	"	"	"	"	"	5" Coq.	6457 H.P.	"	"	"	78-74	10m	"	"	"	good plate
1183	A-4	20 Booti	14h 17m	+16° 41'	April 16	14:15-16:30	2h 15m	3h 27m W.	13-inch	6415 H.P.	2-4	fair first 2h then poor	W.H.	79-70	11m	W.	N.	CWT.	{?fairly good plate
1183	"	"	"	"	"	"	net=1h 15m	"	5" Coq.	6457 H.P.	"	fair poor etc.	"	80-73	11m	"	"	"	{?fairly good plate
1184	A-5	20 Booti	14h 17m	+16° 41'	April 17	13:50-16:00	2h 10m	3h 01m W.	13-inch	6415 H.P.	1-3	good	W.H.	80-70	11m	W.	N.	CWT.	went to sleep about 10 min in middle of exposure, trailed images on the 11-14 mag. stars
1184	"	"	"	"	"	"	"	"	5" Coq.	6457 H.P.	NE wind	"	"	79-71	10m	"	"	"	"
1185	A-2	α Lupi 3rd mag	14h 37 2/3m	-46° 58'	April 17	12:40-13:40	1h 00m	0h 20m W.	5" Coq. only	6457 H.P.	-2 to 0	good	W.H.	79-72	9m	W.	N.	CWT.	1/2 moonset about 13:30 fogged
1186	B-1	7th mag. star ω Centauri Superb!	13h 17m	-46° 21'	April 30	10:14-11:14	1h 00m	0h 05m W.	5" Coq. only	6457 H.P.	2-3	good or fair?	W.H.	83-72	10m	W.	N.	CWT.	good plate
1187	B-1	α Lupi 3rd mag	14h 37 2/3m	-46° 58'	April 30	11:23-12:23 1/2	1h 0 1/2m	0h 05m E	5" Coq. only	6457 H.P.	1-2	1/2 hr. of moonlight good	W.H.	83-72	10m	W.	N.	CWT.	fogged from moonlight good images
1188	B-1	5th mag. star	11h 38m	-42° 37'	May 1	8:43-9:43	1h 00m	0h 17m W.	5" Coq. only	6457 H.P.	0-2	smoke? fair	W.H.	80-72	10m	W.	N.	CWT.	good plate
1189	A-1	8th mag. star	14h 59 2/3m	+13° 48'	May 1	10:25-11:25	1h 00m	1h 22m E.	13-inch	6415 H.P.	3-4	smoke? fair	W.H.	80-70	10m	W.	N.	CWT.	good plate
1189	"	"	"	"	"	"	"	"	5" Coq.	6457 H.P.	"	"	"	80-70	10m	"	"	"	good plate
1190	A-1	31 Serpentes	15h 44 2/3m	+14° 21'	May 1	11:40-12:40	1h 00m	0h 53m E.	13-inch	6415 H.P.	1-4	smoke? fair	W.H.	80-70	10m	W.	N.	CWT.	10 min of moonlight good plate
1190	"	"	"	"	"	"	"	"	5" Coq.	6457 H.P.	"	10 min of moonlight	"	80-70	10m	"	"	"	good plate

40 Negative		Region			1937	Exposure		Hour Angle at end of Exposure	Instrument or Camera	Plate Emulsion	Seeing:		Development			East or West of axis	Writing at North or South end of Plate	Observer	41 Remarks:
no.	Since	Guide Star	RA.	DECL.	Date	Time	net				Stead.	Transp.	Dev.	Temp.	Time				
1191	A-1	29 Hercules	16 ^h 30 ^m	+11° 42'	May 2	11:50-12:50	1 ^h 00 ^m	1 ^h 24 ^m E.	3-inch d.l.	6415 H.P.	3-5	good	W.H.	80-70	10 ^m	W.	N.	CWT.	good plate
1191	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-73	10 ^m	"	"	"	good plate
1192	A-2	31 Serpentes	15 ^h 44 ^m	+14° 21'	May 3	11:47-12:47	1 ^h 00 ^m	0 ^h 37 ^m E.	13-inch d.l.	6415 H.P.	3-5	good	W.H.	79-70	10 ^m	W.	N.	CWT.	good plate
1192	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-72	10 ^m	"	"	"	good plate
1193	A-2	8th mag star at:	15 ^h 00 ^m	+13° 48'	May 6	10:05-11:05	1 ^h 00 ^m	1 ^h 23 ^m E.	13-inch d.l.	6415 H.P.	3-5	good	W.H.	80-71	10 ^m	W.	N.	CWT.	good plate
1193	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	77-69	10 ^m	"	"	"	good plate
1194	A-3	31 Serpentes	15 ^h 44 ^m	+14° 21'	May 6	11:18-12:23	1 ^h 05 ^m	0 ^h 50 ^m E.	13-inch d.l.	6415 H.P.	3-5	good	W.H.	80-71	10 ^m	W.	N.	CWT.	good plate
1194	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	77-69	10 ^m	"	"	"	good plate
1195	B-2	7th mag star at: w center of Lupub!	13 ^h 17 ^m	-46° 21'	May 7	9:42-10:47	1 ^h 05 ^m	0 ^h 05 ^m W.	5" Cog (only)	6457 H.P.	1-3	fair	W.H.	80-67	10 ^m	W.	N.	CWT.	good plate meteor trail
1196	A-2	29 Hercules	16 ^h 30 ^m	+11° 42'	May 7	11:45-12:45	1 ^h 00 ^m	1 ^h 10 ^m E.	13-inch d.l.	6415 H.P.	4-5	fair	W.H.	80-70	10 ^m	W.	N.	CWT.	good plate
1196	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	good	"	80-69	11 ^m	"	"	"	good plate
1197	A-1	6th mag star at	16 ^h 33 ^m	-43° 09'	May 7	13:00-14:00	1 ^h 00 ^m	0 ^h 02 ^m W.	13-inch d.l.	6415 H.P.	2-3	fairly good	W.H.	80-69	10 ^m	W.	N.	CWT.	good plate
1197	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-67	10 ^m	"	"	"	good plate
1198	A-3	8th mag star	15 ^h 00 ^m	+13° 48'	May 8	10:05-11:20	1 ^h 15 ^m	1 ^h 00 ^m E.	13-inch d.l.	6415 H.P.	5-7	good 3/4	W.H.	80-67	10 ^m	W.	N.	CWT.	good plate
1198	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	fair 3/4	"	80-68	10 ^m	"	"	"	good plate
1199	A-1	6th mag star	15 ^h 40 ^m	-41° 30'	May 8	11:55-13:05	1 ^h 10 ^m	0 ^h 05 ^m W.	13-inch d.l.	6415 H.P.	1-4	fair	W.H.	80-68	10 ^m	W.	N.	CWT.	good plate
1199	"	double " guide star	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-68	10 ^m	"	"	"	good plate
1200	A-3	29 Hercules	16 ^h 30 ^m	+11° 42'	May 10	11:05-12:10	1 ^h 05 ^m	1 ^h 32 ^m E.	13-inch d.l.	6415 H.P.	3-5	fair	W.H.	80-71	10 ^m	W.	N.	CWT.	good plate
1200	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	77-73	10 ^m	"	"	"	good plate
1201	A-2	6th mag star at:	16 ^h 33 ^m	-43° 09'	May 10	12:50-14:10	1 ^h 20 ^m	0 ^h 24 ^m W.	13-inch d.l.	6415 H.P.	1-2	fair + poor	W.H.	80-71	10 ^m	W.	N.	CWT.	images a little soft good plate
1201	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-71	10 ^m	"	"	"	good plate
1202	A-1	8th mag star at:	17 ^h 29 ^m	-43° 52'	May 10	14:33-15:33	1 ^h 00 ^m	0 ^h 52 ^m W.	13-inch d.l.	6415 H.P.	1	fair + good	W.H.	79-70	10 ^m	W.	N.	CWT.	images a little soft good plate
1202	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-71	10 ^m	"	"	"	good plate
1203	A-2	6th mag star at	15 ^h 40 ^m	-41° 30'	May 11	11:45-12:45	1 ^h 00 ^m	0 ^h 03 ^m E.	13-inch d.l.	6415 H.P.	1-2	very good	W.H.	78-73	10 ^m	W.	N.	CWT.	images a little soft good plate
1203	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-70	10 ^m	"	"	"	good plate

44 negative		Region			1937	Exposure		Hour Angle at end of Exposure	Instrument or Camera	Plate Emulsion	Seeing:		Development			Tele- scope East or West axis	Writing at North or South end of plate	Obser- ver	45 Remarks
no	Series	Guide Star	RA.	DECL.	Date	Time	net				Stead.	Transp.	Dev.	Temp.	Time				
1204	A-3	6th mag. star	16h 33.3	-43° 09'	May 11	12:53-13:53	1h 00m	0h 11m W.	13-inch L.L.	6415 H.P.	1	very good	W.H.	79-74	10m	W.	N.	CWT.	good plate
1204	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-70	10m	"	"	"	good plate
1205	A-1	8th mag. star at	17h 13m	+9° 20'	May 12	13:24-14:24	1h 00m	0h 07m W.	13-inch L.L.	6415 H.P.	2-4	very good	W.H.	77-69	10m	W.	N.	CWT.	good plate
1205	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-68	10m	"	"	"	good plate
1206	A-2	9th mag. star	17h 28.2	-43° 50'	May 12	14:33-15:33	1h 00m	1h 00m W.	13-inch L.L.	6415 H.P.	0-1	very good	W.H.	77-69	10m	W.	N.	CWT.	could hardly see stars and a wide range fairly good plate
1206	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-68	10m	"	"	"	Beautiful plate!
1207	A-3	8th mag. star	17h 29m	-43° 52'	May 13	14:25-15:25	1h 00m	0h 55m W.	13-inch L.L.	6415 H.P.	1-3	fair and good	W.H.	77-67	10m	W.	N.	CWT.	very good images good plate Beautiful plate!
1207	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-71	10m	"	"	"	very good images, however Broke in two
1208	A-3	6th mag. star at	15h 40m	-41° 30'	May 14	11:40-12:40	1h 00m	0h 03m W.	13-inch L.L.	6415 H.P.	1-2	good	W.H.	79-68	10m	W.	N.	CWT.	good plate
1208	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-67	10m	"	"	"	good plate
1209	A-2	8th mag. star	17h 13m	+9° 20'	May 14	13:00-14:00	1h 00m	0h 09m E.	13-inch L.L.	6415 H.P.	5	good	W.H.	78-68	10m	W.	N.	CWT.	good plate
1209	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-67	10m	"	"	"	good plate
1210	A-3	8th mag. star	17h 13m	+9° 20'	May 16	13:18-14:33	1h 15m	0h 31m W.	13-inch L.L.	6415 H.P.	5-6	fair and good	W.H.	77-66	10m	W.	N.	CWT.	marked 1 hr. up well good plate
1210	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-70	10m	"	"	"	good plate
1211	A-1	9th mag. star	17h 53.2	+8° 00'	June 1	11:35-12:35	1h 00m	1h 05m E.	13-inch L.L.	6415 H.P.	2-7	good	W.H.	78-66	10m	W.	N.	CWT.	good plate
1211	"	double star 20" W.	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-66	10m	"	"	"	good plate
1212	A-1	6th mag. star at	18h 25m	-43° 42'	June 2	12:15-13:15	1h 07m	0h 42m E.	13-inch L.L.	6415 H.P.	1-3	fairly good	W.H.	79-66	10m	W.	N.	CWT.	slightly fogged images filled in by hand
1212	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-66	10m	"	"	"	"
1213	A-1	8th mag. star at	18h 37.2	+8° 51'	June 3	12:20-13:20	1h 00m	0h 55m E.	13-inch L.L.	6415 H.P.	3-6	very good	W.H.	80-66	10m	W.	N.	CWT.	Beautiful plate
1213	"	1st mag. star of this pair stars to left	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	79-71	10m	"	"	"	Beautiful plate
1214	A-2	9th mag. star at	17h 53.2	+8° 00'	June 6	11:23-12:23	1h 00m	0h 56m E.	13-inch L.L.	6415 H.P.	2-5	good	W.H.	79-70	10m	W.	N.	CWT.	good plate
1214	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-73	10m	"	"	"	good plate
1215	A-2	8th mag. star at	18h 37.2	+8° 51'	June 6	12:30-13:30	1h 00m	0h 33m E.	13-inch L.L.	6415 H.P.	3-5	good	W.H.	78-73	10m	W.	N.	CWT.	good plate
1215	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78-73	10m	"	"	"	good plate
1216	A-2	6th mag. star at	18h 25m	-43° 42'	June 7	12:10-13:10	1h 00m	0h 37m E.	13-inch L.L.	6415 H.P.	0-2	good	W.H.	78-70	10m	W.	N.	CWT.	soft images fair plate
1216	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	80-72	10m	"	"	"	good plate

48 negative		Region circles 1937			yr. 1937	Exposure		Hour Angle at end of Exposure	Plateholder Instrument or Camera	Plate Emulsion	Seeing:		Development			Telescope East or West of axis	Writing at North or South end of plate	Observ ver	49 Remarks:
no.	Series	guide star	RA.	DECL.	Date	Time	net				stead.	Transp.	Dev.	Temp.	Time				
1217	A-3	9th mag. star	17 ^h 53 ^m	+8° 00'	June 9	11:08-12:08	1 ^h 00 ^m	0 ^h 59 ^m E.	13-inch L.L.	6415 H.P.	3-5	good	W.H.	77-71	10 ^m	W.	N.	cwt.	good plate
1217	"	double 20" apart	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	79-72	10 ^m	"	"	"	good plate
1218	A-3	8th mag. star	18 ^h 37 ^m	+8° 51'	June 9	12:22-13:22	1 ^h 00 ^m	0 ^h 30 ^m E.	13-inch L.L.	6415 H.P.	3-5	good	W.H.	78-68	10-15 ^m	W.	N.	cwt.	good plate
1218	"	faint star 1" north	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	77	10 ^m	"	"	"	good plate
1219	A-1	7th mag. star	19 ^h 17 ^m	-42° 00'	June 9	14:00-15:00	1 ^h 00 ^m	0 ^h 28 ^m W.	13-inch L.L.	6415 H.P.	1-3	good	W.H.	78-72	10 ^m	W.	N.	cwt.	very good plate
1219	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	79-72	10 ^m	"	"	"	very good plate
1220	A-3	6th mag. star at:	18 ^h 25 ^m	-43° 42'	June 10	12:00-13:00	1 ^h 00 ^m	0 ^h 35 ^m E.	13-inch L.L.	6415 H.P.	1	good	W.H.	76-72	10 ^m	W.	N.	cwt.	fairly good plate diff. refraction play
1220	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-72	10 ^m	"	"	"	good plate
1221	A-1	5th mag. 31 Aquilae	19 ^h 22 ^m	+11° 53'	June 10	13:10-14:10	1 ^h 00 ^m	0 ^h 22 ^m E.	13-inch L.L.	6415 H.P.	4-2	good	W.H.	76-72	10 ^m	W.	N.	cwt.	beautiful plate very good images
1221	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-72	10 ^m	"	"	"	beautiful plates
1222	A-2	31 Aquilae	19 ^h 22 ^m	+11° 53'	June 12	12:30-13:35	1 ^h 05 ^m	0 ^h 49 ^m E.	13-inch L.L.	6415 H.P.	3-5	fairly good	W.H.	76-74	10 ^m	W.	N.	cwt.	good plate
1222	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-73	10 ^m	"	"	"	beautiful plate
1223	A-2	7th mag. star	19 ^h 17 ^m	-42° 00'	June 12	13:45-14:52	1 ^h 07 ^m	0 ^h 33 ^m W.	13-inch L.L.	6415 H.P.	0-3	fairly good	W.H.	74-72	10 ^m	W.	N.	cwt.	good plate
1223	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-73	10 ^m	"	"	"	good plate
1224	A-3	31 Aquilae	19 ^h 22 ^m	+11° 53'	June 14	12:22-13:27	1 ^h 05 ^m	0 ^h 49 ^m E.	13-inch L.L.	6415 H.P.	2-5	fairly good	W.H.	75-73	10 ^m	W.	N.	cwt.	good plate
1224	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-70	10 ^m	"	"	"	good plate
1225	A-3	7th mag. star at	19 ^h 17 ^m	-42° 00'	June 14	13:37-14:45	1 ^h 08 ^m	0 ^h 34 ^m W.	13-inch L.L.	6415 H.P.	0-3	fairly good but 14:30 then poor	W.H.	75	10 ^m	W.	N.	cwt.	good plate
1225	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-70	10 ^m	"	"	"	good plate
1226	B-1	8th mag. star	17 ^h 29 ^m	-43° 52'	June 15	12:00-13:30	1 ^h 30 ^m	1 ^h 10 ^m W.	13-inch L.L.	6415 H.P.	1-2	fair	W.H.	80-70	11 ^m	W.	N.	cwt.	comp. image to brighten good plate
1226	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	75-72	10 ^m	"	"	"	good plate
1227	A-1	7th mag. star at:	19 ^h 58 ^m	+13° 20'	Aug. 1	9:46-10:46	1 ^h 00 ^m	0 ^h 57 ^m E.	13-inch L.L.	6720 H.P.	4-6	very good	W.H.	79-72	10 ^m	W.	N.	cwt.	some develop fog superb plate
1227	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-74	9 ^m	"	"	"	superb plate
1228	A-1	short meteor trail 8th mag. S Leporini	20 ^h 40 ^m	+14° 57'	Aug. 1	11:11-12:11	1 ^h 00 ^m	0 ^h 15 ^m E.	13-inch L.L.	6720 H.P.	3-5	very good	W.H.	75-74	10 ^m	W.	N.	cwt.	some develop fog superb plate
1228	"	"	"	"	"	"	"	"	5" Cog	6457 H.P.	"	"	"	76-74	9 ^m	"	"	"	superb plate
1229	A-1	T Scorpii	16 ^h 32 ^m	-28° 5'	Aug. 2	9:46-11:01	1 ^h 15 ^m	2 ^h 50 ^m W.	5" Cog. only	6457 H.P.	3-4	very good	W.H.	77-72	8 ^m	W.	N.	cwt.	special Beautiful plate

