

KG
11366
214

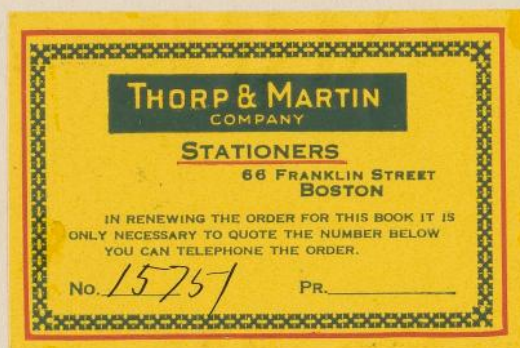
Ida E. Hoods
Book No. 38

Miscellaneous Milky Way
Regions

6^h 18 26-6.6
10 17 32-43
52 9 45-44.2
66 16 34-44
72 16 39-55

108 8 41-55
120 10 41-58
122 11 49-54
150 18 24-23

KG 11366.214



Harvard College Observatory

Ida E. Woods

Book No. 38.

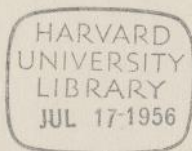
Examination of Miscellaneous
Milky Way Regions

See Index

Continued from Book 37.

Harvard-Smithsonian
Center for Astrophysics
Library

KG 11366.214



Milky Way Region $18^h 26^m -6.6$

Available Plates

| | | Exp. |
|---------|--------------------|-----------------|
| MF 8824 | September 24, 1924 | 60 ^m |
| 9607 | July 27 1925 | 45 |

Region 18 26 -6.6
May 12 Eran. MF 8824
9607

8824 superseded

No objects.

Limits $18^h 4^m$ to $18^h 40^m$, -2° to -11.5°

Milky Way Region 17 32 -43
 Plates Available: Eff.

p. 31

MF 8536 May 5, 1924 61^m

8652 June 24, " 60

Comp. Pl.

8761 August 22, " 62

9548 July 20, 1925 45

9588 July 23, " 45

9596 July 25, " 45

9649 August 7 - 35

9655 " 8 45

9661 " 10 45

9671 " 11 45

9683 " 13 45

9690 " 14 45

9712 " 20 45

9721

9758 Sept. 8 45

9768 Sept. 9 45

9778

9783

9792

p. 28
p. 42

p. 44

Region 17 32-43 Variables marked on
 May 12 Exam. MF ~~8536~~ 8761 page 16 8761
~~9596~~ 8761 9596
 ✓ 8761 superposed

May 13 8761 page 28
 9758
 8761 superposed

May 13 } 8536 page 31
 14 } 8761
 8761 superposed

May 14 } 8761 page 44
 May 18 } 9683
 8761 superposed

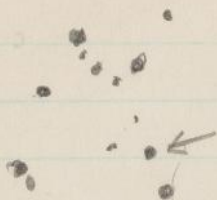
May 18 } 8761 page 48
 19 } 96⁴⁹~~88~~
 8761 superposed

Limits $17^h 4^m$ to $17^h 56^m - 38^\circ$ to -47.2°

May 12 No. 1

Region 17 32-43

17 17-38.9



Br 8761
9758

Fr 9596
~~8536~~

No 2
May 12

17 44-38.6

Small variation

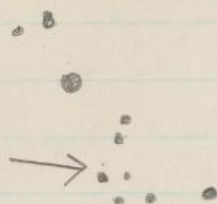


Per 8761
9758

77 9596
~~2536~~

MW Region 17 32-43
No. 3

May 12



17 52-39.6
large range

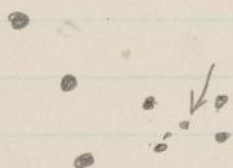
9596
Br. ~~8536~~

Fl 8761
9758

No. 4

17 53 - 39.7

May 12



B. 876†

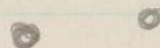
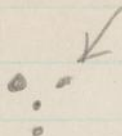
NS ⁹⁵⁹⁶
~~8536~~
9758

20

No. 5 Regim 17 32-43

17 28-42.3

May 12

Pr. 9596
~~8536~~N. S 8761
9758

No. 6
May 12

17 26 - 42.7

same as page 20



9596
B. ~~8536~~
9758

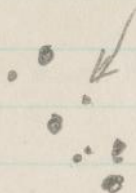
71 8761

22

May 12

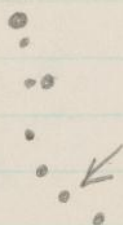
No. 7 Regim 17 32 - 43

17 55 - 42.6

Br 8761
97589596
Fl 8536

May 12 No. 8

17 18 - 43.7



Bz 8761
9758

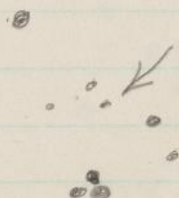
Fl 9596
~~8536~~

Region 17 32-43
No. 9 Star marked as 9 is a defect.

No 10

17 47.5 - 44.1

May 12



Br 8761

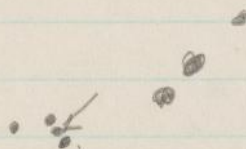
Fl 9596
9758

26

May 12 No. 11

Region 17 32-43

17 52-44.9



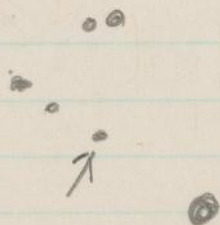
Br. 9596

Med 9758

(ns)
H 8761

May 13 No. 12

17 21-46.9



Br 8761

H 9596
9758

May 13

Regim 17 32 -43
No. 13

17 9 -39.3

• • • K

•

•

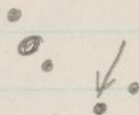
Br. 9758

Very ft 8761

No. 14

17 50 -40.1

May 13



Be 8761

H 9758

30

Region 17 32 - 43
No. 15

17 14.5 - 47.0

May 13

Very large range -
probably known.

Br. 8761



H. or NS 9758

No. 16
May 14

o \nwarrow
:
o

17 39 - 43.2

(See page 49)

Per 8761

Fl $\frac{8536}{9758}$

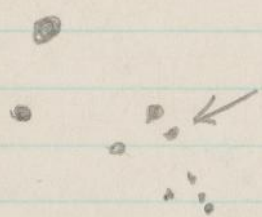
Region 17 32 - 43.
No. 17 17 34.5 - 42.0
May 14 ..
↓
←

Bz 8761

74 8536

No. 18
May 14

17 48-45.1



B 8761

Fl 8536

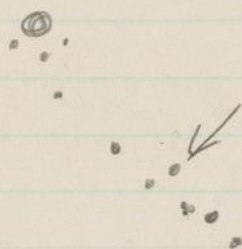
34

May 14

No. 19

Region 17 32-43

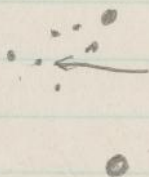
17 40.5-44.1



Br 8536

Fl 8761

No. 20 . 17 32 - 44.1
May 14



Probably a small
variation

Br. 8761

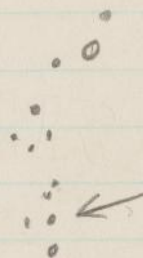
Ft 8536

Regim 17 32-43

No. 21

17 49-453

May 14



Br 8761

Fluor S 8536

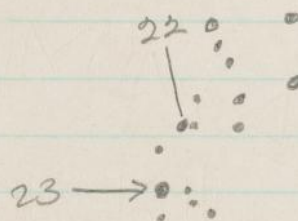
No 22

17 55-43.8

May 14

23 follows 22

23 S of 22



Br 8536

Fl 8761

38

Regim 17 32-43
No. 23 see page 37
May 14

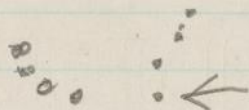
17 55-43.8

Or 8536

Fl 8761

M. 24
May 14

17 49 - 46.0



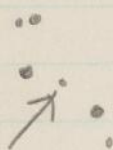
Br 8761

Ft. 8536

May 14

No. 25 Region 17 32-43

17 52-47.0



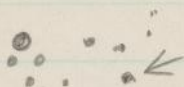
Br. 8761

NS 8536

No. 26

17 41-46.7

May 14

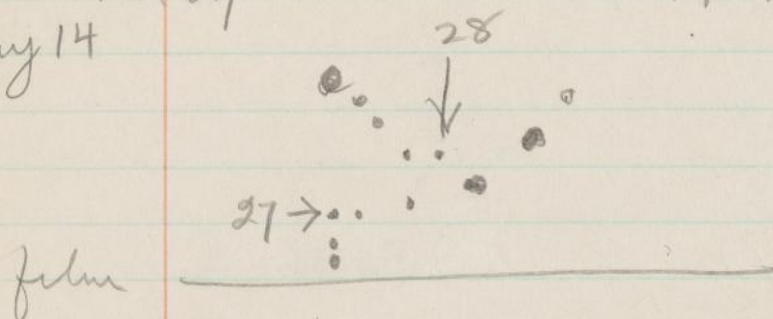


Br 8761

NS 8536

42

May 14 No 27 Regim 17 32 -43 17 40.5 -47.4



close to southern edge of film, but
stars beyond are clearly matched on
both plates

