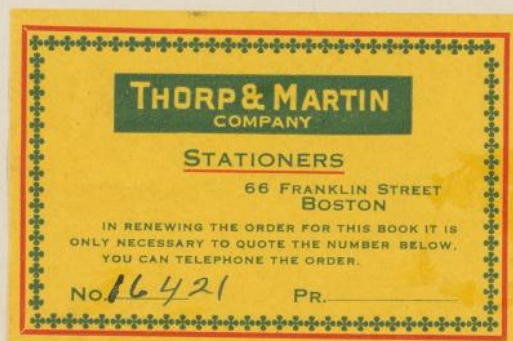


NORTHERN FIELD



V S F 299

5

R.A. $3^h 10^m$ (1950)
Dec. $+41.0$

gal. long. 118°
gal. lat. -14°

Plate corners - (1855)

exps: $+43.5$ North: $2^h 46.5^m$ to $3^h 20.5^m$
 $+38.4$ South: $2^h 47.2^m$ to $3^h 21.8^m$

No. of Known Variables: 2 (MC 37174)
(1900)

G G Per 3 05 06 +41 15.8 118 -14
Mira 279.4 13.25 12.0 [14.5] E ϕ (Pyr)

W W Per 3 11 48 +42 27.3 118 -12
Mira 276: 15.25 12.5 16 V α N

β Per (Algol)

Quality

List of Plates

Plate No. ↓		Julian Day	Additional Plates Quality Plate No. ↓		Julian Day
MC	37134 gK	2433949.703	MC	37368 Excellent.	2434273.805
	37135 mμ	3949.779		37369 Excellent.	34273.846
	37138 mμ	3956.758		37372 Excellent. o.k.	34276.748
	37143 mμ	3971.607		37373 plate broken.	34276.811
Print	37144 mK	3971.662		37374 Excellent.	34279.686
X	37146 mδ	3972.832		37375 o.k. 2 spots?	34279.728
	37147 iKμ	3972.700		37376 good. elongated	34279.770
X	37148 mδ	3975.670		37377 images. poor.	34279.816
	37149 pσ	3975.715		37378 o.k.	34281.816
X	37154 i mδ	3978.629		37379 o.k.	34283.712
PI	37155 mσ	3978.678		37380 o.k.	34283.764
X	37160 mδσ	3980.605		37381 o.k.	34283.819
X	37161 gδ	3980.739		37382 good.	34283.870
X	37167 mδ	3981.725		37383 good.	34284.761
X	37172 iσ	3982.658	P	37384 good. good.	34305.758
P II	37174 gμ	3984.625	51285-	37403 Excellent.	34305.807
	37178 mσ	4003.529		37404 good.	34306.694
	37179 mσ	4003.642		37405 Excellent.	34306.754
	37182 mσ	4005.561	P	37406 Excellent.	34306.831
	37189 mσ	4007.673		37407 good.	34307.712
				37409 Fogged.	34307.794
				37410 o.k.	34308.795
				37412 o.k.	34309.681
				37415 o.k.	34309.746
				37416 o.k.	34311.683
				37417 o.k.	34311.731
				37418 o.k.	34311.784
				37419 good.	34327.779
				37426 o.k.	

9 bad

58 day interval

50 plates total

Quality grades

Image Background

g = good K. clear

m = medium μ medium

p = poor δ dark

i = elongated σ streaked

(Not used)
 Sequence As marked on MC 37135
 $3^h 0^m + 39^\circ 30'$ (1900)

Star	Mag
1	7.9
2	8.8
3	9.0
4	9.6
5	10.1
6	10.2
7	10.4
8	10.7
9	11.1
10	11.7
11	12.5
12	12.8
13	13.2
14	14.0
15	14.1
16	14.6
17	15.0
18	15.0
19	15.4
20	15.7

Star	Mag.	Mt. Wilson No.
a	8.8	217
b	10.4	159
c	11.9	272
d	12.3	305
e	12.6	107
f	13.1	65
g	13.5 (adjusted)	194
h	13.8	4
i	14.3	112 s
j	14.7	31
k	15.1	1
l	15.4	32
m	15.9	27
n	16.3	61
o	16.6	39

Star	Mag.
1	12.2 ✓
2	12.3 ✓
3	12.8 ✓
4	13.3 ✓
5	13.7 ✓
6	14.0 ✓
7	14.2 ✓
8	14.9
9	15.4
10	15.7
11	16.0
12	16.4

see MC 37407

see MC 18119

(Mw 12.2 ABH)

Both sequences marked (only the brightest stars) on RH 607, $3^h 00^m + 45.0^\circ$.
 First & second Transfer sequences of ABH marked on MC 36902.
 (final)

6

Discovery pair	No.	Discoveries	
		Bright	Faint
MC 37144 37155 P	1	37144	37155, 37135,
	2	37155, 37149	37144,
	3	37155,	37144, 37147
MC 37134	4?	37134, 37148	37155
MC 37146	5	37146 defect? LP?	37155, 37134, 37179, 37189
MC 37167	6 = Boyce #3	37155, 37160	37167
MC 37147	7?	37147 (Does not appear on other plates. Eclipsing? - Companion fainter here - bright on other)	
MC 37172	8?	37172 (Does not appear on other plates.)	
MC 37135	9?	37135 Defect - perhaps?	37155
MC 37134 37174 P	9a	37134 (bright star!)	37174
MC 37135	10	37174	37135, 37134
MC 37135	11	37135, 37134	37174

Plate limit --- on MC --- Comp. X ---

Perhaps 8 out of 11 are variables

- ✓ 1. Examine Nos 7+8 with high power
- ✓ 2. Estimate approx exposure ranges & max. mag.
- ✓ 3. Await new good plates - about 10?
- ✓ 4. Of above comp, p, u, n, only the following were satisfactory:

(37155 P (37155 P (37155 P
37147 37144 37134

(37155 P (37155 P
37138 37135

37174 P - images too small - not good for comparison.

Confirmation

7

Bright

Faint

Remarks

37172, 37182

37143, 37146, 37147, 37134

37154, 37148

37147, 37135 (Prob. not very large range.)

37148, 37154, 37161

37135, 37189, 37178, 37174
(Prob. small range.)

37135

37160 (Variable?)

37172

37144, 37148, 37149

37138, 37178

Seems a star.
plates.)

Perhaps a defect - not a double image like others.

37146, 37134

37143, 37135

37167, 37147, 37154
(Not large range.)

37154, 37144

37138, 37134
37147 (small range?)

37138, 37154, 37160

37182, 37143

	Approx Mag	Approx Δm	Note
1.	11.5	2.5	
2.	13.0	1.0	
3.	14.0	1.0	
4.	12.0	.6	
5.	10.5		defect
6.	12.8	.5	?
7.	13.0		
8.	14.0		
9a	7.5	.5	?
10	14.5	.5?	
11	13.5	.5	

8

Discovery Pair

Discoveries

	No.	Bright	Faint
37404] 37155 P]	12	37155, 37385, 37381	37404, 37403, 37380 (Range prob. small)
	13?	37155 (? cf. 37379)	37404 Prob. not variable.
	14	37404, 37403	37155, 37383, 37585, 37381, 37374
	15 = 6 rediscovered	37155, 37381	37404, 37377
37382] 37155 P]	16	37155, 37381	37382, 37378
	17	37155	37382, 37404
37379] 37155 P] 13 & 15 rediscovered	—		
37378] 37155 P]	18	37155, 37381	37378 (? - long per?)
	19	37378	37155, 37404
37375] 37155 P]	20 = 1 rediscovered	37375	37155
37374] 37155 P] 20 rediscovered	21	37155	37374, 37375 (fainter than 37374)
37372] 37155 P]	22	37372 Possibly a defect? - Does not reappear in bright on these plates.	37155, 37374
37379] 37407 P]	23?	37379 (?)	37407, 37378 Prob. not variable.
37369] 37407 P]	24	37369	37407 (Double? Prob. small range.)
	25	37369	37407, 37378
37368] 37407 P]	26	37368, 37377	37407
	27	37368	37407, 37378
	28	37407	37368, 37375
37385] 37407 P]	29 = 11 rediscovered	37407	37385

Bright

ABH

Confirmations

Faint

9

37426

37368

(good)

37368

37379

(good)

37403

37383

(good)

37406, 37405

37419, 37416, 37415

(? Very faint Ring small.)

37369, 37376, 37372

37382

37362, 37382

(good.)

37374

37372

(good.)

37402, 37372

37376

(good)

37405 (brighter, but not as br. as 37372)

37376

(cf. 37368)
37375
37384

37382, 37404, 37155

37375, 37382

37381

37377

37372

(Prob. good.)

37372, 37379

37381, 37155

[Near very bright star. (?)]

37134

37403, 37404

37385, 37372

37378 (Range prob. small. Close pair.)

37372, 37410

37380

10

Discovery Pair

No.

= 6

rediscovered
Bright

Discoveries

Faint

[37403
37384]

20

37384

37403

21

37403

37384

[37372
37384]

32

37372, 37383

37384

[37372
37384]

33

37372

37384

34

37384

37372

[37374
37384]~~31~~

rediscovered

[37376
37384]

35

37376

37384

32 possible variables
(including 6? and 11 with probable small range)
All variables roughly marked on MC 37384.

Mrs. Bayce's additional variables:
(? = uncertainty in position of star.)

3 = ABH 6

10?

13

14?

2

(W.P.)

(16)

5

4

6 = ABH 1

8

(9)

17

12

11

1?

out of field

out of field

out of field

13 additional

measured

Bright	Confirmation	Faint	Remarks
37382, 37417	37378		Good.
37381, 37405, 37419	37155		Bright.
37417	37403		Bright.
37418, 37415, 37381	37407, 37409		? Prob. small range.
37405, 37377, 37135	37415, 37403, 37380, <u>37406</u> , 37404		Small range.
37379	37418, 37385, 37404, 37381		? Range small.

Mc12

Julian Day

Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.
1	2	3	4	5	6	7	8	9	9a	10	11	12	13	14	15	16
37134	2433949.703		13.5					14.2								
35	.779		13.5					def.								
38	3956.758		13.5					14.1								
43	3971.607		13.3					14.4								
44	.662		13.5					14.3								
46	3972.632		13.4					14.4								
47	.700		13.6					14.5								
48	3975.670		13.3					14.2								
49	.715		13.5					14.5								
54	3978.629		13.5					14.2								
55	.678		13.3					14.1								
60	3980.605		13.3					14.2								
61	.739		13.6					14.2								
67	3981.725		13.8					14.1								
72	3982.658		13.6					14.2								
74	3984.625		13.8					14.2								
78	4003.529		13.5					14.2								
79	.642		13.5					14.3								
82	4005.561		13.6					14.1								
89	4007.673		13.4					14.4								
37368	2434273.805		13.6					14.2								
69	.846		13.6					14.2								
72	4276.748		13.8					14.2								
73	.811		13.6					14.5								
74	4279.636		13.5					14.2								
75	.728		13.6					15.0								
76	.770		13.6					14.3								
77	.816		13.6					14.5								
78	4281.761		13.6					14.6								
79	.816		13.6					14.6								
80	4283.712		13.6					14.3								
81	.764		13.6					14.5								
82	.819		13.7					14.3								
83	.870		13.9					14.6								
84	4284.761		13.3					14.2								
85	.820		13.9					14.5								
37403	4305.758		13.7					14.2								
04	.807		13.8					14.2								
05	4306.694		13.6					14.2								
06	.754		13.6					14.5								
07	.831		13.5					14.5								
09	4307.712		13.6					14.7								
10	.794		13.8					14.3								
12	4308.795		13.7					14.2								
15	4309.681		13.8					14.2								

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M12

Julian Day

Var. 32	Var. 33	Var. 34	Var. 35	EH8 1	EH8 2	EH8 4	EH8 5	EH8 8	EH8 9	EH8 10	EH8 11	EH8 12	EH8 13	EH8 14
37134	2433949.703	13.0	13.0											
35	.779	13.2	14.1?											
38	3956.758	13.2	12.9											
43	3971.607	13.4	13.4											
44	.662	13.1	13.1											
46	3972.632	13.1	13.1											
47	.700	13.1	13.0											
48	3975.670	13.2	12.9											
49	.715	13.2	12.8											
54	3978.629	13.2	13.4											
55	.678	13.1	13.4											
60	3980.605	13.2	14.1?											
61	.739	13.2	12.7											
67	3981.725	13.4	13.8											
72	3982.658	13.1	13.1											
74	3984.625	13.2	13.9											
78	4003.529	13.5	13.9?											
79	.642	13.4	13.4											
82	4005.561	13.2	12.8											
89	4007.673	13.2	13.1											
37368	2434273.805	13.2	13.8											
69	.846	12.9	13.5											
72	4276.748	12.9	13.2											
73	.811	13.1	14.7											
74	4279.686	13.2	13.4											
75	.728	13.1	13.5											
76	.770	13.1	14.1											
77	.816	13.1	13.0											
78	4281.761	13.4	13.2											
79	.816	13.1	13.8											
80	4283.712	13.3	13.2											
81	.764	13.1	13.0											
82	.819	13.4	13.6											
83	.870	13.2	13.2											
84	4284.761	13.8	13.1											
85	.820	13.5	13.2											
37403	4305.758	13.3	13.3											
04	.807	13.3	13.2											
05	4306.694	13.0	13.4											
06	.754	13.0	13.9											
07	.831	13.5	13.3											
09	4307.712	13.1	14.2											
10	.794	13.3	13.3											
12	4308.795	13.5	12.0											
15	4309.681	13.5	13.4											

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16

Julian Day

Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.
1	2	3	4	5	6	7	8	9	9a	10	11	12	13	14	

37416 2434309.746

13.6

14.4

17 4311.683

13.8

14.1

18 .731

13.6

14.2

19 .784

13.6

14.2

26 4327.779

13.6

14.1

Early Mls

26981 2427447.503

13.7

14.6

87 449.687

14.4

90 453.509

13.5

14.6

92 .560

13.6

14.6

94 .621

13.7

14.2

99 455.617

13.5

14.2

~~27000~~ 4^h 50^m + 7.5 .663

11 456.502

13.5

14.4

58 472.583

13.5

14.4

131 512.529

13.5

14.2

71 530.542

13.7

14.7

84 533.546

13.7

14.4

87 535.550

13.5

14.4

93 536.547

13.8

14.4

Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.	Var.
13	14	16	17	18	19	21	22	23	24	25	26	27	28	31

