

KG

11366

212

MF

Plates

Ida E. Woode

Book 36

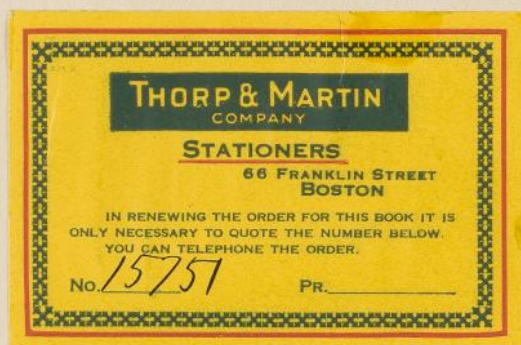
Examination of Milky Way
Regions

8	16 31-34
50	16 5-39
100	16 4-50
130	15 26-55

150	18 53-
160	17 0-59
166	17 52-86

KG 11366.212

See p. 179



Harvard College Observatory

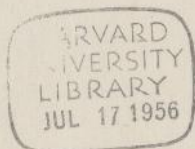
Ida E. Woods

Book No. 36

Examination of Miscellaneous
Milky Way Regions
See Index

Continued from Book 34

KG 11366.212



Milky Way Region $16^{\text{h}} 31^{\text{m}} - 33.9^{\circ}$

Available Plates

Comp Pl	MF	Date	Exp. in
14	8526	May 3, 1924	61
27	8661	June 26, 1924	60
14	8771	August 26, 1924	62
	9573	July 22, 1925	45

				Exp
a 7781	16	22	-35°	10 ^m
—	16	00	-35	10
2675	15	53	-32	
10038	"		-32	60

Limits MF region 16 31 - 339
 16^h 8^m to 16 56, -29° to -39°

Known Variables - Card Drawer.

nothing free.

- Scorp. 16	23.1 - 29	48	Learitt	13.8	14.7
ST Scorp.	30.2 - 31	2	?	7.8	9.7
XY "	30.7 - 29	32	Learitt	12.8	[15.0]
AW "	31.5 - 29	7	Learitt	13.2	- 14.2
SU "	34.2 - 32	11	Imes	8.0	- 9.4
BB "	39.7 - 29	32	Learitt	13.6	- 14.9
BC "	40.4 - 29	58	Learitt	13.8	- [14.8]
BE "	41.1 - 30	16	Learitt	12.5	- 13.5
- "	41.2 - 29	25	"	13.9	- 14.5
AL "	41.7 - 32	46	"	10.3	[11.5]
	- 32° 42 44				
BF "	42.2 - 29	57	"		
- "	43.6 - 29	24	"	11.3	11.8
AK "	48.0 - 36	43	"	8.7	10.0
	- 36 11 05 6			8	
x ² - Uphiuchi	48.4 - 29	0	Machie	12.0	13.0
Novalph.	48.4 - 29	28	Woods Muller		
No. 5					
SS Scorp.	48.8 - 32	28	Cordoba		
	- 32 12 14 6				
SZ "	49.6 - 39	29	Fleming		
	- 39 10 8 9 8				
RR "	50.2				

to be completed

Saturday, March 27, 1926.

Region 16 31 - 34

Comp. MF 8526

9573

8526 superposed

→ Continued, Bk -42, p -8.

Asteroid on MF 8526

16 37 - 32.5 (1900)

Comp. page 17

MF 8526

8661

8526 superposed

Possibly a 1st. asteroid on ⁸⁷⁷¹~~8526~~

16 36 - 34.3 (1900)

No. 1 Region 16 31 - 34
March 27
MF Pl.

New Var.
16 30.5 - 30.0 1900



Br. MF 8526

NS 9573
8771
8661

16

March 27 No. 2 Region 16 31-34
M \pm Pl.

New Var.
16 26.0 - 32.1 (1900)



Defect?
Br. 9573

NS 8526
8771
8661

No. 3

16 31-34

March 27

~~16 32 - 29.3 (1900)~~

Reject

Defect. No. taken out.

M.F. Pl.

No. 3

16 32 - 29.3 (900)

Are there

2 Vars?

Br. 8661

Fl. 8526

Defective?

~~8771~~~~8771~~

9573

18

No. 4
March 27

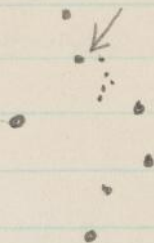
16 31-34

MFPL

New Var.

16 36 - 30.4 (1900)

M



Br 8661

Fr 8526

8771

9573

No. 5 16 31-34
 March 30

MF Pl.

New Var.

16 48.3 -31.3 (1900)

Bz 8661

Ft 8526

8771

9573

20

March 30

6

16 31-34

••••←

MF Pl

New Var.

16 34.2 - 31.7 (1900)

Th. at Max

Br. 8661

8771

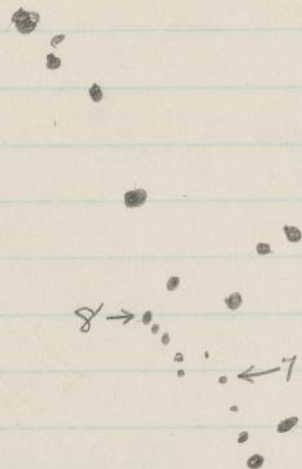
9573

Th 8526

No. 7 16 31-34
March 30

New Var.
16 31.8 -34.4

MFR



7

B_r 8661

Fl. NS 8526
8771
9573

22

No. 8
March 30

Region 16 31-34

New Var.

16 32.2 - 34.3 (1900)

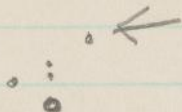
MFOL

See page 21

8 Br. 8526
9573H 8661
8771

Nov 9 16 31 - 34
March 30
MFP.

New Van.
16 40 - 36.4 (1900)



Bz. 8661

NS 8526
8771
9573

24

No. 10

Region 16 31-34

Small range New Var.
16 30-34.5 (1900)

March 30

MFPL

Br. 8661
8771Very ft. 8526
9573

No. 11 Region 16 31-34

~~X~~ New Var -
 Very large range - bright!
 25.5 - 34.4 (1900)

March 30

MFL

See page 26

Br. 8661

Ft. 8526

Nearly NS 9573

Medium 8771

26

No. 12 Region 16 31-34

March 30

New Van
Small range

16 24 34.7 (1900)

MFL

11 → . . .



