1926phae.proj.1219w

KG
11366
217

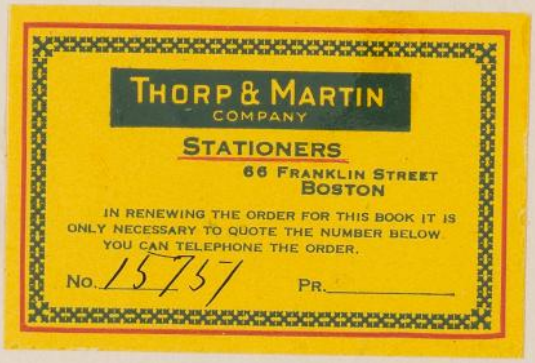
Ida E. Woods
Book No. 41
Miscellaneous Milky Way Regions

Page 100 18 9-30

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KG 11366.115

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Harvard College Observatory

Ida E. Woods

Book No. 41

Examination of Miscellaneous
Milky Way Regions.

See Index

Continued from Bk. 40

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1926phae.proj.12178

18 9 - 30

Sequences

42 Ks 34 : 120 B 44677

158 K 18 22 -30 34 : 50 B44678

RT CrA 18 39 -38 52 45 : 129 B11789

— K 18 48 -44 58 34:74 B45552

NrA Sag. b

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1926phae.proj.1219

Kapteyn
marked also as A 4474

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KG 11366.215

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# Milky Way Region $18^h 9^m -29.9^\circ$

From Available Plates.

Bb 37, f. 100 1924, 1925 Plates, MF 31 no. or less

| | | | | Exp. | 2 | |
|---|---|---|---|---|---|---|
| f 130 | MF | 10142 | April 20-21, 1926 | 45 | 4i | 24626.891 |
| | | 10147 | " 21-22, " | 45 | 3- | 4627.902 |
| 133 | | 10148 | " 24-25, " | 45 | 3i | 4630.902 |
| | | 10272 | May 18-19, " | 45 | 4 | 4654.847 |
| | | 10347 | June 11-12, " | 45 | 3i | 4678.750 |
| | | 10356 | " 12-13, " | 45 | 3i | 4679.777 |
| 41, 136 | | 10366 | " 14-15, " | 45 | 5 | 4681.783 |
| | | ~~10381~~ | ~~" 16-17, "~~ | identifies | | 17.2 -35' |
| | | 10391 | " 17-18, " | 45 | 5 | 4684.780 |
| | | 10399 | " 19-20, " | 45 | 3 | 4686.776 |
| | | 11634 | May 12-13, 1928 | 45 | | 25381.632 |
| 10356-47 | | 11649 | 15-16 | | | 5382.629 |
| | | 11676 | 17-18 | | | 5384.594 |
| | | 11745 | 22-23 ? | | | 5390.560 |
| | | 11758 | 28-29 | | | 5395.534 |
| | | 11845 | June 16-17 | 45 | | 5414.527 |
| | | 11898 | " 21-25 | 45 | | 25419.459 |
| | | 11691 | May 18, 1928 | | | 25385.627 |

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May 14? pc card

May 23? " "

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1926phae.proj.12178



18 9 - 29.9

| | | Eq. | |
|---|---|---|---|
| 12149 | Aug. 6, 1928 | 45 | 24 25465.345 |
| 12231 | Aug. 20, " | 45 | 25479.336 |
| 12257 | " 22 " | 45 | 5481.297 |
| 12287 | Sept. 6 " | 45 | 5496.270 |
| 13082 | May 7 1929 | 45 | 5739.620 |
| 13139 | " 18, " | 45 | 5750.606 |
| 13235 | June 12, " | 45 | 5775.520 |
| 13257 | " 14, " | 45 | 5777.565 |
| 13334 | July 8, " | 45 | 5801.431 |
| 13383 | Aug. 3, " | 45 | 5827.382 |
| 13432 | " 12, " | 45 | 5836.312 |
| 13514 | Sept. 9, " | 45 | 5864.291 |
| 13527 | " 23, " | 45 | 5878.232 |