Σ17.1

Σ17.1

17.1

16.6

Σ17.1

Σ17.1

Σ16.7

—

—

Σ17.1

17.2

Σ17.1

Σ17.1

17.1

17.2

—

17.2

Σ17.1

17.1

17.0

17.2

Σ17.1

Σ17.1

Σ17.1

17.2

Σ16.7

Σ17.1

MC 16

Julian Day

Var.	Var.	Var.	Var.	EHB	EHB	EHB	EHB	EHB	EHB	EHB	EHB	EHB	EHB	EHB	EHB
32	33	34	35	1	2	4	5	8	9	10	11	12	13	14	

37416 2434309.746

13.3 13.4

17 4311.683

13.2 13.4

18 .731

13.2 13.9

19 .784

13.2 14.1

26 4327.779

13.2 13.0

Early MC

26981 2427447.503

12.9 13.4

87 449.687

13.0 13.7

90 453.509

13.0 13.5

92 .560

12.7 13.5

94 .621

12.8 13.8

99 455.617

12.6 13.4

~~27000~~ 4^h 50^m +7.5 .663

11 456.502

12.7 13.6

58 472.583

12.8 13.4

131 512.529

12.7 12.7

71 530.542

13.0 14.0

84 533.546

13.8 13.5

87 535.550

13.2 13.3

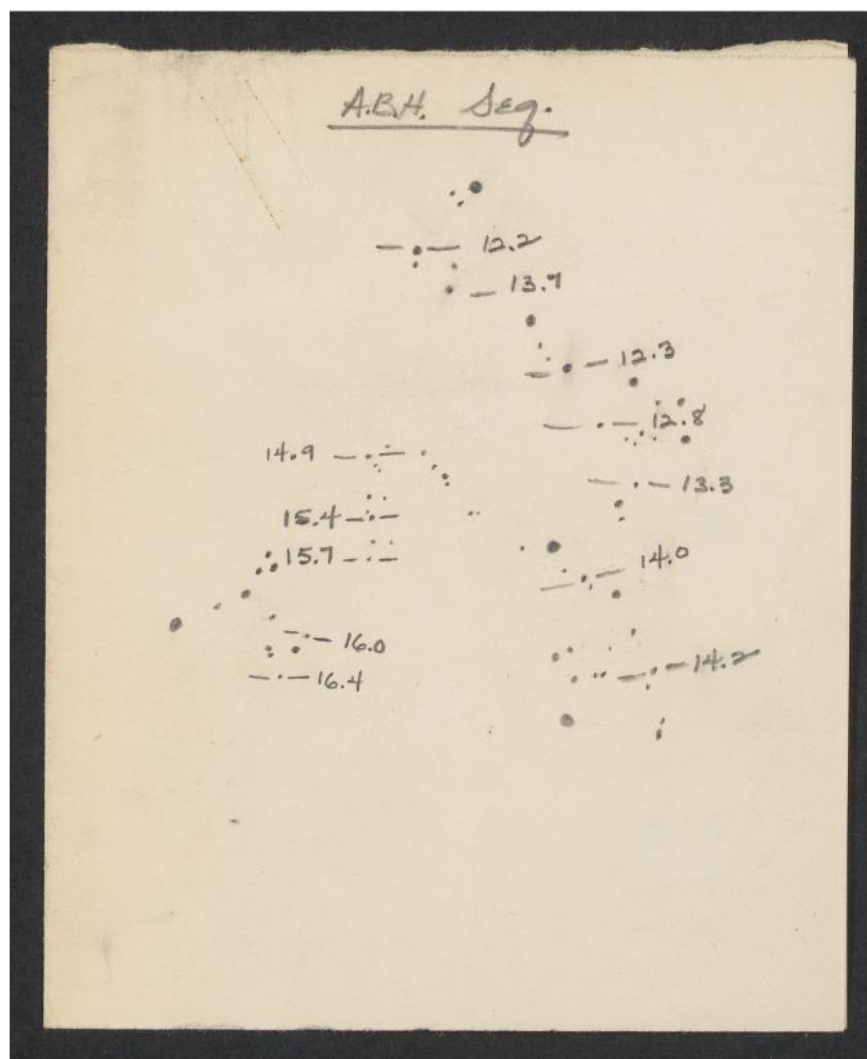
93 536.547

13.2 13.9

EX	ENG	ENG	ENG	ENG	W	W	W
13	14	15	16	17	Per	Per	Per

24

2.12 1.68



13.2
—
0.6
13.6

2

2

Mt. Wilson

$a = 8.8$

$b = 10.4$

$c = 11.9$

$d = 12.3$

$e = 12.6$

$f = 13.1$

$g = 13.5$

$h = 13.8$

$i = 14.3$

ABH seq.

$\text{cmH. } 12.2 \quad 1 = 12.0 \text{ mag. too bright}$

$12.4 \quad 2 = 12.3 \text{ O.K.}$

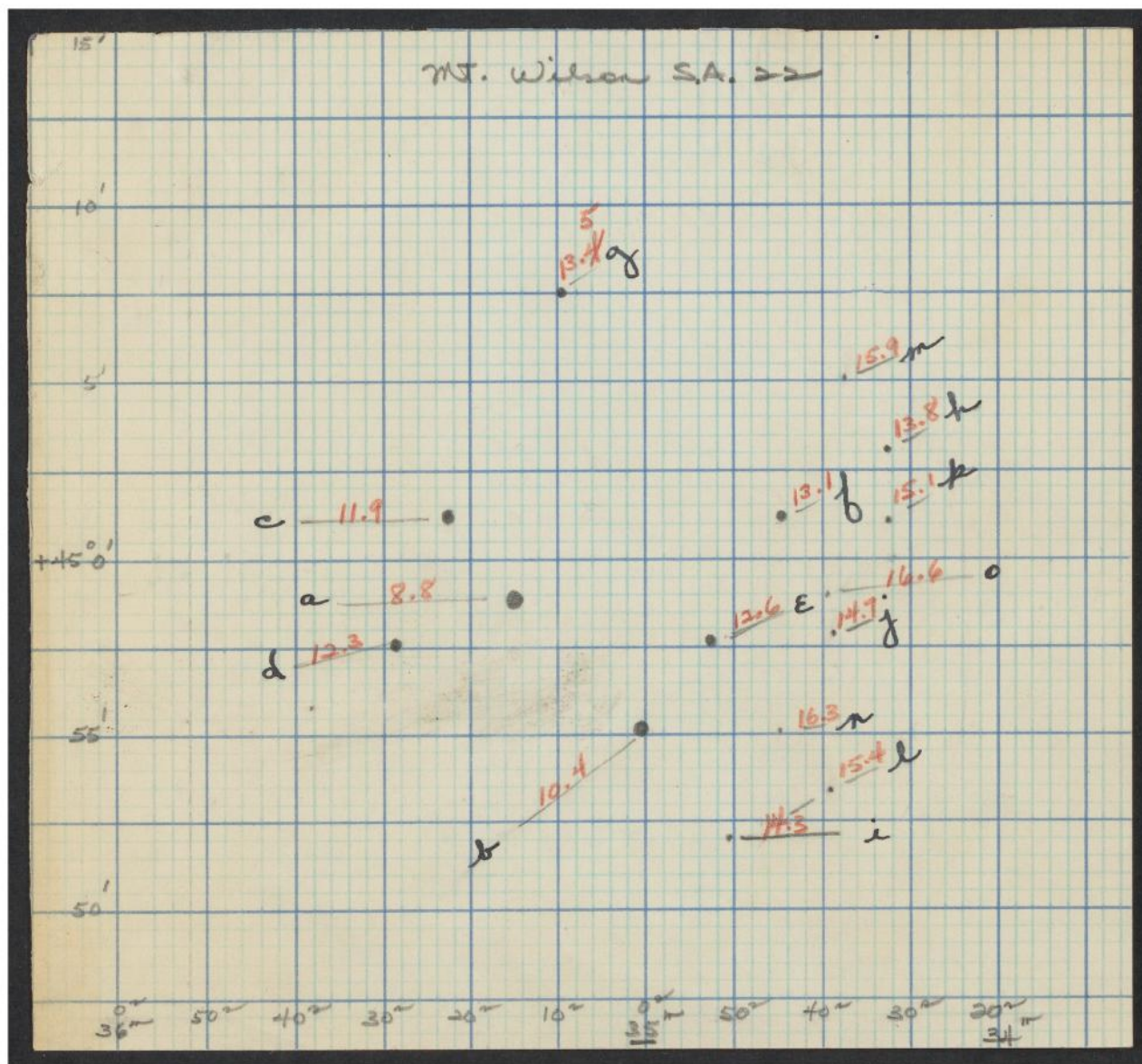
$12.8 \quad 3 = 12.8 \text{ O.K.}$

$13.3 \quad 4 = 13.3 \text{ O.K.}$

$13.6 \quad 5 = 13.7 \text{ O.K.}$

$13.9 \quad 6 = 14.1 \text{ O.K.}$

$14.1 \quad 7 = 14.3 \text{ too faint}$



With new seg. in center of plate measure:

33 ✓

17 ✓

9? ✓

~~179~~
~~180~~

22 ✓

3 ✓

~~4?~~

34 ✓

~~28~~

GOLD FIB

With one transfer measure: Sec. I

21

11

32

27

28

18

With another transfer measure:

19

14

2

16

7?

8?

11

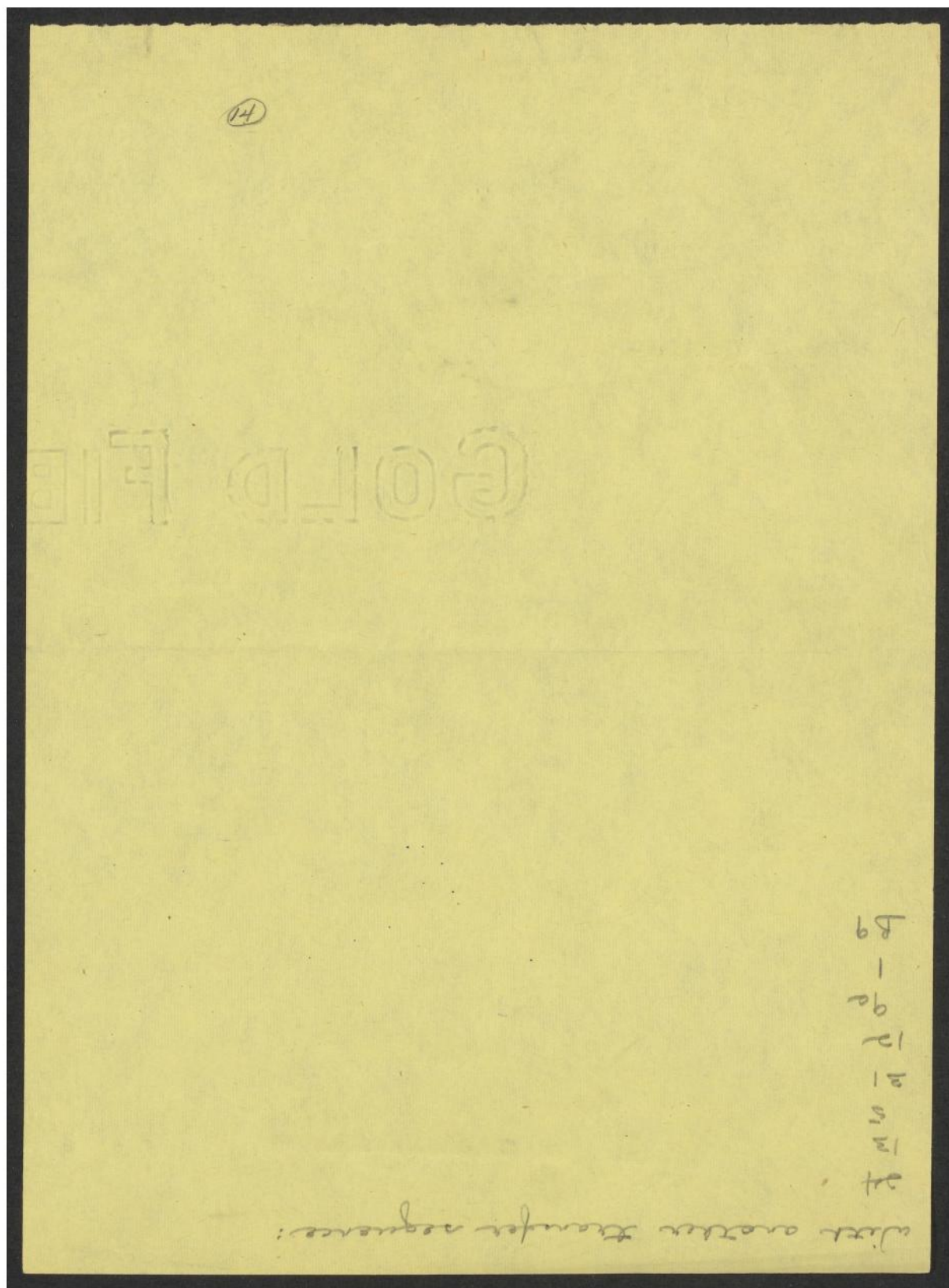
35

25

26

516

420.19283?