52 negative		Region circles 1937			yr. 1937	Exposure		Hour Angle at end of Exposure	Platholder Telescope	Plate Emulsion	Seeing		Development			Telescope East or West of axis	Writing at North or South end of plate	(Observer)	Remarks
no.	Series	Guide Star	R.A.	DECL.	Date	Time	net				Stead.	Transp.	Dev.	Temp	Time				
1230	A-2	7th mag star	19h 58m	+13° 20'	Aug. 3	9:25-10:30	1h 05m	1h 05m E.	13-inch L.L.	6720 H.P.	3-4	good	W.H.	76→70	10m	W.	N.	CWT.	good plate
1230	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	76→77	9m	"	"	"	come developer fog good plate
1231	A-2	8 Delphini	20h 40m	+14° 57'	Aug. 3	10:40-11:55	1h 15m	0h 23m E.	13-inch L.L.	6720 H.P.	3-4	good first 40m then fair	W.H.	79→74	10m	W.	N.	CWT.	good plate
1231	"	"	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	76→77	9m	"	"	"	some developer fog good plate
1232	B-1	8th mag star	15h 00m	+13° 48'	Aug. 6	9:05-10:20	1h 15m	3h 55m W.	13-inch L.L.	6720 H.P.	4	good or fair?	W.H.	79→74	10m	W.	N.	CWT.	good plate
1232	"	for planet suspect	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	first 60m then poor last 15m	"	80→77	9m	"	"	"	good plate
1233	B-2	8th mag star	15h 00m	+13° 48'	Aug. 7	9:05-10:30	1h 25m	4h 08m W.	13-inch L.L.	6415 H.P.	4+2	fair	W.H.	77→74	10m	W.	N.	CWT.	good plate
1233	"	for planet suspect.	"	"	"	"	"	"	5" Cog.	6457 H.P.	"	"	"	78→74	9m	"	"	"	good plate
1234	A-3	8 Delphini	20h 40m	+14° 57'	Aug. 7	12:20-13:30	1h 10m	1h 29m W.	13-inch L.L.	6720 H.P.	3-4	fairly good	W.H.	77→73	10m	W.	N.	CWT.	images look soft fairly good plate
1234	"	"	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	"	"	78→74	11m	"	"	"	very slow!
1235	B-3	8th mag star	15h 00m	+13° 48'	Aug. 8	8:52-10:27	1h 35m	4h 10m W.	13-inch L.L.	6720 H.P.	5	only fair	W.H.	79→74	10m	W.	N.	CWT.	good plate
1236	A-1	8th mag star	21h 20m	+16° 20'	Sept. 4	10:35-11:50	1h 15m	0h 58m W.	13-inch L.L.	6720 H.P.	4	only fair	new W.H.	75→70	10m	W.	N.	CWT.	corner cracked out heavy mitter trail
1236	"	"	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	shrinkiness	"	73→70	9m	"	"	"	good plate, superb!
1237	A-2	8th mag star	21h 20m	+16° 20'	Sept. 7	10:45-12:45	2h 00m equiv to 1 hr	2h 05m W.	13-inch L.L.	6720 H.P.	4	fair and poor	W.H.	76→70	9½m	W.	N.	CWT.	fairly good plate matches 1236
1237	"	"	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	"	"	76→70	10m	"	"	"	good plate
1238	A-3	8th mag star	21h 20m	+16° 20'	Sept. 9	8:50-9:55	1h 5m	0h 37m E.	13" L.L.	6720 H.P.	3	good	W.H.	75→69	10m	W.	N.	CWT.	good plate
1238	"	8th " "	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	"	"	77→70	10m	"	"	"	good plate
1239	A-1	ε Phoenicis	24h 06m	-45° 56'	Sept. 30	10:50-11:50	1h 00m	0h 05m E.	5" Cog. only	6720 H.P.	1-2	fair	new W.H.	75→70	8½m	W.	N.	CWT.	good plate
1240	A-1	ο Phoenicis	1h 35m	-46° 11'	Sept. 30	12:05-13:05	1h 00m	0h 18m E.	5" Cog only	6720 H.P.	1-2	fairly good	W.H.	75→70	8½m	W.	N.	CWT.	good plate
1241	A-1	6th mag star	23h 59m	+42° 03'	Oct. 1	9:23-10:23	1h 00m	1h 21m E.	13" L.L.	6720 H.P.	good	good	W.H.	76→66	10m	W.	N.	H.G.	good plate
1241	"	"	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	"	too warm	78→74	8m	"	"	"	good plate
1242	A-1	6th mag star	24h 59m	+47° 05'	Oct. 1	10:40-11:40	1h 00m	1h 04m E.	13" L.L.	6720 H.P.	good	good	W.H.	75→68	9½m	W.	N.	H.G.	good plate
1242	"	"	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	"	too warm	78→74	8m	"	"	"	good plate
1243	A-2	6th mag star	23h 59m	+42° 03'	Oct. 4	9:21-10:21	1h 00m	1h 11m E.	13" L.L.	6720 H.P.	(3) good	good	W.H.	75→68	10m	W.	N.	H.G.	good plate
1243	"	"	"	"	"	"	"	"	5" Cog.	6720 H.P.	"	"	"	75→68	9m	"	"	"	good plate

56 negative		Region circles 1937			year 1937	Exposure		Hour angle
no	Series	guide star	RA	Decl.	Date	Time	net	at end of Expos.
1244	A-2	6th mag star	24 ^h 59 ^m .7	+47° 05'	Oct. 5	9:30-10:30	1 ^h 00 ^m	1 ^h 59 ^m E
1244	"	"	"	"	"	"	"	"
1245	A-1	8th or 9th mag star	1 ^h 58 ^m	+49° 02'	Oct. 5	10:55-11:55	1 ^h 00 ^m	1 ^h 33 ^m E.
1245	"	"	"	"	"	"	"	"
1246	A-2	0 Phoenicis	1 ^h 35 ^m	-46° 11'	Oct. 12	11:23-12:20	0 ^h 57 ^m	0 ^h 16 ^m E.
1247	B-1	8th or 9th mag star	1 ^h 58 ^m .3	+49° 02'	Oct. 26	9:39-10:39	1 ^h 00 ^m	1 ^h 25 ^m E.
1247	"	"	"	"	"	"	"	"
1248	A-1	6th mag star	3 ^h 02 ^m	+51° 23'	Oct. 26	10:47-11:45	0 ^h 58 ^m	1 ^h 23 ^m E.
1248	"	"	"	"	"	clock wind froze	"	"
1249	B-2	8th or 9th mag star	1 ^h 58 ^m .3	+49° 02'	Oct. 28	9:37-10:47	1 ^h 10 ^m	1 ^h 10 ^m E.
1249	"	"	"	"	"	"	"	"
1250	A-2	6th mag star at	3 ^h 02 ^m	+51° 23'	Oct. 28	11:27-12:27	1 ^h 00 ^m	0 ^h 33 ^m E.
1250	"	"	"	"	"	"	"	"
1251	A-1	Z Camelopardi	4 ^h 09 ^m .2	+53° 01'	Oct. 28	13:14-14:14	1 ^h 00 ^m	0 ^h 6.5 W.
1251	"	"	"	"	"	"	"	"
1252	B-3	8th or 9th mag star	1 ^h 58 ^m .3	+49° 02'	Oct. 29	11:01-12:01	1 ^h 00 ^m	0 ^h 07 ^m W.
1252	"	"	"	"	"	"	"	"
1253	A-1	R Aurigae	5 ^h 10 ^m	+53° 11'	Oct. 29	12:44-13:44	1 ^h 00 ^m	1 ^h 20 E.
1253	"	"	"	"	"	"	"	"
1254	B-1	E Phoenicis	24 ^h 06 ^m	-45° 56'	Oct. 30	9:48-10:48	1 ^h 00 ^m	0 ^h 51 ^m W.
1255	A-3	6th mag star	3 ^h 02 ^m	+51° 23'	Oct. 30	12:32-13:32	1 ^h 00 ^m	0 ^h 40 ^m W.
1255	"	"	"	"	"	"	"	"
1256	A-2	Z Camelopardi	4 ^h 09 ^m .2	+53° 01'	Oct. 30	13:40-14:40	1 ^h 00 ^m	0 ^h 40 ^m .8
1256	"	"	"	"	"	"	"	"

Plateholder	Plate	Seeing		Development			Fals East or West to axis	Writing at North or South end of plate	Observer	Remarks
		Steel	Transp.	Dev.	Fahrheit Temp	Time				
13" L. Lowell	6720 H.P.	good	good	W.H.	75→68	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	"	76→67	9 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	fair to poor	good	W.H.	76→77	10 ^m	W.	N.	H.G.	some develop fog
5" Cog.	6720 H.P.	"	"	"	76→67	9 ^m	"	"	"	good plate
5" Cog. only	6720 H.P.	0-1	good	W.H.	72→68	8 ^m	W.	N.	CWT.	fogged, 15 min of moonlight
13" L. Lowell	6720 H.P.	good	good	W.H.	76→71	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	"	74→72	10 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	good	good	W.H.	76→70	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	"	74→72	10 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	good	fair	new W.H.	76→72	9 ^m	W.	N.	H.G.	off at end good otherwise
5" Cog.	6720 H.P.	"	"	new	74→73	10 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	good	fair	new W.H.	78→72	8½ ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	old	77→72	10 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	good	fair	old W.H.	78→70	10 ^m	W.	N.	H.G.	weak? fair plate
5" Cog.	6720 H.P.	"	"	old	77→72	10 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	good	fair	W.H.	77→72	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	W.H.	77→72	9½ ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	fair	fair	W.H.	77→72	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	"	77→72	9½ ^m	"	"	"	good plate
5" Cog. only	6720 H.P.	1-2	fair	W.H.	76→75	9 ^m	W.	N.	CWT.	good plate
13" L. Lowell	6720 H.P.	good	good	W.H.	76→71	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	"	76→72	9 ^m	"	"	"	good plate
13" L. Lowell	6720 H.P.	good	good	W.H.	76→69	10 ^m	W.	N.	H.G.	good plate
5" Cog.	6720 H.P.	"	"	"	76→72	9 ^m	"	"	"	good plate

Region
Arcles 1937

year
1937

Exposure

Hour angle
at end of
exposure

No	Series	guide star	R.A.	Decl.	Date	Time	net	Hour angle at end of exposure
1257	A-3	Z Camelopardis	4h 09.2	+53° 01'	Nov. 1	11:37-12:37	1h 00	1h 15m E.
1257	"	"	"	"	"	"	"	"
1258	A-2	R Aurigae	5h 10m	+53° 11'	Nov. 1	12:46-13:46	1h 00m	1h 06m E
1258	"	"	"	"	"	"	"	"
1259	A-3	R Aurigae	5h 10m	+53° 11'	Nov. 3	12:31-13:31	1h 00	1h 14m E
1259	"	"	"	"	"	"	"	"
1260	A-1	45 Aurigae	6h 17m	+53° 32'	Nov. 27	13:11-14:12	1h 01m	0h 05m E.
1260	"	"	"	"	"	"	"	"
1261	A-2	45 Aurigae	6h 17m	+53° 32'	Nov. 30	12:09-13:09	1h 00	0h 56m E.
1261	"	"	"	"	"	"	"	"
1262	A-3	45 Aurigae	6h 17m	+53° 32'	Dec. 3	12:14-13:14	1h 00m	0h 39m E.
1262	"	"	"	"	"	"	"	"
					1938			
1263	A-1	8th mag. star	7h 18m	+53° 00'	Jan. 4	11:17-12:33	1h 16m	0h 15m E.
1263	"	"	"	"	"	"	"	"
1264	A-1	6th mag. star	8h 28m	+53° 22'	Jan. 4	12:59-14:14	1h 15m	0h 16m W.
1264	"	"	"	"	"	"	"	"
1265	A-2	8th mag. star	7h 18m	+53° 00'	Jan. 6	10:51-12:06	1h 15m	0h 34m E.
1265	"	"	"	"	"	"	"	"
1266	A-2	6th mag. star	8h 28m	+53° 22'	Jan. 6	12:14-13:30	1h 16m	0h 20m E.
1266	"	"	"	"	"	"	"	"
1267	A-3	6th mag. star	8h 28m	+53° 22'	Jan. 10	14:42-16:12	1h 30m	2h 39m W.
1267	"	"	"	"	"	"	"	"
1268	A-4	6th mag. star	8h 28m	+53° 22'	Jan. 11	16:00-17:16	1h 16m	3h 47m W.
1268	"	"	"	"	"	"	"	"
1269	A-1	3rd mag. Ursa Majoris	9h 29.3	+52° 00'	Jan. 22	12:03-13:03	1h 00m	0h 43m E.
1269	"	"	"	"	"	"	"	"

Plateholder	Telescope	Plate emulsion	Seeing	Development	Dev	Temp	Time	Tel. East or West of Axis	Writing on north or south end of plate	Developer	Remarks
13" L. Lowell	I	6720 H.P.	good	good	W.H.	76→70	10m	W.	N.	H.G.	good plate
5" Coq.	I	6720 H.P.	"	"	"	76→71	9m	"	"	"	good plate
13" III	III	6720 H.P.	good	good	W.H.	76→70	10m	W.	N.	H.G.	good plate
5" III	III	6720 H.P.	"	"	"	76→71	9m	"	"	"	good plate
13" III	III	6720 H.P.	good	good	W.H.	76→70	11m	W.	N.	H.G.	good plate
5" III	III	6720 H.P.	"	"	"	76→72	10m	"	"	"	good plate
13" I	I	6720 H.P.	good	good	W.H.	74→70	9 1/2 m	W.	N.	H.G.	good plate
5" I	I	6720 H.P.	"	"	"	74→73	9m	"	"	"	good plate
13" I	I	6720 H.P.	fair	fair	W.H.	76→70	10m	W.	N.	H.G.	good plate good images
5" I	I	6720 H.P.	"	"	"	77→74	9m	"	"	"	good plate
13" I	I	6720 H.P.	poor	fair	W.H.	76→68	10m	W.	N.	H.G.	good plate slightly washed & copied
5" I	I	6720 H.P.	"	"	"	78→72	9m	"	"	"	good plate
13" I	I	6720 H.P.	poor	good	W.H.	76→71	9m	W.	N.	H.G.	good plate images pretty good
5" I	I	6720 H.P.	"	"	"	74→68	8m	"	"	"	good plate
13" III	III	6720 H.P.	poor	good	W.H.	76→73	9m	W.	N.	H.G.	fair plate images a little soft
5" III	III	6720 H.P.	"	"	"	74→68	8m	"	"	"	good plate
13" I	I	6720 H.P.	fair	good	W.H.	76→69	9 1/2 m	W.	N.	H.G.	good plate
5" I	I	6720 H.P.	"	"	"	76→72	8m	"	"	"	good plate
13" III	III	6720 H.P.	fair	good	W.H.	76→73	9 1/2 m	W.	N.	H.G.	fairly good plate
5" III	III	6720 H.P.	"	"	"	76→72	8m	"	"	"	good plate
13" III	III	6720 H.P.	fair	good	W.H.	77→73	9m	W.	N.	H.G.	triple images express moved?
5" III	III	6720 H.P.	"	"	"	76→72	8m	"	"	"	"
new batch of plates received Nov. 18, 1937											
13" III	III	6720 H.P.	fair	good	W.H.	78→69	12m	E.	S.	H.G.	good plate
5" III	III	3-6720 H.P.	"	"	"	76→71	13m	"	"	"	good plate
13" I	I	6720 H.P.	good	good	W.H.	76→69	9 1/2 m	W.	N.	H.G.	good plate
5" I	I	6720 H.P.	"	"	"	76→72	7 1/4 m	"	"	"	good plate

64 negative		Region circles 1938			year 1938	Exposure		Hour Angle at end of Exposure.	Plateholder Telescope	Plate Emulsion	Seeing		Development			Tels- cope E. or W. of axis	Writing at N. or S. end of plate	Obs.	65 Remarks
No.	Series	Guide Star	R.A.	DECL.	Date	Time	net				Stead.	Transp	Dev.	Temp.	Time				
1270	A-2	3rd mag. θ Ursa Majoris	9h 29.3	+52° 00'	Jan. 25	11:44-12:44	1h 00m	0h 53m E	13" I L. Lowell	6720 H.P.	fair	good	W.H.	76→71	10m	W.	N.	H.G.	good plate
1270	"	"	"	"	"	"	"	"	5" I Cogshall	6720 H.P.	"	"	"	77→70	9m	"	"	"	good plate
1271	A-1	6th mag. δ Ursa Majoris	10h 35.6	+54° 00'	Jan. 25	12:52-13:52	1h 00m	0h 50m E	13" III	6720 H.P.	fair sometimes	good	W.H.	76→70	10m	W.	N.	H.G.	good plate
1271	"	"	"	"	"	"	"	"	5" III	6720 H.P.	"	"	"	77→70	9m	"	"	"	good plate
1272	A-2	6th mag. δ Ursa Majoris	10h 35.6	+54° 00'	Jan. 27	11:58 ^{35"} -13:28 ^{35"}	1h 30m	1h 05.8 E	13" III	6720 H.P.	very good	fair	W.H.	76→72	10m	W.	N.	H.G.	good plate
1272	"	"	"	"	"	"	"	"	5" III	6720 H.P.	"	poor?	"	77→74	9m	"	"	"	good plate
1273	A-1	8th mag. star	10h 27.1	+41° 51'	Feb. 21	11:21-12:21	1h 00m	0h 27m E	13" I	6720 H.P.	very good	good	W.H.	74→71	8m	W.	N.	H.G.	good plate
1273	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	76→77	7m	"	"	"	good plate
1274	A-1	v Ursa Majoris 4th mag.	11h 15.2	+33° 30'	Feb. 21	12:33-13:33	1h 00m	0h 02m E	13" III	6720 H.P.	very good	good	W.H.	74→74	8m	W.	N.	H.G.	good plate
1274	"	"	"	"	"	"	"	"	5" III	6720 H.P.	"	"	"	76→77	7m	"	"	"	good plate
1275	A-1	6th mag. star Σ 1542 Ursa Majoris	11h 24.8	+44° 58'	Feb. 22	11:04-12:04	1h 00m	1h 38m E	13" I	6720 H.P.	good	good	W.H.	76→72	9m	W.	N.	H.G.	good plate
1275	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	76→74	8m	"	"	"	good plate
1276	A-2	6th mag. star Σ 1542 Ursa Majoris	11h 24.8	+44° 58'	March 5	12:50-13:50	1h 00m	0h 32m W.	13" I	6720 H.P.	good	good	W.H.	76→74	9m	W.	N.	H.G.	companion images br. star fair plate
1276	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	76→75	8m	"	"	"	good plate
1277	B-1	8th mag. star	10h 27.1	+41° 51'	March 24	10:47-11:54	1h 07m	1h 09m W.	13" III	6720 H.P.	good	good	new W.H.	75→72	8m	W.	N.	H.G.	good plate
1277	"	"	"	"	"	"	"	"	5" III	6720 H.P.	"	"	"	76→73	8m	"	"	"	good plate
1278	B-1	v Ursa Majoris	11h 15.2	+33° 30'	March 24	12:08-13:08	1h 00m	1h 35m W.	13" I	6720 new batch H.P.	good	good	new W.H.	76→74	8m	W.	N.	H.G.	good plate
1278	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	76→73	8m	"	"	"	good plate
1279	A-1	7th mag. star	11h 38.5	+55° 36'	March 25	11:52-12:52	1h 00m	0h 59m W.	13" I	6720 H.P.	fair	good	new W.H.	76→73	8 ² / ₃ m	W.	N.	H.G.	good plate
1279	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	74→73	8m	"	"	"	good plate
1280	B-2	8th mag. star	10h 27.1	+41° 51'	March 30	10:34-11:40	1h 06m	1h 18m W.	13" III	6720 (old) H.P.	good	good	W.H.	78→68	10m	W.	N.	H.G.	good plate
1280	"	"	"	"	"	"	"	"	5" III	6720 H.P.	"	"	"	76→72	9m	"	"	"	good plate
1281	B-2	v Ursa Majoris 4th mag.	11h 15.2	+33° 30'	March 30	12:10-13:10	1h 00m	2h 01m W.	13" I	6720 H.P.	fair	good	W.H.	77→72	10m	W.	N.	H.G.	good plate
1281	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	76→72	9m	"	"	"	good plate
1282	A-2	7th mag. star	11h 38m	+55° 35'	March 31	10:24-11:24	1h 00m	0h 05m E.	13" I	6720 H.P.	very good	very good	W.H.	75→74	9m	W.	N.	H.G.	good plate
1282	"	"	"	"	"	"	"	"	5" I	6720 H.P.	"	"	"	73→70	8m	"	"	"	good plate