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10 1926

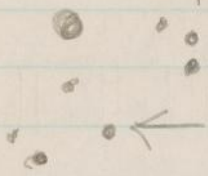
Continued from Bb 37, page 169

M.W. Regin 18 9-30

M. 60 18 41 -31.7 Large range

Sept. 10 Mbd A 2673 and B 13581

on A plates



Br = about = x

ff = barely seen

Br A12380

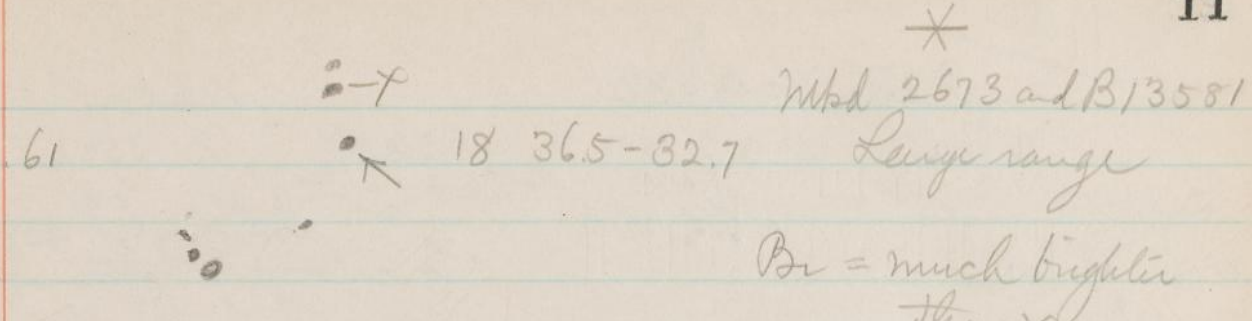
A 12458

Very ff 2673

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1926

Regin 189-30 Mkd on A2673 ad
M. 62 1830-32.4 B 13581
Sept 10 ⋮ as bright as x
on 2 plates Br = ~~brighter than~~ x

Br. A2673 NS 12380
12458

This Var. or one very near
found independently by
Dr. Leyton — marked A12380

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1926phae.proj.1219w



Proper Motion? Dr. Leuschner says this

Nikdon a2673, 12389, & B13581

No 63 $a_{2673}$ 18 30.2 −32.6

Sept 10 = $a_{12380}$

on a plate

same star, change of position

See Times, several Vars. near this position.

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1926phae.proj.12199



Regin 1899-30

No. 64

Sept. 10
on a plate

Cluster = NGC 6637 (M69) 18 25-32.4

Probably a bunn Cluster Var.

Apparently this Cluster has not had plates for examination.

Var Br. 2673 Perhaps not much change, not more than diff. of the 2 a plates.

Br 12458

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1926phae.proj.12190



Meas. 65, 66, 67 together, if possible?

Mkd on B2673 and 12380
and B13581
a faint star
Br. = 4
Ft. = n S

No. 65 18 19 - 32.4

Sept 10
on a plate

Probably not variation but diff. in the two plates

Br 12380
12458

n S 2673

1926phae.proj.12190

16 ?

Several ft stars surrounding Var

Position measure
Bk. 49, f. 72

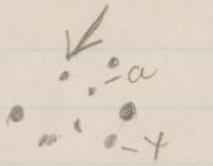
Nova ?

Region 18 9 -30

No. 66 18 18-325

Mkd A2673 & B13581 and MF

Sept. 10 on a pl.