Mt. Wilson Selected Area 22
2° 38' + 45° 10'

	Mag.	No.	1900			1855			M. dist.	C.M.H.	Weighted Mean 1st transfer	
			α	δ		α	δ				Star	ABH
a	8.77	217	2° 38' 11.9	+45° 10' 34"		2° 35' 15.3	+44° 58' 57.4		(8.8)	11.7	①	12.1
b	10.42	159	27 59.6	6 45		35 3.0	55 8.4		(10.4)	12.4	②	12.4
c	11.86	272	38 19.5	13 00		35 22.9	45 1 23.4		(11.9)	12.55	③	12.8
d	12.31	305	38 25.4	9 08		35 28.8	44 57 31.4		(12.3)	13.1	④	13.4
e	12.64	107	37 49.0	9 19		34 52.4	44 57 42.4		(12.6)	13.65	⑤	14.0
f	13.14	65	37 41.5	12 52		34 44.9	45 1 15.4		(13.1)	14.1	⑥	14.4
g	13.39	194	38 6.1	19 06		35 9.5	45 7 29.4		(13.4)	14.8	⑦	15.2
h	13.82	4	37 29.8	14 37		34 33.2	45 3 0.4		(13.8)	15.6	⑧	15.5
i	14.33	112	37 47	45 36		34 50.4	44 52.0		(14.3)	15.8	⑨	15.8
j	14.70	31	37 35.3	9 36		34 38.7	44 57 59.4		(14.7)	16.25	⑩	16.2
k	15.10	1	37 29.3	12 45		34 32.7	45 1 8.4		(15.1)	16.7	⑪	16.8
l	15.43	32	37 35.4	5 02		34 38.8	44 53 25.4		(15.4)			
m	15.88	27	37 33.6	16 46		34 37.0	45 5 9.4		(15.9)			
n	16.32	61	37 41.5	6 40		34 44.9	44 55 3.4		(16.3)			
o	16.62	39	37 36.2	10 35		34 39.6	44 58 58.4		(16.6)			

	1st transfer	2nd transfer	ABH mean	Weighted Mean	C.M.H.	J.K.
①	12.0	12.1	12.0	12.0	12.0	12.2
②	12.2	12.3	12.2	12.3	12.3	12.4
③	12.8	12.7	12.8	12.8	12.8	12.8
④	13.5	13.5	13.5	13.3	13.1	13.3
⑤	13.8	13.7	13.8	13.7	13.4	13.6
⑥	14.2	14.1	14.2	14.0	14.0	13.9
⑦	14.5	14.4	14.4	14.2	14.2	14.1
⑧	15.0	14.9	15.0	14.9	14.8	
⑨	15.4	15.5	15.4	15.4	15.4	
⑩	15.7	15.7	15.7	15.7	15.7	
⑪	16.1	15.9	16.0	16.0	16.0	
⑫			16.6	16.7	16.7	16.8

Look at all these frequencies again & check visually.

Secondary
I

Star	Mag.
ε	12.8
h	13.0
K	13.5
n	13.9
o	14.4
p	14.6
q	15.0
r	15.6
s	15.9
u	16.7
v	17.2
w	17.3

Secondary
II

a	12.1
b	12.2
c	12.3
d	12.5
e	13.4
f	13.5
g	14.0
h	14.1
i	13.6
j	13.2
k	14.8
l	14.8
m	14.9
n	15.9
p	16.4
q	16.7
r	17.1

Secondary
III

a	13.0
b	13.2
c	13.5
d	13.9
e	14.0
f	14.3
g	14.9
h	15.1
i	15.8
j	16.6
k	16.6
l	16.8
m	17.1

check
zero point.

Wed. March 10th

Main seg.

3097

12.2	3094	3096	3099	3101	3104	3095	3070	3085	3088	3100	3135	3150
12.3	3207	3204	3200	3190	3195	3199	3125				3167	3158
12.8	3437	3435	3440	3440	3438							
13.3	3611	3600	3604	3610	3606							
13.7	3657	3644	3653	3650	3640	3635	3635	3638	3644	3728	3736	
14.0	3800	3800	3800	3792	3798							
14.3	3880	3896	3892	3884	3880	3886						
14.9	4020	4020	4019	4023	4020							
15.4	4215	4214	4216	4219	4216	4325						
15.7	4320	4324	4324	4331	4325	4318	4308					
16.0	4465	4472	4463	4464	4466							
16.4	4631	4633	4634	4621	4639	4632						
16.7	4640	4640	4650	4640	4642							
17.1	4797	4796	4814	4790	4807	4812	4801					

Sec. II

a	3100	3094	3112	3110	3104	12.0	12.1	12.2
b	3124	3144	3133	3127	3120	3122	3144	
c	3196	3191	3202	3197	3196	12.3	12.3	
d	3293	3284	3281	3286	3286	12.6	12.5	
e	3610	3595	3602	3606	3603	12.5	12.4	
f	3645	3636	3642	3635	3640	12.6	12.5	
g	3774	3773	3790	3774	3776	3777	14.0	14.0
h	3812	3810	3820	3820	3814	3815	14.1	14.1
i	3655	3667	3670	3670	3655	3664	3664	13.7 13.6
j	3537	3533	3529	3548	3530	3534	4024	4031
k	4044	4050	4045	4044	4044	4044	4030	4038
l	4052	4041	4044	4040	4044	14.8	14.8	4040
m	4089	4089	4089	4004	4068	14.9	14.9	4040
n	4393	4397	4396	4405	4398	15.9	15.9	4048
o	4571	4574	4572	4564	4571	4570	16.4	16.4
p	4680	4675	4689	4675	4683	4679	16.7	16.7
q	4856	4865	4871	4873	4869	4867	17.3	17.1

Tues. Mar. 9th

12.2	3094	3095	3092					
12.3	3199	3186	3189					
12.8	3417	3416	3415					
13.3	3601	3608	3602	3595	3594	3602	3613	3604
13.7	3659	3657	3659					
14.0	3826	3827	3823					
14.2	3897	3915	3909	3907				
14.9	3977	3986	3979	3981				
15.4	4234	4231	4225	4224	4226			
15.7	4291	4302	4310	4305	4303			
16.0	4429	4438	4429	4433				
16.4	4563	4566	4566					
16.7	4535	4545	4542	4540	4536			
17.1	4814	4798	4810	4809				

(15)

good

Main sequence											
✓ 12.2	3090	3099	3101	3105	3067	3060	3054	3089	3090	3089	
✓ 12.3	3156	3167	3194	3189					3182	3189	
✓ 12.8									3417	3410	
✓ 13.3									3614	3608	
✓ 13.7	3650	3684 ⁷	3648	3655	3634	3664	3640	3650	3660	3660	
✓ 14.0									3824	3816	
✓ 14.3									3911	3903	
✓ 14.9									3980	3981	
✓ 15.4									4228	4217	
✓ 15.7									4310	4300	
✓ 16.0									4430	4440	
✓ 16.4									4563	4571	
✓ 16.7	4622	4640	4569	4536	4507	4514	4519	4544	4530	4544	
✓ 17.1									4810	4814	
✓ e	3409	3419	3410	3411	3412	15.0		correct meas. 12.8			
✓ f											
✓ g											
✓ h	3490	3480	3495	3492	3489	12.3		13.0			
✓ i											
✓ k	3642	3635	3644	3643	3644	3641	13.7	13.5			
✓ l											
✓ m	3637	3624	3626	3621	3622	3621	3629	3640	3637	3638	dup. 13.7
✓ n	3767	3771	3771	3774	3770	3771	14.1	13.9			
✓ o	3910	3912	3919	3911	3913	3913	14.5	14.4			
✓ p	3978	3976	3975	3971	3970	3974	14.7	14.6			
✓ q	4109	4111	4111	4114	4111		15.0	15.0			
✓ r	4288	4295	4294	4290	4292		15.5	15.6			
✓ s	4390	4388	4395	4389	4390		15.8	15.9			
✓ t	4626	4629	4642	4637	4637	4638	16.6				
✓ u	4625	4621	4629	4629	4630	4627	16.5	16.7			
✓ v	3830	3833	3830	3830	3831		17.1	17.2			
✓ w	3880	3882	3873	3872	3884	4878	17.3	17.3			

Secondary I

a	3155	3145	3167	3166	3172	3163	3162			
b	3180	3189	3191	3197	3168	3175	3160			
c	3233	3236	3246	3239	3240					
d										
e	3640	3643	3646	3661	3662	3645	3635	3652	3637	3653
f										
g										
h										
i										
j										
k										
l										
m										
n										
o										
p										
q										
r										
s										

— telescope
change angle 150°

Persenn Window

Wed. March 10th

13587
16382
14148
16583
18858

check zero pt.

Secondary III									
a	3470	3474	3470	3473	3472	13.1	13.0		
b	3526	3520	3530	3535	3529	3522	3527	13.3	13.2
c	3609	3614	3624	3623	3620	3618	13.5	13.5	
d	3733	3737	3738	3740	3737	13.9	13.9		
e	3794	3797	3788	3794	3793	14.1	14.0		
f	3905	3902	3908	3900	3904	14.4	14.3		
g	4079	4082	4071	4070	4076	4053	4044	4047	4046
h	4147	4144	4143	4149	4146	4131	4374	4131	4139
i	4363	4380	4376	4395	4375	4355	15.3	4355	15.3
j	4587	4594	4615	4621	4621	4612	4622	4613	4617
k	4647	4662	4654	4654	4654	16.7	16.6		
l	4700	4735	4742	4735	4755	4760	4765	4740	4730
m	4864	4860	4870	4880	4845	4855	4842	4844	4842
n									
o									

4764	4745	4750	4770	4714	4714	4720	4710	4714	16.8
									16.8

Main seg.

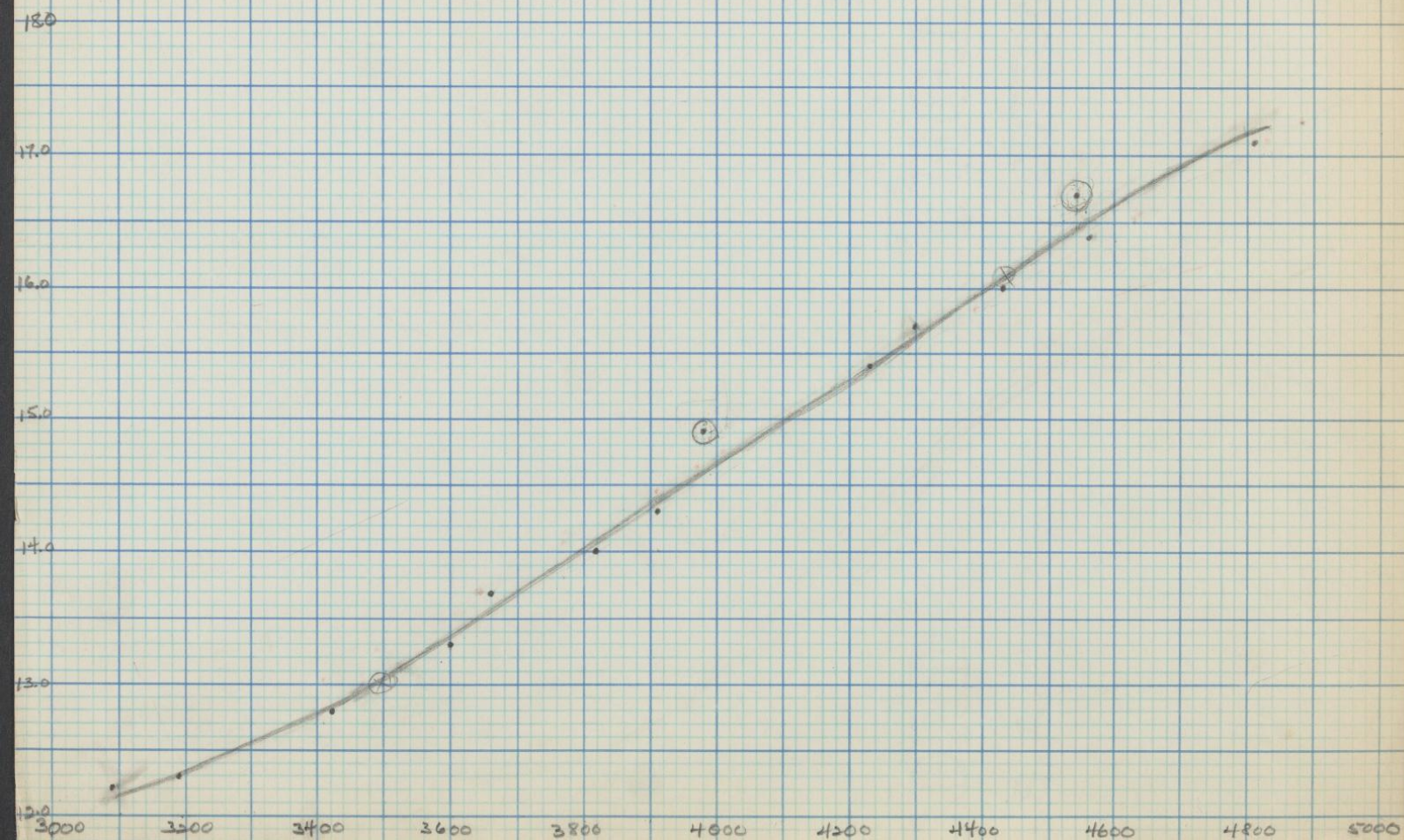
P.2	3135	3150	3167	3158					
12.3									
12.5									
13.7	3728	3736	3694	3694	3708	3690	3700	3693	3689
14.0									
14.3									
14.9	4037	4034	4040						
15.4									
15.7									
16.0	4512	4512	4514						
16.4									
16.7									
17.1									