68 negative		Region circles 1938			Year 1938	Exposure		Hour angle at end of Exposure	Plateholders I + II	Plate	Seeing		Development			Telescope East or West of polar axis	Writing at North or South end of plate	Observer	69 Remarks:
No.	Series	Guide Star	RA	DECL.	date (old star day)	Time	net		Telescope	Emulsion	Stead.	Transp.	Dev.	Temp.	Time				
1283	A-1	2nd mag. star E Ursa Majoris	12h 52m	+56° 22'	March 31	11:34-12:34	1h 00m	0h 07m E.	13" III	6720 H.P.	good	Very good	new added W.H.	75→72	9m	W.	N.	H.G.	good plate
1283	"	"	"	"	"	"	"	"	5" III	6720 H.P.	"	"	"	73→70	8m	"	"	"	good plate
1284	A-1	7th mag. star	12h 05m	+31° 29'	April 1	10:41-11:41	1h 00m	0h 10.5 E.	13" I	6720 (new) H.P.	good	good	W.H.	76→71	10m	W.	N.	H.G.	good plate
1284	"	"	"	"	"	"	"	"	5" I	5-6936 (new) H.P.	"	"	"	76→70	9m	"	"	"	good plate
1285	A-1	double star 2' or 3' apart 7th + 8th mag.	12h 21.3m	+43° 30'	April 1	11:53-12:56	1h 00m	0h 48m W.	13" III	6720 H.P.	good	good	W.H.	76→71	10m	W.	N.	H.G.	companion images s. of brighter stars
1285	"	"	"	"	"	"	1h 03m	"	5" III	6720 (old) H.P.	"	"	"	76→70	9m	"	"	"	good 5" plate
1286	A-3	7th mag. star at	11h 38m	+55° 35'	April 2	10:18-11:18	1h 00m	0h 04m E	13" F	6720 H.P.	good	good	new added W.H.	76→74	10m	W.	N.	H.G.	four images slightly mag.
1286	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	FAIR?	"	75→72	9m	"	"	"	good plate
1287	A-2	double star 2' or 3' apart 7th + 8th mag.	12h 21.3m	+43° 30'	April 2	11:24-12:24	1h 00m	0h 20m W.	13" III	6720 H.P.	good	good	W.H.	77-73?	10m	W.	N.	H.G.	good plate
1287	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	75→72	9m	"	"	"	good plate
1288	A-2	7th mag. star at	12h 05m	+31° 29'	April 3	10:56-11:56	1h 00m	0h 12m W.	13" I	6720 H.P.	good	good	new added W.H.	75→75°	10m	W.	N.	H.G.	good plate
1288	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	75→74	9m	"	"	"	good plate
1289	A-2	E Ursa Majoris	12h 51.9m	+56° 22'	April 3	12:33-13:36	1h 03m	1h 05m W.	13" III	6720 H.P.	good	good	W.H.	74→71	10m	W.	N.	H.G.	good plate
1289	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	75→74	9m	"	"	"	inner images shutter half open?
1290	A-3	double star 2' or 3' apart 7th + 8th mag.	12h 21.3m	+43° 30'	April 4	12:11-13:11	1h 00m	1h 14m W.	13" III	6720 H.P.	good	good	getting old W.H.	77→74	10m	W.	N.	H.G.	good plate
1290	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	74→73	9m	"	"	"	good plate
1291	A-1	39 Coma Berenidis 6th mag.	13h 03.8m	+21° 36'	April 21	9:43-10:43	1h 00m	0h 49m E.	13" I	6720 H.P.	good	good	new, unknown W.H.	74→73	8m	W.	N.	H.G.	good plate
1291	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	74→72	8m	"	"	"	good plate
1292	A-1	7th mag. star at	12h 55.8m	+34° 58'	April 22	10:34-11:34	1h 00m	0h 14m W.	13" I	6720 H.P.	good	good	still new W.H.	74→73	8½m	W.	N.	H.G.	good plate
1292	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→74	8m	"	"	"	good plate
1293	A-1	6 Boötis 5th mag. star nearly OSE/26, double close to 6 Boötis	13h 47m	+21° 40'	April 22	11:47-12:47	1h 00m	0h 36m W.	13" III	6720 H.P.	good	good	still new W.H.	76→73	8½m	W.	N.	H.G.	good plate
1293	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→74	8m	"	"	"	good plate
1294	A-2	39 Coma Berenidis 6th mag.	13h 03.8m	+21° 36'	April 24	9:12-10:14	1h 00m	1h 05m E	13" I	6720 H.P.	good	good	W.H.	74→76	9m	W.	N.	H.G.	good plate
1294	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	74→72	9m	"	"	"	good plate
1295	A-2	7th mag. star at	12h 55.8m	+34° 58'	April 24	11:30-12:30	1h 00m	1h 18m W.	13" I	6720 H.P.	good	good	W.H.	75→73	9m	W.	N.	H.G.	good plate
1295	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→72	9m	"	"	"	good plate

interrupted for 1h 50m, 16m after start to the shutter

72 negative		Region circles 1938			Year 1938 date (old astron day)	Exposure		Hour Angle at end of exposure	Plateholders I-III	Plate Emulsion	Seeing		Development			Telescope East or West of Polar Axis	Written at N. or S. end of plate	Observer	Remarks
no.	Series	Guide Star	R.A.	DECL.		Time	net		Telescope		Stead.	Transp.	Dev.	Temp. °F	Time				
1296	A-2	6 th Bootis <small>022126 close to double</small>	13 ^h 47 ^m	+21° 40'	April 24	12:42-13:42	1 ^h 00 ^m	1 ^h 38 ^m W.	13" III	6720 H.P.	good	good	W.H.	76→75	9 ^m	W.	N.	H.G.	good plate
1296	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→72	9 ^m	"	"	"	good plate
1297	A-1	6 th mag. star	13 ^h 48 ^m	+35° 09'	April 26	9:57-10:57	1 ^h 00 ^m	1 ^h 00 ^m E.	13" I	6720 H.P.	fair	good	W.H. 2	75→74	9 ^m	W.	N.	H.G.	good plate
1297	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	74→72	8 ^m	"	"	"	good plate
1298	A-1	6 th mag. star	13 ^h 20 ^m	+47° 21'	April 26	11:10-12:10	1 ^h 00 ^m	0 ^h 41 ^m W.	13" III	6720 H.P.	good	good	W.H. 1	75→73	8½ ^m	W.	N.	H.G.	good plate
1298	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	74→72	8 ^m	"	"	"	good plate
1299	A-1	6 th mag. star	14 ^h 30 ^m	+27° 00'	April 27	10:19-11:19	1 ^h 0½ ^m	1 ^h 15 ^m E.	13" I	6720 H.P.	good	good	W.H.	76→74	8½ ^m	W.	N.	H.G.	good plate
1299	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	74→71	8½ ^m	"	"	"	good plate
1300	A-1	γ Bootis 3 rd mag.	14 ^h 30 ^m	+38° 39'	April 27	12:08-13:08	1 ^h 00 ^m	0 ^h 34½ ^m W.	13" II	6720 H.P.	fair	good	W.H.	74-72	9 ^m	W.	N.	H.G.	images weak? good plate?
1300	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	74→71	8½ ^m	"	"	"	good plate
1301	A-2	6 th mag. star	13 ^h 48 ^m	+35° 09'	April 30	12:09-13:09	1 ^h 00 ^m	1 ^h 29 ^m W.	13" F	6720 H.P.	good	good	W.H.	76→73	9 ^m	W.	N.	H.G.	good plate
1301	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→73	8½ ^m	"	"	"	good plate
1302	A-2	6 th mag. star	14 ^h 30 ^m	+27° 00'	April 30	13:18-14:18	1 ^h 00 ^m	1 ^h 55½ ^m W.	13" III	6720 H.P.	good	good	W.H.	75→73	9 ^m	W.	N.	H.G.	good plate
1302	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→73	8½ ^m	"	"	"	good plate
1303	A-3	7 th mag. star	12 ^h 55 ^m	+34° 58'	May 13	13:13 ^{21°} -14:24 ^{21°}	1 ^h 11 ^m	4 ^h 29 ^m W.	13" I	6720 H.P.	poor	good	W.H.	74→70	9 ^m	E.	S.	H.G.	fairly good plate made during total eclipse of moon
1303	"	"	"	"	"	3 rd plate to check some planet suspects	"	"	5" I	5-6936 H.P.	"	"	"	75→70	8 ^m	"	"	"	"
1304	B-1	γ Bootis 3 rd mag.	14 ^h 30 ^m	+38° 35'	May 20	9:38-10:38	1 ^h 00 ^m	0 ^h 26 ^m E.	13" III	6720 H.P.	good	good	W.H.	73→74	9 ^m	W.	N.	H.G.	good plate slightly fogged, etc?
1304	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	72→74	7½ ^m	"	"	"	good plate
1305	B-2	γ Bootis	14 ^h 30 ^m	+38° 35'	May 23	9:58-10:58	1 ^h 00 ^m	0 ^h 06 ^m W.	13" III	6720 H.P.	good	good	W.H.	75→68	9 ^m	W.	N.	H.G.	good plate
1305	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→69	9 ^m	"	"	"	good plate
1306	A-1	ε 1932 Corona Borealis 6 th mag.	15 ^h 16 ^m	+27° 08'	May 23	11:07-12:07	1 ^h 00 ^m	0 ^h 29 ^m W.	13" I	6720 H.P.	good	good	W.H.	76→76	8½ ^m	W.	N.	H.G.	good plate
1306	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→69	9 ^m	"	"	"	good plate
1307	A-1	6 th mag. star	15 ^h 20 ^m	+39° 53'	May 24	9:42-10:42	1 ^h 00 ^m	0 ^h 56 ^m E.	13" III	6720 H.P.	good	good	W.H.	76→71	8½ ^m	W.	N.	H.G.	good plate
1307	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	72→75	9 ^m	"	"	"	good plate
1308	A-1	ε Corona Borealis 4 th mag.	15 ^h 55 ^m	+27° 08'	May 24	11:09-12:09	1 ^h 00 ^m	0 ^h 03 ^m E.	13" I	6720 H.P.	good	good	W.H.	75→69	9 ^m	W.	N.	H.G.	good plate
1308	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→72	8½ ^m	"	"	"	good plate

76 negative		Region circles 1938			Year 1938	Exposure		Hour Angle at end of Exposure	Plateholders I-III	Plate	Seeing		Development			Telescope East or West of Polar Axis	Writing at N. or S. end of plate	Observer	77 Remarks
no.	Series	Guide Star	R.A.	DECL.	Date (old astron. day)	Time	net		Telescope	Emulsion	sted.	Transp	Dev.	Temp.	Time				
130 ^E	A-1	6th mag star	16 ^h 39 ^m	+25° 02'	May 24	12:19-13:19	1 ^h 00 ^m	0 ^h 24 ^m W.	13" III	6720 H.P.	fair ⁺	good	W.H.	76→70	9 ^m	W.	N.	H.G.	good plate
1309 ^E 100°	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→72	8½ ^m	"	"	"	good plate
1310	B-1	6th mag star	13 ^h 20.3	+47° 21'	May 25	9:25-10:44	1 ^h 19 ^m	1 ^h 10½ ^m W.	13" III	6720 H.P.	good	good	W.H.	75→69	9 ^m	W.	N.	H.G.	elongated images exposure not right
1310	"	"	"	"	"	match stopped and started again	"	"	5" III	5-6936 H.P.	"	"	"	76→71	9 ^m	"	"	"	good plate
1311	A-2	Σ1932 Coronae Borealis	15 ^h 16 ^m	+27° 08'	May 25	11:47-12:47	1 ^h 00 ^m	1 ^h 18 ^m W.	13" I	6720 H.P.	good	good	W.H.	76→70	9 ^m	W.	N.	H.G.	fair plate images slightly elongated
1311	"	6th mag.	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→71	9 ^m	"	"	"	good plate
1312	A-1	7th mag star	16 ^h 11.5	+38° 20'	May 25	13:01-14:01	1 ^h 00 ^m	1 ^h 36 ^m W.	13" III	6720 H.P.	good	good	W.H.	76→69	9½ ^m	W.	N.	H.G.	good plate
1312	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→71	9 ^m	"	"	"	5" plate partly cut one end cut off
1313 ^E	A-2	Σ Coronae Borealis	15 ^h 55.2	+27° 08'	May 27	9:11-10:11	1 ^h 00 ^m	1 ^h 51 ^m E.	13" I	6720 H.P.	good	good	W.H.	75→72	9 ^m	W.	N.	H.G.	good plate
1313	"	4th mag	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→71	9 ^m	"	"	"	good plate
1314 ^E	A-2	6th mag star	16 ^h 39 ^m	+25° 02'	May 27	10:20-11:20	1 ^h 00 ^m	1 ^h 25 ^m E.	13" III	6720 H.P.	good	good	W.H.	74→73	9 ^m	W.	N.	H.G.	good plate
1314 ^E 100°	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→71	9 ^m	"	"	"	good plate
1315	B-2	6th mag star	13 ^h 20.3	+47° 21'	May 28	9:05-10:05	1 ^h 00 ^m	0 ^h 42 ^m W.	13" III	6720 H.P.	fair-	good	W.H.	76→72	9 ^m	W.	N.	H.G.	good plate
1315	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	70→73	9½ ^m	"	"	"	good plate
1316 ^E	A-3	Σ1932 Coronae Borealis	15 ^h 16 ^m	+27° 08'	May 28	10:36-11:36	1 ^h 00 ^m	0 ^h 18 ^m W.	13" I	6720 H.P.	fair	good	W.H.	76→72	9 ^m	W.	N.	H.G.	good plate
1316	"	6th mag.	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→70	9 ^m	"	"	"	good plate
1317	A-2	6th mag star	15 ^h 20.4	+39° 52'	May 28	11:47-12:47	1 ^h 00 ^m	1 ^h 25 ^m W.	13" III	6720 H.P.	fair	good	W.H.	76→69	9½ ^m	W.	N.	H.G.	good plate
1317	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→70	9 ^m	"	"	"	good plate
1318	A-1	6th mag star	14 ^h 15.5	+48° 20'	May 29	9:11-10:12	1 ^h 01 ^m	0 ^h 02 ^m E.	13" III	6720 H.P.	fair	good	W.H.	75→71	9 ^m	W.	N.	H.G.	good plate
1318	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	73→72	9 ^m	"	"	"	good plate
1319	A-2	7th mag star	16 ^h 11.5	+38° 20'	May 29	10:48-11:48	1 ^h 00 ^m	0 ^h 21 ^m E.	13" III	6720 H.P.	fair-	good	W.H.	76→72	9 ^m	W.	N.	H.G.	good plate
1319	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→70	9 ^m	"	"	"	good plate
1320 ^E	A-1	6th mag star	17 ^h 02 ^m	+34° 59'	May 29	11:58-12:58	1 ^h 00 ^m	0 ^h 02 ^m E.	13" I	6720 H.P.	fair	good	W.H.	74→72	9 ^m	W.	N.	H.G.	good plate
1320	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→70	9 ^m	"	"	"	good plate
1321 ^E	A-4	Σ1932 Coronae Borealis	15 ^h 16 ^m	+27° 08'	May 30	9:30-10:30	1 ^h 00 ^m	0 ^h 41 ^m E.	13" I	6720 H.P.	good	good	W.H.	76→70	9 ^m	W.	N.	H.G.	good plate
1321	"	6th mag.	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→69	9 ^m	"	"	"	good plate

80 negative		Region circles 1938			Year 1938	Exposure		Hour Angle at end of Exposure	Plate holders I+III	Plate Emulsion	Seeing		Development			Telescope East or West of Polar Axis	Writing at N. or S. and plate	Observer	Remarks
no.	Series	Guide Star	RA	DECL.	Date (old astro. day)	Time	net		Telescope		stead.	Transp	Dev.	Temp °F.	Time				
1322	A-3	ε Coronae Borealis	15 ^h 55. ^m ₂	+27° 08'	May 30	10:37-11:37	1 ^h 00 ^m	0 ^h 12 ^m E.	13" III	6720 (old) H.P.	good	fair	new added W.H.	76→70	8 ^m	W.	N.	H.G.	good images a little fog (old) and some haze -- transp. pl.
1322	"	4th mag.	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→69	9 ^m	"	"	"	"
1323	B-3	6th mag. star	13 ^h 20. ^m ₃	+47° 21'	June 1	10:25-11:25	1 ^h 00 ^m	2 ^h 18 ^m W.	13" III	6720 H.P.	good	good	new added W.H.	76→71	8 ³ / ₄ ^m	W.	N.	H.G.	a little moonlight & double images
1323	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	75→73	9 ^m	"	"	"	5" broken plate
1324	A-3	6th mag. star	15 ^h 20. ^m ₄	+39° 52'	June 1	11:37-12:37	1 ^h 00 ^m	1 ^h 31 ^m W.	13" I	very old, 1935 and fogged H.P.	good	good	(new added) W.H.	76→70	7 ¹ / ₂ ^m	W.	N.	H.G.	fogged (new old) corner broken off
1324	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	75→73	9 ^m	"	"	"	good plate
1325	A-3	7th mag. star	16 ^h 11. ^m ₅	+38° 20'	June 2	12:04-13:04	1 ^h 00 ^m	1 ^h 10 ^m W.	13" III	6720 H.P.	fair	good	no new added W.H.	76→70	10 ^m	W.	N.	H.G.	good plate
1325	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	last 77→73	10 ^m	"	"	"	good plate
1326	A-2	6th mag. star	17 ^h 02 ^m	+34° 59'	June 2	13:13-14:13	1 ^h 00 ^m ₀₇	1 ^h 29 ^m W.	13" I	6720 H.P.	not good	good	no new added W.H.	75→70	9 ^m	W.	N.	H.G.	good plate
1326	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	last 77→73	10 ^m	"	"	"	good plate
1327	A-1	7th mag. star	17 ^h 18. ^m ₃	+21° 40'	June 18	9:56-10:56	1 ^h 00 ^m	1 ^h 01 ^m E.	13" I	6720 H.P.	fair	good	entirely new W.H.	75→68	8 ^m	W.	N.	H.G.	good plate
1327	"	"	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	74→70	7 ¹ / ₂ ^m	"	"	"	good plate
1328	A-1	101 Herculis	18 ^h 06. ^m ₅	+20° 08'	June 20	9:48-10:48	1 ^h 00 ^m	1 ^h 51 ^m E.	13" I	new plate 3-7088 H.P.	fair	good	yellow sensitive W.H.	76→68	8 ¹ / ₂ ^m	W.	N.	H.G.	fair, iso good plate
1328	"	5th mag.	"	"	"	"	"	"	5" I	5-6936 H.P.	"	"	"	76→69	8 ^m	"	"	"	good plate
1329	A-1	7th mag. star	17 ^h 50 ^m	+32° 02'	June 20	10:59-11:59	1 ^h 00 ^m	0 ^h 23 ^m E.	13" III	3-7088 H.P.	good	good	W.H.	76→73	8 ^m	W.	N.	H.G.	fair, iso good plate
1329	"	"	"	"	"	"	"	"	5" III	5-6936 H.P.	"	"	"	76→69	8 ^m	"	"	"	good plate
1330	A-2	7th mag. star	17 ^h 18. ^m ₃	+21° 40'	June 21	9:30 ⁰⁴ -10:30 ⁰⁴	1 ^h 00 ^m	1 ^h 16 ^m E.	13" I	6720 (old) H.P.	good	good	new added W.H.	76→72	8 ^m	W.	N.	H.G.	good plate
1330	"	"	"	"	"	"	"	"	5" I	1-7088 H.P.	"	"	"	75→70	8 ^m	"	"	"	good plate
1331	A-1	ε 2372 Lyrae	18 ^h 40. ^m ₄	+34° 34'	June 21	10:47-11:47	1 ^h 00 ^m	1 ^h 21 ^m E.	13" III	3-7088 H.P.	good	good	W.H.	76→72	8 ^m	W.	N.	H.G.	good plate
1331	"	6th mag. star	"	"	"	"	"	"	5" III	1-7088 H.P.	"	"	"	75→70	8 ^m	"	"	"	good plate
1332	A-1	112 Herculis	18 ^h 50 ^m	+21° 29'	June 22	10:30-11:30	1 ^h 00 ^m	1 ^h 44 ^m E.	13" I	3-7088 H.P.	good	good	new added W.H.	76→69	8 ^m	W.	N.	H.G.	good plate
1332	"	5th mag.	"	"	"	"	"	"	5" I	1-7088 H.P.	"	"	"	76→68	8 ^m	"	"	"	good plate
1333	A-1	8th mag. star	19 ^h 35. ^m ₄	+25° 00'	June 22	11:44-12:44 ¹⁶	1 ^h 00 ^m ₁₆	1 ^h 15 ^m E.	13" III	3-7088 H.P.	good	good	W.H.	76→70	8 ^m	W.	N.	H.G.	good plate
1333	"	"	"	"	"	"	"	"	5" III	1-7088 H.P.	"	"	"	76→68	8 ^m	"	"	"	good plate
1334	A-3	7th mag. star	17 ^h 18. ^m ₃	+21° 40'	June 23	9:49-10:49	1 ^h 00 ^m	0 ^h 49 ^m E.	13" III	3-7088 H.P.	good	good	new added W.H.	76→71	8 ¹ / ₂ ^m	W.	N.	H.G.	good plate
1334	"	"	"	"	"	"	"	"	5" III	1-7088 H.P.	"	"	"	76→70	8 ¹ / ₂ ^m	"	"	"	good plate