Br = slightly brighter than 4

Very ft = FF

Bright on poorer plate

Br
A 2673

Mkd Meas. 2661 Aug 23, 1897

FF 12380
12458
MF 8679
A 12490
A 10772
A 10615
6050 262m
12418

This is a very faint star on A 12458 with several more faint stars close to it

B 30513
about = a 1902
23745 300m
very ft

N.B. Patch of disturbance? June 1897
19448 10m N.S
32032 60 ft
10m plates do not show this star

| MF 8762 | MF 9427 |
|---|---|
| 8505 | 9462 |
| 9041 | 9479 |
| 9053 | 9493 |
| 9151 | 9494 |
| 9179 | 9495 |
| 9200 | 9521 |
| 9215 | 10142 |
| 9233 | 10146 |
| 9273 | 10272 |
| 9290 | 10347 |
| 9355 | 10356 |
| 9383 | 10366 |
| 9400 | 10391 |
| 9410 | 10399 |
| 9412 | |

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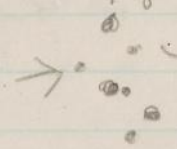


Position measured, Bk. 49, f. 73.

Mkd a2673, 12380, and B13581 & MF

No. 67 18 19-327

Sept 10



a ft star
Br = a little brighter than x
Ft = N.S.

Br B12380
12458
MF8679

Medium 9521
10142
10148

a2673
2661
6050 262°
12490 MF9462
10615 9479
10772 9493
MF8505 9494
8762 9495
9041 10272
9053 10347
9151 10356
9179 10366
9200 10391
9215 10399
9283
9273
9290
9355
9383
9400
9410
9412
9427

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1926phae.proj.12190



Positions measured, Bk. 49, f. 74.

Risorck Regina 18 9 -30
No. 68 18 15.5 -32.8 Mkd a 2673, a 12380
Sept. 10 and B 13581 & MF
on a pl.

Br. = brighter than x
brighter, still, on B 13581 ?

Br. a 12380 F/ a 2673
B 13581
a 12458
2661
6050
12099
12490
B 32032
B 30513
MF 10142
10148
MF 8505 8679
9041
9043
9105
9151
9179 May 23 9200 May 25 1925
9215 May 27

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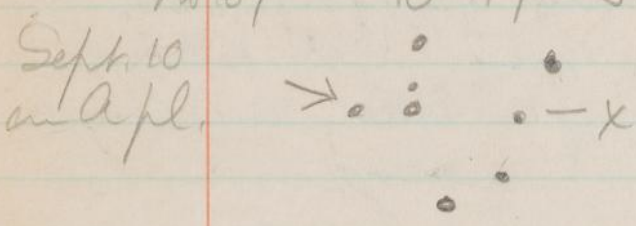


This is same as No. 31 ~~XX~~ Probably same

Used on a2673, 12380 and B13581

No. 69 B 17 - 33.4

Sept. 10 on apl.



Br = about = x
Ft = NS

Br. a 12380 a2673
B
a 12458
a 2810 (10 min)
Innes 18 17.1 -33 26

→ For position, see Bk. 49, p. 47

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1926phae.proj.1219w

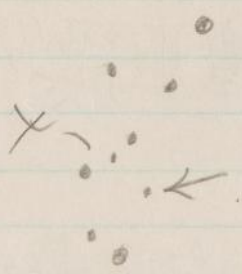


Star near, variation noted later, see Obj. 136, page 90
proves to be Known

Regin 18 9-30

No. 70 18 21-33.7 Mlsd a 12673, 12380, and B 13581 by MF

Sept. 10 on a pl.



very a ft. star, not large range

Br = a little brighter than X

Ft = trace, plate not very good

Br. a 12380
12458

Ft. = a 12673

N S B13581 when X shows plainly.

This star too faint to force by best B or MF plates Hold —

MF 8679
8505
9041
9053
9151
9179
9200
9233
8505
9053

these are nearly probably all brighter

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1926phae.proj.12194



Lease for present?

No. 71 18 29 - 33.5 Mbd a 2673, a 12380 and

Sept. 10
a a pl.