Earlier
3097

4020

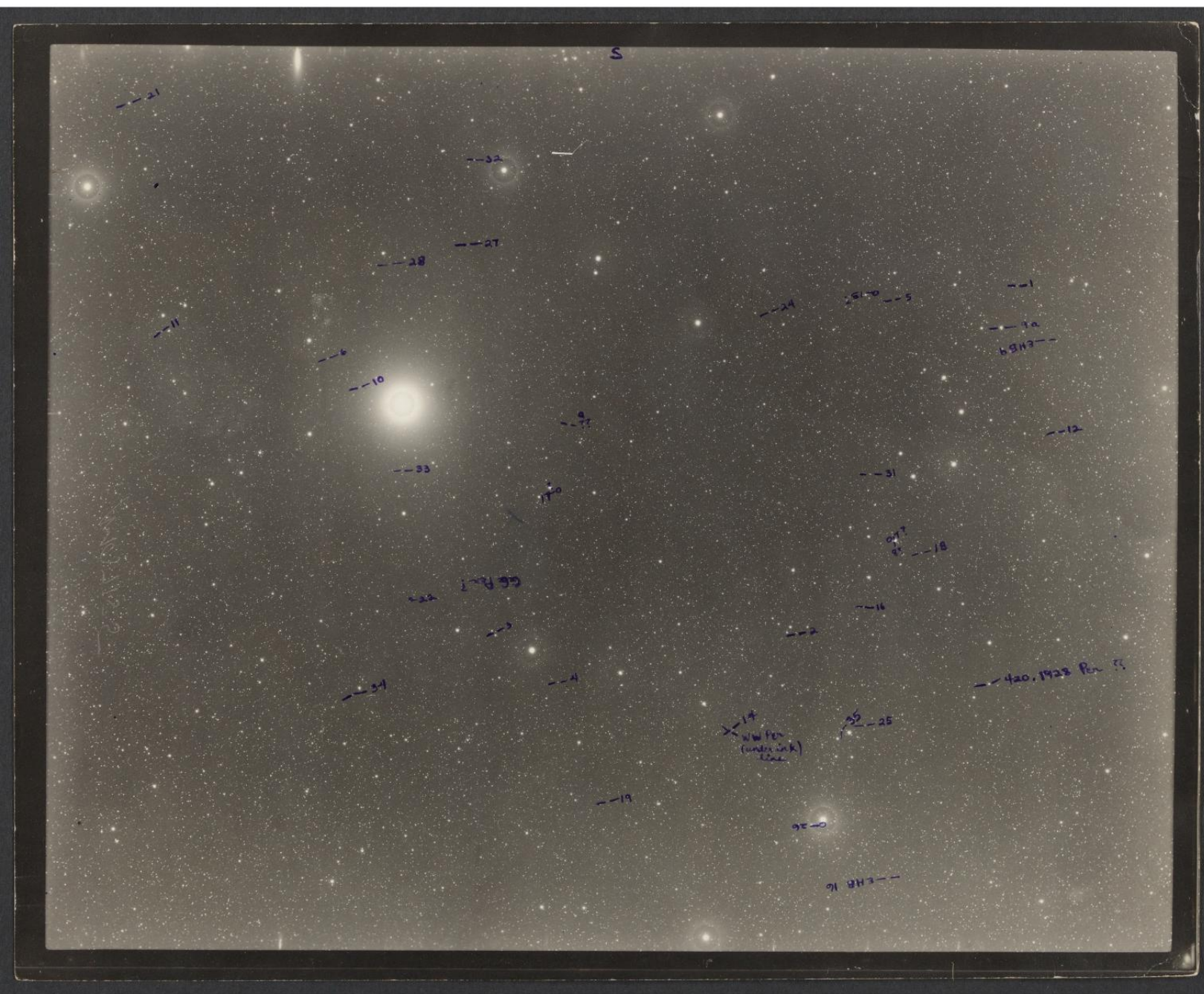
4466

$R_{sd} = I$ secondary sequence



Red = II secondary seq.





MC 37155 Feb 11 (printed)
"New" VSF 1 3h 10m + 41.0 (1950)

Variables checked on discovery plates and marked on this print. Give 15-16, 52, 101.
includes all AB# outages, all possible cluster types, and known variables
found.



Mc 37155 Feb 11 (putrid)
"New" VSF 1 3 h 10 m + 41.0 (1950)

WF
f
WF
9
5
WF
10
WF
03
WF
257
WF
2
Mrs.
Lustig
50
70
WF
3

WF
r

WF
9

5

WF
10

WF
03

WF
25

WF
2

RS.
USP

50
10

WF
3

WF
r
WF
9
5
10
WF
03
MWF
257
WF
2
RS.
WST
50
05
WF
3

INDEX

MC VARIABLE FIELDS SURVEYED FOR VARIABLES-

MW/F5

9-11 LIST OF MC PLATES

14

14 SEARCH FOR VARIABLES

MW/F9

51-53 Lists of Plates MC

56 Comparisons for variables

MW/F15

91-93 List of Plates MC

94 Known variables

96 Search for new variables

MW/F210

119, 121 List of Plates MC

120 Known variables

122 Search for variables

MWF 203

- ~~131~~ List of Plates, MC
 130 Known variables
 132 Search for variables
 134 measures

MWF 257

- 139 Plate list MC
 140 Known variables
 142 Search for variables

MWF 3

- 149-151 Plate list MC

MWF 2

- 159-161 Plate list MC
 162 Known variables
 164 Search for variables

 $3^h 15^m$, $+41^\circ$, Deneb Cluster

- 175-176 Plate list, RH, MC
 177 Known variables
 178-183 Search for variables
 180-181 measures

4^h 50^m, 17°

195 Plate List ME

196 Known variables

198 Search for variables

MWF 246

205- Plate List ME

207 Known variable

208 Search for variables -

MWF 5

CENTER: $10^h 30^m$, $+24.0$ GAL. COORD. 180° , $+6$
 $+60$ CORNERS: $10^h 10^m$ } at $+26.5$; $10^h 12^m$ } at $+21.5$
 $10^h 42^m$ } $10^h 40^m$ }

MC 22262	Dec. 8, 1926	3+	68 ^m	4858.863
22316	Jan. 7 1927	3+	96	88.855
22363	Feb. 2	3+	80	4914.803
22376	7	3+	71	19.744
22415	Mar. 4	3+	69	44.669
22419	8	3+	32	48.647
22453	Apr. 6	3+	65	77.611
22507	29	3+	65	5000.568
22514	May 2	3	76	03.588
22531	19	3+	42	20.578
23001	Dec. 18, 1927	3	67	5233.934
23040	30	3	20	45.822
23082	Jan. 20, 1928	3i	62	66.823
23103	23	3	90	69.807
23115	26	3	72	72.817
23124	27	3+	75	73.798
23128	29	3	68	75.809
23179	Feb. 12 th	3+	70	89.759
23188	13	3+	66	90.758
23195	20		82	97.786
23279	Mar. 12		56	5318.691
23289	14		62	20.683
23296	19		78	25.677
23310	21		90	27.694
23354	Apr. 10		65	47.592
23361	13		79	50.601
23369	16		70	53.579

0

			Expo	
MR	23375	Apr. 17, 1928	61 ^W	5354.602
	23383	20	77	57.594
	23405	May 12	64	79.579
	23891	Dec. 14	55	5595.891
	23920	21	63	5602.919
	23955	Jan. 2, 1929	74	14.918
	23961	4	79	16.887
	23966	6	81	18.897
	23972	7	67	19.854
	23984	13	60	25.853
	24004	19	67	31.831
	24082	Feb. 12	72	55.746
	24156	Mar. 28	67	99.648
	24164	29	63	5700.636
	24173	Apr. 3	100	05.637
	24204	29	74	31.585
	24209	May 1	71	33.576
	24227	9	67	41.579
MC	24677	Dec. 25	67	5971.864
ND	24685	31	62	77.850
	24686	31	62	.899
	24704	Jan. 7, 1930	79	84.926
	24742	Feb. 3	73	6011.820
	24777	21	66	29.750
	24784	27	77	35.708
	24792	28	75	36.735
	24799	Mar. 4	74	40.686
	24826	20	65	56.682
	24838	23	63	59.686
	24846	28	65	64.637

			Expo	
MC 24850	Mich. 29, 1930		75	6 065.664
MA 24857	Apr. 2		76	69.641
24892	23		61	90.564
24899	26		70	93.593
24904	28		60	95.580
25247	Nov. 28		90	6 309.914
25268	Dec. 18		104	29.900
25396	Mich. 11, 1931		114	6412.676
25458	Apr. 18		100	50.570
25804	Dec. 14		99	6 690.917
25841	Jan. 14, 1932		79	6721.840
25872	Feb. 13		90	51.723
25908	Mich. 2		101	69.702
25926	8		93	75.700
26028	Apr. 23		98	6821.576
26281	Dec. 28, 1932	3+	52	7070.855
✓ 26311	Jan. 23, 1933	3+		96.872
26318	24	3+		97.862
26323	31	3i	60	7107.810
✓ 26345			50	
26356	Feb. 21	3+	62	25.831
26389	Mich. 16		60	48.607
26392	17		10	49.589
✓ 26477	Apr. 27	4	30	90.557
26482	29	4	45	92.561
26398			50	
26353			62	

Page 72
Maze
↓

no known variables

new variables

22363 22453

no new variables

23124

" " "

23972

" " "

24784

" " "

24004

" " "

26311

" " "

26356

" " "

26477

" " "

9 06 \rightarrow 9 10^m incl,
 + 14.6 \rightarrow + 15.1 MWF 94

Gal. Co. Rp. 180°, +39°

contact very poor
 21855-

CENTER: 9 06^m, +14.8

CORNERS:

MC 22259	Dec. 6, 1926	76 ^m	4856.913
22335	Jan. 25, 1927	70	4906.732
22348	29	46	10.752
22375	Feb. 7	64	19.680
22401	28	93	40.691
22418	Mar. 8	32	48.619
22406	1	62	41.692
22443	28	60	68.607
22452	Apr. 6	65	77.557
23000	Dec. 18	64	5233.885
23024	25	64	40.869
23042	Jan. 1, 1928	79	47.807
23066	15	80	61.795
23073	17	43	63.786
23089	21	79	67.770
23096	22	60	68.802
23114	26	63	72.766
23127	29	60	75.762
23178	Feb. 12	76	89.707
23187	13	69	90.704
23194	20	106	97.717
23202	21	77	98.709
23207	23	60	5300.697
23212	24	94	01.702
23222	26	58	03.703
23275	Mar. 10	56	16.664
23288	14	85	20.628
23309	21	62	27.640
23350	Apr. 7	44	44.579

MW
9

MC 23359	Apr. 12, 1928	Epo. 28 ^m	5349.549	
23380	18	58	55.567	
23420	May 16	35	83.570	23
23876	Dec. 6	54	5587.870	
23882	10	79	91.889	
23904	18	49	99.864	
23954	Jan. 2, 1929	70	5614.864	
23965	6	75	18.838	
23971	7	62	19.792	
23983	13	64	25.807	
24077	Feb. 11	62	54.728	
24081	12	68	55.690	
24122	Mar. 9	31	80.617	
24123	9	88	.680	
24163	29	61	5700.590	
24171	Apr. 2	56	04.621	
24172	3	74	05.573	
24190	26	63	28.553	15
24646	Nov. 29	81	5945.924	
24653	30	71	46.931	
24734	Jan. 25, 1930	107	6002.805	
24741	Feb. 3	73	11.763	
24776	21	60	29.701	
24791	28	67	36.679	
24830	Mar. 21	81	57.642	
24835	22	25	58.610	
24849	29	63	65.605	9
25230	Nov. 20	95	6301.906	
25233	22	87	03.910	
25248	Dec. 1	70	12.938	

MC25296	Jan. 13, 1931	Egged 106 ^m	6355.800	
25301	14	93	56.794	
25326	24	119	66.788	
25434	Apr. 9	101	6441.575	
25449	15	92	47.584	
25468	21	97	53.583	9
25787	Dec. 5,	98	6681.849	
25799	10	111	86.902	
25807	15	110	91.845	
25842	Jan. 15, 1932	96	6722.821	
25852		62		
25932	March 9	101	76.641	
25937	10	120	77.667	
26015	Apr. 21	94	6819.577	7
26176	Nov. 2,	60	7014.873	Gate 72
280	Dec. 28	71	70.772	Ridge
284	31	82	73.782	
5	31	62	.833	
358	Feb. 22, 1933	45	7126.624	
364	24	45	28.711	
407	March 27	60	59.547	
08	27	47	.627	
414	29	60	61.539	
16	29	65	.632	
972	Dec. 22	60	7429.823	
988	Jan. 11, 1934	47	49.728	

no known variables

21855-22259 no new variables

23178 " " "

Searched by Doris Hoffert -

91

MWF 15

CENTER: $7^h 50^m + 9.2$ GAL. LONG: $180^\circ + 20^\circ$ CORNERS: $7^h 34^m 70^s 8^h 01^m + 12.270 + 7^\circ$

MC 22258	Dec. 6, 1926	4856.858
22886	Jan. 7 , 1927	488.781
22405	Feb. 1	4941.652
22414	4	44.592
22417	8	48.594
22886	Nov. 4,	5189.907
22999	Dec. 18	5233.835
23039	30	45.789
23072	Jan. 17, 1928	63.742
23080	20	66.768
23095	22	68.756
23123	27	73.739
23173	Feb. 11	88.667
23186	13	90.651
23201	21	98.657
23206	23.	5300.646
23295	Feb. 19	25.624
23349	Apr. 7	44.538
23374	17	54.555.694, 1
23807	Nov. 9,	5560.923
23828	19	70.894
23890	Dec. 14	95.845
23960	Jan. 4, 1929	5616.824
23964	6	18.775
23977	10	22.753
23982	13	25.759
24076	Feb. 11	54.674

MC	24109	Feb. 1, 1929	5672.632	
	24110	"	.656	
	24170	Apr. 2	5704.576	"
	24590	Nov. 4,	5920.917	
	24645	29	45.869	
	24671	Dec. 25	71.815	
	24684	31	77.771 - ^{minut} .470	
	24698	Jan. 4, 1930	81.822	
	24768	Feb. 17	6025.662	
	24783	27	35.648	
	24842	Feb. 27	63.580	
	24853	31	67.564	
	24856	Apr. 2	69.580	10
	25236	Nov. 23	6304.927 - ?	
	25294	Jan. 11, 1931	53.759	
	25325	24	66.700	3
	25742	Nov. 7	6653.906	
	25803	Dec. 14	90.845	
	25834	Jan. 4, 1932	6711.750 ^{minut} .456	
	25907	Feb. 2	69.628	
	25925	8	75.628	5

Known variables

U U C hi	$7^h 34^m 48^s$	$+7^\circ 14.2'$	$\underline{14.2^m}$	To $\underline{15.4^m}$	Singular ?	
U Y	39.59	9 54.4	$\underline{13.8}$	$\underline{15.4}$	Ecl	$22^d.24$
292.1928 RMC	36.9	7 37	$\underline{13.0}$	$\underline{13.5}$	Ecl	Hoffmeister.
Ross 200	49.6	10 21	$\underline{11}$	$\underline{13}$		

		new variables		
Contest	Mcplate	24 no.	Bright	Faint
22315	22414	1	22315	22414
		2	22414	22315
23186			no variables	
23960		"	"	
24783		"	"	
25742			No new variables - found UY Ori - faint	

M/WF 210

CENTER: $0^h 40^m + 22.0$ $90^\circ, -40^\circ$ CORNERS: $0^h 20^m$ to $0^h 52^m + 19^\circ$ to $+24^\circ$
(58^m)

22126

ME 22253	Dec. 6, 1926	4856.532	
22669	Sept. 5, 1927	5129.767	
22869	Nov. 1	5186.654	
23699	Oct. 7, 1928	5527.707	
23824	Nov. 15	5566.617	
24629	21	5937.558	
25829	Dec. 30, 1931	6707.500	
26154	Oct. 25, 1932	7006.631	S
26160	20	11.575	Gravel S
63	30	.706	
26166	Nov. 1	13.589	S
69	1	.701	
26172	2	14.611	S
26179	3	15.580	n pp
82	3	.701	S
26205	22	34.527	n +
26230	27	39.521	n
32	27	.648	n
26243	30	42.509	n
45	30	.627	n
26686	Aug. 29, 1933	7314.707	112°S
88	29	.807	
26739	Sept. 21	37.641	
26783	Oct. 10	56.630	
26787	11	57.593	
89	11	.678	
26809	16	62.768	

26867, 9 } empty, 129
26878 }

these are at
 $0^h 37^m, +40.7$

M/WF
210

Known variables

A G Andromeda Oh $28^m 12^s$, $+21^\circ 07'.2$ 13.2 - 14.7 6^d Cepheid.