B. 8526.

9573

Ft. 8661

~~9573~~

Medium 8771

Comp. 8526
8771

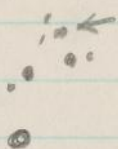
28

Mar. 30 No. 13 Region 16 31-34

New Van

16 18 -29.3

MFPl



Br. 8771

NS. 8526

9573

8661

No. 14

March 31

MFRl

New Var.

16 21 -31.3

 Br. 8526
 9573

 H.S. Very Ft. 8771
 8661 Ft. - seen.

30

No. 15 Region 16 31-34

March 31

MF pl.

See p. 29

New Van.

16 20.2 - 31.3

Br. 8771

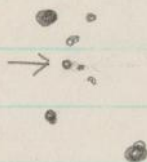
NS 8526

9573

8661

No. 16
March 31

mF pl



Large range

New Var.

16 48.2 - 33.2

Br. 8771

NS 8526

9573

Yngft 8661

32

No. 17 Region 16 31-34

March 31

MFel

← 16

•

•

•

•

• ← 17

•

•

Bz. 8771

NS 8526

9573

8661

○ Asteroid, long, not very black, on 8771
Probably defect - center.

34

No. 18 Region 16 31 - 34

March 31

MFPL

16 41 - 32.9

Br. 8771

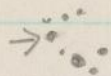
NS 8526

9573

8661

Probably not AL Scorp., see p. 12
 16 41.7 - 32 46 = -32° 42' 44"

No. 19 near 738
March 31
MFR



New Var.
16 34.5 - 34.3

Br. 8526

NS. 8771
9573
8661

No. 20 Region 16 31-34

Gord range New Va.
16 15-35.7 (1900)

March 31

1926 MF Plates

↓

Br. 8526

NS. 8771

9573

very fr 8661

No. 21
March 31

MFP.

16 39.5-29.3

B. 8526
8661

NS 8771
9573

* See if this is BB Scorp. 16 39.7-29 32

Region 16 31-34

No. 22 16 6 -25.3

Sept. 14, 1926
on a plate

→ • •

Mpd on A 8018

and B 16355

A faint star

Br. A 8018

NS 2756

No. 23
Sept 14

← 16 9.5 - 24.8

Mkd in A 8018²³
and A 2756 and B 16355

upreme Ridge
Br 2756

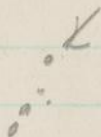
NS 8018

40

Region 16 34 - 34

no. 24

Sept 14



© Cl = NGC 6121

Br. A 2756

M 8018

Probably known Cluster Var.

See HA 38

No. 25
Sept 14

15 58 -26.5

⊙.K ⊙-x

Mhd 8018 and
2756 and B16355

rather ft star
Br. is fainter than x
Ft = N. S on better plate

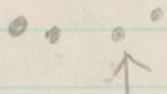
Br 8018
* Apparently this star
brighter in B16355

Ft 2756

Region 16 31-34
m. 26 15 57-266

mbd 8018 and
@16355

Sept 14



B 8018

Ft 2756

No. 27
Sept 14

15 55-27.0
Series of star images
Peculiar — on A 8018

mbd A 8018
aid B 16355

Probably asteroid trail
Dr. Fisher says perhaps separate images caused
by clouds.

- N.B. 1) perhaps varying in tone of color
2) same plant as large images, distorted)
of stars near.
3) separate images instead of continuous,
moving object image.

44

Regim 16 31-34
No 28 15 57-27.5

Sept 14

◦ K ◦
◦ ◦Mhd 8018
and B16355

Br 8018

H 2756

M. 29 16 7 -27.7
 Sept 14 .. \swarrow
 x : .

Mhd 8018 & 2756
 and B16355

B₁₆ - brighter than x

B₂ 2756

Fl 8018

46

Region 16 31-34

msd 8018 and
B16355

ms. 30 16 19.5-27.7

Sept 14

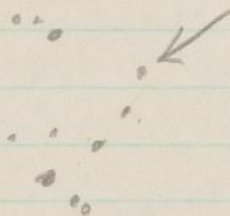
o → i.

Br 8018

NS 2756

No. 31
Sept 14

16 9 - 28.7



B 2756

Mhd 8018 & 2756
and B16355

quite a ft. star

Ft 8018

48

Region 16 31-34

M 32 15 59-29.2

Sept 14

Mbd 8018 and
B16355Perhaps not much
range but seems real.
Br. on poorer plate

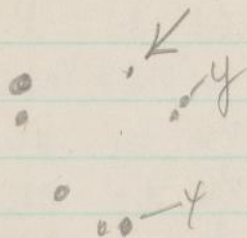
Br. 8018

Ft 2756

for no. 34, etc.,
see Bk. 43, p. 10

No. 33
Sept 14

16 1 - 29.6
~~16 59.5 - 29.2~~



Mhd 8018 and 2756
and B16355

$B_n = \text{nearly} = y$
 $\Phi = \text{fainter than } y, \text{ slightly}$

Bv. 2756

Φ 8018

Medium?
B16355

M.W. Region $16^{\text{h}} 05^{\text{m}} - 39^{\circ} 3'$

page Available Plates
 Comp. Pl. MF 8517 May 2, 1924 60^{m} new trans. marked.
 54 8655 June 25, 1924 60
 54 8768 August 25, 1924 60
 54 8783 Aug. 28, " 61
 67 9458 June 24 1925 45

Long exposure B Plates 60^{m}
 B 3941 16 0 - 45
 5244 May 21, 1890 16 21 - 45 60
 5391 June 9, 1890 15 40 - 45 60
~~22551 April 8, 1899 10~~
 24919 March 31, 1900 15 30 - 37 60
 25494 May 29, 1900 15 30 - 38 60
 25956 Sept. 4, 1900 15
 27656 June 12, 1901 16 12 - 42 60
 31891 June 1, 1903 15 47 - 42 60
 34047 June 10, 1904 15 47 - 42 60
 34622 August 8, 1904 15 48 - 42 61

a Plates

					Ref
a 2306	15	51	-38		15 ^m
2724	16	10	-38		62
5621	16	10	-38		60
11244	15	47	-36	30	8X10
7438	15	49	-43	51	
10090	15	54	-42	60	
8780	16	0	-43	120	8X10
8786	16	0	-43	120	8X10
8828	15	41	-40	11	
9321	15	41	-40	10	
9334	15	40	-40	11	
8934	15	41	-40	11	
2275	16	10	-37.7	10	
2671	15	50	-42.4	62	

Friday, April 2, 1926.