27 Br 8536

NS 8761

No. 28 see page 42 17 40 -47.4
May 14 27 follows 28
 27 S of 28

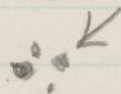
Br. 8761

91.3.8536

May 14
No. 29
Region 17 32-43

17 34.5-39.2

near very br. star

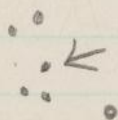


Br. 8761

NS 9683

No. 30
May 14

Var. or defect on 9683
17 26 - 40.0



Br. 9683

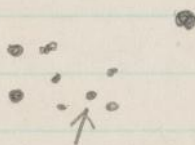
Fk 8761

46

no.
may 15

Region 17 32-43
31

17 30.5-47.2



Pr. 8961

Fr.

9683

No. 32
May 18

17 10 -44.6

→

• • • • •
• • • • •

A new ft star at Max

Bz 8761

NS 9683

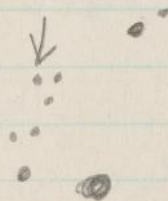
48

Region 17 32-43

No. 33

17 51.5-42.4

May 19



Br. 9649

- Barely seen 8761

No. 34 (was found as No. 16 but another No. 16 was
May 14 ✓ given number)

17 52 - 38.7

7.2

Bz 8761

Fl 8536

Milky Way Region 9 45 -44.2
 Available Plates Exp. m

p. 58

MF 8512 May 2, 1924 60

9023 April 17, 1925 47

Comp. pl.

9029 April 20, 1925 45

9034 April 21, " 68

9059 May 10, " 45

p. 54

9062 May 11, " 45

9067 May 11, " 45

9074 May 13, " 45

9093 May 14, " 45

p. 61

9109 May 15, " 45

54

M.W. Regim 9 45-44.2
Exam. MF 8512 page 58

May 19, 1926

9029

8512 superposed. (Nos. on 9029, if any
Vars.)

May 19, 1926

Exam. 9029
9062

9029 superposed

no objects

May 20, 1926

Exam. 9029 page 61
9109

9029 superposed

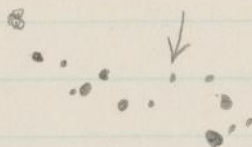
Limits :- 9 16 to 10 12 -39 to -49

58

MW Region

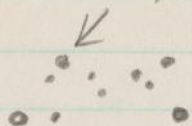
No. 1

May 19

 $10^h 2^m - 42.8$ Br. 9029
9109
9062

Thor N. S 8512

No. 2
May 19



10 5 - 46.5 good range

Br. 9029
9109
9062

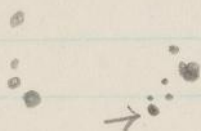
N.S. 8512

60

No. 3

9 43-46.7

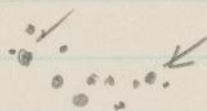
May 19



a very ft star at Max
Br. 8512

N.S. 9029
9109
9062

No. 4 10 2 - 40.5
May 20



Br 9029

Medium 9062

Ft 9109

Milky Way Region 16 34-44

Available plates:

| | | | |
|-----------|---------|----------------|-----------------|
| p. 70 | MF 8489 | April 25, 1924 | 96 ^m |
| | 8535 | May 5, 1924 | 60 |
| Comp. Pl. | 8666 | June 27, " | 60 |
| | 8760 | August 22, " | 60 |
| | 9040 | April 28, 1925 | 60 |
| p. 70 | 9046 | " 29, " | 61 |
| | 9370 | June 16, " | 45 |
| | 9441 | " 23, " | 45 |
| | 9459 | " 24, " | 45 |
| | 9476 | " 25, " | 45 |
| | 9516 | July 10, " | 45 |
| p. 70 | 9536 | " 16, " | 45 |
| | 9546 | " 20, " | 45 |
| | 9563 | " 21, " | 45 |
| | 9564 | " 21, " | 45 |
| | 9586 | " 23, " | 45 |
| | 9592 | " 24, " | 105 |
| | 9594 | " 25, " | 45 |
| p. 70 | 9642 | August 6, " | 45 |
| | 9647 | " 7, " | 45 |
| | 9654 | " 8, " | 45 |
| | 9659 | " 10, " | 45 |

16 48 - 44 70 - 11

Region 16 34 -44.5
Limits: $16^h 4^m$ to $17^h 0^m$, -40 to -49

70

Region 16 34-44

May 21

Exam 8489
8666

8666 superposed

8489 badly elongated, heavy, images. Bad for comparison. Stars close together often show a single, heavy line.

No objects

May 21

Exam ~~8489~~ 8666

9040

~~8666~~

superposed

No objects

May 21

Exam 9536
9642

9642 superposed

No objects

Object at

bright star, nebulae,

Line at 3.8 (nm)

" " 4.4 "

Mulvey Way Region 16 39 -55

Available Plates:

| | | | Exp. | |
|-----------|---------|----------------|-----------------|---|
| | M# 8482 | April 24, 1924 | 90 ^m | Quite dark, use for confirming vars. |
| Comp. cl. | 8555 | May 8, " | 60 | |
| p. 78 | 8677 | June 30, " | 60 | |
| p. 94 | 8719 | July 24, " | 60 | |
| p. 102 | 9603 | July 28, 1925 | 45 | |
| | 9669 | August 11, " | 45 | |
| | 9680 | August 12, " | 45 | |
| p. 103 | 9682 | August 13, " | 45 | |
| | 9689 | August 14, " | 45 | |
| | 9697 | " 15, " | 45 | |
| p. 102 | 9710 | " 20, " | 45 | |

74

Region 16 39 -55.0
Limits: 16 5 to 17 12, -50 to -60

Region 16 39-55.0

May 22 Exam. MF8555 page 78
8677
8555 superposed

May 22 Exam. 8555 page 94
871.9
8555 superposed

May 24 Exam, 9603 p. 102.
9710
9603 superposed
Unsatisfactory — both plates rather dark, 9710
heavy, and elongated, images

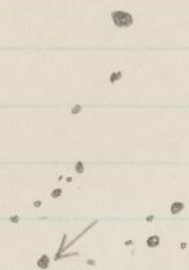
May 25 Exam. 8555 page 103
9682
8555 superposed.

78

No. 1 Regim 16 39 -55

16 58 -51.6

May 22



Bc. 8677

NS 8555

8482

No. 2

16 52 -50.5



a ft star at Max
Br. 8677

Very ft 8555
8482

Region 16 39 -55
 No. 3 16 21.0 -50.2

..k.

a fr star

B_c 8555

NS 8677

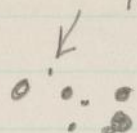
Probably a defect - or motion

Different shape from stars.

8482

No. 4

16 12.5-54.5 Good range.

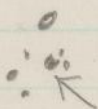


Br. 8677

NS 8555

8482

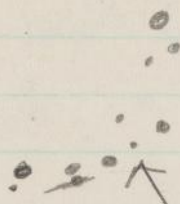
Region 16 39 - 55
 No. 5 16 23 - 54.4 Very Good range



Bz 8555

N.S. 8677
 * 8482 show ft.
 stars

No. 6 16 24 - 55.5

*Small variation
but apparently real.*B₂ 8555

Fr 8677

Medium ? 8482

Region 16 39 -55.0
 No. 7

good range
 16 31 -54.3

7
 21 →

Br 8555
 8482

H.S. Fl. 8677

No. 8 16 37-54.2



B1. 8555
8482

718677

Region 16 39 -55.0
No. 9 16 47 -55.1

••
↓
•

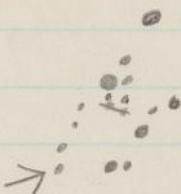
fairly bright
maybe slight variation

B_v ?