no.	Series	Guide Star	Region		Date (old astro. day)	Exposure		Hour Angle at end of Exposure	Plateholder	Telescope	Plate Emulsion	Seeing		Development			Telescope East or West of Polar axis	Writing at North or South end of plate	Observer	Remarks
			R.A.	DECL.		Time	net					Stead.	Transp.	Dev.	Temp.	Time				
1	1335	A-2	101 Hercules	18 ^h 06. ^m 5	+20° 08'	June 23	11:06-12:06	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	new added W.H.	76→72	8½	W.	N.	H.G.	good plate
1	1335	"	5th mag. star	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	76→70	8½ ^m	"	"	"	good plate
1	1336	A-3	101 Hercules	18 ^h 06. ^m 5	+20° 08'	June 30	10:06-11:06	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	fair	old W.H.	75→70	10 ^m	W.	N.	H.G.	good plate
1	1336	"	5th mag. star	"	"	"	"	"	5"	I	1-7088 H.P.	"	very good?	"	76→76	9 ^m	"	"	"	good plate
1	1337	A-1	6th mag. star at	18 ^h 40.5	+21° 32'	July 1	12:24-13:24	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	new added W.H.	76→67	10 ^m	W.	N.	H.G.	good plate
1	1337	"	"	"	"	"	"	"	5"	I	H.P.	"	"	"	76→69	9 ^m	"	"	"	good plate
1	1338	A-2	112 Hercules	18 ^h 50 ^m	+21° 29'	July 1	13:55-14:55	1 ^h 00 ^m	13"	III	3-7088 H.P.	good	good	W.H.	75→68	10 ^m	W.	N.	H.G.	double images
1	1338	"	5th mag.	"	"	"	"	"	5"	III	1-7088 H.P.	"	"	"	76→69	9 ^m	"	"	"	cut in double on 5" field
1	1339	A-2	6th mag. star at	18 ^h 40.5	+21° 32'	July 3	12:04-13:04	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	new added W.H.	76→68	10½ ^m	W.	N.	H.G.	good plate
1	1339	"	"	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	76→73	9 ^m	"	"	"	good plate
1	1340	A-1	α Vulpeculae	19 ^h 26.4	+24° 38'	July 20	10:30-11:30	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	W.H.	75→70	8-11?	W.	N.	H.G.	somewhat fogged good images
1	1340	"	5th mag.	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	74→74	7 ^m	"	"	"	also fogged
1	1341	A-2	α Vulpeculae	19 ^h 26.4	+24° 38'	July 22	10:03-12:15	1 ^h 03 ^m	13"	I	3-7088 H.P.	fair	poor	W.H.	74→72	8 ^m	W.	N.	H.G.	somewhat fogged good images
1	1341	"	5th mag.	"	"	"	intermittent due to haze	"	5"	I	1-7088 H.P.	"	"	"	74→74	7 ^m	"	"	"	"
1	1342	A-3	α Vulpeculae	19 ^h 26.4	+24° 38'	July 23	11:17-12:18	1 ^h 01 ^m	13"	I	3-7088 H.P.	good	good	W.H.	74→71	9 ^m	W.	N.	H.G.	somewhat fogged good images
1	1342	"	5th mag.	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	74→72	7½ ^m	"	"	"	"
1	1343	A-1	β 983 Vulpeculae	20 ^h 12½	+25° 31'	Aug. 16	8:47-9:47	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	new W.H.	74→67	7 ^m	W.	N.	H.G.	somewhat fogged good images
1	1343	"	5th mag.	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	75→69	7 ^m	"	"	"	"
1	1344	A-1	6th mag. star at	21 ^h 02½	+26° 34'	Aug. 17	9:14-10:14	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	W.H.	76→72	7 ^m	W.	N.	H.G.	somewhat fogged good images
1	1344	"	"	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	75→72	6½ ^m	"	"	"	"
1	1345	A-2	β 983 Vulpeculae	20 ^h 12½	+25° 31'	Aug. 18	8:39-9:39	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	new added W.H.	76→74	7 ^m	W.	N.	H.G.	somewhat fogged good images
1	1345	"	5th mag.	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	75→71	6½ ^m	"	"	"	"
1	1346	A-1	15 Pegasus	21 ^h 50 ^m	+28° 35'	Aug. 18	9:52-10:52	1 ^h 00 ^m	13"	III	3-7088 H.P.	good	good	W.H.	76→71	7 ^m	W.	N.	H.G.	somewhat fogged good images
1	1346	"	6th mag.	"	"	"	"	"	5"	III	1-7088 H.P.	"	"	"	75→71	6½ ^m	"	"	"	"
1	1347	A-2	6th mag. star at	21 ^h 02½	+26° 34'	Aug. 19	8:53-9:53	1 ^h 00 ^m	13"	I	3-7088 H.P.	good	good	W.H.	75→71	7½ ^m	W.	N.	H.G.	somewhat fogged good images
1	1347	"	"	"	"	"	"	"	5"	I	1-7088 H.P.	"	"	"	73→71	7½ ^m	"	"	"	"

No	Series	Region setting (1939)			Year 1939 Date Old Astr. Day	EXPOSURE		Hour Angle end of Exposure
		Guide Star	R. A.	Dec.		Time	Net	
1359	A-1	7 ^m Double in Bootis	15 ^h 14.3 ^m	+51° 12'	April 20	12 ^h 00 ^m 00 ^s to 13 ^h 00 ^m 00 ^s	60 ^m	0 ^h 46 ^m E
1359	"	"	"	"	"	"	"	"
1360	A-2	7 ^m Double in Bootis	15 14.3	+51 12	Apr. 23	11 ^h 33 ^m 00 ^s to 12 ^h 33 ^m 00 ^s	60	1 ^h 04 ^m E
1360	"	"	"	"	"	"	"	"
1361	A-3	7 ^m Double in Bootis	15 ^h 14.3 ^m	+51° 12'	Apr. 26	13 ^h 53 ^m 00 ^s to 14 ^h 53 ^m 00 ^s	60	1 ^h 30 ^m W
1361	"	"	"	"	"	"	"	"
1362	A-1	9 ^m Star	16 ^h 15.2 ^m	+50° 50'	May 16	11 ^h 23 ^m 00 ^s to 12 ^h 23 ^m 00 ^s	60	0 ^h 43 ^m E
1362	A-1	"	"	"	"	"	"	"
1363	A-2	9 ^m Star	16 15.2	+50 50	May 18	12 ^h 03 ^m 00 ^s to 13 ^h 03 ^m 00 ^s	60	0 ^h 05 ^m W
1363	"	"	"	"	"	"	"	"
1364	A-3	9 ^m Star	16 15.2	+50 50	May 21	11 ^h 23 ^m 00 ^s to 12 ^h 25 ^m 00 ^s	62	0 ^h 21 ^m E
1364	A-3	"	"	"	"	"	"	"
1365	A-1	7 ^m Star	17 ^h 14.5 ^m	+46° 51'	June 10	11 ^h 11 ^m 00 ^s to 12 ^h 11 ^m 00 ^s	60	0 ^h 15 ^m E
1365	"	"	"	"	"	"	"	"
1366	A-2	7 ^m Star	17 14.5	+46 51	June 12	10 ^h 44 ^m 55 ^s to 11 ^h 44 ^m 55 ^s	60	0 34 E
1366	"	"	"	"	"	"	"	"
1367	A-1	6 ^m Star	18 12.0	+43 20	June 12	12 ^h 05 ^m 00 ^s to 13 ^h 05 ^m 00 ^s	60	0 10 ^m E
1367	"	"	"	"	"	"	"	"
1368	A-3	7 ^m Star	17 14.5	+46 51	June 14	10 40 00 to 11 40 00	60	0 31 ^m E
1368	"	"	"	"	"	"	"	"
1369	A-2	6 ^m Star	18 12	+43 20	June 14	11 48 00 to 12 48 00	60	0 ^h 20 ^m E
1369	"	"	"	"	"	"	"	"
1370	A-3	6 ^m Star	18 12	+43 20	June 17	11 30 00 to 12 30 00	60	0 26 ¹ / ₂ E
1370	"	"	"	"	"	"	"	"

Telescope	Plate Emulsion	Seeing		DEVELOPMENT			Position of Telescope	writing on Plate	Observed	Remarks
		Trans.	Stead.	Kind	Temp	Time				
13"	I 3 7088 B H.P.	good	1 good	Wallace Hyd.	73-67	8 ^m	W	N	H.G	good plate some fog
5"	"	"	"	"	70-	"	"	"	"	"
13"	I "	"	good	"	74-69	"	"	"	"	good plate some fog
5"	"	"	"	"	72-	"	"	"	"	"
13"	I H.P. 3 7088 B	good	Fair	"	75-70	"	"	"	"	good plate some fog
5"	8 7310	"	"	"	72-	"	"	"	"	"
13"	II 8 7203 H.P.	good	good	"	72-70	"	"	"	"	no too dirty to blink well matched with 1364
5"	8 7310	"	"	"	76-69	"	"	"	"	"
13"	II "	good	good	"	73-69	"	"	"	"	no Companion images to stars brighter than 15.7
5"	"	"	"	"	73-68	"	"	"	"	"
13"	II "	good	Fair	"	73-69	"	"	"	"	too dirty to blink well matched with 1362
5"	"	"	"	"	"	"	"	"	"	"
13"	I "	good	good	"	72-66	"	"	"	"	no too dirty to blink matches 1368 well
5"	"	"	"	"	73-	"	"	"	"	"
13"	I "	good	good	"	73-69	"	"	"	"	"
5"	"	"	"	"	73-71	"	"	"	"	"
13"	III "	good	Fair Poor Fair	"	72-70	"	"	"	"	"
5"	"	"	"	"	73-71	"	"	"	"	"
13"	III "	good	good	"	73-69	"	"	"	"	no too dirty to blink matches 1365 well
5"	"	"	"	"	72-70	"	"	"	"	"
13"	I "	good	good	"	73-71	"	"	"	"	no too dirty to blink
5"	"	"	"	"	72-70	"	"	"	"	"
13"	I Hama R.P. Pass	good	good	"	73-69	"	"	"	"	no too dirty to blink
5"	Iso Presto	"	"	"	72-69	"	"	"	"	no No Hama R.P. left

No.	Series	Region		Setting (1939)		Year 1939 Date Old Ast. Day	EXPOSURE		H.A. End of Exp.	Telescope or Obj	Plate or Emulsion	Seeing		Development		Position of Telescope	Wrt. Time of Plate	Observer	Remarks
		Guide Star	R. A.	Dec	Time		Net	Trans.				Stead	Kind	Time	Temp				
1371	A-1	6 ^m Star	19 ^h 00 ^m	+48° 00'	June 17	12 45 00-13 45 00	60 ^m	0 ^h 01 ^m W	13"	Hammer U.R.P. & 7203	good	good	Wallace Hydro	8 ^m	72-68	W	N	HG	too dirty to blink no
1371	"	"	"	"	"	"	"	"	5"	Hammer U.R.P. & 7310	"	"	"	"	72-69	"	"	"	"
1372	A-2	6 ^m Star	19 00	+48 00	June 20	12 08 00 to 13 08 00	60	0 24 E	13	Hammer U.R.P. & 7203	good	good	"	"	73-69	"	"	"	Too dirty to blink no
1372	"	"	"	"	"	"	"	"	5	Iso Med	"	"	"	"	"	"	"	"	No 5x10 Hammer Left.
1373	A-3	6 ^m Star	19 ^h 00 ^m	+48° 00'	June 22	13 ^h 20 ^m 00 ^s to 14 ^h 20 ^m 00 ^s	60	0 ^h 36 ^m W	13	Hammer U.R.P. & 7203	good	good	"	"	73-68	"	"	"	Companion images from 5 mag. star and brighter No 5x10 Hammer Left
1373	"	"	"	"	"	"	"	"	5	Iso Med	"	"	"	"	72-69	"	"	"	"
1374	AB-1	9 th mag. star	21 ^h 48.0 ^m	+32° 27'	Oct. 11	8:00-9:30	90 ^m	0 ^h 35 ^m W.	13" (8x10)	Cr. Hi Speed Special 297892	good	4-2	Wallace Hydro	9 ^m	73-67	W.	N.	cwt.	good plate
1374	"	"	"	"	"	"	1 ^h 30 ^m	"	5"	"	"	"	"	8 ^m	72-67	"	"	"	good plate
1375	AB-2	9 th mag. star	21 ^h 48.0 ^m	+32° 27'	Oct. 12	7:28-10:00	2 ^h 30 ^m	1 ^h 08 ^m W.	13" (8x10)	Cr. Hi Speed Special	good	4-3	"	9 ^m	71-67	W.	N.	cwt.	good plate
1375	"	"	"	"	"	"	"	"	5"	"	"	"	"	8 ^m	72-68	"	"	"	good plate
1376	AB-3	9 th mag. star	21 ^h 48.0 ^m	+32° 27'	Oct. 13	7:30-9:30	2 ^h 00 ^m	0 ^h 43 ^m W.	13" (8x10)	Cr. Hi Speed Special	good	1,2,3,4	"	9 ^m	72-67	W.	N.	cwt.	good plate
1376	"	"	"	"	"	"	"	"	5"	"	"	"	"	8 ^m	72-67	"	"	"	good plate
1377	AB-4	9 th mag. star	21 ^h 48.0 ^m	+32° 27'	Oct. 14	7:36-9:36	2 ^h 00 ^m	0 ^h 52 ^m W.	13" (8x10)	Cr. Hi Speed Special	fair+	3,4,5	"	9 ^m	73-67	W.	N.	cwt.	good plate
1377	"	"	"	"	"	"	"	"	5"	"	"	"	"	8 ^m	73-67	"	"	"	good plate
1378	B-1	8 th mag. star	24 ^h 39	+40° 22'	Oct. 17	9:35-12:05	2 ^h 30 ^m	0 ^h 42 ^m W.	13" (8x10)	Cr. Hi Speed Special	good	3-4	"	9 ^m	74-68	W.	N.	cwt.	Superb plate
1378	"	"	"	"	"	"	"	"	5"	"	"	"	"	8 ^m	74-68	"	"	"	Superb plate
<u>Long exposures, 2 1/2 hrs, on the Ecliptic ↓</u>																			
1379	AB-1	9 th mag. star	1 ^h 19 ^m	+8° 12'	Nov. 6	8:40-11:10	2 ^h 30 ^m	0 ^h 26 ^m W.	13" I 14x17	Cr. Hi Speed Special 297892	good?	3-1	"	9 ^m	72-70	W.	N.	cwt.	good plate
1379	"	"	"	"	"	"	"	"	5" I	297892	"	"	"	7 ^m	72-67	"	"	"	good plate
1380	C-1	6 th mag. star	4 ^h 20.0 ^m	+20° 54'	Nov. 6	11:50-14:20	2 ^h 30 ^m	0 ^h 36 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392	good	3-1	"	9 ^m	72-70	W.	N.	cwt.	good plate
1380	"	"	"	"	"	"	"	"	5" I	297892	"	"	"	7 ^m	72-67	"	"	"	good plate
1380 1/2	B-1	6 th mag. star Friends Comet	17 ^h 02 ^m	+34° 59'	Nov. 7	7:10-7:30	0 ^h 20 ^m	4 ^h 55 ^m W.	5" I only	Cr. Hi Speed Special 297892	good	3-1	"	9 ^m	75-70	W.	N.	cwt.	fair plate
1381	AB-1	Pi 223 Aries	1 ^h 56 ^m 12 ^s	+12° 00.3'	Nov. 7	8:00-10:30	2 ^h 30 ^m	0 ^h 46 ^m E.	13" I 14x17	Cr. Hi Speed Special 298392	good	3-1	"	9 ^m	72-74	W.	N.	cwt.	good plate
1381	"	" mag.=6.3	"	"	"	"	"	"	5" I	297892	"	"	"	8 ^m	75-70	"	"	"	good plate
1382	B-1	14 Tauri	3 ^h 40 ^m 19 ^s	+19° 28.6'	Nov. 7	11:00-13:30	2 ^h 30 ^m	0 ^h 30 ^m W.	13" III 14x17	"	good	3-1	some new added	9 ^m	72-70	W.	N.	cwt.	good plate
1382	"	" mag.=6.5	"	"	"	"	"	"	5" I	"	"	"	"	8 ^m	74-69	"	"	"	good plate
1383	AB-2	Pi 223 Aries	1 ^h 56 ^m 12 ^s	+12° 00.3'	Nov. 9	8:40-11:15	2 ^h 35 ^m	0 ^h 06 ^m W.	13" I 14x17	Cr. Hi Speed Special 298392 old Hammer Press Ultra Rapid conspic. slow	fair to good	0-2	"	10 ^m	73-69	W.	N.	cwt.	good plate
1383	"	" mag.=6.3	"	"	"	"	"	"	5" I	5 7492 B	"	"	"	10 ^m	74-71	"	"	"	good plate

100 negative		Region	exact positions for 1948 and by setting circles (rough)		Date year 1939 old astro. day	Exposure		Hour Angle at end of Exposure	Plateholders I or III Telescope	Plate or Emulsion	Seeing		Development			Position of telescope side of polar axis	Position writing on which end of plate	Observer	Remarks
No.	Series	Guide Star	R.A.	DECL.		Time	net				Transp	Stead.	Dev.	Time	Temp				
1384 ^E	C-2	6th mag. star	4 ^h 20.0	+20° 54'	Nov. 9	11:43-14:13	2 ^h 30 ^m	0 ^h 40 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392 old Hammer Press ultra Rapid 5 7498 B	very good	2-1	Wallace	10 ^m	73→68	W.	N.	CWT,	good plate
1384	"	"	"	"	"	"	"	"	5" I	"	"	"	Hydro.	10 ^m	74→71	"	"	"	good images broke in half.
1385 ^E	AB-3	9th mag. star	1 ^h 19 ^m	+8° 12'	Nov. 10	7:46-10:16	2 ^h 30 ^m	0 ^h 13 ^m E.	13" I 14x17	Cr. Hi Speed Special 298392 old Hammer Press ultra Rapid 5 7498 B	good	1-3	"	10 ^{1/2} ^m	73→70	W.	N.	CWT,	good plate
1385	"	"	"	"	"	"	"	"	5" I	"	"	"	"	11 ^m	75→72	"	"	"	good plate
1386 ^E	B-2	14 Tauri mag. = 6.5	3 ^h 40 ^m 19 ^s	+19° 28.6'	Nov. 10	10:30-13:00	2 ^h 30 ^m	0 ^h 11 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392 old Hammer Press ultra Rapid 5 7498 B	good	3-1	"	11 ^m	74→72	W.	N.	CWT,	good plate
1386	"	"	"	"	"	"	"	"	5" I	"	"	"	"	11 ^m	75→72	"	"	"	good plate white streaks
1387 ^E	AB-3	Pi 223 Arietis mag. = 6.3	1 ^h 56 ^m 12 ^s	+12° 00.3'	Nov. 11	8:15-10:45	2 ^h 30 ^m	0 ^h 11 ^m E.	13" I 14x17	Cr. Hi Speed Special 298392	good	1-3	"	9 ^{1/2} ^m	72→76	W.	N.	CWT,	good plate
1387	"	"	"	"	"	"	"	"	5" I	Cr. Hi Speed Special 298392	"	"	"	9 ^m	73→69	"	"	"	good plate
1388 ^E	C-3	6th mag. star	4 ^h 20.0	+20° 54'	Nov. 11	11:00-13:30	2 ^h 30 ^m	0 ^h 05 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392	good	1,2,3	"	10 ^m	74→70	W.	N.	CWT,	good plate
1388	"	"	"	"	"	"	"	"	5" I	Cr. Hi Speed Special 297892	"	"	"	9 ^m	73→69	"	"	"	good plate white streaks on emulsion
1389 ^E	AB-3	9th mag. star	1 ^h 19 ^m	+8° 12'	Nov. 12	7:35-10:05	2 ^h 30 ^m	0 ^h 15 ^m E.	13" I 14x17	Cr. Hi Speed Special 298392	good	2-3	"	10 ^m	73→71	W.	N.	CWT,	good plate
1389	"	"	"	"	"	"	"	"	5" I	Cr. Hi Speed Special 298392	"	"	"	9 ^m	76→73	"	"	"	good plate
1390 ^E	B-3	14 Tauri mag. = 6.5	3 ^h 40 ^m 19 ^s	+19° 28.6'	Nov. 12	10:30-13:00	2 ^h 30 ^m	0 ^h 19 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392	good fair	1,2,3	"	10 ^{1/2} ^m	74→70	W.	N.	CWT,	good plate
1390	"	"	"	"	"	"	"	"	5" I	Cr. Hi Speed Special 297892	"	"	"	9 ^m	76→73	"	"	"	good plate, some white streaks on emulsion
1391 ^E	C-1	W Arietis mag. = 6.3	2 ^h 29 ^m 37 ^s	+14° 46.1'	Nov. 13	9:15-11:45	2 ^h 30 ^m	0 ^h 18 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392	good	1,2,3,4	"	10 ^m	72→69	W.	N.	CWT,	good plate
1391	"	"	"	"	"	"	"	"	5" I	"	"	"	"	10 ^m	74→69	"	"	"	good plate
1392 ^E	B-1	8th mag. star 10th mag. star 2' east	3 ^h 09.0	+17° 09'	Nov. 14	12:01-12:03 -14:33	2 ^h 30 ^m	2 ^h 31 ^m W.	13" I 14x17	Cr. Hi Speed Special 298392	good	2,3,4	"	10 ^m	73→74	W.	N.	CWT,	good plate
1392	"	"	"	"	"	"	"	"	5" I	"	"	"	"	10 ^m	73→68	"	"	"	good plate
1393 ^E	C-2	W Arietis mag. = 6.3	2 ^h 29 ^m 37 ^s	+14° 46.1'	Nov. 15	11:25-14:00	2 ^h 35 ^m	2 ^h 41 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392	fair good	1,2,3	"	10 ^m	75→73	W.	N.	CWT,	good plate
1393	"	"	"	"	"	"	"	"	5" I	"	"	"	"	10 ^m	75→69	"	"	"	good plate
1394 ^E	C-3	W Arietis mag. = 6.3	2 ^h 29 ^m 37 ^s	+14° 46.1'	Nov. 16	9:45-12:10	2 ^h 25 ^m	0 ^h 55 ^m W.	13" III 14x17	Cr. Hi Speed Special 298392	good	1,2,3	"	10 ^m	76→73	W.	N.	CWT,	good plate
1394	"	"	"	"	"	"	"	"	5" I	"	"	"	"	10 ^m	74→70	"	"	"	good plate
1395 ^E	B-2	8th mag. star	3 ^h 09.0	+17° 09'	Nov. 16	12:30-15:00	2 ^h 30 ^m	3 ^h 06 ^m W.	13" I 14x17	Cr. Hi Speed Special 298392	good	1,2,3,4	"	10 ^m	76→74	W.	N.	CWT,	good plate
1395	"	"	"	"	"	"	"	"	5" I	"	"	"	"	10 ^m	74→70	"	"	"	good plate
1396 ^E	B-3	8th mag. star	3 ^h 09.0	+17° 09'	Nov. 17	11:15-13:45	2 ^h 30 ^m	1 ^h 55 ^m W.	13" I 14x17	Cr. Hi Speed Special 298392	good	3,3,4,5	"	10 ^m	75→73	W.	N.	CWT,	good plate
1396	"	"	"	"	"	"	"	"	5" ±	"	"	"	"	10 ^m	73→73	"	"	"	good plate