Exam. 8517
8768

8517 superposed

8768 long, thick, images

Ft. asteroid, long, or Defect on 8768

Exam. page 67,
8517

9458

8517 superposed

April 5 & 6

Exam. page 71

8655

8783

8783 superposed

These plates have trailed images and are dark but they show very ft. stars.

April 6

Exam. page 76

8783

9458

8783 superposed

April 6

Exam. page

B 31891

15 48 - 42

NB Pris.

34622

Comps. on opposite

31891 superposed

April 6 Exam. B 31891 page 78
 84047
 31891 superposed

April 9 Exam. A 2671 page 80
 10090
 10090 superposed

April 10 Exam. A 2671 15 50 -42 page 81
 7438 Limits 15 28 to 16 8
 2671 superposed -40 to -45

April 10 Exam. A 2724 16 10 37.5 15 52 to 16 28
 5621 -34.5 to -40
 5621 superposed

April 10 Exam A 12001 (8x10) 15 40 -37.4
 12023
 12001 superposed

Limits $15^{\text{h}} 58^{\text{m}} 40^{\text{s}}$ to $16^{\text{h}} 28^{\text{m}}$
 -34.5° to -45.5°

Known Variables

p. 80 RR Lupi $15^{\text{h}} 58.6 - 34^{\circ} 6'$ Leairth $10.0 - [11.5]$
 RU Normal $16^{\text{h}} 8.3 - 44^{\circ} 32'$ Cannon
 $-44^{\circ} 10' 23''$ $9.9 - [13]$

SV Lup $15^{\text{h}} 41.0 - 38^{\circ} 30'$
 R Lupi $47.0 - 36^{\circ} 0'$ Roberts
 RU Lupi $50.1 - 37^{\circ} 32'$ Cannon
 $-37^{\circ} 10' 60.2''$

page 77 RY Lup $15^{\text{h}} 52.7 - 40^{\circ} 5'$ Woods $10.6 - 12.1$
 - Normal $53.2 - 44^{\circ} 50'$ Leairth $8.6 - 9.3$

M.W. Region 16 05-39

Var. No. 1

new

16 15.8-35.8 (1900)

April 2 MF Plates


Br. = much brighter than
Fl. = about = y

Br.

Fl

a faint star at Max

MF 8517

MF 8768

9458

8655

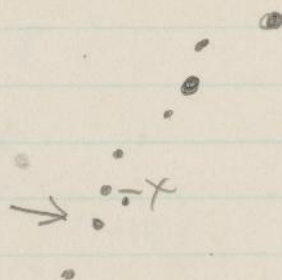
8783

Circled

61

16 05-39
no. 2

new

Large range
15 48-35.1 (1900) $B_r = \text{brighter than } x$ $Ft = N.S.$ B_r 8517

8655

A 2306

meas 11244

A 11244

NS 8768

9458

8783

B 24919

Confirmed by
Miss Cannon,
April 14, 1926

62 Brock

Region 16^{h m} 5 - 39°

New

15 55 - 39.0 (1900)

April 2 No. 3

Confirmed by Br. 8517
 Miss Cannon, 8655
 May 4, A 2306
 1926.

Identification
 on A 2306 checked.

NS 8768
 Ft. 9458
 8783
 Seen ft A 2724
 A 5621

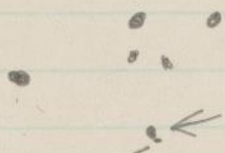
Pined

63

No. 4

Nur

16 9 - 38.5 (1900)



ft star (close)

Br. ~~8768~~
~~8517~~
 9458
 8783

NS 8517
 8655

B 25956
 B 34622

Confirmed
 by Miss Cannon A 2724
 May 5,
 1926.

Trace? B 34047

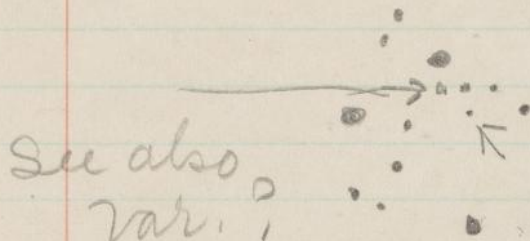
Combined with a very ft. star

64 Proved

April 2

Regin 16 5-39
No. 5

New 15 51 - 40.9



Ft 8517

Bz. 8517
B 25956
B 34622

Ft. 8768

9458

8655

B 34047

Seen, very Ft. B 31891
MF 8783

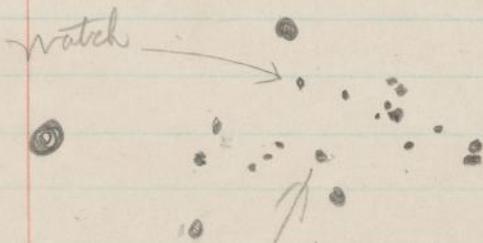
No A plate
to meas. A 7438?

Confirmed by
Miss Cannon,
May 8, 1926

Seen very ft A 2671
* Probably N S A 7438
(7438 shows ft.
Stars.)
N.S. a 10090

Probably
N.S. The
Star
first
marked
is a true
Star.

Detail from A 7438



5 is very ft. on A 7438

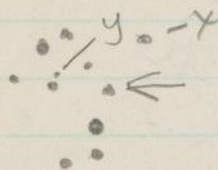
Pinned

65

No. 6.