- 71 ?

m. 10 16 48-55.4

Good range



Br. 8677
8482

71 8555

May 22

Region 16 39 - 55.0
No 11 16 59 - 55.3

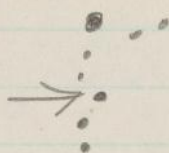
↓

Gord range

B1: 8555

Very Fl or NS 8677
8482

No. 12 17 4 - 54.1
Mag 22



Good range

Br. 8555
Medium 8482

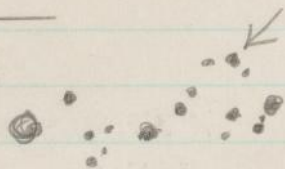
Ft 8677

90

Region 16 39-55.0

No. 13
May 22Defect on a star
number cancelled for this star

No. 13



16 31.5-53.8

Br. 8719

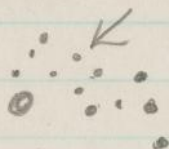
Very ft 8555

May 22

No. 14 16 55.0 - 57.6

Good range

Close to bright star



Br. 8677

718555

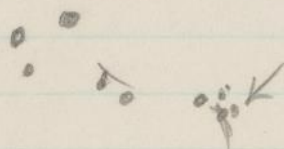
8482

92

Region 16 39 -55.0
M₁₅ 16 56 -57.0

May 22

Good range



B₁ 8555
8482

Ft 8677

May 22 No. 16 16 5 - 58.3



Br. 8555
B 8482

Ft 8677

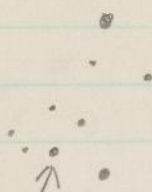
94

May 24

M 17

17 3 - 51.5

Large range



B. 8719

N S 8555
8482

No 18 17 2 -52.5
May 24 $\therefore K$

Large range.

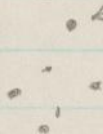
Bz 8555

Ft 8719
8482

No. 19 Defect
Cancel this No.

m. 20
May 24

16 43 - 53.8



B. 8555
8482 h?

It 8719

No. 21 See page 84 16 31-54.3
May 24 Close to No. 7, following S South
Large range
21 - . . . 7

Bz. 8555

Ft. 8719

No. 22
May 24

16 58.5-55.9

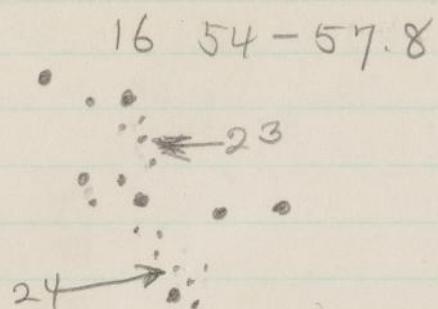
Gord range

→ ∴

Bv. 8719

Fl 8555

100

No. 23
May 24

Large range

B. 8555

Fl 8719

No. 24 See page 100 16 53-57.9 Good range
May 24

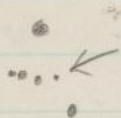
B 8555

Ft 8719

No. 25

16 30 - 55.4

May 24



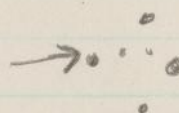
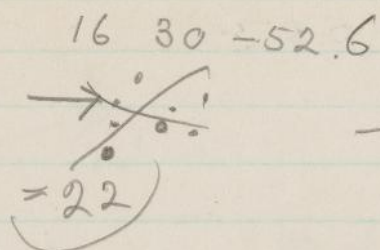
Br. 9603

Br. 8555

Defect or Var.?
A fr. star but seems
to vary

Fr 9710

No 26
May 25



Large range

Bn 9682

Fl 8555

May 25 No 27

16 46 - 54.3

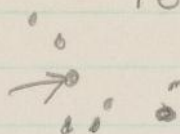


Br. 9682

NS 8555

No. 28

16 52 -57.0



Br 9603

Medium 9710

H 8555

Milky Way Region 8 41 -55

Available Plates: Eq

| | | | |
|--------------|-------|----------------|-----------------|
| Camp. Pl. MF | 8477 | April 24, 1924 | 81 ^m |
| | 9028 | April 20, 1925 | 45 |
| p.116 | 9033 | April 21, " | 60 |
| | 9056 | May 9, " | 45 |
| | 9058 | " 10, " | 45 |
| | 9061 | " 11, " | 45 |
| p.112 | 9066 | " 11, " | 45 |
| | 9072 | " 13, " | 45 |
| | 9092 | " 14, " | 45 |
| | 9108 | " 15, " | 45 |
| | 10084 | Feb. 15, 1926 | 45 |
| | 10092 | " 16, " | 45 |
| p.114 | 10102 | " 18, " | 45 |

Region 8 41-55
Limits: 8 4 to 9 15, -50.5 to -60

Region 8 41 -55

May 27 } Exam. 8477 page 114
" 28 } 10102

8477 superposed

May 29 Exam. 8477 page 116

9033

8477 superposed

June 1 Exam. 8477
9066

8477 superposed

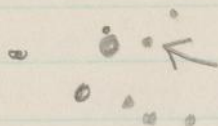
No new objects

114

May 27

No. 1

8 27 - 50.6

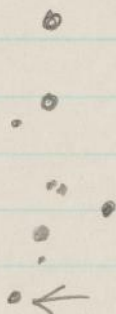


Ba 10102

N.S. 8477

No. 2
May 28

8 14.5-55.9



Small Vanuatu

B_v 8477

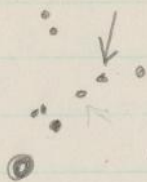
FF10102

116

No. 3

May 29

9 5.5-53.1

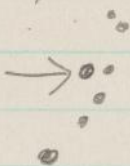
Polaris?
 true stars?

B. 9033

Fl (trace?) 8477

No. 4
May 29

8 27-59.6



Very large range

Bz. 9033

Very ft. 8477

Milky Way Region 10 41 - 58.5

June 3, 1926

Available Plates

Exp.

MF 8500 April 30, 1924

90^{mm}

8539 May 6, 1924,

60^{mm}

9030 April 20, 1925

47

9063 May 11, "

45

9068 May 12, "

45

9076 May 13, "

45

9094 May 14, "

45

9110 May 15, "

45

9139 May 19, "

45

9166 May 22, "

45

9203 May 26, "

45

Araguaya

region for

study of Vars

is

10 9-56

so only following

half would

be available

until after

Araguaya

exam. is

completed

Milky Way Region 11 49 - ^{53.8}54

Available Plates:

MF 8473 April 22, 1924 90ⁱⁿ
 8531 May 5, " 60
 8547

Use for Conf. Pl. 9391 June 18 1925 L
 9408 June 19 1925 45
 9419 " 22 " 45
 9434 " 23 " 45

124 9451
 9469 " 25 " 45
 9485 " 26 " 45
 9502 " 27 " 45

Black

124

June 3

Region 11 49-53.8
 Exam 8531 page 126
 9391

8531 superposed
 Vars., ~~if any~~, will be numbered on 9391

Exam. 9391
 9502 9469

9391 9502 superposed

9502 is rather dark for superposing.

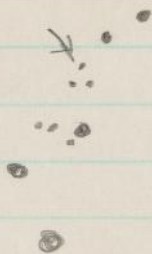
9469 differs little in date.
 no objects

126

M.W. Region 11 49-53.8

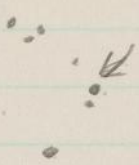
No. 1

12 13 - 50.5

June 3
MFRLSlight change
very faint star.