dark drawing widely
lost 5m but images
clear & by 0.1m

104 Negative		Region			Exact positions for 1940 and by setting circles (rough)		Date year 1939 old astro nomical day	Exposure		Hour Angle at end of Exposure	Plateholders I or III Telescope	Plate or Emulsion	Seeing		Development		Position of telescope side of polar axis	Writing on N or S. end of plate	Observer	105 Remarks	
no.	Series	Guide Star	R.A.	DECL.		Time	net					Transp	Stead.	Kind of Dev.	Time	Temp					
1397	C-1	8th mag star	3h 09.0	+17° 09'	Dec. 3	8:35-11:05	2h 30m	0h 18m W.	13" I 14x17	Cr. Hi Speed Special 29837	good?	1, 2, 3	Wallace Hydro 9oz new added	10m	75-73	W.	N.	CWT.		fairly good plate evidence of some haze images slightly elongated?	
1397	"	"	"	"	"	"	"	"	5" I	"	fair+? haze near horizon	"	"	"	9m	74-70	"	"	"	good plate	
1398	B-1	ι Tauri mag=4.8	4h 59m 30	+21° 30.4	Dec. 4	9:45-12:30	2h 45m	0h 04m E	13" I 14x17	"	good	0, 1, 2	no new added	10m	76-75	W.	N.	CWT.		fairly good plate images so ablaten softened from seeing	
1398	"	"	"	"	"	"	"	"	5" I	"	"	exploding dusting motion fuzzy ball	"	9m	74-73	"	"	"	"	good plate	
1399	C-2	8th mag star	3h 09.0	+17° 09'	Dec. 6	7:30-9:55	2h 25m	0h 41m E	13" III 8x10	"	good?	3, 4, 5, 6	5oz new added	10m	74-78	W.	N.	CWT.		good plate	
1399	"	"	"	"	"	"	"	"	5" I	"	some haze over Orion	"	"	9m	76-74	"	"	"	"	good plate	
1400	B-2	ι Tauri mag=4.8	4h 59m 30	+21° 30.4	Dec. 6	10:15-13:00	2h 45m	0h 34m W.	13" I 14x17	"	good till 11:00 fair till 11:45 good till 12:00 fair till 12:30 then good till 13:00	2, 3, 4	"	10m	76-74	W.	N.	CWT.		seems to be a good plate	
1400	"	"	"	"	"	"	"	"	5" I	"	"	"	"	9m	76-74	"	"	"	"	good plate	
1401	C-1	18 Orionis mag=5.8	5h 12m 43	+11° 16.2	Dec. 7	10:45-13:15	2h 30m	0h 44m W.	13" I 14x17	"	good	3, 4, 5	8oz new added	10m	75-70	W.	N.	CWT.		good plate	
1401	"	"	"	"	"	"	"	"	5" I	"	"	"	"	9m	75-72	"	"	"	"	good plate	
1402	B-3	ι Tauri mag=4.8	4h 59m 30	+21° 30.4	Dec. 8	10:00-12:30	2h 30m	0h 11m W.	13" I 14x17	"	fair to good?	1, 2, 3, 4	no new added	11m	76-72	W.	N.	CWT.	evidence of some haze	good plate	
1402	"	"	"	"	"	"	"	"	5" I	"	"	"	"	10m	76-73	"	"	"	"	good plate	
1403	B-4	ι Tauri mag=4.8	4h 59m 30	+21° 30.4	Dec. 10	9:50-12:20	2h 30m	0h 09m W.	13" I 14x17	"	good?	1, 2, 3, 4	no new added dev. getting somewhat spent	11 1/2m	78-74	W.	N.	CWT.		good plate	
1403	"	"	"	"	"	"	"	"	5" I	"	"	"	"	11m	76-73	"	"	"	"	good plate	
1940																					
↓ No 5" plates, Cogshell camera off																					
1404	AC-1	6th mag star	13h 23.7	+46° 21'	Mar. 29	10:30-11:31	1h 00m	1h 50m E.	13" I	new batch Cr. Hi Speed Special 298635	white aurea	2, 3, 4	30oz new	9m	74-74	W.	N.	CWT.		good images a little extra fog - aurea, dust?	
1405	AB-1	λ Bootis mag=4.2	14h 14m 06	+46° 21.9	Mar. 29	11:45-12:45	1h 00m	1h 25 1/2m E	13" III	"	light haze banks at low altitudes	2, 3, 4	"	9 1/2m	72-82	W.	N.	CWT.		good images extra sky fog	
1406	AB-2	λ Bootis mag=4.2	14h 14m 06	+46° 21.9	April 3	11:05-12:25	1h 20m	1h 26m E.	13" III	"	fair haze	2, 3, 4	"	10m	73-71	W.	N.	CWT.		good images haze around bright stars	
1407	AC-2	6th mag star	13h 23.7	+46° 21'	April 6	10:00-11:00	1h 00m	1h 49m E	13" I	"	good	1, 2, 3	30oz new added	10m	74-73	W.	N.	CWT.		good plate	
1408	AB-3	λ Bootis mag=4.2	14h 14m 06	+46° 21.9	April 6	11:15-12:20	1h 05m	1h 19m E.	13" III	"	good	0, 1, 2, 3	"	10m	75-73	W.	N.	CWT.		images slightly soft from seeing	
1409	A-1	7th mag star	14h 03.1	+56° 50'	April 7	11:12-12:12	1h 00m	1h 13m E	13" I	"	good+	3, 4, 5	8oz new added	11m	73-73	W.	N.	CWT.		good plate	
1410	AB-1	6th mag star	15h 06.4	+50° 17'	April 7	12:40-13:40	1h 00m	0h 48m E.	13" III	"	good+	2, 3, 4	"	11m	75-73	W.	N.	CWT.		good plate	
1411	AB-1	7th mag star	16h 05.3	+49° 15'	April 8	13:00-14:00	1h 00m	1h 23m E	13" I	"	good	3, 4, 5	none added	11m	78-74	W.	N.	CWT.		good plate	
1940																					

108 Negative		Region	Positions for 1940 from Angelander's or Boss corrected for Precession		Date year 1940 old astron. day	Exposure		Hour Angle at end of Exposure
#	Series	Guide Star	R.A.	DECL.		Time	Net	
✓E	1412	AC-3	6th mag. star	13 ^h 23.7 ^m +46° 21'	April 10	10:50-11:50	1h 00 ^m	0h 44 ^m E
	1413	AB-2	6th mag. star	15 ^h 06.4 ^m +50° 17'	April 10	12:05-13:05	1h 00 ^m	1h 10 ^m E.
	1414	A-2	7th mag. star	14 ^h 03.1 ^m +56° 50'	April 11	11:45-12:45	1h 00 ^m	0h 24 ^m E
	1415	AB-2	7th mag. star	16 ^h 05.3 ^m +49° 15'	April 11	11:45-12:25	0h 40 ^m	pan film + red filter
	1416	AC-4	6th mag. star	13 ^h 23.7 ^m +46° 21'	April 13	11:58-12:40	0h 42 ^m	0h 18 ^m W.
	1417	AB-3	6th mag. star	15 ^h 06.4 ^m +50° 17'	April 13	13:00-14:00	1h 00 ^m	0h 04 ^m E.
	1418	A-3	7th mag. star	14 ^h 03.1 ^m +56° 50'	April 13	14:09 ¹ / ₅ -15:10	1h 01 ^m	2h 10 ^m W.
	1419	AB-3	9th mag. star (wrong star by mistake)	16 ^h 07 ^m +49° 12'	April 17	15:36-16:40	1h 04 ^m	1h 52 ^m W.
	1420	C-1	α ² Librae mag = 2.8	14 ^h 47 ^m 34 ^s -15° 47.5'	May 1	10:15-12:45	2h 30 ^m	0h 10 ¹ / ₂ W.
	1421	AB-1	8th mag. star	16 ^h 58.9 ^m +45° 51'	May 1	13:00-14:00	1h 00 ^m	0h 46 ^m E
	1422	AC-1	7th mag. star	15 ^h 22.2 ^m -18° 17'	May 2	12:00-14:20	2h 20 ^m	1h 15 ^m W.
✓E	1423	C-2	α ² Librae mag = 2.8	14 ^h 47 ^m 34 ^s -15° 47.5'	May 6	10:51-12:51	2h 00 ^m	0h 36 ^m W.
	1424	AB-2	8th mag. star	16 ^h 58.9 ^m +45° 51'	May 6	13:20-14:20	1h 00 ^m	0h 06 ^m E.
✓E	1425	AC-2	7th mag. star	15 ^h 22.2 ^m -18° 17'	May 7	11:25-13:30	2h 05 ^m	0h 45 ^m W.
✓E	1426	C-3	α ² Librae mag = 2.8	14 ^h 47 ^m 34 ^s -15° 47.5'	May 8	10:40-12:45	2h 05 ^m	0h 38 ^m W.
✓E	1427	AC-3	7th mag. star	15 ^h 22.2 ^m -18° 17'	May 9	11:15-13:15	2h 00 ^m	0h 37 ^m W.
	1428	AB-3	8th mag. star	16 ^h 58.9 ^m +45° 51'	May 10	13:00-14:00	1h 00 ^m	0h 10 ¹ / ₂ E
	1429	AC-4	7th mag. star	15 ^h 22.2 ^m -18° 17'	May 11	11:10-11:46 12:26-14:15	2h 25 ^m expos = 2 ^h 00 ^m = 1 ³ / ₄ hr.	1h 47 ^m W.

109	Remarks	Observer	Position of telescope E or W or polar axis	Temp	Time	Development	Seeing	Plate brand emulsion	Plateholders I or III Telescope
						Kind	Transp	Stead	
	fairly good plate images slightly soft	CWT.	W. N.	75→74	11 ^m	Wallace Hydro 60% new added	good	1-2 NE wind	13" I Cramer Ni Speed Special 298635
	good plate	CWT.	W. N.	75→72	11 ^m	-	good	1,2,3	13" III
	good plate	CWT.	W. N.	78→74	11 ^m	no new added	good	2,3,4	13" I
	images slightly soft good plate	CWT.	W. N.	76→73	11 ^m	-	good	fair - haze, 1,2,3,4	13" III
	good plate	CWT.	W. N.	77→72	11 ^m	no new added about 60% old thrown out	good	2,3,4	13" (8x10 emulsion older number)
	good plate	CWT.	W. N.	77→75	10 ¹ / ₂ ^m	10% new added	good	2,3,4	13" III
	good plate	CWT.	W. N.	76→76	10 ¹ / ₂ ^m	(10% new)	good	3,4,5	13" I evidence of slight haze
	good plate run slightly into the dawn	CWT.	W. N.	78→77	10 ^m	no new added	fair	3-4 but much haze near horizon	13" III
	good plate considerable sky fog	CWT.	W. N.	76→72	9 ^m	all new Wallace dev 28% fresh	good	1,2,3	13" III
	good plate	CWT.	W. N.	77→71	8 ¹ / ₂ ^m	all new Wallace dev 28% fresh	good	3-4	13" I
	good plate considerable sky fog	CWT.	W. N.	77→70	9 ^m	no new added	good	2,3	13" I
	good plate	CWT.	W. N.	76→72	10 ^m	no new added	good	1,2,3	13" III
	good plate	CWT.	W. N.	76→71	10 ^m	no new added	good	3-4	13" I
	good plate	CWT.	W. N.	75→75	9 ^m	10% new added	fair + good	1,2,3	13" I
	good plate slightly soft images	CWT.	W. N.	76→71	9 ^m	no new added	fair + good	1-2 → 0,1,2 NE wind	13" III
	good plate	CWT.	W. N.	78→75	11 ^m	no new added	good	1,2,3	13" I
	good plate	CWT.	W. N.	76→72	11 ^m	no new added	good	3-4	13" I
	fair plate N. 1/2 good images middle elongated - 5 1/2" double image	CWT.	W. N.	78→73	11 ^m	no new added	good fair → good, out fair → good good	1,2,3	13" I new emulsion 299354

Region		Positions for 1940 either Boss' positions or circles of telescope		Date	Exposure		Hour Angle at end of Exposure	Plateholders I or III Telescope	Plate Brand Emulsion	Seeing	Development			Position taken at E. or W. of axis	Writing at N. or S. end of plate	Observer	Remarks		
#	Series	Guide Star	R.A.	DECL.	year 1940 (old astron. official day)	Time	Net			Transp.	Stead.	Dev.	time	Temp.					
1430	AB-1	6th mag. star	17h 43.2	+31° 32'	May 26	11:07-12:07	1h 00m	1h 45m E.	13" I	Cramer Hi Speed Special 299354	good	2,3,4	Wallace Hydro	9m <small>12m old 16m new</small>	76→74	W.	N.	CWT.	10m moonlight good plate
1431	AB-1	8th mag. star	18h 25.3	+31° 10'	May 27	11:30-12:30	1h 00m	2h 00m E	13" III	14x17"	good	3,4,5	-	10m	78→75	W.	N.	CWT.	good plate
1432	AB-1	8th mag. star	17h 47.0	+42° 22'	May 28	11:30-12:30	1h 00m	1h 18m E	13" I	-	good	2-4	-	11m	78→74	W.	N.	CWT.	good plate
1433	AB-2	6th mag. star	17h 43.2	+31° 32'	May 29	11:19-12:30	1h 11m <small>equiv 2.1h?</small>	1h 10m E	13" I	-	fair+ or good?	2,3,4	-	11m	79-74	W.	N.	CWT.	good plate
1434	AB-2	8th mag. star	18h 25.3	+31° 10'	May 30	11:35-12:35	1h 00m	1h 43½m E	13" III	-	good	2,3,4	<small>1/2 old discarded</small> 12m old 16m fresh	9m	76→74	W.	N.	CWT.	good plate
1435	AB-1	6th mag. star	18h 34.9	+43° 10'	May 30	12:57-13:57	1h 00m	0h 31m E	13" I	-	good	2,3,4	-	9m	76→82 <small>no position too hot</small>	W.	N.	CWT.	good plate
1436	AB-2	8th mag. star	17h 47.0	+42° 22'	May 31	11:30-12:30	1h 00m	1h 06½m E	13" I	-	good	2-3	-	10½m	76→73	W.	N.	CWT.	good plate
1437	AB-3	6th mag. star	17h 43.2	+31° 32'	June 1	11:20-12:40 13:10-13:35	1h 45m <small>equiv=50m on 5-5m</small>	0h 07m W.	13" I	<small>good → fair → very poor</small> fair → very poor	2-3	-	11m	78→73	W.	N.	CWT.	good images here around bright stars, check for OK	
1438	AB-3	8th mag. star	18h 25.3	+31° 10'	June 3	11:25¼-12:25¼	1h 00m	1h 37½m E	13" III	-	good	2,3,4	-	11m	78→72	W.	N.	CWT.	good plate
1439	AB-2	6th mag. star	18h 34.9	+43° 10'	June 3	12:45-13:45	1h 00m	0h 27m E	13" I	-	good	2,3,4	-	10½m	78→74	W.	N.	CWT.	good plate
1440	AB-3	8th mag. star	17h 47.0	+42° 22'	June 4	11:30-12:30	1h 00m	0h 50½m E	13" I	-	good	1-3 Jumpy	-	11m	79→74	W.	N.	CWT.	good plate
1441	AB-1	7th mag. star	19h 09.9	+32° 10'	June 5	12:50-13:50	1h 00m	0h 49½m E	13" I	-	good	2,3,4	-	10½m	78→70	W.	N.	CWT.	good plate
1442	AB-3	6th mag. star	18h 34.9	+43° 10'	June 7	12:30-13:30	1h 00m	0h 26m E	13" I	-	good	3-4	<small>some old discarded</small> 16m fresh added	10m	76→76	W.	N.	CWT.	good plate
1443	B-1	^{mag. = 4.8} 20 Ophiuchi	16h 46m 31"	-10° 40' 28"	June 8	10:00-12:30	2h 30m	0h 26m W.	13" III	-	good	1,2,3	<small>no fresh added today</small>	9½m	77→72	W.	N.	CWT.	comp. images and drawn out
1444	AB-2	7th mag. star	19h 09.9	+32° 10'	June 8	12:45-13:45	1h 00m	0h 43m E	13" I	-	good	2-3	-	10m	78→74	W.	N.	CWT.	good plate
1445	D-1	^{mag. = 4.9} 51 Ophiuchi	17h 27m 45.4"	-23° 54' 49"	June 10	11:30-13:10	1h 40m	0h 33m W.	13" III	-	good	1,2,3	<small>no fresh added</small>	9m	78→74	W.	N.	CWT.	Beautiful plate! images slightly elongated
1446	AB-3	7th mag. star	19h 09.9	+32° 10'	June 10	13:25-14:25	1h 00m	0h 06½m W.	13" I	-	good	2,3,4	-	10m	78→77	W.	N.	CWT.	good plate
1447	B-1	Σ 2578 Cygni	19h 43.2	+35° 58'	Aug. 26	10:03-11:03	1h 00m	1h 14m W.	13" I	-	good+	3-4	<small>20% all new</small>	8m	79→78	W.	N.	CWT.	good plate
1448	A-1	6th mag. star	21h 14.0	+44° 00'	Aug. 26	11:24-12:24	1h 00m	1h 04m W.	13" III	-	good	3-4	-	8m	78→71	W.	N.	CWT.	good plate