New

15 48.5 - 41.6 1900



Br. = x

Ft. = a little fainter
than y

Br. 8517

B 31891

B 24919

Ft. 8768

9458

8655

NS 25956

B 34622

Seen Ft. (Medium?) B 34047

MF 8783

Seen Ft. B 5391

A 10090 NS

A 2671 NS

A 9321

* A 7438 very ft.

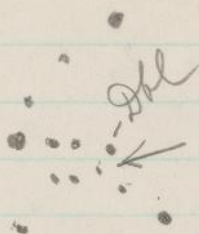
Confirmed by
Miss Cannon,
May 10, 1906

66

Pinned

April 2 Rejoin 16 5-39
No. 7

new 15 45 - 40.4 (1900)



B21.8768

B34622

B31891

MF8783

NS 8517

NS on very ft 9458
8655

B25956

B34047

NSA 2671 *

Ft trace seen A 10090

near 10090?

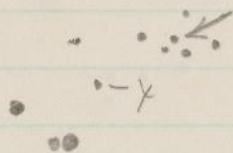
Confirmed by
Mike Cannon,
April 17, 1956

Pisces

April 2 No. 8

New

16 7-35.4 (1900)



Br. = about = x

Ft = no trace when ft
stars are seen
MF 9458

Br. 8517

Ft 9458

Medium - Ft but seen MF 8655

meas-A 5621

8768

8783

Confirmed by
Miss Cannon,
May 11, 1926.

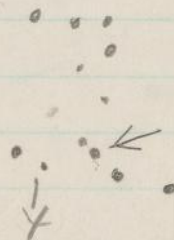
68

Purd
set a pl.

Region 16 5-39

April 2 No. 9

new

Large range

15 55-38.5 (1900)

Br. = slightly brighter
than XBr. 8517
8655

NS 9458

8768

Medium B25956

B 34047

Confirmed by
Miss Cannon
April 8, 1926

B 34622

B 31891

~~A 2306~~

8783

A 2724

A 2306

A 5621

A 2275

near 2724

A 8825

8934

9321

9334 seen very ft

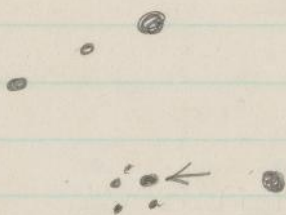
Crossed

69

April No. 10
2

near

15 54-40.4 1900

B 9458
8655meas. A 2671
if none brighterConfirmed by
Miss Cannon,
May 13, 1926.NS 8517
8768 seen, very ft.

B 25956

B 34622

seen ft. B 34047

" " B 31891

M 78783

* NS A 7438

A 10090

seen ft A 2671

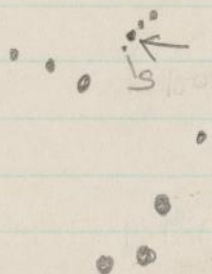
70

Aurora

Region 16 5 - 39
No. 11

April 2

Mer 15 49 - 40.8 (1900)

Watch 5 100
also

Br 9458

B34622

Probably br. B34047

(Images run together)

A 7438

Meas. A 7438
2671

n s 8517

8655

8768 seen, Ft.

B25956

Seen ft. B31891

" " M+8783

Perhaps barely seen A10090

this or star S (see above) ?

Seen ft. A 2671

Confirmed by
Miss Cannon,
May 5, 1926.

Monday, April 5, 1926.

71

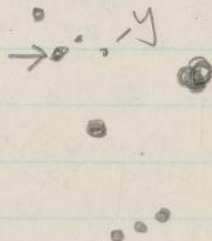
Region 16 5-39
No. 12

new

Large range
16 25.2-34.5

April 5

extreme corner but apparently not beyond film



Ft. = fainter than y

Bz. 8655

Ft. 8783
8517

Off edge
m79458

Seen, ft. 8768
Seen ft B22551

72

Tuesday, April 6, 1926.

Region 16 5-39

No. 13 extreme prec. N corner

Apr. 6

an MF pl.

New

15 44-34.5



Br. = brighter than
 Ft. = N.S.?
 when y is seen

Br.

MF 8655 ✓

9458 ✓

rather
~~very~~ fr at Max
 but good range.

NS or Very Ft.

8783 ✓

8517 ✓

9458 ✓

8768 ✓

meas. A 11244

Seen A 11244

but not Max.

Confirmed by
 Miss Cannon
 April 17, 1926.

no. cancelled for this star.

No. 14

• • • ←

Same Var. as No. 3, page 62

No. 14	16	1.5-38.9	New	Br. = Brighter than 3
Apr. 6 on	see	page 74		small range, perhaps
MT pl.	Br. 8655			1.5
	Probably seen	B 25956		ft 8783
	B 34822			8517
	B 34047			A 2306
	perhaps seen	B 31891		A 2724 ft., seen.
	MT 9458			A 5621 ft.
	* 8768			

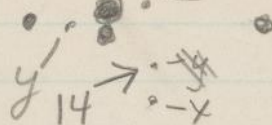
Confirmed by
Miss Cannon
May 18, 1926.

74

Orion

Region 16 5-39 γ New 16 1.6-38.8
 No. 15 center γ 15 good range

April 6 on
 MF pl.



Br. = brighter than γ
 Ft. = fainter than γ

Br. 8783

Ft. 8655

* 8517

2 stars close, probably Southern of these.

B 34047

B 25956

B 31891

B 34622

MF 9458

Seen Ft. B 27656

* 8768

A 2306

A 2724 not max.

Confirmed by
 Miss Cannon,
 May 18, 1926

No. 16 X New

16 2-41.5

X
April 6 on
MF Plates

Br. = x
Ft = y

Br. 8655

Ft * 8517

Medium 8783

B25956

Formed when not full range 8655 - 8783
9458

B34622

Significant Period?
Order?

B34047

B31891

8655 Br.

8768

8768 Ft

Seen ft. A10090

8783 Medium

" " A2671

9458

Ft A7438

meas A10090?

Confirmed by
Miss Cannon,
May 19, 1926

76

Cancel

Region 16 5-39

No. 17

Defective image on 9458
or Variable?

Probably defective. Cancel No.