MWF
218

M C Plates cont.

~~26681~~ Aug. 27, 19330^h 40^m, +22°~~7312.849~~

26886 Nov. 15

92.512 follows Sm

88 15

.627 " "

26892 16

93.492 " "

94 16

.628 " "

new variables

Contact Plate

22126 MC 26254

1

22126

26254

:-v

26179

2

26179

22126

:-v

3

26179

22126

v-..

26232 no new variables

22669 no new variables

25829 " " "

MWF 203

CENTER: $0^h 37^m$, $+40.7$ $(90^\circ, -20^\circ)$ CORNERS: $0^h 20^m$ to $0^h 54^m$ $+37.5$ to $+42.5$

MC 22233	Nov. 24, 1926	4844.570
22847	Oct. 28, 1927	5182.626
23709	" 9, 1928	5529.692
24411	Aug. 15, 1929	5839.797
24598	Nov. 6	5922.606
25586	Aug. 16, 1931	6570.817
25835	Jan. 7, 1932	6714.501
26158	Oct. 30, 1932	7011.499
61	30	.614 trailed
26165	Nov. 1	13.553
68	1	.662
70	1	.740 — ?
26171	2	14.561 N
26178	3	15.542 N
81	3	.662
26190	20	32.535 — ?
96	20	.580
26204	22	34.490
26231	27	39.562 follows $\frac{1}{4}$
33	27	. ? S F
26236	28	40.482 N F
38	28	.672 (N) F
26275	Dec. 26	68.496 (S)
77	26	.573 F
26651		
26660		
26867	Nov. 5, 1933	7385.481
69	5	.574
26876	12	89.485

See pag. 119.

These are at $0^h 40^m$, $+220$

Known Variables

S AND	0 ^h 34 ^m 49 ^s	+40° 28' 3"	6-416	nova 1855
AE "	35 09	41 01.5	<u>14.7-15.6</u>	irregular?
AF	35 38	40 24.6	<u>15.3-16.5</u>	"

HV 4014 29.7 41 07 13.5-14.5

All in Andromeda Nebula.

new variables

Contact Plate	EN no.	Bright	Faint	
MC22062 MC2608	1	26138, 26181, ²⁶⁶⁸⁶	22062	...
26191		no new variables		
26196	2	22062	26196	...
26275		no new variables		
26660	3	26660	22062	...
26686	4	22062	26686	...
26739	5	26739	22062	...
	6	22062	26739	...
	7	26739	22062	...
26789	8	26789	22062	...
26886	9	26886	22062	...

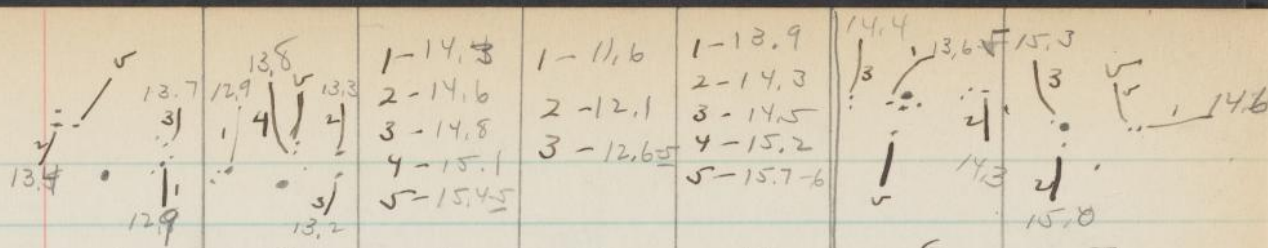
165

165

165

and Oak Ridge Contact for further work

34



	2	9	1	6	4	8	7
22062	12.9-8.9	13.7-6.9	15.5-11	12.3-11	14.4-11	14.3-11	15.2-11
26158	13.9-8	13.9	14.2-11	12.2-3	14.9	14.2-1	15.5-2
61	.614	13.6-7	13.8-7	14.0-13.9	12.3	14.8-3	15.1
26165	13.553	13.9	14.0	13.9	12.4	14.7	13.7
68	.662	13.6-1	13.1-2	14.1-0	12.6-5	14.7	14.0
70	.740						
26171	14	—	13.7	13.9-8	13.5-2	15.0	14.3-2
26178	15.542	—	13.3-2	14.0	12.4-5	15.2	14.0-13.9
81	.662	13.3	13.3	13.8	12.3-4	15.0-1	14.1
26196	32	13.6-11	13.2	14.0	12.3-2	14.9-8	13.7-6
26204	37	13.2-3	13.4	14.1-0	12.3	14.8-7	13.8-9
26231	89.562	13.7-6	13.7	14.2-1	12.3	14.7-6	14.3-4
33	.660	—	13.6	14.0-1	12.3	15.0-1	—
26236	40.482	13.5	14.0	13.9	12.7	14.6	14.1-2
38	.672	13.6-5	13.1	13.9	12.3	14.6	14.3
26275	68.416	12.7	13.6	14.0-1	12.4	14.4-5	13.9
77	.573	12.7-8	14.0	14.0-1	12.4-3	14.9	14.3-1
26601	13.99	13.7-8	13.9	14.1-0	12.3	14.7	13.9
26660	7300	13.5	13.6	14.1-2	12.4	15.5	14.1
26686	14.707	13.5	13.4-3	14.3-1	12.3-4	15.6-11	14.1
88	.807	12.4-13.0	13.6	14.2-3	12.7-5	15.1-2	13.9
26739	37	13.6	13.6-7	14.0-1	12.8-11	14.6	14.2-11
26783	56	14.0	13.8-9	13.9	12.3	14.5	14.1
26787	57.593	13.6	13.9	14.1	12.4	15.0	14.1-2
89	.678	14.0	13.8-1	14.0	12.4	15.1	13.8-11
26809	62	13.5	14.0	14.7	12.4	14.6-7	13.8-9
26886	92.512	13.0-2	13.1-11	15.8	12.3	14.7	13.9
88	.627	13.5	13.2	14.4	12.1	14.7	13.9
26892	93.493	13.0	14.0	14.0	12.3-4	15.0-1	14.1
94	.626	13.5	13.7-8	14.0	12.3	14.8	14.0

1-12.8⁵ 15.4 15.9 16.2
 2-13.1 3/4
 3-13.6-5
 4-13.8
 5-14.1 ✓
 3 5

13.9^m 14.1^m
 13.3 16.1
 13.1± 16.1-0
 13.0 16.1
 13.3-2 16.3

13.12.1 —
 13.0 —
 13.2-3 16.3-4
 13.2 15.9
 13.15.1 15.4
 13.0 <15.4
 13.1-2 15.5-4
 13.0 16.0
 13.2 15.5-6
 13.0-1 16.3
 12.9-13.0 15.6

12.9 16.5
 12.9 M 16.0
 12.9-13.0 14.3-2

13.0 15.8
 13.2 15.2 M
 13.1±.1 16.1-0
 13.2-3 14.3-2

13.0 16.4
 13.0 16.3

13.6^h —
 13.5 —

13.7 —
 13.8-9 —

MWF 257

CENTER: $2^h 35^m + 25.0$

(120°, -30°)

CORNERS: $2^h 18^m$ & $2^h 47^m$, $+22.5$ To $+27.5$

MC 25306	Jan. 16, 1931	6358.495
25623	Sept. 10	6595.842
25795	Dec. 8	6684.603
26167	Nov. 1, 1932	7013.622 - ?
26173	2	14.651 SF unlist
✓ 75	2	.825
26237	28	40.529 SF unlist
39	28	.718 SF
26244	30	42.555 (S)F
✓ 46	30	61. SF
26276	Dec. 26	68.585 SF
26282	29	71.492 SF
83	29	.552 J SF
26291	Jan, 15	88.538 SF
26300	21	94. SF
01	21	. SSF
02	21	. SSF
26303	23	96.474 SF
04	23	.541 SF
<u>26312</u>	24	97.497

MWF
257

Known variables

RS Ari $2^h 37^m 45^s$, $+27^\circ 15' 0''$ 9.0-10.3 8.80 a7 - cl

Ross 192 37.6 26 59 11 - ns asteroid??

MWF
257

		mm variables		
Co Test	Plate	no	Bright	Faint
MC26312	MC26175	no mm variables		
26246	1	26246		26312
26276	no mm variables			
26300	" "	" "		

MWF 3

CENTER: $15^h 00^m, +24.5$

CORNERS:

MC 22370	Feb. 4, 1927	4916.931
22497	Feb. 28	40.885
22420	March 8	48.807
22495	April 23	94.765
22504	28	99.720
22511	May 1	5002.715
22517	6	07.722
22548	June 1	33.671
22591	30	62.617
23092	Jan. 21, 1928	5267.942
23105	23	69.930
23205	Feb. 21	98.891
23306	Mar. 20	5326.811
23320	27	33.835
23377	Apr. 17	54.745
23407	May 12	79.686
23412	13	80.704
23416	14	81.718
23422	16	83.672
23445	June 11	5409.648
23455	15	13.647
23489	July 7	35.588
24090	Feb. 18, 1929	5661.914
24127	March 9	80.904
24167	April 1	5703.799
24178	10	12.779
24214	May 3	35.737
24229	9	41.692

MWF
3

150

ME 24237	May 13, 1929	5745.715
24272	28	60.679
24276	June 1	64.655
24284	4	67.657
24315	29	92.600
24322	July 2	95.605
24338	8	5801.606
24787	Feb. 27, 1930	6035.883
24794	28	36.924
24796	March 3	39.893
24802	4	40.887
24805	9	45.893
24852	29	65.817
24855	31	67.817
24895	Apr. 23	90.772
24901	26	93.720
02	26	.772
24906	28	95.725
24936	May 21	6118.699
24940	26	23.654
24946	31	28.651
24961	June 12	40.602
24974	19	47.602
24992	28	57.614
24999	30	58.604
25402	March 13, 1931	6414.874
25419	23	24.848
25442	April 11	43.809
25447	14	46.812
25463	19	51.787
25525	June 17	6510.628

IC 25877	Feb. 14, 1932	6252.934	
25916	Mar. 3	70.904	
25935	9	76.886	
26060	May 3	6831.730	
26419	March 29, 1933	7161.793	✓
26424	30	62.790	pseudos
25	30	.847	pseudos
26461	April 23	86.725	✓
63	23	.822	✓
26466	24	87.706	useless - broken
67	24	.775	✓
26474	26	89.715	✓
75	26	.762	✓
26479	27	90.670	✓
26486	29	92.779	} <u>nothing</u> plates almost useless
26545	May 23	7216.604	
26600	July 12	66.643	
26604	13	67.617	
26611	23	77.599	

MWF 2

CENTER: $12^h 00^m$, $+30.6$ $\lambda=160^\circ$ $\beta=+80^\circ$
 CORNERS: $11^h 45^m$ to $12^h 17^m$, $+29^\circ$ to $+34^\circ \pm .5^\circ$

MC plate

22263	Dec. 8, 1926	4858.934
22369	Feb. 4, 1927	4916.780
22395	27	39.803
22411	Feb. 3	43.834
22498	Apr. 24	95.671
22579	June 18	5050.592
23007	Dec. 21	5236.870
23043	Jan. 1, 1928	47.873
23083	20	66.870
23116	26	72.879
23129	29	75.861
23189	Feb. 13	90.805
23203	21	98.760
23213	24	5301.789
23290	Feb. 14	20.729
23304	20	26.702
23355	Apr. 10	47.640
23362	13	50.661
23370	16	53.656
23421	May 16	83.613
23892	Dec. 14	5595.936
23962	Jan. 4, 1929	5616.949
24124	Feb. 9	80.739
24164	29	5700.683
24174	Apr. 3	85.696

MWF
2

MC

24207	Apr. 30, 1921	5732.569
08	30	.603
24221	May 7	39.595
24232	10	42.574
24699	Jan. 4, 1930	5981.881
700	4	.935
24738	31	6008.858
24743	Feb. 3	11.870
24800	Mich. 4	40.783 out
24831	21	57.704
24858	Apr. 2	69.697
24890	22	89.658
24905	28	.702 95.641
24928	May 16	6113.593
24938	23	20.604
25247	Jan. 13, 1931	6355.880
25321	22	64.870
25327	24	66.866
25410	Mich. 18	6419.767
25440	Apr. 11	43.664
25450	15	47.663
25808	Dec. 15	6691.940
25873	Feb. 13, 1932	6751.787
25944	Mich. 12	79.742
26044	Apr. 28	6826.636
26286	Dec. 31	3+ 7073.886
26363	Feb. 24, 1933	5 7128.674
26390	Mich. 16-17	48.657
26395	23	55.716
26397	23	.814

Oak Ridge

MC

26401	Mich. 24, 1933		7156.639
✓26409	27		59.699
12	27		.783
✓26443	Apr. 20	4	83.550
✓45	20	3+	.694
26450	22	3+	85.598
52	22	3+	.674
26982	Jan. 10		7448.850
84	10		.919
26989	11		49.770

Known variables

W Comae $12^h 14^m 15^s$ $+ 29^\circ 02.2$ $11.5 - 14$ link

T Cbn $23 01$ $+ 32^\circ 18.3$ $8.6 - 12.8$ $302.6^{d.}$ M5 Long.