Perhaps slight change

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1926phae.proj.12190



Omit for present

Regions 18 9-30 Mkd a 2673 and
No. 72 18 33-33.7 B 13581
Sept 10
a pl.

Br = a trifle brighter than X

Br on poorer plate
Too faint to Br a 2673 N S 12380
prove with B 13581
present material a 12458
12490

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1926phae.proj.1219w



Lease for present
No. 73 18 31.5 - 33.7 Mbdh A 2673 and B 13581
Sept 10
on apl.

Possibly a slight change. Not verified on second examination. Probably no more than diff. between two plates

H 12458 ?

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1926phae.proj.1219W

24 ✓ Position measured Bk. 49, p. 88

Regin 18 9.-30 K 18 39.5 — 34.0

No. 74 Large range

Sept 10 mkd a 12333 and 13581

a pl. a 12380

get lightcurve 1923 to 24

Aug 26, 1894

Br. Trace a 26 73 14163

a 12380

12458

65 Innes — no letters 18 39.5 — 33 59

18 37.9 — 34 0 (1875) Minn Cir. ~~152~~

a 12490 July 4, 1923 Trace a 13085 Sept 16, 1924

12418 June 6 1923

Innes 24, 8916 + 289 d "but weak. Per. is some sub-division of 1734 d"

Sept 1, 1910

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✓

Probably a known Var, a Nova?
Bright
Very Large range
Mbd A2673 and
B13581

No. 75 18 32.5 -33.2
Sept 10
Lapl.

Same star at 18 32.2 -33 5 —— no
letters — Union Cir. 37 12.5 — 15.5

Same star?
Br A 12380

NS, A 2673
A 12458

→ Looks like defect

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Position measured Bk. 49, p. 89

Regin 18 9-30
No. 76 18 37 -34.3

Mkd a 2673 and B 13581
Large range

Sept. 10
on a pl.

x
→ y

Br = x or a little brighter

Br a 12380 Medium
~~12458~~ 13085

very ff
~~12458~~ a 2673
12458 about = y
12418 " " "

Medium & ff
show change —
no Max found
on these plates except
12380

Dunlop 56 18 35.2 -34 16 13.0 t < 17
P 2418883 + 305 d

1926phae.proj.12194

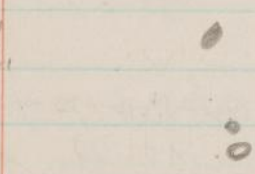


Look up Position meas. Bk. 49, p. ~~59~~ 91 ×

New AN 16296

No. 77 18 26 – 34.7 Mkd a 2673 and B 13581

Sept 10

on a pl.  Very bright, large range

24123560 Br a 12380 May 20, 1923 Probably NS a 2673

[this stars? if so, rates N. and the S one appears in ~~12380~~ 12458] Both appear on 12380

a 12458 no trace ≡ 2661

See Innes, 18 25.4 – 34 46

No. 15 18 23.7 – 34 47 1875 10.6 to 14.7

Per. 2418916 + 376 d. see note U.C. 37

a 13085 see for first

9025

12418

12490

2673

9040

2810 10m

9

This seems like a defect on 12380 and is not yet confirmed. Probably Innes' star is still another Var.

[Dr. Fisher thinks this not a defect]

Nova 1923?

AN 16262 – May 21, 1923 does not show Object

16296 June 5 " " " "

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28

Position measured, Bb. 49, f. 99 ✕

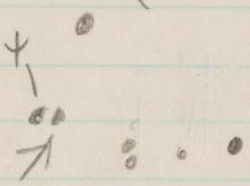
Regin 18 9 -30

No. 78

18 27 -35.2

Sifter 10 on a pl.

Mbdm a 2673, a 12380 and B 13581 a 4474



Br = ~~about = ✕~~ " brighter than ✕

Br. 12380
✱a 4474

~~Br~~ Trace 2673 ?
Seen, faint, 12458
B 13581
Trace 12490
9025
13085
9040
B 32032
B 23750
3696

get more proof or have conf. Faint plates show change

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Position measured, Bk. 49, p. 93. *

Mkd on A 2673, 12380, and B 13581

Good range

No. 79 18 23 -34.9

Sept. 10 on a pl.