April 6 No. 17

On B plates

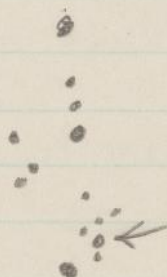
not on MF region

marked on

B 31891

New

15 30 - 39.4



Br. B 31891

34047

NS B 34622

25956

apl?

✓
No. 18Very large range
15 53-40.2Found on Bpl.
Marked on MF

Br B31891

H.B. 34622

MF 8517

9458

8768

8783

* 8655

This is probably RY Lupi — Words — page 56

78

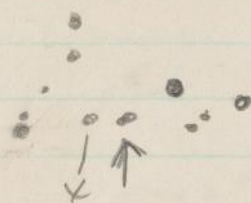
Prood

Region 16 5-39 New

No. 19

No. on B31891

found on Bpl.

just off edge of
MF region

Br. B31891

34622 not quite Max

Good range

15 39 - 40.3

Br. = slightly
brighter than x

Fh. = probably N. S.

Fh. B34047

25956

A10090

A2671

Good Is this a Nova 1904?

79

April 6 No. 20

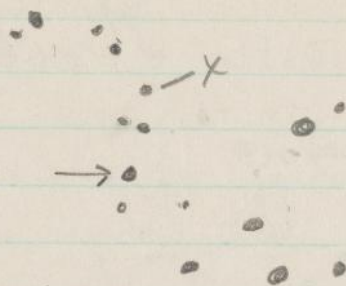
found on B plates

marked on

B 31891 (N S)

and MF 8517 (N S)

Var marked on B 34047



Large range

15 42-40.0

Br. = a little
brighter than X

Ft = N S.

Br. 34047 June 1904

34622 Aug 1904

Medium B 25956

Cyan plates Aug
1904. Too faint to
show on Am.

Ft. 31891 N S

MF 8517

MF 8783

MF 8458

8768

A 10090

A 2671

A 9321

Very ft @ 8825

N S @ 9334

80

✓

April 9 Regim 16 5-39
 Var. No. 21

16

Extreme S. fol. corner

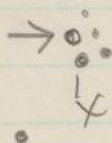
8-44.6

just off Sedge MF

Marked on

A 10090

B 31891 (NS)



Br. = brighter than
 Ph = N.S. X

found on a plate Br^a 10090

NS^a 2671

B 31891

34622

at limit of mag°

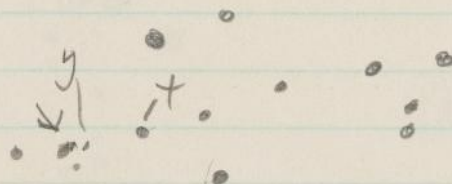
This is R U Normal - Cannon

Verified by Cat. idem.

April 10 No. 22 New

15 38.5 - 43.0

found on A pl.
Marked on A 2671
and B 31891



Br. = nearly =
x

Ft. = barely seen
when y is at
least .5

meas A 2671

Br. A 2671

NS 7438
B 31891

April 10
on a plate

marked MF8517

No. 23 New

• • -4

• • K

• • -y

15 49-435

a slight change?

Br. = quite a lot brighter

Th. = fainter than y

Br. A 2671

Th. A 7438

medium? MF8517

* B 31891

April 10
on A plates

Marked on A 7438

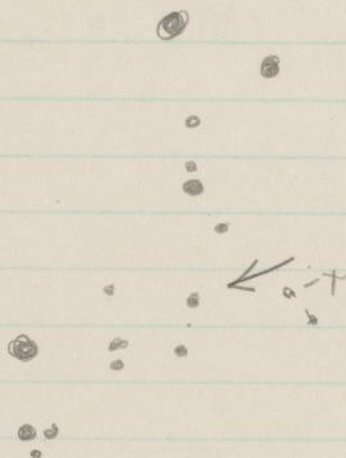
No. 24

Star

15 39-45.0

$P_{\text{H}} = 4$

$H = 7.5$



Br. A 7438

NS 2671

✓

m.25

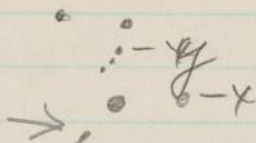
. . ↓ .

. .

5621
Br ~~2671~~2724
NS ~~7138~~

Same as Var. No. 8, page 67

April 10
Found on Apl No. 26
marked on
A 5621 &
MF 8517



16 0.6 -36.2
Br. = nearly = x
Th. = fainter than y

Br. A 5621
MF 8517

Th 2724

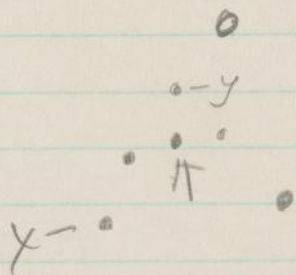
April 10 No. 27 New?

15 59 - 39.4

Found on 2 plates

Marked on A 5621

and MF 8517



small change

Br. = not quite as
bright as x

Ft. = nearly as
faint as y

Br. A 2724

Ft. A 5621

* MF 8517

No. 28
 April 10, on a plate
 Marked on
 A 12001 (8x10).

Cluster

15 37-38.0

detail on A plate

Br. A 12001

11997 not
 max.

* * * 12023

NS B 31891

* 12021

Very ft 12020

? 15 37.2-37 53 RZ Lupi

100

Saturday, April 10, 1926.Region $16^h 04^m - 49.9^{\circ}$

Available MF Plates

Comp. Pl	MF 8503
page 106	8645
110	8671
-	(8726) N.Y. not received
110	8777
115	9423

Th. Asteroid or Defect on MF8777

Another Defect, rather bright, on MF8777

Defect? on MF8503

Limits 15 32 to 16 30 -45 to -54
 Known Variables in region.