Sequence 56K
"1922"

7 12.0

8 12.5

9 13.5

10 13.8

11 14.0

12 14.2

13 14.3

14 14.4

Catalog	MCplate	EH No.	new variables	
			Bright	Faint
21893	26363		No new variables found.	
	26390		Nothing	" "
26409	1	26409		21893
26443			Nothing	
26445			nothing-	
26286			nothing	

This seems a good variable. probably cluster type, $13^m.9 - 14^m.9$ about

$3^h 15^m, +41^\circ$
 $3^h 4^m \text{ to } 3^h 29^m, +38.8 \text{ to } +43.3 (1855)$
 $\text{MC } 2^h 52^m \text{ to } 3^h 28^m + 38.8 \text{ to } +43.9 \times \frac{119}{121} \beta = -19^\circ$

TRH	27	Jan. 23, 1928	25269.528	
	33	24	70.524	
	365	July 17	5445.780	
	387	29	57.809	
	523	Sept. 13	5503.778	- 1 foot
	564	30	20.802	n.g.
Contant	607	Oct. 11	31.712	
	738	Dec. 5	86.639	
	773	12	93.592	
	811	22	5603.627	
	877	Jan. 7, 1929	19.586	
	935	23	35.601	n.g. 1,3
	984	Feb. 5	48.	
	1414	Aug. 16	5840.756	
	1470	Sept. 10	65.778	
	1525	Oct. 3	88.815	
	1541	1 5	90.813	
	1680	Nov. 20	5936.541	
	1733	Dec. 4	50.531	
	1794	31	77.598	
	1845	Jan. 19, 1930	96.625	
	1936	Feb. 21	6029.508	9
	2315	July 31	6189.816	
	2357	Aug. 12	6201.847	
	2420	Sept. 3 trailed	23.754	
	2590	Nov. 1	82.747	
	2674	28	6309.667	
	2789	Jan. 13, 1931	55.555	
	2822	20	62.627	7

 PERS.
CLUST

176

RH	3350	Sept. 6, 1931	6591.797
	3406	18	6603.766
	3579	Nov. 5	51.788
	3677	30	76.609 4
	4324	July 20, 1932	6909.777
	4500	Sept. 4	55.784
	4696	Nov. 20	7032.610
	4934	Mich. 9, 1933	7141.531 4
	5299	Sept. 2	7318.829
	5536	Nov. 15	12.597 2

MC	26981	Jan. 9, 1934	7447.503
cont'd	26987	11	49.687
	26990	15	53.509
	92	15	.560
	94	15	.621
	26999	17	55.617
	27000	17	.663
	27011	18	56.502
	27058	Feb. 3	72
	27131	Mich 15	7512.529
	27171	Apr. 2	30.542
	27184	5	33.546
	27187	7	35.550
	27193	8	36.547

Known variables

	(1900)	(1900)			
WW PER	3 ^h 11. ^m 8	+42° 27'.4	12.5 - 15		Long period
420.1928 "	20.0	42 13	9.4: -		AN 235, #83
VW "	22.4	44 03.1	10.6 - 14	1227 ^d	M Long.
WX "	30.6	43 19.2	13 - 16		Long
AB "	31.1	40 26.	9.2 - 9.8	7.16	Eclipsing
β Per.	3 01.7	40 34.6	2.3 - 3.5	2.87	Bachy'sing

Perseus: 3^m, 11'

Obs of 420. 1928 AN 235, #83

15 5502.58
 65 03.51
 65 06.52
 m 07.53
 15 56.40
 15 58.43
 65 65.50

signature from star counts on MC 26999 - 1. inch g.

new variables

Curtis

RH

607 33 nothing
564

877 1 877

1525 2 1525

2315 nothing

2674 "

2789 "

3350 "

607

607

Mc

26987 26981 nothing

26990 "

26994 3 26987

26999 nothing

27011 4 26987

5 26987

6 27011

26999 7 26999, 27058

27058 nothing

27131 8 26987

9 27131

10 26987

11 26987

12 27131

13 27131

14 27131, 27184

15 27131, 27184

27184

16 27184

12171

26994

27011

27011

26987

27011

27131, 27184

26987

27131, 27184

27131

26987

26987

26987

26987

26987

Binoculars 27131

no variation
" "

15, 14

8.1, 10, 3

80

1-11.7 1-11.3 9.5 10.5
2-12.3 2-12.0 a b c d e f
3-13.0 3-12.1
4-12.6 4-12.0

PH		v1	v2	420.1928;					
27	5269	12.1	12.1	16.3					
33	70	12.3-2	11.9-8	10.1-0					
365	5445		11.6	9.7-8					
387	57	12.9	11.8-9	10.3					
584	607	5531	13.2-3 ^m	12.2-3 ^m	10.2-53 20				
738	86	11.5-6	12.0-1	9.5-4					
773	93	12.1	12.1	10.3-4					
811	5603	12.0!!	—	9.8-9					
877	19	11.9M	12.0-1	9.6-5					
936	984	48	12.4	12.1-2	9.8: 5335				
				10.0±					
1414	5840	13.2	12.0	10.2±					
1470	65	13.2	11.6	9.8-9					
1525	89	12.4-5	11.8	10.3					
1541	90	11.5	12.0	10.2-3					
1680	1733	5950	11.0	11.5	10.0±: 5936				
				10.34					
1794	77	11.5	11.4	9.9-10.0					
1938	6029	12.3-4±	12.0±	10.3					
					11.6 12.6 12.9 12.5 12.1 11.5	15.0 15.6 15.8 16.6 16.6	✓	13.4 12.5 13.6 13.5 13.8 13.2	15.0=14.6 15.3=15.3 15.5=16.2 15.8=16.8 16.5=17.0
RH 5536	7392.597	v1	v2	420.1928	3	5	4	6	7
MC	793.586	12.5	12.1	a=9.5 c=10.5	11.8-13.5	15-16.5	11.8-13.2	12.5-14.0	15-16.5
26981	7447	11.5	13.0	just above c	a ₃ 12.1	2+7 15.3	1, 2 2	3 13.4	4-16.2
987	49	11.5	13.0	a ₂ 10.0	a ₄ 12.1	14 15.4	1, 2 2	3 13.7	4-16.2
990	53509	11.6±	12.9-8	a ₃ 10.0	a ₄ 12.1	13 15.3	13, 2	2 13.4	3 15.4
2	560	11.5-4	12.8-9	10.2 c	d, 13.2	14 15.4	13, 2	2 13.4	3 15.4
4	621	11.6-5	12.6	a ₁ 9.8	d, 13.0	23 15.3	12 2 2	3 13.6	4 15.4
999	55	11.8	12.9	a ₂ 10.0	a ₃ 12.1	=2 15.5	13, 2	3 13.4	2 15.4
27011	56	12.0	13.0	a ₃ 10.2	a ₄ 12.1	3 15.6	4, 2 5	1, 2 12.7	2 15.2
058	72	12.0	13.2	a ₃ 10.0	a ₄ 12.1	13 15.3	2 3 13	=3 13.5	3 15.6
131	7515	12.5	12.9	a ₂ 10.0	a ₃ 12.1	2 15.6	3 12	3 13.6	3 15.4
171	184	12.5	13.2	a ₄ 10.0	a ₃ 12.1	12 15.3	2 3 12	2 13.5	3 15.4
184	33	12.5	13.2	a ₄ 10.0	a ₃ 12.1	12 15.3	2 3 12	2 13.5	3 15.4

		13.0 13.1 13.5 14.3	15.1 = 16.0 15.3 = 16.4 15.9 = 16.9	12.3- n	① 12.8 = 13.8 ② 13.5 13.8 15.0: ④			12 13.5 = 14.73.8 2: 13.8 = 15.2 3: 14.5 15.8	181 14.3 14.6 13.8 13.5 14.5 17.0
		8	9	10	13	14	15	16	17 18
26981	7447	2 13.0	2 15.7	14, 2	2 13.6	24	3, 24	2 14.2	14.2 14.2
987	44	2 13.2	2 15.9	14, 2	= 3 13.8	24	3, 34	2 14.4	14.5 13.2
990	53	2 13.1	2 15.9	14, 2	2 13.7	24	= 3	2 14.5	14.4 14.1
2		2 13.2	2 15.8	71	2 13.6	24	= 3	3 14.4	14.2 12.2
4		2 13.1	2 15.7	71	2 13.6	24	3 14.4	3 14.4	14.1 13.2
999	55	2 13.1	2 15.5	= 1	2 14.8	24	~ 3	2 14.5	14.0 12.2
27011	56	2 13.5	2 15.9	12 22	2 13.6	24	~ 3	2 14.2	14.1 12.2
058	72	2 13.7	2 15.5	12 22	2 13.6	24	2 3, 3	2 14.0	14.2 12.4
131	75715	2 13.6	2 15.8	3 14	= 12.8	~ 2	71	2 13.7	14.1 12.2
171	30	2 14.1	2 15.4	16.5	2 13.7	771	71	2 13.5	14.5 12.5
184	33	2 14.1	2 15.9	~ 4	~ 2 13.5	771	771	1 13.6	14.2 14.1
187	35	2 14.0	2 15.6	16.5	2 13.7	~ 13.2	1571	2 14.0	14.1 12.2
193	36	2 13.9	2 15.7	16.8	2 13.7	~ 2 13.7	1871	2 14.1	14.2 14.1