∴ ½-y

x-

z-

Br = brighter than x, not quite = z

Ft = y

~~Ft 2673~~

Br. 12380

12458

13085

Ft. 2673

US B13581

B 32032

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Position measured Bk. 49, p 96

Corred Regin 189 - 30 etc Mlad 4474 3696
No. 80 1816 - 35.7 B18581

Sept 11
an a pl.

a 3696
4474

$B^{a}$ 8696
B13581
Meas —— A9025
B23750 116″
* B19448 10″

$NS^{a}$ 4474
NS 6050 262″
B32032 60″
NS B17093

1926phae.proj.1219w



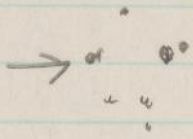
Position measured, Bk. 49, f. 97

Pwrd

No. 81

Sept 11
on a pl

Mkd 4474 B13581
3696



18 23 -35.4

Mem — Br 3696
B13581
23750 115m
32032 60
probably not Max

proof? — not Max but change

Ftn
NS4474
Ft but seen 9025
A6050 262m

*
N. B. Min.
H may give
def. Magn. [Innes 9 18 20.8 -35 27 (1875) 15.5 to inr.

2420330+485d. (Possibly 243 or 162 d)

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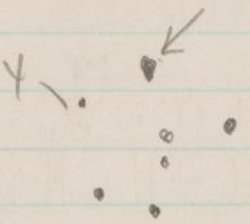


→ Same star as 79, p. 29

18 9 - 30 Regin 18 9 - 30 Mkd 447 F, 3696

No. 82

Sept 11 on a pl



Br = much br. than X

Br.
α 3696

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Mkd 4474, 3696 B 13581

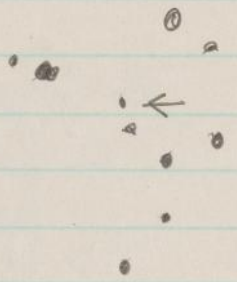
No. 83

Sept 11

2 a plates

looks like defect ? on a 3696

or hazy obj ?



a 3696

N S4474

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1926phae.proj.1219w



Position meas. Bd 49, p. 100 Is this a ft Nova? *

Regin 18 9 - 30 Wkd 4474 B13581

18 26 - 35.1

No 84

Sept 11 on 4 plates

x — . • •

: .<

•

Br a 4474

Good range

Br = slightly br. than x a ft star but br. on poorer pl.

NS 3696

9025

9040

13085

2673

12490

12418

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1926phae.proj.1219w

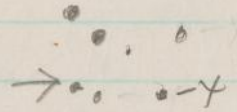
Position measured, Bk. 49, p. 100.



Mkd 4474 B13581

No. 85 18 27 -35.1

Sept 11 on 2 plates




Br = nearly = X

A ft star but on poorer pl.

Ft = NS when y is clearly seen

Br a 4474

n S 3696

9025

9040 probably barely seen

13085

2673

12490

12418

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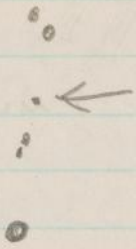


Regions 18 9 - 30 Mkd 4474, 3696 B13581

No 86 18 30 - 35.5

Sept 11 a ff star

on a plates



Br 3696
B13581

NS 4474
9040

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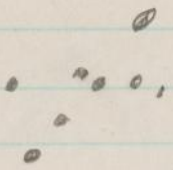
1926phae.proj.1219w



Mlsd 4474, 3696 B13581

No. 87 18 31 -35.3

Sept 11
on a plates →



A very ft star

Br 3696
12418 near edge
*12490

4474
9040 very ft

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1926phae.proj.12194



Regim 18 9 – 30

No. 88

Sept. 11
on a plate

which star?
slight var.?