No. 2

12 11 -51.0

June 3
M+PL

Br. 8531

Fl 9391

128

June 3
MFR

No. 3

MW. Region 11 49-53,8

←
:

12 17-52,3

Small change

Br. 9391

Hk 8531

No. 4

11 51-51.8

June 3
MF PL

Br. 9391

71 8531

130

MW Region 11 49 - 53.8

M 5



11 29 - 53.1

June 3
MFEI

Br. 8531

No trace 9391

No 6.

11 37 -54.3⁵June 3
MFR

K

Br 9391

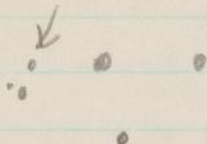
No trace 9391

132

No. 7
June 3
MF Pl

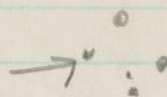
MW Region 11 49 - 53.8

12 17 - 54.2

B₁ 9391

H 8531

No. 8
June 3
MFDL



11 52-54.3

Bz 9391

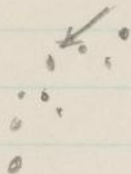
Ft 8531 (NS)
Is film defective?

134

MW Region 11 49 - 53.8

m. 9

12 13 - 55.7

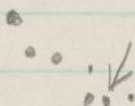
June 3
MFOl

Ba 9391

H 8531

no 10

12 3 - 57.0

June 3
MFRl

Br 9391

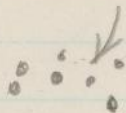
NS 8531

136

MW Region 1149-53.8

No. 11

11 59.5-58.3

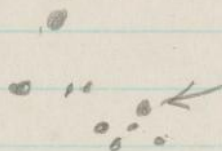
June 3
M7 Pl

Br 9391

H 8531 edge - maybe
defective

No. 12

11 56-58.2

June 3
MPLslight, if any,
variation

Br —

H. —

138

MW Region 11 49 - 53.8

No. 13

Defect? 11 21 - 58.2

June 3 1926
MFRl

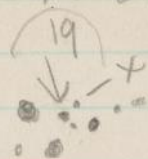
150

Continued from Bb. 37, page 99. 18 objects already

enlisted

Regim 18 24 - 23 Position meas., Bb. 39, p. 22

No. 19



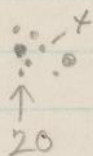
18 6 - 28.0

New Var.

June 28, 1926

MF Pl.

Extreme southern edge



Br. = brighter than x

Long period

Br. x
MF 9793

8519 not cora

9550 barely seen

8638 " "

9565

8759 " "

9589

8766 " "

9597 ft

9759

9656

9769

9663

9779

9672

9784

9684

9691

9740 growing a little

9747 brighter
no sudden changeConfirmed by
Miss Cannon
July 9, 1926

Q2605

See also No. 51, Reg. 18 9 - 30, Bb. 37, p. 159

No. 20 See page 150 18 5-28.1 New Var.

June 28
MF Pl.

20 may be a slight change.

$\mu = \text{nearby} = x$
or a trifle brighter

μ 9793
9784

9550

Not
pursued

Probably not enough change to measure position

Leave
till later
plates

152 Note - Position meas., Bk. 39, p. 30

*

st. star North

Region 18 24 - 23

No. 21

18 39 - 20.0 (1900)

Star Var.

June 29

MF PL

→ 0.0

Very Br.

(Probably known)

Br^{MF} 9793

8519

8638

8759 Aug 21

8770 Aug 25

9550

9565

9589

9769

A 7340

9759

B17708

B25746

28156

32014

33980

34009

NS 8766 Aug 23

9597

B 13539

A 7494 Corner *
roofFound independently, Obj 213,
Bk 40, p. 135
(on a plate)Algol?
See quick
changeConfirmed by
Miss Cannon,
July 3, 1926

meas →

Not a DM star

Leave till later

153

No. 22

18 27.5 - 20.6 (1900)

June 29
MF PL

•:K

New Var.

May be some change.
Images are different
on 2 plates.Br [?] 9793Fainter [?] 8766

154

Position measured, Bbs. 39, p. 31

Reagin 18 24 - 23

$N_{23} = 1843 - 26.3$

June 29
M F Pl.

→ y
x

Heur Van.

Aft. star at
Max.

but good range

$b_2 = \text{nearby} = 7$

Br 8766

$$f_t = y$$

Fl 9793

8759

8519

8776

86 3/8

9597 not max

$$95 \overline{) 9550}$$

9656 " "

9565

9684 4 "

9589

9740

9759 (see 9793 rather quick change?)

22736 ft.

Confirmed by
Miss Cannon,
July 9, 1926

meas 2736

Another var. on these plates — see No. 14

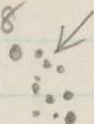
155

✓

M 24 18 31 - 23.8

June 30
1926

MF PL



Cluster

very ft at Max
Is this a Cluster
Var?

Br. 9793

Fl 8638

Compare with No. 8 — and with NGC 6656 Vars

This is Professor Bailey's Var. No. 14, H. A. 38,
plate IX

156

Position meas., Bb. 39, p. 32.

Region 18 24 - 23

no. 25 18 28.5 - 15.1

1855

New Var.

June 30

on B plates. Marked on B 32014

not on MF region



B. B 32014

evidently not pris. Conf. H 28231

A 2757

A 9409

Enough proof?

NS 34009

H

not corr

A 2656

6790

8924

edge

belt proof

A 9409

B 33980

meas 2757.4

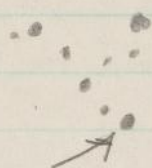
20 better A pl.

A 9409

Confirmed by
Miss Cannon,
July 9, 1926

XX

157

No. 26 18 38 - 18.2 1855June 30
1926on B plate
not in M. Regionmarked (N S) on B 32014
New Var.

Very large range

Br. B 34009 June 7
1904

(34009 is a reversed film

plate and I am afraid

I've marked on film!)

N S B 32014

B 33980

1904

4914 May 16

Not on ac 4980 June 17

5042 July 8

Looking planet & Asteroid

158 A sequence mkt on 29525

Look up for Nova?

Regin 18 24 - 23
 No. 27 18 8 - 25.1

June 30
 in B plates.

New Var.
 Marked on B 5245
 and on MF

... ∴ ↙

B^B 5245

Apparently not Iris. Comp.

Miss Cannon
 saw image 5245

find 5245 again

| | |
|-----------|---------------|
| N S 32309 | B 29525 |
| MF 8638 | 27408 |
| MF 9793 | 19326 |
| 8519 | a 11688 |
| 8638 | a 9370 |
| 8759 | (a 7332 |
| 8766 | See many ft. |
| 8770 | stars - this |
| 9550 | star probably |
| 9565 | N.S. |
| 9589 | |
| 9597 | |
| 9656 | |
| 9663 | |
| 9672 | |
| 9684 | |
| 9691 | |
| 9740 | |
| 9747 | |
| 9759 | |
| 9769 | |
| 9779 | |
| 9784 | |

Position measured, Bk. 39, f. 33.

No 28 marked on MF and B 28156 New Var.
June 30 18 28-21.2
on B plates (1900) \downarrow 1 2 + 3
Br = between x & y
I /

Br = between x & y
Fl = ~~family~~ family

Br. B 28156
Long Period MF 8519 medium
Cephoid? 7340

A9393
Semi, Not Max.

Variation
Confirmed
by Miss C
July 3, 1926

FLB 257 46

m# 9793

Ph not in 8766

very ft 9565

79589

8759

very ff 8636

9550

Not Min 8770

* very ft 9656

not in 9597

very ft 8638

9769

a 8447

~~7345~~

9759

9566

160

*
see 100

Regin 18 24-23

no. 29 (1900)

marked on B 28156 and MF

June 30

18 33.5-20.7

New Var.

on B plates

Slight change, if realB 25746
~~B 28156~~

MF 9793

Ft. 28156 seems

hazy

9565 defect close Ft 8766 double star

Apparently 2 stars that often combine into one
image - Watch. Probably not a real
change* Found independently on A plates, ^{object 100} Bk. 40, p. 22
See detail on A plates
→ Southern star of 2No. 30 Cont. NB image shows 1900, ~~from~~ plates 19-15

948 too poor

936 " "

868 " "

869 " "

858 " "

1901

AC 1527 Jewell from probably seen

no. 22

1840 Oct 7 NS

No F plates for period of 1900, 1901

Nora

1900 to 1901

see Summary,

No. 30

182

1822

marked on B28156 and MF

July 1, 1926

(1900)

-21.7

x y

New Var.