new variables continued from 179

MC

26987 27171 17 26987

27171

9-0

18 26987

27171, 27187

11-0

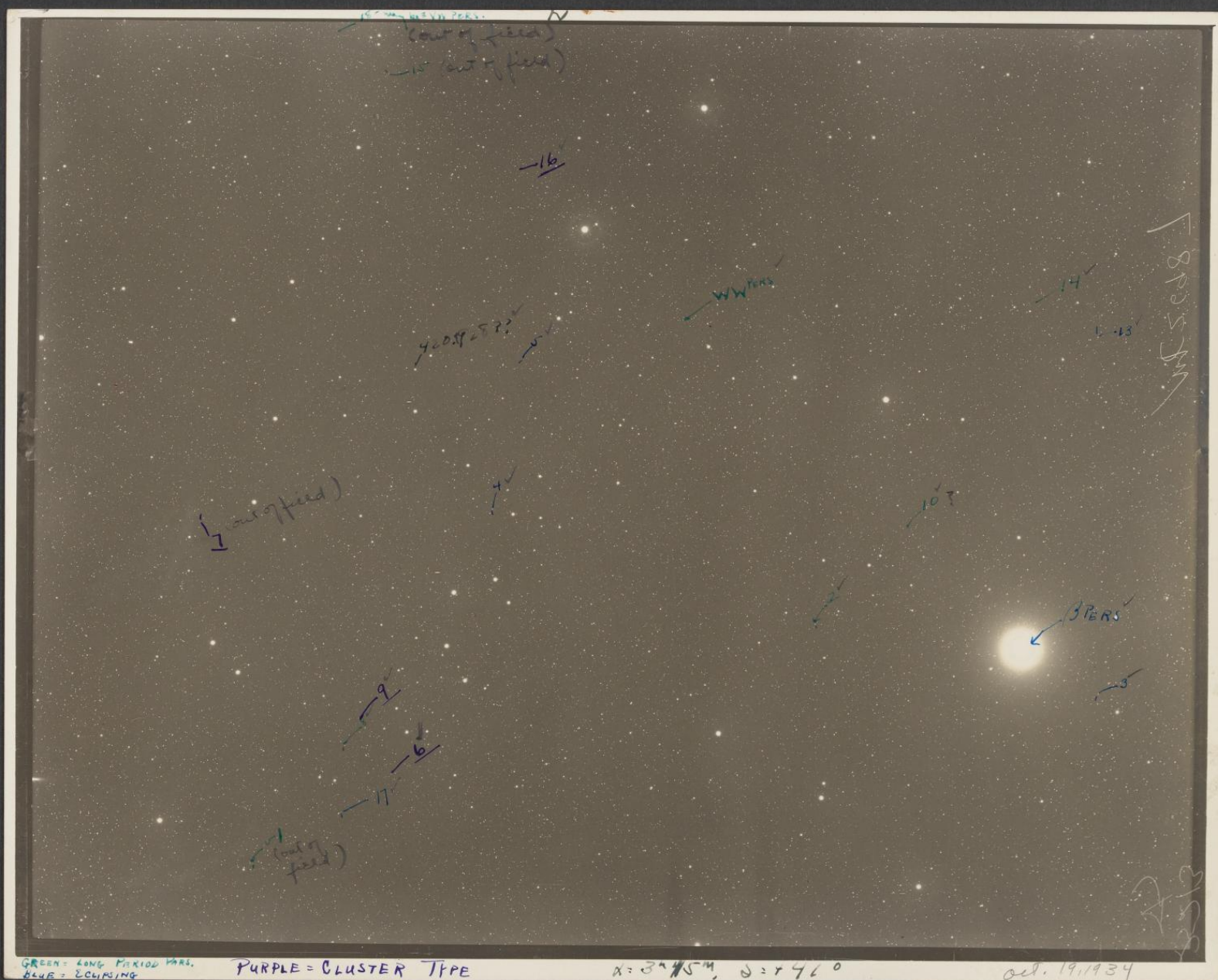
27187 no new variables

1665
15 18
14 10

27193 no new variables

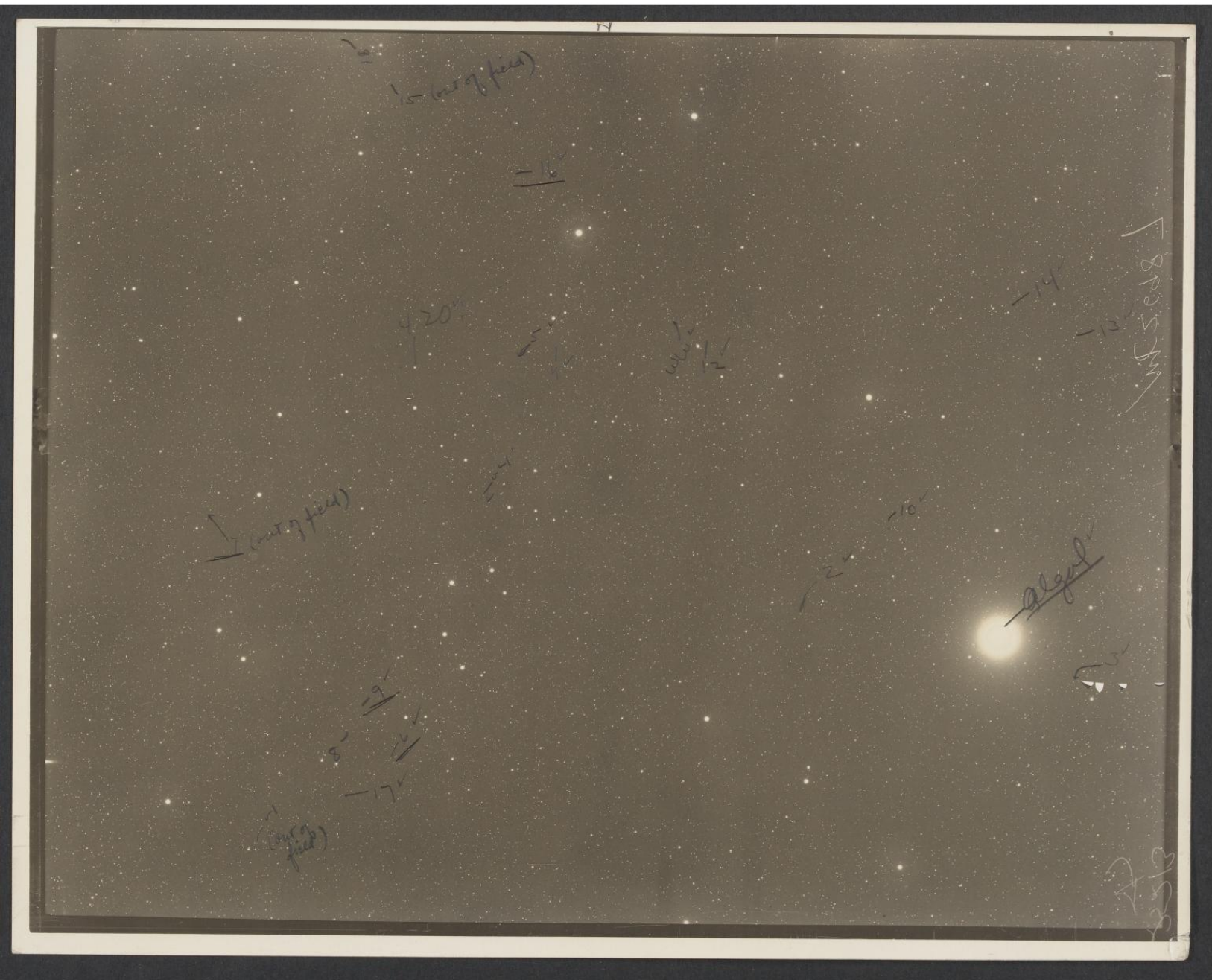
15 18
14 10

18
10



3^h 15^m + 41°

DE 515P3



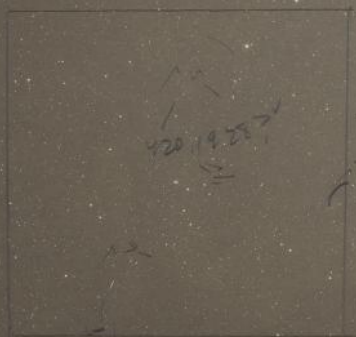
3^h 15^m, +41°

① E 515 p

A

DE 277B

70d N 17



3^h 00^m, +45°

Search for variables in vicinity of Perseus Cluster

	Positions of		Centers		number MC plates	number comparisons	variables		Types variables			
	α	δ	λ	β			new	known	Long	Ecl	Cl	Short
Field I	4 ^h 50 ^m	+07.5	160°	-20°	6	4	0	5	4	1	0	0
Field II	3 15	+41	119	-12.5	13	11	16	4	9	6	4	1

variables in Field II

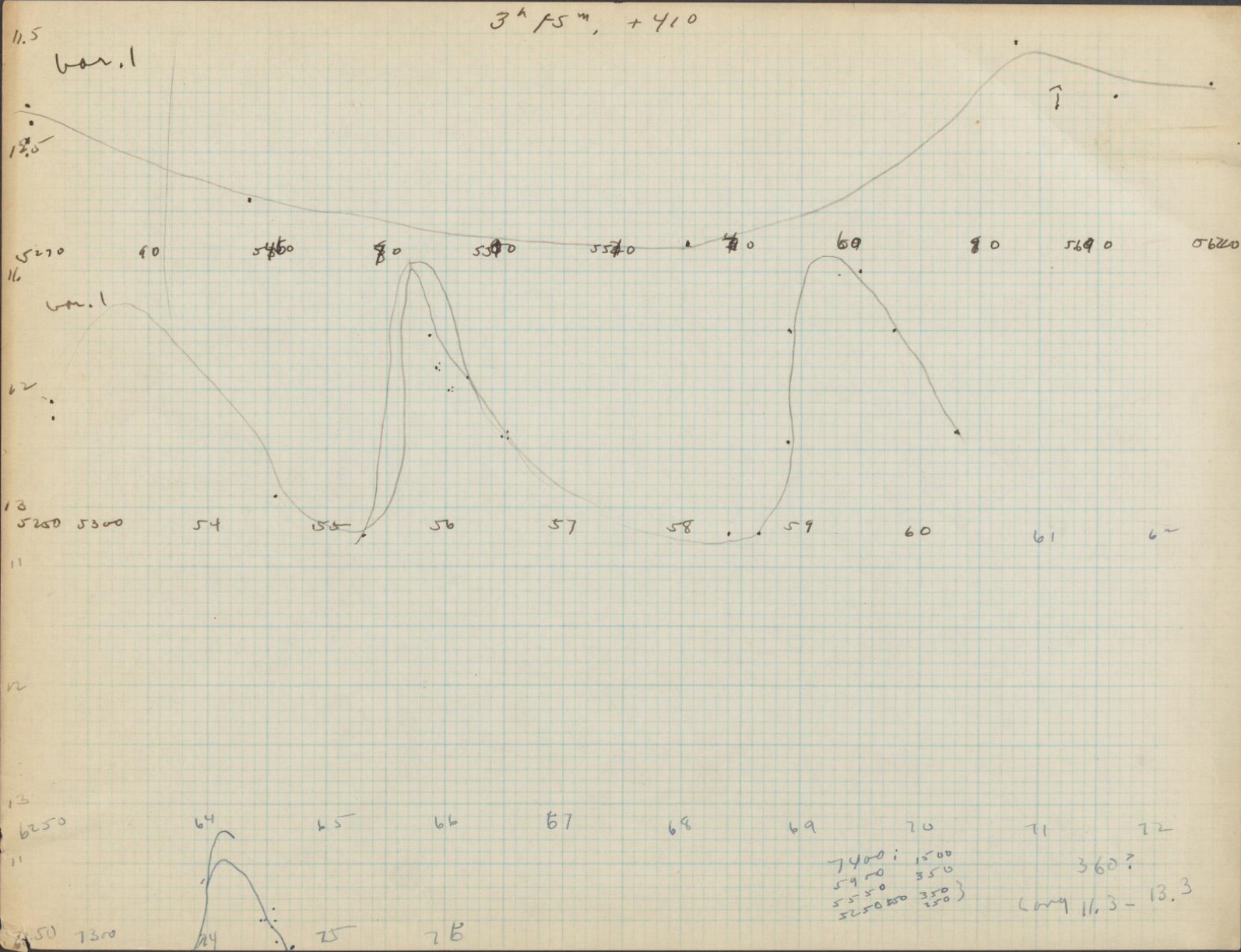
no.	max	min	Type	Period and Remarks
VW PERS	10.6	< 14	Long period	227 ^d
WW "	12.5	- < 15	" "	
1	11.3	13.3	" "	
2	11.5	13.0	" "	or irregular
8	13.1	14.2	" "	
10	12.3	17.0	" "	
14	13.3	< 17.0	" "	
15	11.0	13.5	" "	
18	13.5	< 16.5	" "	might be VW Pers-
β PERS	2.3	3.5	Eclipsing	2.87
3	12.0	13.2	"	
4	11.9	13.0	"	
5	15.3	16.2	"	
17	14.0	14.6	"	
13	13.3	14.3	"	uncertain type.

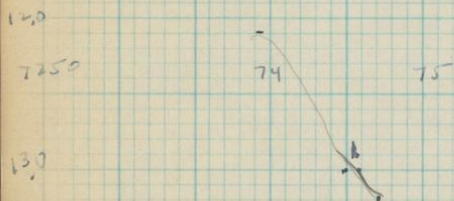
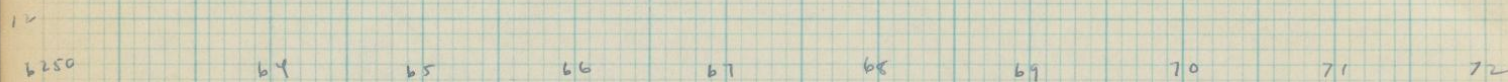
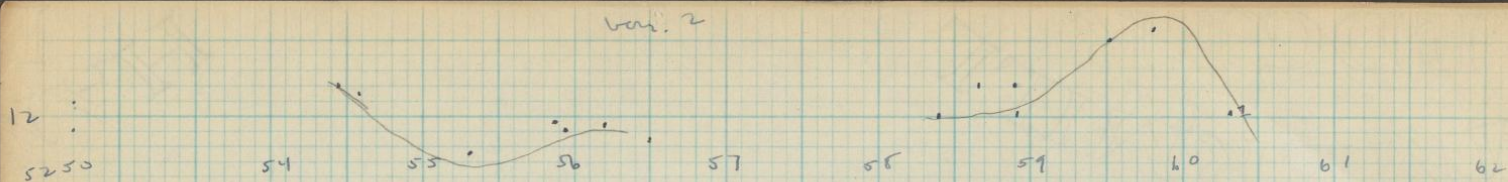
variables in Field at $3^h 45^m$, $+41^\circ$ cont.

no.	max	min	Type
6	13.3	14.1	Cluster
7	14.9	16.6	" might possibly be a Cepheid
9	15.7	16.8	" uncertain type
16	13.9	15.4	" or irregular.
420.1928	<u>9.5</u>	<u>10.5</u>	short- (not Cepheid)

All magnitudes are extremely rough - those for cluster types not quite so bad as the others.

Oct. 19, 1934.





long or long? 11.5-13.0

3^h 15^m, $\pm 41^{\circ}$

var. 3

7440

60

80

7500

20

40

53.5

.6

var. 5

65

16

13

var. 6

15

16

13

var. 8

14

15

var. 9

13

13

var. 13

14

14

14

15

10

5

7440 60

80

7500

20

40

53.5

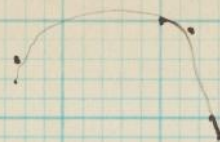
.6

.7

var. 16

var. 17

x
y



Search for variables in vicinity of Perseus Cluster

	α	δ	λ	β	number MC plates	number Comparisons	new variables	known vars.	Types variables		
									Long	Eclipsing	Cluster
Field I	$4^h 50^m$	$+7.5^\circ$	160°	-20°	6	4	0	5	4	1	0
Field II	3 15	$+41$	119 124	-12.3 -19	13	11	16	4	9	6	4, 1 short

Cluster type variables:

no.	mag	lim	
6	13.3 12.7	14.1 13.3	
7	14.9 15.2	16.3	— This might possibly be a Cepheid - unlikely
9	15.3 15.7	16.8	- uncertain
16	13.8 14.5	15.4	Cluster or irregular

These magnitudes are extremely provisional -

2nd copy of this handed in Oct. 19, 1934

Search for variables at $\alpha = 4^h 50^m, \delta = +7.5^\circ, \lambda = 160^\circ, \beta = -20^\circ$

6 MC plates taken

4 Comparisons made - no new variables found.

5 Known variables, 1 W UMa star, 3 Long period = 1 probably L.P.

Field around Perseus Cluster $\alpha = 3^h 15^m, \delta = +41^\circ, \lambda = 124^\circ, \beta = -19^\circ$

13 MC Plates taken

11 Comparisons made, 16 new variables found

4 known variables 2 Long, 1 Eclipsing, 1 short: (not eclipsed)

new variables:

v	1	11.3	13.3	Long period
	2	11.5	13.0	" or irregular
	8	13.1	14.2	" " "
	10	12.3	17.0	" period
	14	13.3	<17.0	" "
	15	11.0	13.5	" "
	18	13.5	<16.5	" "
	3	12.0	13.2	Eclipsing
	4	11.9	13.0	"
	5	15.3	16.2	"
	17	14.0	14.6	"
	13	13.3	14.3	? " >>
	6	12.7	13.3	Cluster
	7	15.2	16.3	" &
	9	15.3	16.0	"
	16	13.0	14.5	" or irregular

Search for variables in vicinity of Pegasus Cluster.