negative #	Series	Region		Date		Exposure		Hour Angle at end of Exposure	Plate-holder I or III	Emulsion Brand or Plate	Seeing		Development			Position of telescope E. or W. or P. or S.	Writing at N. or S. or E. or W. of plate	Observer	Remarks	
		Guide Star	R.A.	DECL.	year 1940	Time	Net				Transp	Stand	Dev.	Time	Temp					
1449	A-1	5th mag star (10th mag comp 2' left)	22h 03.6	+44° 43'	Aug. 28	12:00-13:00	1h 00m	0h 58 1/2m W.	13" I 14x17	Cramer Hi Speed Special	good	3-4	Wallace Hydro 100% fresh added	9m	78-74	W.	N.	CWT.	cut to deep 15m tailed + double images on stars brighter m15	
1450	A-1	6th mag star	22h 57.9	+45° 02'	Aug. 28	13:15-14:15	1h 00m	1h 19 1/2m W.	13" III 14x17	299354	good	3		9m	76-72	W.	N.	CWT.	good plate	
1451	A-1	8th mag star	19h 23.4	+42° 41'	Aug. 29	8:30-9:30	1h 00m	0h 12m W.	13" III 14x17		good	2-3	80% fresh added	9m	77-73	W.	N.	CWT.	good plate	
1452	A-1	8th mag star (11th mag comp 3' L.R.)	20h 17.3	+42° 50'	Aug. 29	11:00-12:00	1h 00m	1h 48 1/2m W.	13" I 14x17		good	3		9m	76-74	W.	N.	CWT.	good plate	
1453	A-1	7th mag star (two 10th mag comp along it)	21h 59.7	+36° 42'	Aug. 29	12:45 1/4-13:45	1h 00m	1h 51m W.	13" (III) 298392 8x10		good	2-3		9m	75-76	W.	N.	CWT.	good plate	
1454	B-2	6 mag double 15" apart Σ 2578 Cygni	19h 43.2	+35° 58'	Aug. 30	9:15-10:15	1h 00m	0h 41m W.	13" I 14x17	299693 (new)	good	3-2-1 → 3	no fresh added today	9m	76-72	W.	N.	CWT.	good plate	
1455	A-1	9th mag star (10 mag comp 7" left)	21h 36.2	+36° 08'	Aug. 30	11:03-12:03 1/4	1h 00m	0h 36m W.	13" III 8x10		good	1,2,3		9m	75-73	W.	N.	CWT.	good plate	
1456	A-2	8th mag star	19h 23.4	+42° 41'	Sept. 3	8:45-9:45	1h 00m	0h 46m W.	13" III 14x17		good	2,3	60% fresh added today	10m	76-75	W.	N.	CWT.	good plate	
1457	A-2	8th mag star	20h 17.3	+42° 50'	Sept. 3	10:00-11:00	1h 00m	1h 07 1/2m W.	13" I 14x17		good	3		10m	78-77	W.	N.	CWT.	good plate	
1458	A-2	5th mag star	22h 03.6	+44° 43'	Sept. 3	12:03.2-12:40 13:20-13:34	Equinox = 45 or 50?	2h 00 1/2m W.	13" I 14x17		good	2-3	12:03-12:40 heavy haze 12:40-13:20 fair → thin	10m	76-76	W.	N.	CWT.	caught by haze under-exposed?	
1459	A-2	6th mag star	21h 14.0	+44° 00'	Sept. 4	8:50-10:00	1h 10m Equinox = 1h 00m?	0h 45 1/2m E	13" III 14x17		good	2-3	60% old discarded 140% fresh added today	9m	74-80	W.	N.	CWT.	good plate	
1460	A-2	7th mag star	21h 59.7	+36° 42'	Sept. 4	11:15-12:20	1h 05m Equinox = 1h 00m?	0h 49m W	13" III 8x10		good	2-3	5-10% = fair to poor	9m	74-73	W.	N.	CWT.	good plate slightly out of focus at 8. end	
1461	A-2	6th mag star	22h 57.9	+45° 02'	Sept. 4	12:37-13:37	1h 00m	1h 08 1/2m W.	13" I		good	2	star wobbling around	10m	74-73	W.	N.	CWT.	good plate	
1462	A-2	9th mag star (10th mag comp 7" left)	21h 36.2	+36° 08'	Sept. 5	10:20-11:01 11:12-11:45	1h 14m Equinox = 1h 05m	0h 42m W.	13" III 8x10		good	3	10:20-10:55 good 10:55-11:01 fair 11:12-11:35 fair 11:35-11:45 good (45% good T)	no new added today	9 1/2m	76-73	W.	N.	CWT.	good plate
1463	A-1	8th mag star	21h 07.6	+35° 01'	Sept. 25	8:30-9:30	1h 00m	0h 14m W.	13" III 8x10		good	2-3	100% new most from last lunation still good, 15% discarded	9	76-74	W.	N.	CWT.	good plate	
1464	B-1	5th mag star (10 mag. 2' left)	22h 03.6	+44° 43'	Sept. 25	9:45-10:45	1h 00m	0h 33m W.	13" I		good	2-3		9 1/4	76-76	W.	N.	CWT.	good plate	
1465	A-1	8 Persei	2h 13.3	+57° 47'	Sept. 25	11:45-12:45	1h 00m	1h 36 1/2m E	13" III 8x10		good	3		9	76-74	W.	N.	CWT.	good plate	
1466	Special	10 Trianguli	2h 15.1	+28° 21'	Sept. 29	10:40-11:02	cut off by cloud & rain 0h 22m	3h 05 1/2m E.	13" III 8x10		good	1-2	60% fresh added today (00.14m)	10m	76-70	W.	N.	CWT.	cloud missing about 1/2 on stars brighter mag 10 good plate	
1467	A-2	8th mag star (11 mag comp 3' left)	21h 07.6	+35° 01'	Sept. 30	8:00-9:00	1h 00m	0h 04m W.	13" III 8x10		good	2,3		9m	76-70	W.	N.	CWT.	good plate	

Negative #	Series	Guide Star	R. A.	DECL.	Date year 1940 (old asterisk den)	Time	Net	at end of Exposure	I or III Telescope	Brand of plate	Stead.	Transp	Dev.	Time	Temp	E. or W. of telescope	N. or S. end of plate	Observer	Remarks
1468	B-2	5th mag star	22h 03.6	+44° 43'	Sept. 30	9:15-10:15	1h 00m	0h 23m W.	13" I 14x17	Cramer Hi Speed Special	2,3	good (w/ly) NE. dir?	Wallace Hydro	9m	76→76½	W.	N.	CWT.	good plate
1469	A-1	7th mag star	24h 57.0	+56° 00'	Sept. 30	10:56-11:56	1h 00m	0h 43m E	13" III 8x10	"	3	good (w/ly)	4m old discarded 6½ oz fresh added today	9m	76→72	W.	N.	CWT.	good plate
1470	A-2	8th mag Perser	2h 13.3	+57° 47'	Sept. 30	12:35-13:35	1h 00m	0h 26½m E	13" III 8x10	"	2-3	good (w/ly)	"	9m	76→72	W.	N.	CWT.	good plate
1471	A-2	7th mag star	24h 51.0	+56° 00'	Oct. 6	12:00-13:00	1h 00m	0h 44½m W.	13" III 8x10	"	1,2,3	good+ some NE wind	no new added today 4oz discarded	10m	74→70	W.	N.	CWT.	good plate
1472	Special for Cassiopeia	7th mag star	2h 03.2	+29° 00'	Oct. 6	13:45-14:45	1h 00m	1h 18m W.	13" III 8x10	"	1-2,3	good+ some NE wind	"	10m	74→70	W.	N.	CWT.	good plate
1473	"	7th mag star	2h 03.2	+29° 00'	Oct. 7	12:20-13:20	1h 00m	0h 04m E	13" III 8x10	"	3	good-	no new added today	10m	77→85	W.	N.	CWT.	good images considerable developer fog
1474	Special for Cassiopeia	7th mag star	19h 21.1	+42° 52'	Oct. 28	9:23-9:43	0h 20m	3h 54m W.	13" III 8x10	"	1-3	fair+	16oz all fresh	10m	76→66	W.	N.	CWT.	fairly good plate images slightly soft
1475	A-1	8th mag star	23h 56.7	+54° 21'	Oct. 30	9:05-10:05	1h 00m	0h 18m W.	13" I 14x17	"	1,2,3	fair+ good-	24oz fresh added today	7m	76→70	W.	N.	CWT.	good plate
1476	A-1	8th mag star	1h 30.0	+56° 31'	Oct. 30	10:23.2-11:25	1h 02m	0h 05m W.	13" III 8x10	"	1,2,3	fair+ good-	"	7m	76→78	W.	N.	CWT.	some developer fog stars slightly out of focus - good plate
1477	B-1	8th mag star	21h 36.2	+36° 08'	Oct. 31	7:17-8:17	1h 00m	0h 54m W.	13" III 8x10	"	3-4,5	good-	no new added today	9m	78→70	W.	N.	CWT.	good plate
1478	A-1	8th mag star	24h 27.2	+64° 58'	Oct. 31	9:07-10:08	1h 01m	0h 05m E	13" III 14x17	"	4	good	"	8½m	76→72	W.	N.	CWT.	good plate
1479	B-1	α Trianguli	1h 49.5	+29° 20'	Oct. 31	10:25-11:25	1h 00m	0h 10½m E	13" I 14x17	"	3-4	good-	"	9m	77→73	W.	N.	CWT.	good plate
1480	A-1	7th mag star	23h 09.8	+64° 26'	Nov. 1	9:16.2-10:16	1h 00m	1h 24m W.	13" I 14x17	"	3-4	good-	no fresh added today	9m	78→74	W.	N.	CWT.	good plate
1481	A-1	β 996 Cephei	23h 50.0	+75° 13'	Nov. 1	10:30½-11:30½	1h 00m	1h 58½m W.	13" III 14x17	"	4	good-	"	8½m	77→74	W.	N.	CWT.	good plate
1482	A-2	8th mag star	23h 56.7	+54° 21'	Nov. 4	9:55-10:55	1h 00m	1h 28m W.	13" I 14x17	"	1-2	good	no fresh added today	9m	77→72	W.	N.	CWT.	good plate
1483	A-2	8th mag star	1h 30.0	+56° 31'	Nov. 4	11:10-12:10	1h 00m	1h 10m W.	13" III 8x10	"	1-2	good	"	9m	76→72	W.	N.	CWT.	good plate slightly less in center out of focus
1484	A-2	8th mag star	24h 27.2	+64° 58'	Nov. 4	12:55-13:55	1h 00m	3h 58m W.	13" III 14x17	"	1-2	good	"	9m	75→74	W.	N.	CWT.	images slightly soft fairly good plate
1485	B-1	7th mag star	23h 09.8	+64° 26'	Nov. 24	7:17-8:17	1h 00m	0h 55m W.	13" I 14x17	"	1,2,3	good	dev. last 13oz old 20oz new	10m	76→74	W.	N.	CWT.	images slightly soft good plate
1486	B-1	β 996 Cephei	23h 50.0	+75° 13'	Nov. 24	8:30-9:30	1h 00m	1h 28m W.	13" III 14x17	"	1,2,3	good	dev. second	10m	76→70	W.	N.	CWT.	slightly soft good plate

Negative #	Series	Region		circles 1940		Date year 1940 (old astron. day)	Exposure		Hour Angle at end of Exposure	Plateholder I or III to Telescope	Emulsion (Brand of plate)	Seeing		Development		Position of Telescope E or W of polar axis		Observer	Remarks	
		Guide Star	R.A.	DECL.	Time		Net	Stead				Transp	Dev. (Wallace Hyde)	Time	Temp. Fols	W. or S. end of plate	N. or S. end of plate			
1487	A-1	49 Cass	2h 00.4	+75° 51'	Nov. 24	10:50-11:50	1h 00 ^m	1h 38 ^m W.	13" 14x17	-	1,2,3	good?	dev. first today	9m	74→70	W.	N.	CWT.	(images slightly soft) good plate	
1488	B-1	8th mag. star	24h 27.2	+64° 58'	Nov. 25	8:51-9:55	1h 04 ^m	1h 20 ^m W.	13" III 14x17	"	1,2,3	NE wind good	no fresh added today none discarded	10 ^m	76→70	W.	N.	CWT.	images somewhat soft, normal mag. reach.	
1489	A-1	Σ163 Cassiopeia	1h 47.0	+64° 36'	Nov. 25	10:12-11:20	1h 08 ^m	1h 25 1/2 ^m W.	13" I 14x17	-	0,1,2,3	good	-	9m	78→72	W.	N.	CWT.	soft images fair plate	
1490	B-1	Comet Cunningham	19h 17 ^m	+30° 56'	Nov. 27	6:54-7:34	0h 40 ^m	4h 16 ^m W.	13" II 8x10	-	2	NE wind good	no fresh added today	10 ^m	78→72 1/2	W.	N.	CWT.	fairly good plate comet had double tail 30° ap	
1491	B-1	8th mag. star	23h 56.7	+54° 21'	Nov. 27	8:00-9:00	1h 00 ^m	1h 03.2 ^m W.	13" I 14x17	-	1,2,3	NE wind good	-	10 ^m	77→72	W.	N.	CWT.	fairly good plate images a little soft	
1492	B-1	8th mag. star	1h 30.0	+56° 31'	Nov. 27	9:49-10:49	1h 00 ^m	1h 19 ^m W.	13" III 8x10	-	1-3	some NE wind good	-	10 ^m	78→72 1/2	W.	N.	CWT.	fairly good plate images slightly soft from seeing	
1493	B-2	10 mag. 2' upper right 7th mag. star	23h 09.8	+64° 26'	Nov. 29	7:05-8:05	1h 00 ^m	1h 03 ^m W.	13" I 14x17	-	2-3	good	7oz old discarded 22oz new added today	9 1/2 ^m	78→74	W.	N.	CWT.	fixer slowing up good plate	
1494	B-2	6th mag. 9m. 2' lower left B996 Cephei	23h 50.0	+75° 13'	Nov. 29	8:15-9:15	1h 00 ^m	1h 33 1/2 ^m W.	13" III 14x17	-	2-3	good	no fresh added today	9 1/2 ^m	78→72 1/2	W.	N.	CWT.	fixer slowing up, no 45 min good plate	
1495	A-2	49 Cass	2h 00.4	+75° 51'	Nov. 29	10:00-11:00	1h 00 ^m	1h 08 ^m W.	13" I 14x17	-	2-3	good	no fresh added today	9 1/2 ^m	76→74	W.	N.	CWT.	fixer slowing up, no 45 min good plate	
1496	A-1	4th mag. 2 Cephei	1h 03 ^m	+85° 58'	Dec. 3	10:32-11:32	1h 00 ^m	2h 53 ^m W.	13" I 14x17	3 doz. new plates arrived Dec. 3, 1940 #300512	3,4,5	good	no new added today	11 ^m	77→72	W.	N.	CWT.	some lack of sky fog good plate	
1497	A-1	6th mag. star	4h 28 ^m	+64° 02'	Dec. 3	11:55-12:55	1h 00 ^m	0h 51 ^m W.	13" III	new	3-4	fair+? good	-	10 ^m	76→74	W.	N.	CWT.	some lack of sky fog good plate	
1498	A-3	49 Cass	2h 00.4	+75° 51'	Dec. 4	10:42-11:42	1h 00 ^m	2h 09 1/2 ^m W.	13" I	-	2-3,4	good	no new added today	14 ^m	80→74	W.	N.	CWT.	good plate	
1499	A-1	8 mag. 2' east 7 1/2 mag. star	5h 49.8	+64° 26'	Dec. 4	12:00-13:30	1h 30 ^m	0h 08 ^m W.	13" III	-	3-4→2	good	dev. 1st	12 ^m	76→72	W.	N.	CWT.	images a little soft good plate	
1500	A-1	double 15" apart Σ973 Camel	6h 57.0	+75° 20'	Dec. 4	14:40-16:10	1h 30 ^m	1h 42 ^m W.	13" I	-	2-3	good	dev. 1st	11 ^m	79→76	W.	N.	CWT.	a little extra fog some aurora? good plate	
1501	AB-1	6 mag. star	24h 55.0	+66° 02'	Dec. 7	11:40-12:10	0h 30 ^m	3h 55 ^m W.	13" II 8x10	old slow mislabeled as Hamman's	0,1,2,3	good	no new added	12 ^m	79→72	W.	N.	CWT.	good images plate is slow, no fogging from 1/2 hr by moonlight, 1/2 hr	
1502	C-1	Comet Cunningham	19h 33.4	+15° 11'	Dec. 25	6:53-7:13	0h 20 ^m	5h 30 ^m W.	13" III 8x10	copy of Spaulding's B-1, fact	0,1	good	1st clear night after snow storm	24oz. fresh (all fresh) 8oz fresh added	5 1/2 ^m	77→74	W.	N.	CWT.	fair plate soft images very difficult, poor guiding last ten min in tree tops
1503	B-1	Σ163 Cass	1h 47.0	+64° 36'	Dec. 25	7:55-9:15	1h 20 ^m	1h 18 1/3 ^m W.	13" I 14x17	new #300512	0,1,2	good	dev. 5th Dec 27	9m	75→72	W.	N.	CWT.	soft images from instability seeing fair plate	
1504	B	6th mag. star	8h 28.0	+24° 18'	Dec. 25	13:52.1-14:52	1h 00 ^m	0h 15 1/2 ^m W.	13" 4x5 plate	300512	2-3	good	dev. first	5 1/2 ^m	77→74	W.	N.	CWT.	good plate	
1504	B-1	4 mag. 2 Cephei	1h 03.0	+85° 58'	Dec. 26	8:11-9:11.1	1h 00 ^m	2h 02 1/2 ^m W.	13" I 14x17	-	2,3,4	good	dev. 3rd Dec 27	9m	75→75	W.	N.	CWT.	good plate	
1505	A-1	6m double Σ349 Camelopardalis	3h 06.0	+63° 36'	Dec. 26	9:25-10:25	1h 00 ^m	1h 14 ^m W.	13" III 14x17	-	2-3	good	dev. 4th	9m	76→76	W.	N.	CWT.	good plate	