Br. = brighter than x,

Br. = about = y

Large range

Confirmed
as Nora by
Miss Cannon
Sept. 15, 1927

Br. 28156 Aug 1901

Very ft. on S 25746

79^m Eff.

MF 8759 a secondary

MF 9793

9597

eff. gives a star near

about in this position

but see other stars on

this MF Plate

9589

MF 2594

8770

9663

4542 B

9550

9672

2818 B

8519

9684

Seen 28231 (also 1901!)

(1890) 8759

9691

B 5245

9747

B 28620

MF 8766

9759

Too poor

8638

9769

9565

9784

614 Sept 1900

* 802 May 1901

Seen 798 May

Am 808 May 1901

NS

566 1900

817 May 1901

1028 Sept perhaps

577 1900

907? defect

1043 Sept 1901

614 seen

near position

685 seen

NS.

798

200

B 25523

B 32014

Perhaps trace shows very ft stars

B 33980

B 34009

MF 9597

9656

B 17708 (1896)

30866 Oct 11, 1902

A 4422 (8x10) 1900

9393

8447

7340

see note margin

5960 (1902)

ac 19-15

* 1462 May 13 earliest date

broken - Estimate?

B 28734. Very ft Oct 10, 1901 12996

Sept. 160

442

Nebula

Sept 340

very ft star

Am 19-15

835 Seen

Too poor for est.

850 Too poor

868 " "

875 Seen

888 Probably seen

162

✓

Regim 18 24-23

No. 31

Marked on B28156 and MF

New Var.

Slight? change?

18 29.5-

-21.7 (1900)



Br. B28156

Fl 25746

This is a poor streak
in the film which
probably affects image.
A few plates were exam.
All seemed uniformly
bright.

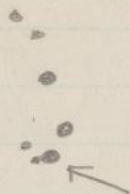
July 1
in B plates

No. 32

Marked on B 28156

July 1
on B plates

large range

Cancelled this No
for this star.

Very bright 28156

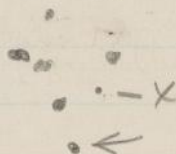
NS 25746

Same as No. 1, see page 82

Bb. 37

Position measured, Bb. 39,
New Var. page 15

No. 32 18 11.5-24.8

July 1
on A platesgood range
marked on A 3699
and on MF

Br. = brighter than x

Br. A 3699

N.S. A 11688

Ft but seen MF 9793

Probably br - MF 9656

MF 8519

Confirmed by
Miss Cannon

MF 9672

not max

8638

9684

8759

July 9, 1926

9759

8766

9550

9597

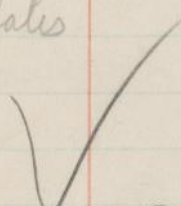
A 9370

Region 1824-23

No. 33

1828-25.7

Marked on B 28156

July 1
on B platesCancel this No.
for this starApparently same change. Very ft.
star at Max.

Br. 25746

NS 28156

Long period?

Same as No. 5

No. 33 1816-26.2

July 1
on A plates

← 33

Br. A 3699

A 9370

MF 8759

8766

8770

meas A 3699

Should have been
found on MF pl.New Var. found on MF
marked on A 3699

good range

Br. = at least as bright as x

NS 11688

NS MF 9793

MF 8519

8638

9550

Position measured, Bk. 39, page 16

A 3699 13.2
A [16.5]Confirmed by
Miss Cannon
July 9, 1926

✓

No. 34 1813-25.2 marked on B 28156 and MF

↓
•••July 1
B Plates

Known

Already marked on B 25746
with sequence

Br. 25746

FF 28156

Nova Sag. 3 Cannon

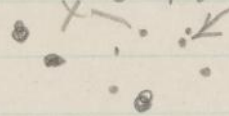
66

Position measured, Bk. 39, page 17

Region 1824 - 23

No. 35

18 14 - 26.1

July 1
on A plates

New Var.

marked on A 3699
and MF

Br = X

not large range

Very ft A 11688

Faint MF 8638

8766

** 8759 shows
stars well
separated -A slight change
on MF plates,
array ft. star
would not
be found.

Br. A 3699

Probably Br MF 9793

Perhaps not X max 8519

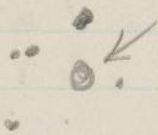
Confirmed by
Dink Camm
July 9, 1926

Object?

167

July 2 No. 36 18 27 -20.2 (1900)

on a plate



marked on 9759

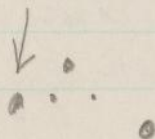
what is this large, hazy, object?

m A 9759

168

Object =

Region 18 24-23

No. 37 18 32-19.9(1900) Probably faint asteroid
Different image from starsJuly 2
in 2 plates

Marked on 9759

on A 9759

Position measured, Bk. 39, page 18.

169

No. 38 18 32 -20.7 (1900) New Var.

July 2
on A platesmarked on 9759 and
on MF and B25746Bright on
proper plateBr. ^a 9759 (1909)~~MF 9793~~

B25746 (1900)

Very Fk. on N. S. 7340

Of the large number of stars on 7340
this does not seem to appear unless
just at limit of background.

a 9566

MF 9793

B28150

MF 8638

8519

8759

8766

~~8750~~

9550

9565

9589

9597

9656

9663

9747

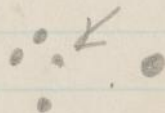
9759

Confirmed by
Miss Cannon
July 9, 1926

170

91 Reg. P. 18 24 -23
 No. 39 18 36 -22.2 (1900) New Var.

July 2
 on a plates



marked Br 7340
 marked (NS) 9759

Br A 7340

9759

Same as No. 12, Bb. 37, page 93

Extreme fol. edge of MF Plates
Position meas., Db. 39, page 19.

No. 40 1842 -22.2 (1900)

July 2
on a plates

x. ↓ o.
o.

New Var.

Marked on A 9759
and on MF

Br = brighter than x

Br 9759
MF 9793
9747

NS 7340 and features seen
MF 9656
9597

Ft but seen 8766

Ft but seen 8770

NS 9550

8519

a

Confirmed by
Miss Cannon,
July 6, 1926

172

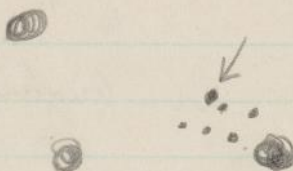
Position measured, Bb. 39, page 11

Region 18 24 -23

No. 41

18 28 -24.2

New Var.

July 2
on a plateMarked on A 3699
and on MF

B A 3699

MF 8519

B 22746 Not May Doubtful

8766

9565

~~Cephid?~~

Proved ✓

Confirmed by
Miss Cannon,
July 6, 1926

NS 7340

MF 9793 Probably

NS
8638

8759

8770

9550

Seen ft A 9370

9876 does not show
ft. class

Seen ft A 4380

NS 11895

Probably NS B 28156

Object =

173

No. 42

July 2
on A plates

Hazy morning object.

Marked on Q 3699
~~and on 7~~

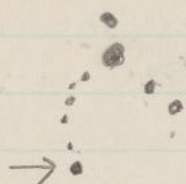
on 3699

174

Position measured, Bk. 39, page 12.

Regin 18 24 - 23
No. 43 18 26 - 24.8

New Var.

July 2
on a plates→ Large range
marked on 3699 and on MFNote for
fr star

This is probably a ^{trip} double stars with
the southern one a variable whose
image on 3699 almost covers the
northern star.

On 7340 magnitudes are about equal —
faint.Long period
Asteroid?But Max is
often brighter
than other plates
which show var
br.Br. A 3699
Br. not Max MF 8766

Br. MF 9793 not Max

8519
8638
9550

8759 not Max

FHA 7340

- MF 9684 or defective

A 9376

A 9370

11895

9565

9589

9597

9656

9663

- 9672

- 9691

9740

9747

9759

9769

9779

9784

Medium 8770

A 9370

Confirmed by
Miss Cannon
July 9, 1926

Position measured, Bk. 39, page 13.