Field I - $\alpha = 4^h 50^m$, $\delta = +7.5^\circ$

$\lambda = 160^\circ$ $\beta = -20^\circ$

6 MCP plates taken

4 Comparisons made - no new variables found

5 Known variables: 1 W UMa, 3 Long period, 1 probably long period.

Field II - $\alpha = 3^h 15^m$ $\delta = +41^\circ$

$\lambda = 124^\circ$ $\beta = -19^\circ$

✓ 13 MC plates taken

11 Comparisons made, 16 new variables found: 7 Long 5 Sel, 4 Clusters

4 Known variables 2 Long 1 eclipsing, 1 short

3^h 15^m, +41°

Results with 8 mc plates, plus R plates -

1	11.3	13.3	Long period ✓	} found on RH plates
2	11.5	13.0	Long irregular ✓	
3	12.0	13.5 ²	Eclipsing ✓	
4	11.9	13.0	" ✓	
5	15.3	16.5 ²	Cluster or eclipsing	
6	12.8	13.5 ³	Cluster:	
7	15.2	16.5 ³	" . Could be Cyphind?	

The magnitudes are hopelessly rough - guessed from K 22 on RH plates down to 13.1

The only possible Cyphind is 7.

The field includes these known variables:

WW Persi	12.5 - 11.5	Long Period
420.192 8"	9.5 - 10.5	Short: (not Cyphind).
VVV 1	10.6 - 11.4	227 ^d Long
β	2.3 - 3.5	2.87 Eclipsing

additional variables

8	^{13.4} 13.0	^{14.2} 14.5 :	Long period or irregular
9	15.3	16.5	Cluster:
10	12.3	27.0	Long period ✓
13	^{13.3} 13.8	^{14.3} 15.0	? Eclipsing ??
14	^{13.3} 14.5	<17.0	Long period ✓
15	^{11.0} 11.5	13.5	" " ✓
16	13.0	- 14.5:	Irregular or Cluster?
17	14.0	14.6	Eclipsing
18	13.5	<16.5	Long period ✓

Search for variables around the Pleiades Cluster (M45)

$3^h 15^m + 41^{\circ}$

The only plates found possible were RH plates, which were not too good for this work. There are about 30, of varying exposures.

An area of about 16 square degrees, with the cluster at the centre was searched. Comparisons of plates were made - i. e., all ^{possible} plates were compared with one contact.

2 ^{new} variables found

1 Long period

1 Short, possibly eclipsing.

2

5 Known variables

3 Long

1 Eclipsing

1 unknown, eclipsing ???

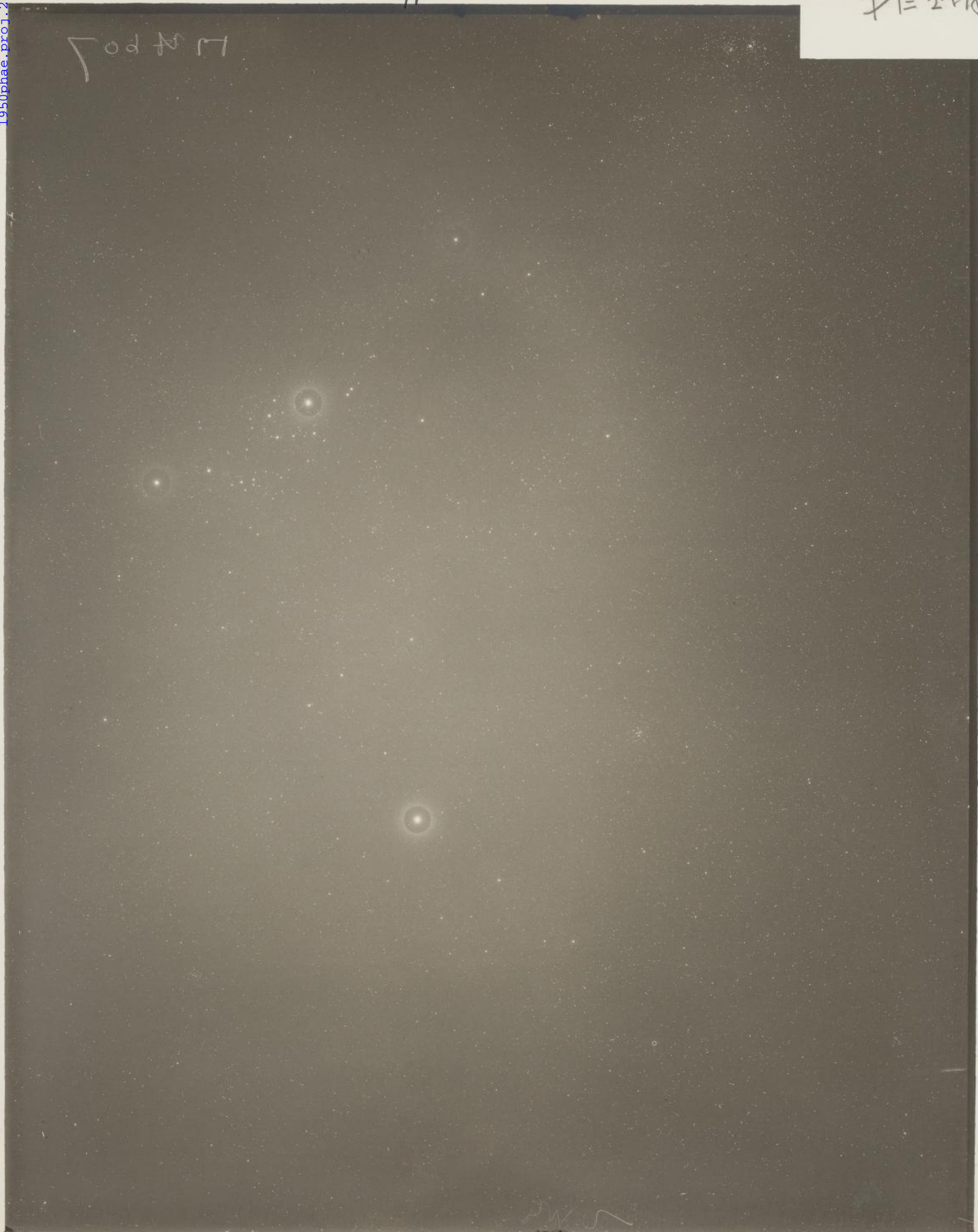
E M Hughes

Dec 21, 1933.

N

DE 2773

U N 107



34

3ⁿ, +45°

3^h 41^m - 41^s

Corrected mags from star counts

no counted	per sq. deg 10/1.19	log ₁₀	van Rhijn	Seares	MEANS	
12	10	^{2.80} 1.000	10. ^m 9	^{11.25} 10.5	11.1	1
13	11	^{3.21} 1.041	11.0	11.4		
32	27	^{7.81} 1.431	12.0	12.4	12.1	2
26	22	^{6.22} 1.342	11.8	12.1		
58	49	^{9.70} 1.763	12.9	12.95	12.9	3
59	50	^{9.79} 1.699	12.9	12.95		
113	95	^{2.258} 1.978	13.6	13.7	13.7	4
118	99	^{2.276} 1.996	13.6	13.75		
201	169	^{2.508} 2.228	14.1	14.4	14.2	5
211	177	^{2.528} 2.248	14.2	14.4		
304	255	^{2.687} 2.483	14.7	14.75	14.7	6
307	258	^{2.692} 2.487	14.7	14.8		
444	373	^{2.852} 2.647	15.0	15.25	15.1	7
477	401	^{2.883} 2.603	15.1	15.3		
754	633	^{3.081} 2.801	15.7	15.9	15.8	8
740	621	^{3.083} 2.793	15.7	15.9		
1475	1238	^{3.373} 3.093	16.5	16.65	16.6	9
1457	1223	^{3.367} 3.087	16.5	16.65		
2523	2120	^{3.606} 3.326	17.2	17.4	17.2	10
2248	1890	^{3.556} 3.276	17.05	17.3		

ML 26999 2h 15m

⑦ B P

TO LIMIT
⑩

UPPER	
153 173 153 158	
139 165 142 150	2523 ✓
163 152 146 155	log = 3.401
180 181 163 150	

LOWER	
141 158 135 136	
149 129 149 141	2248 ✓
123 143 159 129	log = 3.352
144 142 141 129	

TO LIMIT
⑨

UPPER	
89 84 97 94	
85 110 85 97	1475 ✓
99 76 84 95	log = 3.168
81 115 87 97	

LOWER	
81 110 99 84	
101 86 95 97	1457 ✓
89 92 83 84	log = 3.163
91 91 91 83	

TO LIMIT
⑧

UPPER	
42 46 45 44	
41 32 35 59	754 ✓
50 46 46 51	log = 2.877
43 56 44 54	

LOWER	
47 63 57 39	
44 42 54 34	740 ✓
39 42 49 34	log = 2.869
40 48 64 46	

TO LIMIT
⑦

UPPER	
27 32 31 25	
21 32 25 38	444 ✓
20 34 23 33	log = 2.647
23 27 26 27	

LOWER	
28 39 32 23	
29 22 36 22	477 ✓
22 29 29 28	log = 2.678
28 33 37 38	

ML 26999

→ 73R →

TO LIMIT

UPPER

22	22	21	15
17	25	16	20
13	22	21	18
16	20	20	16

304✓
log = 2.483

LOWER

20	28	21	17
19	18	24	20
14	14	16	16
20	17	21	22

307✓
log = 2.487

TO LIMIT

UPPER

15	14	12	9
15	18	9	4
10	11	10	10
14	10	11	9

201✓
log = 2.303

LOWER

12	19	15	14
11	12	15	12
12	12	9	12
10	15	15	16

211✓
log = 2.324

TO LIMIT

UPPER

8	6	9	4
10	11	6	8
5	8	7	6
6	6	8	5

2053✓
2072✓

LOWER

9	10	10	9
6	7	9	7
6	8	5	5
6	8	6	7

TO LIMIT

UPPER

4	3	4	1
3	2	4	3
3	6	5	3
3	4	6	4

1763✓
1771✓

LOWER

3	6	6	4
2	4	7	5
2	4	3	1
1	4	3	4

TO LIMIT

UPPER

3	1	3	0
1	1	1	2
0	4	3	3
2	2	4	2

32✓
26✓

LOWER

3	2	3	2
1	1	2	2
1	1	1	0
1	2	1	3

TO LIMIT

UPPER

2	0	1	0
1	0	1	1
0	1	1	1
0	1	1	1

13✓

LOWER

3	1	2	1
0	0	1	0
1	0	1	0
1	0	1	1

$$\log 26 = 1.415$$

$$\log 32 = 1.505$$

$$\log = 1.079$$

$$1.114$$

C26499

 $\alpha = 3^h 45^m 5 = +41^\circ$ $\lambda = 119^\circ$ $\beta = -19^\circ$

Star	log nos.		Van Rhijn stars				mean	
	upper	lower						
1	1.079 1.359	1.114 1.394	11.1	11.2	11.5	11.5	11.3	1
2	1.415 1.695	1.505 1.785	11.9	12.2	12.2	12.5	12.2	2
3	1.763 2.043	1.771 2.051	13.1	13.1	13.1	13.1	13.1	3
4	2.053 2.053 2.333	2.072 2.352	13.7	13.6	13.9 ⁸	13.9	13.8 ⁷	4
5	2.303 2.583	2.324 2.604	14.3-	14.3+	14.5	14.6	14.4 ³	5
6	2.483 2.763	2.487 2.767	14.8-	14.8+	15.0	15.0	14.9	6
7	2.647 2.927	2.678 2.958	15.4	15.5	15.4	15.5	15.4 ¹	7
8	2.877 3.157	2.869 3.149	16.0	16.0-	16.1	16.1	16.1	8
9	3.168 3.448	3.163 3.443	16.7	16.7	16.9	16.9	16.8 - 9	9
10	3.401 3.681	3.352 3.632	17.2 ³	17.2 ¹	17.6	17.5	17.3	10

CENTER: $4^h 50^m + 7.5$ $160^\circ, -20^\circ$
 CORNERS: $4^h 32^m 4^h 58^m, +5^\circ$ to $+10^\circ$

MC

27000	Jan. 17, 1934	7455.663
27014	19	57.630
Cont'd 27015	19	.654
27116	Feb 7	9504.550
27132	15	12.571
27176	Apr 4	32.549

4^h 50^m
 +7.5
 336

4^h 50^m
+7.3^s

Known variables

R Ori	4 ^h 51 ^m 09 ^s	+7° 54'.3	8. ^m 7 - 12. ^m 3	376. ^d 3	See Long period
DG "	5-5 20	6 59.6	<u>12</u> - < <u>13</u>		unknown
ES '	45 52	5 21.5	<u>9.5</u> - <u>19.0</u>		W U man
Ros 151	46.5	+7 36.0	<u>13.5</u> - < <u>15</u>		Ros. Mergenthaler
152	54.5	5 16	<u>12</u> - <u>11.5</u>		B. Jan. 1932
					Ros

Transmission: +2.^m5, +5'

198

intensity Plot 2H No. Bright

Faint

7015 27000

no variables

27116

no new variables

27132

" " "

27176

" " "

Ra

Pass 152 kT DGFT

" " "

" " "

IR FT

" "

" "

" "

" "

MWF 246

CENTER: $9^{\circ}45'$, $+49.0$ $135^{\circ}, +50^{\circ}$ $9^{\circ}22' - 10^{\circ}06'$, $+46.5 - +51.5$

mic ~~other~~ contact

25272	Dec. 24, 1930		6335.856
25304	Jan. 15, 1931		57.782
25315	21		63.773
25417	March 23		6424.689
25444	April 14		46.567
25453	16		48.573
25792	Dec. 7		6683.895
25812	17		93.855
25837	Jan. 10, 1932		6717.809
25857	30		37.730
25913	March 3		70.670
25986	April 3		6801.544
26344	Feb. 18, 1933		7122.663
26347	18		.768
26352	21		25.632 pre slightly
55	21		.782
26361	23		27.646 preal
26415	March 29		61.584 " "
26421	30		62.576 " "
26449	April 22	34	85.559 " "
51	22	37	.633 1° South
26457	23	3+	87.556 preal
59	23	4	86.629 " "
26469	25	32	88.608
27001	Jan. 17, 1934	3i	7455.706 preal max
05	17	4	.807 " " "

MWF
246

SY Umu $9^h 56^m 14^s$, $+50^\circ 30' 1$ 5.1-6.3. 117? A 2 low??

26459	26344	no new variables
26415	" "	" "
27005		nothing -

rotten contact