15	32.0	-52	0	Nova Normal	2	Woods
	34.6	-54	59	U Normal		Lines
	39.4	-47	45	RX Lupi		Common 10.0 - <14
			-47	10298		
	53.2	-44	50	- Normal		Leantl
	57.4	-53	38	RS Normal		Leantl
			-53	7039		
	57.8	-46	1	Z Normal		Leantl
			-45	10414		
16	2.6	-48	58	V Normal		Flewing
			-48	10576		

thru 16 6

104

Region 16 4-50

April 10
and Apr. 12

MT 8503

Page 106

8645

8503 superposed

8645 elongated images

Very thin
region in Southern, following portion of Plate

April 12

MT 8671

Page 110

8777

8777 superposed

April 12

MT 8503

Page 115

9423

8503 superposed

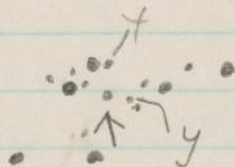
April 13

8777

9423

106

Region 16 4-50
 April 10 No. 1
 MF Plates



16 22.5-48.7

Br = nearly = x
 Ft = slightly brighter
 than y

Br. MF 8503

Ft. 8645
 8777
 8671
 9423

April 10 No. 2

15 45 -47.2

.. : $\frac{2}{3}$

Br. 8503

77.8645

8777

8671

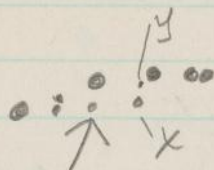
medium 9423

108

Regin 16 4 -56

April 10 No. 3.
MF PlatesDoes this change slightly?
See page 107

April 12 No. 4



16 24-52.6

$B_1 = \text{about } x$

$F_1 = \text{fainter than } y$

small range but real

B_1 8645

8777

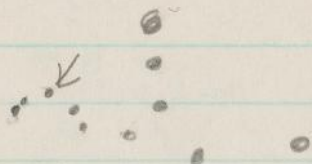
8671

F_1 8503

Median 9423

110

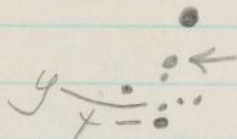
April 12

Region 16 4-50
No. 5very near No. 2
15 44.6-47.2Br. 8671
8645Very fl. 8777
n. 86 8503
barely rig.
9423

No. 6
Apr. 12
MF Plates

15 59.5-51.8

Large range



Br. = brighter than x
Th. = about = y

Br. 8777

Th. 8671

NS 8503

8645

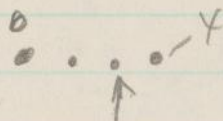
9423

112

Region 16 4-50
No. 7

April 12

MF Plates



15 59.8 - 52.4

Br. = 4

Th. = limit of plate

Br. 8777

Barely seen 8671

n 8 8503

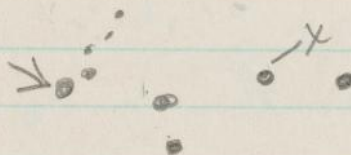
8645

9423

No 8

16 20 - 52.6

Large range

 $B_1 = X$ $F_1 =$

May be defective on 8671?

Br. 8777

8503

8645

9423

Fh 8671

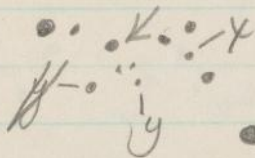
114

Region 16 4 - 50

No. 9

April 12

MF Plates



16 24.0 - 50.9

Br. = about = x

Th. = ^{about} ~~farther~~ than y

Br. 8777

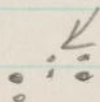
8503

8645

9423

Th. 8671

No. 10



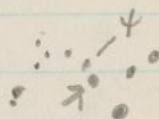
slight, if any, change
deflect close to star makes
it appear to change.

116

No. 11

April 12

MF Platis



Br. = slightly brighter than x

Br. MF 9423

NS 8503

Seen Ft. 8671
 Seen Ft. 8777
 Seen Ft. 8645

130

M.W. Region 15 26 - 54.7

Available Plates:

h. 136
 h. 138
 Comp. Pl.
 h. 141

MF 8495	April 26, 1924	92 ^m
8534	May 5, 1924	60
8654	June 25, 1924	60
9572	July 22, 1925	45

*

8534 and 8654, excellent images for
 (measuring, etc.),

132

Region 15 26 - 55°
Limits 14 48 to 16 00, -50° to -59°

134

Region 15 26 -54.7

April 13

MF 8495
8654

page 136

8495 superposed

No. if any will be placed on 8654; Comparison Pl.
8495 elongated images.Difficult to compare except when any star
actually disappears.

April 14

MF 8534
8654

page 138

8534 superposed

See nebulous star — marked on 8534

April 14

MF 8654
9572

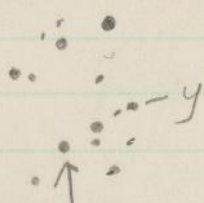
page 141

superposed

136

April 13

MF Pl.

Region 15 26 - 55
No. 1

Large range

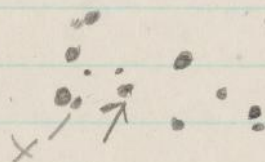
15 22 - 50.0

Br. = slightly
brighter than x
Fl. = about = yBr. MF 8654
8534Fl. 8495
9572

April 13 No. 2

MF RL

15 39.5-57.3

 $B_1 = X$ 

Ft. Barclay sem

Br. 8495
9572Ft 8654
8534

138

April 14

Region 15 26-55
No. 3

MF Platis



15 2.5-53.8

Br. = brighter
than X
Limit of 8534

Br. 8654

Barely seen 8534
9572
8495

April 14 No. 4

• • • ←

15 20 -50.8

Dbl. ? Is this a real change?

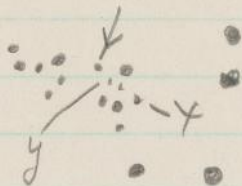
140

Region $15^{\text{h}} 26^{\text{m}} -55^{\circ}$
No. 5April 14
in MF plates

near 2

15 49.57.2
Watch; is there slight
variation?

No. 6 near north edge of plates 15 25.4-49.8
 April 14
 on MF pl.



Br = about = x

Ft = about = y, or a
 little brighter

Good range but a ft. star
 at maximum

Br 8654

Ft 9572

8534

8495

Milky Way Region 18 53 - 10

Available Plates:

Comp. Pl.	MF 8814	September 20, 1924	Exp. 60 ^m
$\lambda.156^4$	9817	" 17, 1925	45
$\lambda.154$	9839	" 19, 1925	45

Limits $18^h 31^m$ to $19^h 8^m$ -5.5° to -15.0°

Known Variables (from Card Cat.)