175

very near 43
No. 44 18 25.5 - 24.8

July 2
on 2 plates

New Var.
Good range
marked on 3699 and on MF

B_r = brighter than x

B_r A 3699
MF 9593
~~8519~~
8638
8766
8770

Very ft 7340

MF 8519
9550

Confirmed by
Miss Cannon
July 8, 1926

176

Position measured, Bk. 39, page 14.

Region 18 24-23

No. 45

18 28.5-25.0

New Var.

July 2,
on A plates

marked on A 3699

and on MF

Br = brighter than x

Ft. 7340

NS MF 9793

MF 9769

9779

B 25746

B 28156

MF 9759

Seen ft MF 9684

9740

Br. 3699

MF 9597

9589

** 9550

Should have
been found on
MF plates9550-9793 were
rather dark -
star rather ft.Confirmed by
Miss Cannon,
July 6, 1926

Magnitudes marked to use for region.
See Bb. 39, page 36 etc.

Marked on A 3699

MF 9550

A 7340

MF 9793

Corr.
Seq. of WSC 6656 marked on MF 9550.

18 39-25 A 9376 rarius magno.

180

Look up for Nova - Not Nova - Long period Var.
 Position measured, Bk. 39, p. 190.
 Conf. Bk. 46, p. 76
 New Var.
 Region 18 24-23 (only partially covers)
 No. 46 18 49-25.6

July 17
 on a pl
 mbd on A 8986
 not on MF reg.

Br. A 8986 1908

July 31

Would be seen
 on only very good
 or long exp. cam
 ?

Proved to be real, not a
 defect, AM 5683 Exp 126

July 25, 1908

Also AM 5640 66^m July 7 25-

5576 60 June 18 23-

Tor from

5807 Sept

* Br B 39151 June 16 -

** 39136 June 9 -

1908 Class O plates

Spectrum

B 39204 June 19 Seen

323

39323 July 9

A 8946 July 8
 br.

Very large range
 mbd on A 8986

X Idm by B 26257

Br = much brighter than X

Very ft. A 2736

NS B 26257

US A 6124

B 5266

3868

27184

32076

28160

33776

NS 5820 Sept 14

Exp 120

5854 Sept 24 61^m

- 5444 May 7 60

5712 Aug 2 66

B 39424 Aug 5 Tor from

AM 5390 April 10

12.5 to 17.0

See light curve measures plotted

Get period soon?

✓
no. 47July 17
on a pl

Br. = br. than x
 Ft = nearly as
 ft as y

Br 8986

Vinyft 2736

See same Var., Obj. 142, Bk. 40, p. 64

182

? Leave? (till later)

Position meas Bk. 49, p 25 to try to identify with Jones-
 Region 18 24-23 and beyond

No. 48

18 48.2 - 26.1

Mhd A 8986
 and B 26257

July 17

on a pl

x^{*}.

mhd on A 8986

not in MF region Apparently real, but Slight change - Watch

Toopm 9363

B 8986

Ft 2936

B 26257

6124

33776

* B 32076

?

Leave at present

No. 49

18 49.5-25.9

July 17
on a plMbd on A8986
and B26257Mbd on
A8986
not on M#

A slight change, if any

B 26257

184

Leave for proof

Region 18 24-23 (and beyond)

No 50

14 1851-26.4

A faint star

July 17
on a pl.→ . . .
 . . . y

Mkd @ 8986 and B 26257

Br. = fainter than x but
seen and
brighter than y

Ft 2736

Ft = almost
at limit of plate
where y is
plainly seenMkd on A 8986 Br 8986
not on MFtoo far for
32052

Perhaps a S (y seen) B 26257

28160

33776

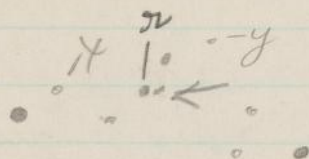
32076

a 9363

Lease

Difficult to prove, images very close
even on a pl.Look up at on 185
on new plates

No. 51 18 49.5-26.8

July 17
on a plMbd on 8986, 2736
and B26257

Br. = as black as x but smaller

Fr = fainter than y

Br = about = r on A6124

Mbd on A8986

not on MF Br. 2736

*A6124

B26257

trailed images, but probably both
stars bright.Poor or
Uncertain
B32076

3868

5266

A9363

*probably brightest 33776

2 stars less than
0.2^{mm} apart

X x 4 sec

0.8 1.120 0.8960

186

Region 18 24-23 (and beyond)
 No 52 18 51-26.5
 Lease for present
 also mhd on B26259

July 17
 on a pl
 Mhd on A8986
 not m m

→ ∴

B. 8986

A very ft star and
 small change but seems a
 real change
 # 2736

Look up at once when more plates
A possible Nova

187

Good range

mbd 2736, 26257

No. 53

19 3.8 - 26.6

July 17
on a pl

•
•-x
•••
•••

Br = nearly = 4

mbd on A8986

not on M#

Br 2736

718986 (NS)

B 26257 N.S.

33776

5266

32076

It probably seen 32052

A 9363

Two from
3868

before AM plates

188 Innes Position meas. Bk. 39, p. 210

Mkd A 8986 b
MF

Region 18 24 - 23 (and beyond)

18 38.5 - 278

Br = brighter than x

July 17
on a pl

Mkd on A 8986

and MF 9793

a Meas. — A 8986 1908

NS (perhaps defect in film is cause)

A 2736 — probably very ft and defect over it.

But NS A 6124

B 32076

B 27184 1901

Ft st seen B 33776, not Var

Seen not quite max 3868

* Br 26257 1900

proof

NS 28160 (poor pl)

MF 9793

8766

* Very ft A 2752 and
see many ft stars

* This is probably Innes 18 38.7 - 27 45

Look up also Innes 18 38.6 - 27 22

See Bk. 46, p. 111

54 is same star as 185

Position meas. Bk. 39, p. 203

189

18 45 - 27.7

New

Off MF

a ft star

Br = a little brighter than x

Br. on lower plate

Key ft A 2736
6124

NS 26257

No. 55

July 17

on a pl

mbd on A 8986

not on MF

Br. A 8986

B 32076

Medium?

Seen ft star

B 33776

~~7184~~

Doubtful

B 3868

5266

28160

27184

A 9393

15.5 to 16.5?

190

Position meas. Bk. 39, page 182.

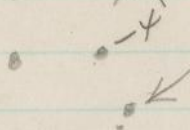
Region 18 24 - 23 (and beyond)

No 56

18 47.8 - 27.8

No 56 A 27366 B 26257

July 17
on a pl
Mk'd on A 8986



Large range
a little fainter than x but
quite a bright star.

not on M# B₁^a 2736 1897

9363 1909

B 23758 1899 (140^m)

Corner, elong.
images, but
proves max.

B 3868 Tolson

32052

a 9577

Probably N. S 8986

N. S B 26257

B 5266 x seen Var NS

32076 much fainter stars
than x seen, Var NS

Perhaps seen ft 33776 1904

14.5 A 2736
[16.5 comparing with
a star about
like (14)]

Position meas. Bb. 39, page 181

191

~~False Const~~
 No 57 18 48.4² - 27.5⁴
 July 17 Aft. Star $\begin{matrix} \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{matrix}$
 on A pl
 Mbd on A 8986
 not on MF Br. A 8986
 Too ft probably for B plates
 B 32076
 and B 26257
 Mbd A 8986 & 2736
 Br. = about = X
 Ft. = triple brighter than
 Not large range but real
 Ft 2736
 B 26257
 B 33776 Perhaps seen, not Max., & not
 separated from other stars.
 S B 23758 not
 bright enough for
 prof
 32052
 B 5266 not br.
 3868 not br.
 A 9363 from
 9577 "
 15.0 mag fr.
 16.2

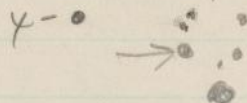
192 See also object below Position meas. Bb.39, page 180

Region 18 24-23 (and beyond)

No 58 18 49.0 - 27.4

mbd on A 8986 and 2736

July 17
on a pl



Very large range
and B 26257

mbd on A 8986
not on Mt

Bz = brighter than x

Very bright A 8986

Doubtful
B 32052

Bz B 3868

5266

Probably seen B 23758

A 9363

Very ft A 2736

Very ft if seen B 26257

See defect or asteroid
trail close (Fol., South)

A 9577

Very ft, almost limit of
pl., B 32076

also, 33776

13.5

2736 16.5 ? very ft but
seen

No. ~~June~~? Position measured, Bk. 39, p. 198

193

No 59 18 49 -28.0

Msd a 28986 5 2736

Br. = a little higher than x

Ft. = a little higher

than y

→ A ft star

Not much range

Ft A2736

July 17
on a pl

Msd on

A 8986

not on MF

Br. A 8986

Bright on poorer plate

B26257 Seen, doubtful Ft or Br.
probably about Median

Ft B33776

too poor

60" Bpl.