Negative #	Series	Region	Guide Star	circles 1940		Date year 1940	Exposure		Hour Angle at end of Exposure	Plateholder I or III + telescope	Emulsion (Brand of plate)	Seeing		Development		Telescope E or W. of polar axis	Whitening at N. or S. end of plate	Observer	Remarks
				R.A.	DECL.		Time	Net				Stead.	Transp.	Dev. Wallace Hydro	Time				
1506	B-1	7 1/2 mag star	5h 49.8m	+64° 20'	Dec. 26	12:00-13:00	1h 00m	1h 05 1/2 W.	13" III 14x17	300512	2,3,4	good	8 1/2m	74-72	W.	N.	CWT.	some trouble in driving good plate	
1507	Special 4/15	6th mag star	8h 28.0m	+24° 18'	Dec. 26	13:15-14:15	1h 00m	0h 17 1/3 E	13" 4x5	300512	2,3,4	good	8m	76-73	W.	N.	CWT.	good plate	
1508	Special	Cunningham's Comet	19h 35.0m	+5° 49'	1941 ↓ Jan. 1	6:31.2-6:48.2	0h 17m	5h 31m W.	13" III 8x10	298392	2?	fair → poor	6m	74-68	W.	N.	CWT.	fogged from 4 day moon + twilight. fair plate	
1509	Special	Cunningham's Comet	19h 35m	+3° 54'	Jan. 2	6:31.0-6:35	3 or 4m?		13" I	300512	2	good → fair	6m	76-74	W.	N.	CWT.	fair plate images of comet on two dates	
1510	1/5 E. A-2	Σ 349 Camelopardi	3h 06.0m	+63° 36'	Jan. 3	11:46-12:50	1h 04m	4h 10 1/2 W	13" III 14x17	-	1,2,3	good	10 1/2m	76-75	W.	N.	CWT.	good plate	
1511	B-2	7 1/2 mag star	5h 49.8m	+64° 20'	Jan. 3	13:30-14:30	1h 00m	3h 07.2 W	13" III 14x17	-	2-3	good	10 1/2m	77-74	W.	N.	CWT.	good plate images slightly elongated in center but not elsewhere on the plate	
1512	1/2 E. AB-1	8th mag star	1h 41.7m	+64° 29'	Jan. 16	8:00-9:15	1h 15m	2h 50.3 W.	13" III 8x10	298392	0,1,2	good	9m	76-72	W.	N.	CWT.	fair plate soft images + slightly elongated	
1513	Special	7th mag star Friends' Comet III	22h 19 1/2m	+41° 48'	Jan. 17	7:21-7:41	0h 20m	4h 42 1/2 W	13" III 8x10	-	1-2	good	11m	74-73	W.	N.	CWT.	elongated images fairly good plate bad driving	
1514	C-1	2 Cephei	1h 03.0m	+85° 58'	Jan. 17	8:02-9:15	1h 13m	3h 33m W	13" I 14x17	300512	0,1,2	good	10m	75-72	W.	N.	CWT.	fair plate soft images tube bad seeing	
1515	B-1	double Σ 349 Camelopardi	3h 06.0m	+63° 36'	Jan. 20	9:00-10:00	1h 00m	2h 27m W	13" III 14x17	-	2-4	good	10m	76-76 1/2	W.	N.	CWT.	good plate 13 mag stars slightly elongated.	
1516	1/2 E. B-1	double Σ 973 Camelopardi	6h 57.0m	+75° 20'	Jan. 20	10:20.2-11:20	1h 05m	0h 03 1/2 E	13" I 14x17	-	3	good	9 1/2m	78-80	W.	N.	CWT.	good plate	
1517	1/2 E. AB-2	8th mag star to check a planet suspect	1h 41.7m	+64° 29'	Jan. 31	9:35-10:40	1h 05m	5h 15m W	13" III 8x10	-	1,2,3	good	9 1/2m	76-73	W.	N.	CWT.	fairly good plate images slightly soft some moonlight fog	
1518	1/2 E. B-2	double Σ 973 Camelopardi	6h 57.0m	+75° 20'	Jan. 31	11:05.2-12:10	1h 05m	1h 30m W	13" I 14x17	-	1,2,3	good	10m	76-72	W.	N.	CWT.	good plate	
1519	Special	6+ mag star	7h 19 1/2m	-18° 52'	Feb. 2	13:20-13:50	0h 30m	2h 55 1/2 W.	13" III 8x10	Extra fast Hammer Press (somewhat slow, really) about 1 1/2 mag slower than the usual fast emulsion made up new stock of Feb. 19, 1941	1-2	good	10m	76-70	W.	N.	CWT.	soft images not fogged	
1520	Special	Comet Parashkevopoulos beginning	1h 55 1/2m	+5° 52'	Feb. 27	7:57-8:22	0h 25m	4h 28 1/2 W	13" III 8x10	Cr. Hi Speed Special 298392	3	fair → good → fair	8 1/2m	73-66	W.	N.	CWT.	double images in 8 should not have attempted to follow comet in Decl.	
1521	Special	η Orionis	5h 21.3m	-2° 28'	Feb. 27	10:20-10:40	0h 20m	3h 21m W.	13" I 14x17	300512	3-2	good	8 3/4m	77-71	W.	N.	CWT.	good plate	
1522	E	λ Cancri Photo field	8h 17m	+24° 12'	Feb. 27	12:00-14:00	2h 00m	3h 46m W.	13" III 14x17	-	3-2	good	8m	77-78	W.	N.	CWT.	good plate	
1523	Special	7th mag star	5h 30.8m	-2° 58'	March 17	8:44-8:51	0h 07m	2h 33m W	13" III 8x10	298392	3-4	good	8m	76-70	W.	N.	CWT.	forget to get clips over plate SW. images a little	
1524	A-1	4th mag star 23 Urae Majoris	9h 26.4m	+63° 20'	March 17	9:47-10:47	1h 00m	0h 34m W.	13" I 14x17	300512	2,3,4	good	9m	80-68	W.	N.	CWT.	good plate	

#	Series	Guide Star	R.A.	DECL.	Date	Time	Net	Hour Angle at end of Exposure
1525	A-1	8th mag. star	10h 41.5m	+65° 22'	March 18	11:33-12:33	1h 00m	1h 09 1/2m W
1526	Special	8th mag. star Comet 1941C	2h 05m	+11° 00'	March 19	8:06-8:19	0h 13m	5h 36 1/2m W
1527	A-1	8th mag. star	12h 02.0m	+66° 41'	March 20	12:10-12:40 13:25-14:00	1h 05m Equis = 1h?	0h 04 1/3m W at 12:40
1528	Special	6 Coma Berenices 6th mag. star	12h 13.0m	+15° 18'	March 24	12:00-13:00	1h 00m	16" on Schmitt 0h 29m W
1529	A-2	8th mag. star	12h 02.0m	+66° 41'	March 25	12:35-13:35	1h 00m	1h 19m W
1530	Special	η Orionis	5h 21.3m	-2° 28'	March 27	8:30.2-8:50.2	0h 20m	3h 21 1/2m W using 8" inch diaphragm
1531	A-2	4th mag. 23 Ursae Majoris	9h 26.4m	+63° 20'	March 27	9:50-10:50	1h 00m	1h 16m W.
1532	A-1	8th mag. star	13h 22.3m	+66° 30'	March 27	12:00-13:05	1h 05m Equis = 50m?	0h 24m E
1533	A-2	8th mag. star	10h 41.5m	+65° 22'	March 30	9:30-10:30	1h 00m	0h 07m E
1534	A-3	8th mag. star	12h 02.0m	+66° 41'	March 30	11:55-12:55	1h 00m	0h 58 1/2m W
1535	A-1	7th mag. star	14h 39.0m	+66° 38'	March 30	13:20-14:20	1h 00m	0h 13m E
1536	B-1	7th mag. star	14h 39.0m	+66° 38'	April 22	11:45-12:45	1h 00m	0h 18m E
1537	A-1	8th mag. star	13h 24.8m	+76° 20'	April 22	13:01.1-14:01	1h 00m	2h 12.7m W
1538	B-1	8th mag. star	13h 22.3m	+66° 30'	May 14	9:53-10:53	1h 00m	0h 33m W.
1539	B-1	8th mag. star	13h 24.8m	+76° 20'	May 15	10:00-11:00	1h 00m	0h 42m W.
1540	C-1	9th mag. 4' below 7th mag. star	14h 39.0m	+66° 38'	May 16	11:06-12:06	1h 00m	0h 38m W.
1541	A-1	6th mag. star	14h 55.8m	+82° 46'	May 25	10:40-11:40	1h 00m	0h 30m W.
1542	A-1	9th mag. star	15h 58.2m	+61° 00'	May 25	11:55-12:55	1h 00m	0h 43 1/2m W
1543	A-2	6th mag. star	14h 55.8m	+82° 46'	May 28	10:00-11:00	1h 00m	0h 02 1/2m W

Plateholders	Emulsion	Seeing	Development	Telescope	Writing	Observer	Remarks
13" I 14x17	300512	3-4 good	Dev. Wallace Hydro 38 oz. 2nd day old	W.	N	CWT.	good plate
13" III 8x10	298392	2-3 fair	20 oz. used no more	E.	S.	CWT.	good plate
13" I 14x17	300512	2-4 good → fair	no new used	W.	N.	CWT.	good plate
13" III 8x10	298392	2-3 fair+	no new used	W.	N.	CWT.	good plate
13" I 14x17	300512	2-4 good+	no new used	W.	N.	CWT.	good plate
13" III 14x17	-	3-2 good	6 oz. new added today	W.	N.	CWT.	good plate
13" I 14x17	-	3-4 good	no new added today	W.	N.	CWT.	good plate
13" III 14x17	-	3-4 good	gradually became "happy" after 12:30 6 oz. new added today	W.	N.	CWT.	fair plate under-processed because of fog. How much?
13" III 14x17	-	4 good+	no fresh added 3rd today	W.	N.	CWT.	good plate
13" I 14x17	-	3-4 good	no fresh added 2nd	W.	N.	CWT.	good plate
13" III 14x17	-	3, 2 good	no fresh added 2nd	W.	N.	CWT.	good plate
13" III 14x17	-	3-4 good	28 oz. fresh 1st	W.	N.	CWT.	good plate
13" I 14x17	-	3 → 2 good	no fresh added 2nd	W.	N.	CWT.	good plate
13" III 14x17	-	1-3 good	no new added 1st	W.	N.	CWT.	good plate
13" I 14x17	-	2-3 good	no new added 2nd	W.	N.	CWT.	good plate
13" III 14x17	-	2-3 good	no new added	W.	N.	CWT.	good plate
13" I 14x17	-	3 → 2 good	24 oz. fresh no old	W.	N.	CWT.	broken in two good images some dev. fog.
13" III 14x17	-	2-3 good.	no fresh added	W.	N.	CWT.	good plate
13" I 14x17	-	3-4 good	no fresh added	W.	N.	CWT.	good plate some fog streaks?

Region		circle 1941		Date of year 1941	Exposure	Hour Angle at end of Exposure	Plate-holders I or III 13" telescope	Emulsion (Brand of plate)	Seeing	Development	Telescope E. or W. of solar axis	Writing at N or S end of plate	Observer	Remarks
#	Series	Guide Star	R.A.	DECL	(old astronomical day)	Time	Net		Stead	Transp	Dev.	Time	Temp	
1544	A-1	7th mag. star	15 ^h 52.5 ^m	+71° 32'	May 28	11:15-12:15	1h 00 ^m	III 14x17	3-2	good	Wallace Hydro 2nd	9 ^m	76-72	W. N. CWT. good plate
1545	A-1	9th mag. star	15 ^h 01.9 ^m	+58° 28'	May 29	10:50-11:50	1h 00 ^m	III 8x10	3-2	good	no fresh added today	10 ^m	77-69	W. N. CWT. good plate
1546	A-1	6th mag. star	16 ^h 58.4 ^m	+56° 50'	May 29	12:00-13:00	1h 00 ^m	I 14x17	3-2	good	no fresh added today	12 ^m	76-69	W. N. CWT. good images good plate under mag. in mag.
1547	A-2	9th mag. star	15 ^h 58.2 ^m	+61° 00'	June 1	13:21-14:21	1h 00 ^m	III 14x17	3-2	good+	no fresh added	12 ^m	78-69	W. N. CWT. good plate
1548	B-1	7th mag. star	15 ^h 52.5 ^m	+71° 32'	June 16	11:00-12:00	1h 00 ^m	III 14x17	3-4	very good	100% old 18% fresh	9 2/3 ^m	77-72	W. N. CWT. good plate
1549	B-1	9th mag. star	15 ^h 01.9 ^m	+58° 28'	June 17	10:30-11:30	1h 00 ^m	III 14x17	2-3	good+	no fresh added today	10 ^m	77-72	W. N. CWT. good plate
1550	B-1	6th mag. star	14 ^h 55.8 ^m	+82° 46'	June 17	11:50-12:50	1h 00 ^m	I 14x17	2-3	good+	no fresh added today	10 ^m	77-72	W. N. CWT. good plate
1551	B-2	9th mag. star	15 ^h 01.9 ^m	+58° 28'	June 19	10:34-11:34	1h 00 ^m	III 8x10	2-4	good+	no fresh added today	10 ^m	76-73	W. N. CWT. good plate
1552	B-1	6th mag. star	16 ^h 58.4 ^m	+56° 50'	June 19	11:45-12:45	1h 00 ^m	I 14x17	2-4	good	no fresh added today	10 1/2 ^m	77-72	W. N. CWT. good plate
1553	B-1	9th mag. star	15 ^h 58.2 ^m	+61° 00'	June 20	11:26-12:27	1h 01 ^m	III 14x17	2-4	good	no fresh added today	10 ^m	76-74	W. N. CWT. good plate
1554	A-1	20 Draconis 5th mag.	16 ^h 55.7 ^m	+65° 14'	June 20	12:40-13:40	1h 00 ^m	I 14x17	2-4	good	no fresh added today	11 ^m	77-70	W. N. CWT. good plate
1555	A-1	W Draconis 5th mag.	17 ^h 38.0 ^m	+68° 50'	July 21	12:15-13:15	1h 00 ^m	I 14x17	2	good	24% fresh	8 2/3 ^m	77-74	W. N. CWT. good plate
1556	A-1	7th mag. star	18 ^h 01.9 ^m	+58° 40'	July 26	11:00-12:00	1h 00 ^m	I 14x17	3-2	good	no fresh added today	9 ^m	76-74	W. N. CWT. good plate
1557	A-1	41 Draconis 40 double 15" apart 5th mag.	18 ^h 06.0 ^m	+80° 00'	July 26	12:20-13:20	1h 00 ^m	III 14x17	2-3	good	no fresh added today	9 ^m	78-71	W. N. CWT. good plate
1558	A-1	49 Draconis 6th mag.	18 ^h 59.7 ^m	+55° 33'	July 29	11:45-12:45	1h 00 ^m	I 14x17	2	good+	no fresh added today	9 1/2 ^m	78-72	W. N. CWT. good plate
1559	A-1	8 Draconis 3rd mag.	19 ^h 13 ^m	+67° 33'	July 29	13:00-14:00	1h 00 ^m	III 14x17	2	good+	no fresh added today	10 ^m	79-75	W. N. CWT. good plate
1560	A-1	K Cephei 4th mag, 10 mag star	20 ^h 12.0 ^m	+77° 32'	July 30	12:00-13:00	1h 00 ^m	I 14x17	3-4	good+	no fresh added today	10 ^m	80-70	W. N. CWT. good plate
1561	A-1	4 Cephei 6th mag.	20 ^h 43.0 ^m	+66° 29'	July 30	13:16-14:16	1h 00 ^m	III 14x17	3-4	good+	no fresh added today	10 1/2 ^m	80-72	W. N. CWT. good plate
1562	B-1	20 Draconis	16 ^h 55.7 ^m	+65° 14'	July 31	12:25-13:25	1h 00 ^m	III 8x10	4-2	good+	no fresh added today	11 1/2 ^m	77-74	W. N. CWT. good plate

#	Series	Guide Star	R.A.	DECL.	Date of year 1941 (old action onical day)	Time	Net	Hour Angle at end of Exposure
1563	C-1	20 Draconis ^{5th mag.}	16h 55.7	+65° 14'	Aug. 18	11:00-12:00	1h 00m	4h 25.3 W
1564	B-1	W Draconis ^{5 mag.}	17h 38.0	+68° 50'	Aug. 19	10:18-11:18	1h 00m	3h 05m W.
1565	B-1	8 Draconis ^{3rd mag.}	19h 13m	+67° 33'	Aug. 19	11:30-12:30	1h 00m	2h 42m W.
1566	B-1	49 Draconis ^{6th mag.}	18h 59.7	+55° 33'	Aug. 20	11:21-12:23	1h 02m	2h 52m W.
1567	B-1	4 Cephei ^{6th mag.}	20h 43.0	+66° 29'	Aug. 20	12:35-13:35	1h 00m	2h 21m W.
1568	B-1	41 Draconis ^{double, 15" 5th mag.}	18h 06.0	+80° 00'	Aug. 21	10:31-11:31	1h 00m	2h 58m W.
1569	B-1	K Cephei ^{4th mag., 10m, 7" f}	20h 12.0	+77° 32'	Aug. 21	11:45-12:45	1h 00m	2h 06m W.
1570	B-1	7th mag. star	18h 01.9	+58° 40'	Aug. 22	10:35-11:35	1h 00m	3h 10m W
1571	B-2	49 Draconis ^{6th mag.}	18h 59.7	+55° 33'	Aug. 22	11:51-12:51	1h 00m	3h 28.3 W.
1572	A-1	7th mag. star	23h 12.9	+54° 02'	Aug. 23	13:55-14:55	1h 00m	1h 24 1/2 W
1573	Spaced	Scutum cloud ^{9th mag. star}	18h 47.1	-8° 02'	Aug. 24	9:20-10:50	1h 30m	1h 47 1/2 W.
1574	A-1	6th mag star ^{10 mag star 16}	22h 47.5	+55° 37'	Sept. 15	13:20-14:25	1h 05m	2h 49 1/2 W.
1575	A-1	7th mag. star	20h 58.3	+55° 00'	Sept. 16	10:55-11:55	1h 00m	2h 12.3 W.
1576	A-1	7 Cephei ^{5th mag. 8th mag. 10" about}	22h 02.5	+64° 22'	Sept. 16	12:40-13:45	1h 05m	2h 58 1/2 W.
1577	A-1	47 Cygni R. ^{5 stars in rectangle, 20" apart}	20h 31.7	+35° 02'	Sept. 18	10:40-11:40	1h 00m	2h 31.3 W.
1578	A-1	Σ 2840 Cephei ^{double, 20" apart}	21h 50.1	+55° 31'	Sept. 18	12:30-13:30	1h 00m	3h 03 1/2 W
1579	A-1	8th mag. star	19h 59.3	+54° 56'	Sept. 19	9:15-10:15	1h 00m	1h 42.7 W
1580	A-1	16 Cephei ^{5th mag.}	21h 59.1	+72° 57'	Sept. 19	11:45-12:45	1h 00m	2h 13 1/2 W.
1581	A-2	8th mag. star	19h 59.3	+54° 56'	Sept. 20	9:33.1-10:33	1h 00m	2h 02m? should be 2h 05m W.