18	31.3	-14	27	VY Sct.	Cannon	13.5 - 17.5
	31.4	-12	49	VZ Sct	Cannon	12.2 - 13.6
	31.7	-7	41	RX Scuti	Fleming	
		-7	4633			
	32.6	-8	27	Y Sct.	Cannon	8.9 10.2
	32.7	-10	40	WW Sct	Cannon	14.0 [16.5
	33.0	-14	22	WX Sct	Cannon	13.5 [16.0
	33.4	-9	9	Sct	Reinmuth	14.6 [16
	33.7	-10	26	WY Sct	Cannon	15.0 15.6
	34.2	-6	48	XX Sct	Cannon	13.5 14.6
	34.2	-14	26	WZ Sct	Cannon	15.5 16.5
	35.8	-6	9	XY Sct	Cannon	13.8 14.3
	37.1	-6	30	XZ Sct	Cannon	15.2 16.2
	37.6	-5	55	Z Sct		
	37.7	-10	34	YY Sct	Cannon	13.8 [16.5
	38.3	-7	50	SS Sct	Cannon	7.5 - 8.4
		-7	4683			
	38.6	-8	4	Sct	Reinmuth	14.2 [16.0
	38.7	-13	20	RV Sct	Fleming	8.6 - 10.1
	38.7	-19	30	YY Sgr		
	39.0	-8	13	YZ Sct	Cannon	15.0 - 16.1
	39.1	-10	19	ZZ Sct	Cannon	14.5 - 15.7
	39.3	-9	20	AA Sct	Cannon	13.0 - 15.6
	39.5	-6	14	AB Sct	Cannon	13.0 - 17.0
	40.0 ⁵	-7	39	AD Sct	Cannon	12.5 - 13.2
	40.5	-10	21	AC Sct	Cannon	10.0 - 12.5
	41.8	-7	51	AE Sct	Cannon	14.8 [16.5
	42.7	-5	49	R Sct.		
		-5	4760			

18	42.5	-12	14	V Scuti	Dugan	
	42.8	-14	4	AF Scn	Canon	13.5-15.0
	43.7	-10	21	RS Scn.	Canon	
			-10	4814		
	43.7	-16	50	Y2 Sgr		
	44.0	-10	30	RT Scf		
	44.6	-14	16	AG Scf	Learitt	15.4 [16.2
	44.9	-8	11	S Scuti	Wells	
			-8	4726		
	45.0	-10	50	SY Scn	Learitt	14.0 15.0
	45.5	-6	51		Canon	13.9 [17.0
	45.5	-10	2	Alt Scn	Canon	14.0 [17.0
	45.6	-6	20	AI Scn	Barnard	
	45.8	-16	59		Barnard	
	45.9	-13	3	ST Scn	Learitt	10.0 -14.0
	46.2	-15	2		Shapley	15.5 [16.4

TO complete

Region 18 53-10

MT 8814

9839

~~9839~~
8814 superposed

9839 and 9817 are only 2 days apart.

This region has been apparently covered by
Miss Cannon and others — See Known Variables,
page 152.

Unless more plates come, will not examine further
now.

156

✓

Region $18^h 53^m - 10^\circ$

No. 1

April 14, 1926

on MF Plates

• • •

...K

 $18^h 36.8 - 10.4 (1855)$ $\text{Puc } 2.5 \quad +2$ $18^h 39.3 - 10.22 ? (1900)$

Br. 8814

9817

Short Period?

9817 Br Sept 17

9839 Fl " 19

Fl. 9839

✓

22500?

 $18^h 39.1 - 10.19$ Cannon HV 3821 $14.5 - 15.7$

✓

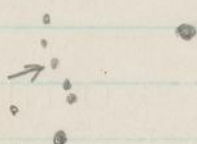
Canon

No. 2

$$\begin{array}{r} 18 \quad 46.5 - 9.6 \quad (1855) \\ \quad \quad 2.5 \quad \quad + 3' \\ \hline 18 \quad 490 \quad - 9 \quad 33 \quad ? (1900) \end{array}$$

April 15,
1926

On MF



B. 8814

Ft Very ft if seen
many ft. stars 9839
9817

Dec?) HV 3833 Canon 18 48.2 - 9 54.2 14.2 [16.5
AS Sette

✓
Probably = HV 3835 Canon 18 48.9 - 9 31.3 13.5 - [16.0
AW Set.

Region 18 53 - 10
No. 3 19

M. 3 19 1 -11.5 (1855) Large range
2.5 + 4'

April 15, 1926
On MF

$$\begin{array}{r} 19 \ 3.5 \ -11 \ 26 : \\ (1900) \end{array}$$

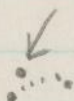
B. 9839
9817

NS 88 14

HV 3771 19 3.9 -11 22 (1900) 138-[16.4 Shapley
arr Aquil

No. 4

$$\begin{array}{r}
 18\ 40\ -12.3\ (1855) \\
 \underline{2.5\ +3'} \\
 18\ 42.5\ -12\ 15\ ?\ 1900
 \end{array}$$

Apr. 15
On MFBl. 9839
9817

Trace only 8814

V Senti 18 42.5 - 12 14 Dugan 11.5 - 14.5
Chart?

M.W. Region $17^h 0^m -39^\circ$

Available Plates: Exp.
 MF 8497 April 26, 1924, 90^m
 8656 June 25, 1924 60
 (8727) Neg. Not received.

Faint asteroid (?) or 8656 $17^h 11^m -34.3^\circ (1900)$

Limits 16 36 to 17 24, -34° to -43°

8497

8656

8497 Superposed

No objects except Asteroid (?), page 160

Milky Way Region $17^{\text{h}} 52^{\text{m}} -36.4$

Available Plates

MF 8537 May 5, 1924 61

8673 June 28, 1924 60

8724 July 25, 1924 60

8785

8842 Sept. 27, 1924 60

9816 Sept. 17, 1925 45

9838 Sept. 19, 1925 45

Excellent pl.

L. 180

L. 177

Page 172

Plate is supposed to
be here. where?