A 9363

A 6124

9577

3868

5266

32052

Seen 82076

Correct?

10750

B26257

15.5

to 16.2

Small range

Confirmed by Miss Cannon, April 21.

194

Feb. 7, 1926

Not proved Position measured, Bk. 39, p. 200

Confirmed by

Region 18 24 - 23 (and beyond) Good range

no 60 18 57.5 - 27.4

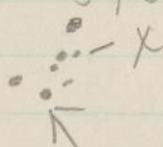
July 17

Mkd on A8986 and

on a pl

Br = as bright as 273 L
(and B26257)

not on MF



Br A2736

NS 8986

~~Find a bit~~Should be seen on long exp. B plates, if Br.
A9363 near edge
but is probably proof

NS B 26257

33776

32076 Seum, ft

32052 NS

3868 Tm juv

B5266 Tm juv

3868 " "

A6124

15.0

[16.5

Innes 18 57.4 - 27 20

See Bk. 46, p. 113

Position measured, Bk. 39, p. 179.

195

No 61 18 57.5-28.0

on a pl.

July 17

on MF

Br. 2736

B3 2076

About Max? B5266

Mlsd on 2736 on

B26254

Br nearly = 4

N.S. 8986

B26257

33776

Seen ft, 82052 probably
medium magn?

3868

14.8

[16.5

196

Isn't this known?

Position meas. Bl. 39, p. 201

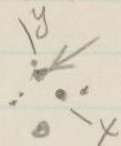
18 58 - 27.2

Region 18 24 - 23 and fol.

Br much b. than y

Ft much fainter than y

No. 62



Good range

Msd on A 8986

July 17
on a plate
not on MF

Bl. A 8986

Ft. A 2736

Msd on 8986

Not Min but ft B 26257

proof *B 33494

" " " " 32076

ft 32052

** 5266

Med. B 33776

Ft B 3868

$\frac{\text{No. 60}}{\text{Innes}} = \begin{cases} 18 & 57.4 - 27 & 20 & (1900 \text{ or}) \\ 18 & 57.6 - 27 & 8 & (1900) \end{cases}$

No. 62

Probably
is this Var.

See Bls. 46, p. 113

?

No. 63

July 17
on A Plates
not on MF
mbd on 8986

Asteroid ? on A 8986

This looks almost like two stars,
but not round images — Divided

198

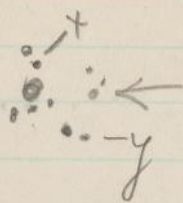
Position measured
Bb. 39, p. 211

Also = 190 on A 8370

Region 18 24-23 and fol.

18 38.5-28.5 B 33776

No. 64

July 19
on plates
not on M+

M-don 8986 and

Pr = brighter than x
It = about = y(inside of limits
of x but S of d)Pr. 2736
2752

Medium B 32076

It A 8986
B 33776
A 8370Too ft
B 5266
3868

→ Limes 18 38.8-28 28 Range
12.2-17.0

also faint near

18 38.0-28 14

15.0 - < 16.5

Look up again,

199

No. 65

18 44.5 - 28.6

mbd on 8986, al
A 2736 al
B 26257

July 19

Faint Asteroid?

on A plates
not on WH

Probably a ft. variable. A ft. star is in
same position on 2736

Br. A 8986

Ft A 2736

Br. on poorer plate
... = ?
..

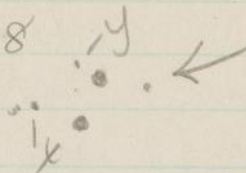
Do both stars change a little?

200

Leave for more material 1928

Region 18 24-23

No. 66 18 45.2 = 28.8

July 19
on plates
not on MF

Br 8986

Perhaps 8370 edge?

6124 ?

Fair range but quite ft
* Slight chMkd on A 8986. and
A slight change ^{B 26257}
~~which seems real.~~Br = nearly as br. as y
Ft = a little fainter
than y

Ft. 2736

B 32076

28160

Leave for more material 1928

201

No. 67

44.6 - 29.0

→ A ft star
Msd on A 8986 (NS) and
2736 and
B 26257

July 19
on A plates
not on MF



Br. A 2736

Ft 8986 ~~(NS)~~

Doubtful
6124

Too ft for B pl -

Probably ft 8370 edge

202

~~Has confirmed~~ Position meas. Bb. 39, 1948196Confirmed by
M.A.S.

No. 68

Region 18 24-23 and fol
18 55.5-28.4Rather small range
and very ftJuly 19
on a plates
not on MF

Mkdon A 8986, B33776
and 2736 B33776

Bar is fainter than x

Proof

Bar a 2736

B 33776* ft stars
a 6124

7 ft 8986

B 26257 x seen V 11 S

32032

32076* show ft stars

Magn 2.

15.0

[16.0

~~Have confirmed~~

Position measured, Bb. 39, p. 195-203

Confirmed by M.A.G.

No. 69

18 57 - 29.6

·
·
↑

Small range

Mbed on 8986 and 2736
B 33776

July 19
on a plate
not on M7

B₁ 2736

B 33776

Medium? B 32052

B 32076

a 6124

Ft 8986

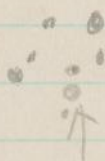
15.2⁰

16.0

204

Region 1824-23 and fol.

No. 70

July 19
on 2 plates
not on MFfollows very br. clay
Mkdon 8986
and 2736

Br. A 2736

NS 8986
6124

Object ?

Seen by Dr. S. Jan. 24, 1928

Comet, Defect, or Ghost ?

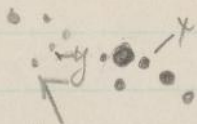
Confirmed by
Miss Cannon

Var 71a, see p. 220 | 205

Feb. 7, 1928 ~~Proc. Meas~~ Bk. 39, p. 204.

M. 71 18 49 - 29.3

July 19
on a plate
not on M#



Slight change
mld on A 8986 B 33776

brighter on poorer plate
Br = a little brighter than x
only few tenths change Ft = about y

Torron A 8986
B 28160 B 33776

Ft 2736
B 32076 ft?
A 6124

{ 15.8 ?
16.0 to 16.5

Confirmed by
Miss Cannon
as range of .5

206

Leave for present 1928

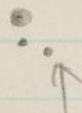
Region 18 24 -23 and fol

No. 72

18 46 -29.3

Mbd on A 8986

and 2736



{ Faint star.
 { Small Var. if real.

July 19
 on A plates
 not on M#

Br. 2736

Th. 8986

When measured,
 use star for 149 which
 is prec. of North.

B plates star, Seen about Medium
 Wait for more material.

A 6124?

Leave for present 1928

* slight

207

No. 73 18 44.5-29.9

July 19
in A plates
not on MF

• : ↙

Mbd on 8986 and 2736

th star but

some change.

Br. on plate which shows
th stars.

Br 2736

?

6124

Fr. 8986

Probably fr A 6124

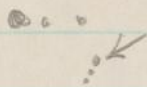
208

Leave for more material 1928

Region 18 24-23 and fol.

M. 74

18 42.5-29.6



July 19
on A plates
not on M F

Bright on poorer pl.
Fairly good range
for ft. star.

Br. 8986

NS 2736

B32076

33776

A6124

M. 75

Bright Asteroid m A 2736

July 19

on a plate

210

Proch Position measured, Bk. 39, page 46

Regim ^{h m} 1824 - 23 and fol. New Var?

No. 76 1841 - 24.0

July 19
on B plates

Mtd on
B23776 32076
and MF 9793A ft star ^{Fl. = limit of B pl.}
Pr = a little br. than X.