Plateholder I or III	Emulsion number (brand-plate)	Seeing	Development	E or W. of polar axis	writing at N or S end of plate	Observer	Remarks
13" telescope	(brand-plate)	Stead	Transp	Dev.	Time	Temp	
13"	III Or. H. Speed 8x10 Special 298392	3-4	good+	Wallace Hyano 15oz new no 2d	7 1/2m	76-74	W. N. cut. good plate
13"	I 14x17 300814	4	good	13oz fresh added	8 1/2m	76-75	W. N. cut. good plate
13"	III 14x17	4	good+	2nd	8 1/2m	77-77	W. N. cut. good plate
13"	I 14x17	3	good	no fresh added today	9m	76-72	W. N. cut. trailed images went to sleep
13"	III 14x17	3-4	good+	2nd	9m	77	W. N. cut. good plate
13"	III 14x17	3-4	very good	no fresh added today	10m	78-72	W. N. cut. good plate
13"	I 14x17	2-4	very good	2nd vig	10m	78-75	W. N. cut. good plate
13"	I 14x17	3	good	no fresh added today	11m	78-70	W. N. cut. good plate
13"	III 14x17	2-4	good+	2nd vig (94)	11m	79-74	W. N. cut. good plate
13"	III 8x10 298392 300814?	3	good+	no fresh added today	12m	78-72	W. N. cut. good plate
13"	III 8x10	3-1	good	no fresh added	11m	78-72	W. N. cut. fair plate soft + elongated images
13"	I 14x17 new batch 301952	0, 1, 2, 3	good	24oz fresh	7m	76-73	W. N. cut. fairly good plate images slightly soft
13"	I 14x17	1, 2, 3	good	no fresh added today	8m	76-72	W. N. cut. good plate
13"	III 14x17	1, 2, 3	good to 13:33	no 3rd fresh	9m	77-72	W. N. cut. aurora tonight some aurora fog
13"	I 14x17	1, 2, 3	good	no fresh added	8m	78-72	W. N. cut. aurora more abated
13"	III 14x17	2, 3, 4	good	no fresh added	8 3/4m	76-71	W. N. cut. some general aurora I think.
13"	I 14x17	3, 4, 5	good	8oz fresh added	9m	77-70	W. N. cut. double images what happened?
13"	III 14x17	2, 3, 4	good		9m	76-70	W. N. cut. good plate
13"	I 14x17	1, 2, 3	good	no fresh added	8 1/4m	80-72	W. N. cut. good plate

144		Region	Circles 1941		Date of year 1941	Exposure		Hour Angle at end of Exposure	Plateholder I or III	Emulsion number (brand & plate)	Seeing	Development		Telescope E. or W. of focal axis	Writing at N or S end of plate	Observer	145			
Negative #	Series	Guide Star	R.A.	DECL.	(old astronomical day)	Time	Net				Stead.	Transp.	Dev.	Time	Temp			Remarks		
1582	B-1	7th mag. star	23 ^h 12. ^m 9	+54° 02'	Sept. 20	12:20-13:20	1h 00 ^m	1h 39 ^m W.	13" L.L. telescope	III (brand & plate)	1, 2, 3	good	Wallace Hydro. no fresh added. rig	9 ^m	78→73	W.	N.	CWT.	good plate	
1583	A-2	5th mag Cephei	22 ^h 02. ^m 5	+64° 22'	Sept. 22	11:00-12:00	1h 00 ^m	1h 37 ^m W.	13" 8x10	III 301952	3-4	good	6oz fresh added	9½ ^m	75½→72	W.	N.	CWT.	good plate	
1584	A-2	10 mag 1' down to 5th mag 6th mag star	22 ^h 47. ^m 5	+55° 37'	Sept. 22	12:17-13:17	1h 00 ^m	2h 09 ^m W.	13" 14x17	I	2, 3, 4	good		10 ^m	76→72	W.	N.	CWT.	good plate	
1585	A-2	7th mag. star	20 ^h 58. ^m 3	+55° 00'	Sept. 23	10:40-11:41	1h 01 ^m	2h 25.7 ^m W.	13" 14x17	I	3, 4, 5	good	no fresh added today	10 ^m	77→70	W.	N.	CWT.	good plate	
1586	A-2	double 20" apart Σ2840 Cephei	21 ^h 50. ^m 1	+55° 31'	Sept. 24	10:25.1-11:25	1h 00 ^m	1h 22 ^m W.	13" 14x17	III	3-4	good	no fresh added today vigorous	11 ^m	78→72	W.	N.	CWT.	good plate	
1587	B-1	7th mag. star	20 ^h 58. ^m 3	+55° 00'	Oct. 10	8:00-9:00	1h 00 ^m	0h 49½ ^m W.	13" 14x17	I	3-5	good	15oz old from last lunation (kept well) good - at last 7oz fresh added	9 ^m	76→80	W.	N.	CWT.	good plate	
1588	B-1	5th mag 16 Cephei	21 ^h 59. ^m 1	+72° 57'	Oct. 13	11:03-12:07	1h 04 ^m	3h 09½ ^m W.	13" 14x17	III	1, 2, 3	good	no fresh added	9 ^m	76→75	W.	N.	CWT.	good plate	
1589	B-1	6th mag. star	22 ^h 47. ^m 5	+55° 37'	Oct. 14	10:15-11:30	1h 15 ^m	1h 48½ ^m W.	13" 8x10	III 298392	0, 1, 2, 3	good	no fresh added	9 ^m	76→72	W.	N.	CWT.	fairly good plate images a little soft.	
1590	C-1	7th mag. star	23 ^h 12. ^m 9	+54° 02'	Oct. 16	11:01-12:01	1h 00 ^m	2h 02 ^m W.	13" 8x10	III 300814	3-4	good	no fresh added vigorous	9 ^m	76→74	W.	N.	CWT.	good plate	
1591	A-1	8th mag 7th mag. star	3 ^h 18. ^m 0	+71° 02'	Oct. 16	14:00-15:10	1h 10 ^m	1h 07 ^m W.	13" 8x10	III 300814	2-4	good	light haze about 14:15-14:30 no fresh added vigorous	9 ^m	76→74	W.	N.	CWT.	fair plate some fog in beam. comp. images on all stars down to mag 11+12	
1592	B-1	double 2" apart Σ2840 Cephei	21 ^h 50. ^m 1	+55° 31'	Oct. 17	8:30-10:00	1h 30 ^m	1h 27½ ^m W.	13" 8x10	III 300814	2-3, 4	good	good until 9:10 poor - 9:20 fair - 9:40 fair - 10:00 diffuse haze	no fresh added vigorous	9 ^m	78→74	W.	N.	CWT.	good images large around brighter mag. reach?
1593	B-1	8 mag comp 10" above 5th mag 5 Cephei	22 ^h 02. ^m 5	+64° 22'	Oct. 24	10:35-11:50	1h 15 ^m	3h 33 ^m W.	13" 8x10	III 300814	0, 1, 2, 3	good	good except 11:15-11:25 poor, haze	10oz fresh Wallace 5oz Ross metal	6 ^m	76→71	W.	N.	CWT.	fairly good plate images a little soft from unsteady air.
1594	B-2	5th mag 16 Cephei	21 ^h 59. ^m 1	+72° 57'	Oct. 27	12:15-13:30	1h 15 ^m	5h 28½ ^m W.	13" 8x10	III 300814	2-4	fair	no fresh added	same as above from 13:05-13:30	5½ ^m	75→69	W.	N.	CWT.	some fog, 1st 9 moon, 10 min or so fair images soft & slightly blurred
1595	B-1	8th mag 7th mag. star	3 ^h 18. ^m 0	+71° 02'	Nov. 10	10:23-11:18	0h 55 ^m	1h 07½ ^m E.	13" 8x10	III 300814	1-3	good	no fresh added vigorous	6½ ^m	76→68½	W.	N.	CWT.	fairly good plate 20 min or so last 22 min somewhat fogged	
1596	C-1	double star Σ349 Camelopardi	3 ^h 06. ^m 0	+63° 36'	Nov. 14	11:00-12:00	1h 00 ^m	0h 02½ ^m W.	13" 14x17	III 301952	2-3	good	+10oz fresh Wallace vigorous	7½ ^m	76→72	W.	N.	CWT.	good plate	
1597	A-1	6th mag. star 112 Camelopardi	4 ^h 42. ^m 0	+75° 51'	Nov. 14	12:20-13:20	1h 00 ^m	0h 13½ ^m E.	13" 14x17	I	3-4	good		7½ ^m	76→72	W.	N.	CWT.	good plate	
1598	B-1	6th mag. star	4 ^h 28. ^m 0	+64° 02'	Nov. 15	13:45-14:45	1h 00 ^m	1h 30 ^m W.	13" 14x17	III	4	good	no fresh added	7 ^m	76→72½	W.	N.	CWT.	good plate	
1599	B-2	8th mag. star	3 ^h 18. ^m 0	+71° 02'	Nov. 19	10:25-11:25	1h 00 ^m	0h 25 ^m E.	13" 8x10	III 300814	1, 2, 3	good	good? star seemed to dim at times and still (no wind)	no fresh added vigorous	7½ ^m	76→68	W.	N.	CWT.	good plate
1600	A-2	6th mag 112 Camelopardi	4 ^h 42. ^m 0	+75° 51'	Nov. 19	11:45-12:45	1h 00 ^m	0h 29 ^m E.	13" 14x17	I 301952	3-4	good	very cold +75°F	7 ^m	77→72	W.	N.	CWT.	good plate	

148		Region		circles 1941		Date of year 1941		Exposure		Hour Angle at end of Exposure		Plateholder I or III size of plate 13" L.C. telescope		Emulsion number and brand of plate		Seeing: Stead Transp.		Development Dev. Time Temp		Telescope E. or W. of solar axis		Writing at N. or S. end of plate		149	
Negative #	Series	Guide Star	R.A.	DECL.	(old astron nomical day)	Time	Net																		Remarks
1601	C-2	Σ349 ^{double} Camelopardi	3 ^h 06. ^m	+63° 36'	Nov. 20	12:45-14:00	1 ^h 15 ^m equiv. = 1hr?	2 ^h 26 ^m 1/2 ^m W.	13" III 14x17	Cr. Hi Speed Special 301952	1, 2, 3, 2, 13:00	good	Wallace Andro + 1/2 Ros metal (negatives) still not no fresh added	8 ^m	76→70	W.	N.	CWT.						fair plate soft images from unsteady seeing	
1602	B-1	7th mag star	2 ^h 04 ^m 1/2	-0° 56'	Nov. 21	10:20-11:20	1 ^h 00 ^m	0 ^h 51 ^m W	13" I 14x17	"	2-4	good	no fresh added	9 ^m	78→68	W.	N.	CWT.						good plate	
1603	B-2	6th mag star	4 ^h 28. ^m	+64° 02'	Nov. 21	11:45-12:45	1 ^h 00 ^m	0 ^h 07 ^m E.	13" III 14x17	"	3-4	good	no fresh added	8 ^m	78→71	W.	N.	CWT.						good plate faint trail barely visible on N. side of 7-9 mag stars in S.	
1604	B-3	6th mag star	4 ^h 28. ^m	+64° 02'	Nov. 21	13:30-14:30	1 ^h 00 ^m	1 ^h 38 ^m W	13" III 14x17	"	2-3	good	no fresh added	8 ^m	78→71	W.	N.	CWT.						good plate	
1605	C-3	Σ349 ^{double} Camelopardi	3 ^h 06. ^m	+63° 36'	Nov. 24	12:25-13:25	1 ^h 00 ^m	2 ^h 07 ^m W.	13" III 14x17	"	1-3	good	24oz fresh Wallace	7 1/2 ^m	76→72	W.	N.	CWT.						good plate	
1606	A-3	112 Camelopardi	4 ^h 42. ^m	+75° 51'	Nov. 24	13:40-14:40	1 ^h 00 ^m	1 ^h 46 ^m W	13" I 14x17	"	1-3	good+	no fresh added	8 ^m	76→72	W.	N.	CWT.						good plate	
1607	A-1	9th mag star	5 ^h 23 1/2 ^m	+82° 20'	Dec. 15	11:40-12:45	1 ^h 05 ^m equiv. = 1hr?	0 ^h 32 ^m W.	13" III 8x10	300814	2-3	fair to good	no fresh added vigorous	8 ^m	76→70	W.	N.	CWT.						good plate	
1608	AB-1	6th mag star	4 ^h 27. ^m 3	+72° 26'	Dec. 17	11:44-12:44 11:59-12:29	1 ^h 00 ^m	1 ^h 35 ^m W	13" III 8x10	300814	2-4	good	no fresh added vigorous	8 ^m	76→70	W.	N.	CWT.						good plate	
1609	A-2	9th mag star	5 ^h 23 1/2 ^m	+82° 20'	Dec. 22	10:16-11:20	1 ^h 04 ^m equiv. = 1hr?	0 ^h 25 1/2 ^m E.	13" III 8x10	300814	0, 1, 2	very good	no fresh added vigorous	8 1/2 ^m	76→70	W.	N.	CWT.						poor plate soft images from unsteady see as check plate. seeing	
1942																									
1610	B-1	7th mag star	5 ^h 23 1/2 ^m	+82° 20'	Jan 8	9:30-10:30	1 ^h 04 ^m	0 ^h 08 1/2 ^m E	13" III 8x10	300814	2-3→1	good	20oz fresh	8 ^m	76→66	W.	N.	CWT.						fair plate images are a little soft.	
1611	A-1	7th mag star	6 ^h 57. ^m	+63° 46'	Jan. 13	10:45-11:45	1 ^h 00 ^m	0 ^h 07 ^m E	13" I 14x17	new batch of 14x17s, received Jan. 5, 1942 302554	1, 2-3	good	8oz fresh added	10 ^m	76→70	W.	N.	CWT.						good plate images slightly soft.	
1612	A-1	8th mag star	8 ^h 12. ^m	+63° 56'	Jan. 13	12:00-13:00	1 ^h 00 ^m	0 ^h 07 ^m E	13" III 14x17	"	1, 2-3	good	no fresh added	10 ^m	77→70	W.	N.	CWT.						good plate images slightly soft from seeing	
1613	A-1	9th mag comp 3'S. 6th mag star - beautiful spiral nebulae	9 ^h 11. ^m	+73° 10'	Jan. 15	12:15-13:15	1 ^h 00 ^m	0 ^h 43 ^m E	13" I 14x17	"	4, 3	good	no fresh added	10 2/3 ^m	76→74	W.	N.	CWT.						good plate	
1614	A-1	5th mag 37 Draconis	9 ^h 31. ^m	+81° 35'	Jan. 15	13:30-14:30	1 ^h 00 ^m	0 ^h 12 1/2 ^m W.	13" III 14x17	"	3-4	good	no fresh added	12 ^m	78→73	W.	N.	CWT.						good plate	
1615	A-2	8th mag star	8 ^h 12. ^m	+63° 56'	Jan. 17	11:30-12:30	1 ^h 00 ^m	0 ^h 21 ^m E	13" III 14x17	"	3-4	good	no fresh added still vigorous	11 1/3 ^m	78→71	W.	N.	CWT.						good plate	
1616	A-2	double: 9m 3' N or S? 6th mag star	9 ^h 11. ^m	+73° 10'	Jan. 17	12:42.1-13:42	1 ^h 00 ^m	0 ^h 08 ^m E	13" I 14x17	"	2, 3, 4	good	no fresh added still vigorous	11 ^m	77→72	W.	N.	CWT.						good plate	
1617	A-2	7th mag star	6 ^h 57. ^m	+63° 46'	Jan. 18	13:00-14:05	1 ^h 05 ^m equiv. 1hr?	2 ^h 33 ^m W.	13" I 14x17	"	1, 2, 3	good	no fresh added still vigorous	11 ^m	78→72	W.	N.	CWT.						good plate images slightly soft from seeing	
1618	A-1	double 45" apart Σ1516 Draconis comparative same mag.	11 ^h 12. ^m	+73° 49'	Jan. 19	13:30-14:30	1 ^h 00 ^m	1 ^h 13 ^m E.	13" I 14x17	"	2-3	good	no fresh added still vigorous	12 ^m	77→74	W.	N.	CWT.						good plate	
1619	A-3	9 mag comp 3' X or S? 6th mag star	9 ^h 1. ^m	+73° 10'	Jan. 20	12:00-13:05	1 ^h 05 ^m equiv. 1hr?	0 ^h 53 ^m E	13" I 14x17	"	1, 2, 3	good	no fresh added still vigorous	11 ^m	77→70	W.	N.	CWT.						good plate images slightly soft.	

Region circles 1942
Daylight Saving Time Not used

Date of year 1942
(old astro. numerical day)

"War time" NOT used
Exposure Hour Angle at end of Exposure

#	Series	Guide Star	R.A.	DECL.	Date	Time	Net	Hour Angle at end of Exposure
1620	A-2	37 Draconis	9h 31.0	+81° 35'	Jan. 20	13:20-14:25	1h 05m	0h 27m W.
1621	B-1	10th mag. 3' above 7th mag. star	6h 57.0	+63° 46'	Feb. 7	8:45.1-10:05	1h 20m Equis. 1 hr?	0h 09m E.
1622	Special	5th mag. n Cancri Pluto field	8h 29.4	+20° 40'	Feb. 8	9:15-11:45	2h 30m	0h 03m W.
1623	B-1	8th mag. star	8h 12.0	+63° 56'	Feb. 8	12:00-13:00	1h 00m	1h 35 1/2m W.
1624	B-1	5th mag. 22 Camelopardis	10h 26.6	+82° 50'	Feb. 9	11:00-12:00	1h 00m	1h 35m E.
1625	B-1	double 45" apart Σ 1516 Draconis	11h 12.6	+73° 49'	Feb. 9	12:15-12:30 13:35-14:40	1h 20m Equis. 1 hr?	0h 19m W.
1626	Special	5th mag. n Cancri Pluto field	8h 29.4	+20° 40'	Feb. 10	9:30-12:00	2h 30m	0h 26m W.
1627	Special	n Cancri Pluto field	"	"	Feb. 11	9:20-11:40	2h 20m	0h 10m W.
1628	Special	n Cancri Pluto field	"	"	Feb. 17	10:50-13:10	2h 20m	2h 03 1/2m W.
1629	B-2	5th mag. 22 Camelopardis	10h 26.6	+82° 50'	Feb. 18	10:55-12:10.1	1h 15m Equis. 1 hr?	0h 49 1/2m E.
1630	B-2	double equal m. 45" apart Σ 1516 Draconis	11h 12.6	+73° 49'	Feb. 19	12:30-13:30	1h 00m	0h 11 1/2m E.
1631	A-1	9th mag. comp. 2' above 7th mag. star	18h 05.1	+50° 50'	May 12	12:15-13:15	1h 00m	1h 56m E.
1632	AB-1	Σ 2180 Draconis about 3" apart	17h 27.8	+50° 57'	May 16	12:40-13:40	1h 00m	0h 38m E.
1633	A-2	9th mag. star 2' above 7th mag. star at p. l.w.	18h 05.3	+50° 50'	May 16	13:54-14:54	1h 00m	0h 01 1/3m E.
1634	B-1	12 Virginis	12h 10.1	+10° 35'	May 18	10:25-11:25	1h 00m	2h 32m W.
1635	A-3	9th mag. 2' p. 7th mag. star	18h 05.3	+50° 50'	May 20	13:20-14:25	1h 05m Equis. 1 hr?	0h 15m E.
1636	B-2	12 Virginis	12h 10.1	+10° 39'	June 4	10:20-11:35	1h 15m	3h 49 1/2m W.
1637	AB-2	about 3" apart Σ 2180 Draconis	17h 27.8	+50° 57'	June 5	11:00-12:00	1h 00m	0h 59m E.
1638	B-1	8th mag. star	19h 59.3	+54° 56'	June 6	13:30-14:30	1h 00m	0h 56 1/2m E.

Records continued in Vol II

Plateholder I or III	Emulsion number and brand of plate	Seeing	Development	Telescope	E. or W. of polar axis	Writing at N. or S. end of plate	Observer	Remarks
13" III 14x17	Cramer Hi Speed Special 302554	1, 2, 3	Wallace Hydro. 11m 77-72	13"	W.	N.	CUT	good plate images slightly soft from seeing
13" I 14x17	"	2-3	24 oz. all fresh good til 9:20	13"	W.	N.	CUT	good images interfered by haze
13" I 14x17	"	2, 3, 4	↓ same 7m 76-69	13"	W.	N.	CUT	good plate
13" III 8x10	300814	2-3	↓ same 7m 77-72	13"	W.	N.	CUT	good plate
13" I 14x17	302554	3, 2	↓ same 8m 78-76	13"	W.	N.	CUT	good images interrupted by haze use as check plate
13" I 14x17	"	1, 2, 3	6oz. fresh added 7 2/3m 77-75	13"	W.	N.	CUT	good plate images slightly soft from unsteady seeing
13" I 14x17	"	2, 3, 4	good until 11:30 fair to poor after 11:30 no fresh added	13"	W.	N.	CUT	fair plate images a little elongated in DECL.
13" I 14x17	"	3-2-2-1	very good extremely cold! no fresh added	13"	W.	N.	CUT	good plate images a little soft from seeing
13" III 8x10	300814	1, 2, 3	fair to poor very cold! no fresh added vigorous	13"	W.	N.	CUT	fairly good plate some haze, images a little soft from seeing, brighter ones slightly elongated
13" I 14x17	302554	4-3	no fresh added vigorous 9m 76-71	13"	W.	N.	CUT	good plate
13" I 14x17	"	2-4	24 oz. fresh 6m 77-73	13"	W.	N.	CUT	considerable general fog - plate old fairly good plate some defects
13" III 8x10	301617	3, 4, 5	no fresh added 3rd 7m 76-67	13"	W.	N.	CUT	good plate
13" I 14x17	302554	3, 4, 5	no fresh added 2nd 7m 77-70	13"	W.	N.	CUT	general fog - old plate very good images defects on emulsion
13" I 14x17	"	2, 3-4	no fresh added 4th 8m 78-70	13"	W.	N.	CUT	good plate general fog - old plate
13" I 14x17	"	3-4	noticeably muddiness below 40° alt. no fresh added 5th 8 1/2m 77-69	13"	W.	N.	CUT	good plate
13" I 14x17	new 303055	1, 2, 3	25 oz. 2nd fresh 8 1/3m 78-72	13"	W.	N.	CUT	good plate
13" III 8x10	301617	1, 2, 3	4th 8 1/2m 76-65	13"	W.	N.	CUT	good plate
13" I 14x17	old 302554	3-4	1st 7m 76-72	13"	W.	N.	CUT	good plate

Records Continued in Vol. II p. 114.