Use later

L. 172

L. 177

A great deal of "background" in this
region. This makes star images indistinct
and plates are black in parts of region.
Small differences would be difficult
to find, probably.

J. E. W.

Use other plates
for comp. pl. when
more plates come.
or use them for
intercomparison

Bright Asteroid (?) 18 11 -39.6 m MF 8724
July 25, 1924
Amherstia July 21 is 18 22 -39 51
motion decreasing, north

168

Limits $17^h 28^m$ to $18^h 12^m$ -32° to -41°

18 2.2 -40 13

18 2.5 -32 29

~~5.8 -29~~

18 11.0 -34 8

13.7 -32 15

complete 17^h

170

Region 17 52-36.4

MF 8724

9816

9816 superposed

MF 8673

9838

8673 superposed

MF 8673

8537

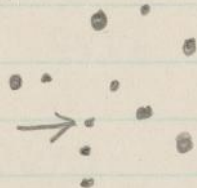
8537 superposed

172

Region 17 52 - 36

April 16, 1926
on M+Pl No. 1

near



18 5 - 33.2

B. 8724
10141

mag.

See Bk 1. p 70

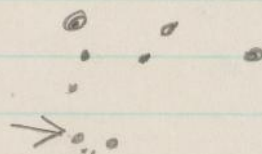
Very far N.S. 9816
(Small stars; is this seen?)

8673

9838 seen Pt.

for further verification of position

No. 2 extreme following edge 18 13 -37.5
 apr. 16 near
 MF



Br. 9816
 9838

NS 8724
 8673

M.A. G.
 See BK2 p. 4+5 for ident & pos.

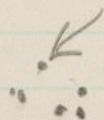
174

Regime 17 52-36
 No. 3 New

18 4 - 36.8

April 16

on MF

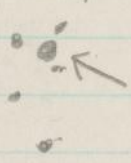


Br 9816
 9838

Th 8724
 8673

See M. A. G. BK1 p. 74

No. 4 New 18 2 - 37.4 Very large range
 April 16
 on MFR



Br. 9816
 9838

Very ft 8724
 8673

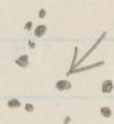
See m. a. 9 BK2 p. 6 + 7 for pos. & magns.

176

Region 17 52-36
No. 5 New?

April 16
on MFPl.

17 57 - 38.8



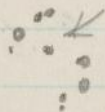
B. 9816
9838

N. S 8724
8673

See M. A. G. BK1 p. 72

no. 6 New

18 5 - 33.6

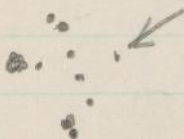
April 17
MF PLOrbit
Little, if any, variation

Var or defective image? on 8673
 Br. 8673
 9816

Fit. MF 9838

Short Period?

178

Regim 17 52-36
No. 7April 17
M F Pl

18 8.5 - 37.6

Br. 8673
* 9816 - Sept 17

Fl. * 9838 - Sept 19

Short Period

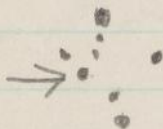
See M. A. G. BK 2 p. 8 for pos. & magns

Study for Peculiar light curve something 179
 Limes says no variation observed. See MF Plates
 and cat. = irregular Referred to Dr. Shapley.

No. 8

Large Range

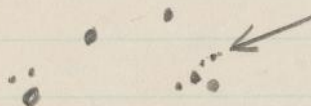
17 40 - 35.7

April 17
MF Pl.Br. 8673
8537Very Ft. 9838
9816SX Scorpii 17 40.8 - 35.40 Mrs. Fleming
-35° 11923

180

Region 17 52-36
 No. 9

April 17
 MF Plate



Br.
 8537

Barely seen 8673
 9816

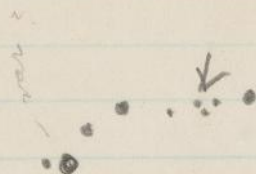
See BK2 p 10 m.a.g for pos + magns.

No. 10

April 17

on MF plates

(much spread out)


 Bl. 8673
 9816

Fl 8537

See BK 2 p 12 for pos. and magus. (M.A.G.)

182

17 52-36
No. 11

April 17
in MF plates

... \nwarrow

Bz. 8537

Fr or 15*8673
9816

See BK 2 p 14 for pos + magns. (on a g.)

M. 12

April 17

Marked on

MF 8537

(off edge 9816)

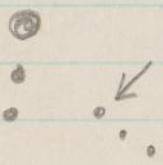
Br. 8537

H. 8673

See BK p. 16 for pos + magno (m. a. g.)

184

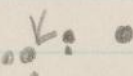

Regin 1752-36
No. 13


Does not vary
 Cancel
 no. for this star.

~~B. 8537~~ ————— ~~H. 8673~~

No. 13

April 17
on MF plates

B. 8537

H. 8673
9816

No. 14

Perhaps a slight change

April 17
on MF plates

• • ←

••

••

See BK 2 p 18 m.a.g.

186

See mag Bb 2, Meas. Position & Discussion

Region 17 52-36 Large range
No. 15

Nova if not known?

April 17
on MF plates

18 13 -40.3

Not in Cat.

B = much brighter than x
F = fainter than yoff plate
10141
10146

Br. * 8673 10365
9816 A 2659
8724 { 5709 1901
9838 { Oct 9

A 2598 102
Too poor

* 10240
10249
10271
10279
10284

* 8537 trace only
seen 8785

July 14-15 1926
* 10522 shows ft stars
* 10534 " " "
July 15-16
10572 trace only
10576 July 31-Aug 1
*** 10577 July 31-Aug 1
shows ft stars
10578 trace only

Vary ft A 2310
Probably NSA 1975
Thor NS 1982 1896
9061 1908
5209 1901
Sept 6, 5634, 1901

No. 16
 April 17
 MF Pl.



Br. 8537

Ft 8673

Medium 9816

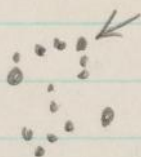
For pos and magus see BK 2 p. 22 m.a.g.

188

1926
April 17
M*

Region
No. 17

17 52-36

Large range

Br. 8673

Ft 9816
NS 8537

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JAN 10 1926

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