Br. B 32076

Fl 33776

Probably Br 26257 ^{but} ^{very fr.}

A 7370

Already mtd on

A 2842 X

A 7340

A 7370

A 7494

A 9376

Prof. B. ?

MF 97393 not Max

very fr MF 8519

B 30572 (104^m)

Image hazy? MF 9793

Probably two or more
stars, see 8770See image on 9740
and print

12.5 to 15.5

{ See Bk 39 for identification with -24 14707 9.5
This is CDM

✓
No. 77 18 39-24.8 \nwarrow
July 19
on B plates

Mkd on
B33776
and = 4 on MF9793

B33776

Same as No. 4, Bk. 37, page 85.

212

Position meas. Bk. 39, p. 187

Regin 1824-23 and fol. New Var?

No. 78

18 34-26.5

July 19
on B plates
 mixed on B 33776
and 32076 and
MF 9793 & A 2752

 Br = a little brighter than x
 Ft = much fainter than x
 Br. B32076
 A 2752
 A 8370

 Ft 33776
 * MF 9793
 Prob. ft 26257 (limit)
 Prob ft A 9870 poor.
 MF 8519

 Seen ft 8759
 " " 8766
 " " 8770
 * NS 9565

 Magns.
 13.0 to 15.0

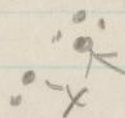
 Exam
 MF & A plates & B

 9589
 9597
 9656
 9663
 9691
 9747
 9779

A possible Nova?

213

No. 79
July 19
on B plates
not on M#



B. B 32076
Brighter than X
June 30 1903!

194-25.8

mbd on 33776 and
32076 and A 8986 (NS)

and A 2936 NS
640^m fl. shining ft stars

NS. B 33776

A 2736

8986

B 26257

32052 perhaps trace
June 24 1903

28185

30572

30573 (240^m)

5266

3868

10^m B plates
not good enough
exam, several,
no record

All plates
of dates near

exam. -15,
18, 19, 20 - 30

do not show nearby
stars.

No proof

214

See rough

position
Bk 49 p. 1145

July 19

on B plates

not on MF

B 32076

June 30, 1903
shows very faint stars

See also 88

A good star image

Nova?

May be a very faint star on
A 2736

Not P Comp.

B 32160 July 12 18 NS

B 32050 June 24, 62 NS

B 32031 June 22, 61 no trace

on plates, Star too faint for
these exam. — no proof.NB B 32052, June 24, 60
shows ft stars near but
no trace of this.C O A 6475 July 28 1903 60^m no trace

B 32257 NS July 16, 63

Nova? Nothing can be proved *?

Region 18 24 - 23 and fol.

18 56 - 27.8

Large range

Mtd on B 33776 NS

and B 32076
and A 2736 NS

NS B 33776

A 2736

A 8986

B 26257

A 6124

B 32052

Proved Var.

B 5266

B 3868

A very faint star may be
this star on 6124
Ident. closely, if neededAM 1470 July 14^{year?} shows
ft stars but not this

| | | 1903 |
|-----------------------|---------|------------------------|
| stars of this magn NS | AM 1952 | May 18 60 ^m |
| " " " " trace only | 1917 | May 6 60 |
| " " " " NS | 1960 | May 19 61 |
| " " " " NS | 2109 | July 12 69 |
| " " " " NS | 2085 | July 1 66 |
| " " " " NS | 2129 | July 15 60 |
| " " " " NS | 2147 | July 23 73 |
| " " " " NS | 2244 | Sept 1 61 |

See Bb. 49, p. 12.

No 81 18 37.5 - 28.3
 on B plates
 July 19

mbd 33776 (N.S.)
 and 32076

∴ ←

B 32076 June 30 1903

N.S. 33776

26257

A 8370

A 2752

A 6124

7737

8986

2736

B 3868

B 26257

? See Innes obj. — 18 38.0 - 28 14

{ Just too faint for
 { Am plates

1903
 Is it same star? B 32016 faint
 32042
 find ~~32052~~ 19h
 32076 above
 B 32407 trace? Aug. 12, 1903

1903
 Am 1917 May 6 N.S.
 1952 May 18 N.S.
 1960 May 19 N.S.
~~2082~~
 2085 July 1 N.S.
 2127 2147 July 23 N.S.
 2244 Sept 1 Perhaps seen
 2261 Sept 3 N.S.

216

Position meas. Bk. 39, p. 183⁶Region 18 24-23 and fol. Var⁷

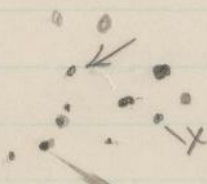
No. 82

18 33-28.4

new Var⁸ mtd 33776,
32076

July 19

on B plates

Just off S edge of
M⁺ Pl.

Br = about

Fl = N S on fine A pl.

See detail of faint stars near, 39, p. 183

Br. B 32076 *

Fl 33776

Cut stars on
B 20359

A 8370

26257

N S A 2752 *

Meas 8370

Fl B 26257

Seen fl B 27184
3868

8370 13.8 ?

2752 [17.0

8370 I had
to take a
star N to get
into range of M⁺ plate
for magn.

Independently found on A plates, Var 184, Bk. 40, p. 106

Index 42 = 18 31 30-28 466 (1875

82 = 18 31 32.4-28 20.3 (1875

Not same star

Look up further for Innes list.
Position meas. Bb. 39, p. 220.

X

No. 83

18 34-28.7

~~Var~~ Var? Large range

July 19
on B plates

→ 0.0 - x. y

•
•

Mhd B33776

Br = Much brighter than x

#t = fainter than y

Ft 32076

NS 26257

33494

Ft not Min 3868

Very ft 28160 *

27184

Very ft a 8370
y seen

ft stars
are very close.

Be sure Br. 33776 1904

that these are 5266 1890

not mistaken

for Var. when

meas. for

magnus.

see below

A 2752 1897

18 33.1-28 46

11.5 to 13

Innes

* This Var. (above) has much larger range

Found independently Bb. 40, p. 113 Var. 191 on A plates

•
•
•

on A 2752

12.5

16.5 or 17.0

218

Mab saw this

No. 84

Region 18 24 - 23 and fol.

New Var?

July 19
on B plates

x - 1.8 38 - 29.2

mbd B 33776

Seems a
true star image

Quite bright

May there be slight
motion?

Br. B 33776 May 19, 1904 NS 32076 shows ft stars

26257

27184

3868

28160

A 8370 shows ft. stars
no trace

also 2752

Am 2746 480^m distinctly
June 14, 1904 shows this group but this
star is NS2756 June 18 60^m does
not show as ft stars2639 May 7 60^m does
not show other ft starsStar x is not limit of Am 2639 but is very ft.
On 33776 even y is brighter than No. 84.

∴ 84 was not so much brighter than 33776 on
May 7 but cannot prove that 84 was not
as bright as y.

Lookup

Sometimes X

for

Asteroid

No proof.

Apparently an object with slight motion, or a
defect, — for a Nova.

Lease 1928

This region continued, Bk. 40, p. 7.

219

Position meas. Bk. 39, p. 206.

M. 85

18 50 - 29.3

Msd 32076, 33776
and A 8986

Small range.

July 19
on B3 plate

Br = br. stars x

2 stars?

Br. B 32076 June 30, 1903

Ft B 33776

Faint & hazy A 8986

Doubtful
3868

Perhaps Br 32052

~~A 2736~~
6124If this is proof it would
be same Max. as 32076

B 5266

28160

26257

Lease for further material

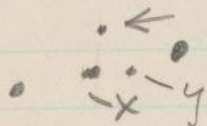
See page 220. Apparently
A 2736 was not exam correctly
Sept. 1897. Br. and proof ✓14.2⁵ }
16.0

Feb. 8, 1928.

Var 71a

N fol 71

Assume found
July 19, 1926
see note →



mbd a 2736, 8986
Apparently was marked
on A plates when 71 and
others were, but no number
assigned. ^{my} Arrow was found
against the star when 71
was meas. Feb. 1928.

Assume that no. was overlooked,
giving 71 a date of 71 and
try to prove Var.

Looks like Br = brighter than x
double image? Ft = nearly as ft as y

A 2736

A 8986

This is Var. 85, found on B plates, page 219,
and gives proof.

1926phae.proj.1216a