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1926phae.proj.1219w



Position measured
Bb. 49, f. 98

XXX

Mbd m 4474 B13581

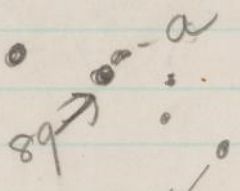
Note 2 plates — Large range

The S fol star?

Does a vary so?

No. 89 18 35.5-35.0

Sept 4
on a plates




89 Dr m 4474
a 13085
a 12418

Meas. ——

Innes 145 18 34.0-35 6 12.2 — ∠17 (1875) a

Br. 12490
9025
12380
12458

NS 3696

Probable NS 10241 258m
Extreme edge, only 1 star seen -

NS 10242 240m

NS 2673

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Regim 18 9 - 30

No 90

Sept. 11
on a plates

looks like comet?

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1926phae.proj.1219w

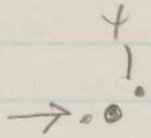
Enough proof? Position measured, Bb. 49, p. 101 41

18 36 -35.8 Nbd A4474 B13581

No. 91

Sept 11

on a plates



Not large range

Br = nearly = x

Br A4474 (poor pl)

Meas — 13085

Too poor

9025

Medium a ft

9040

F but seen A 3696

10242

10241

Probably Min B23750

1926phae.proj.1219w



not fitted Omit

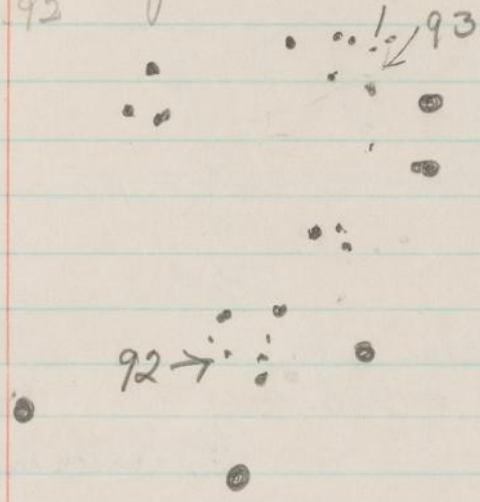
Regn 18 9-30

18 20.2 -35.8 Wbl 4494
Pl 3581

No. 93

Small range but br. on
lower fld —
a very
faint star

Sept 11
on a pl




Br. a 4474

Ftr NS 3696
very ff 90°

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1926phae.proj.1219M



Not found Omit

18 20.6 −36.0 Mkd 4494 B13581

Good range
Br. on fooler pl.

No. 93

Sept 11
on a pl See f. 42

5-7-93

Br a 4474

Ft on NS 3696
2 is doubtless the
star seen on 3696
wlers var is very ft. and
combines with the
elongated image

NS 9025
6160

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1926phae.proj.1219



Regim 18 9 - 30 Mbd 4474 3696

No 94 Probably defect on 3696

Sept 11
on a pl

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1926phae.proj.1219w

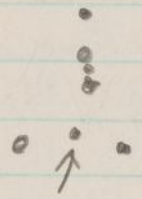


Omit  Look up on new plates —

Mt W 4474  B13581

No. 95  18 24 — 36.4

Sept 11
a bpl



Br on prover pl
a very ft star

Br 4474

TW from
13085

N S 3696
Probably N S 9025 images near
are very few

1926phae.proj.12190



Omit

96 pree S 95

Regin 18 9-30

Nbd 4474 B 13581

No 96

18 23 -36.5

Sept 11

Not large range

an a pl

a ft Star

fainter than ~~y~~

Brighter than ~~x~~

B on poorer pl

Ft 369

Br a 4474

Perhaps abnt Mar 9025

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1926phae.proj.1219M

Omit



18 27-36.7 Mkd 4474 B13581

No. 97 ↓ ° Not large range
Sept 11 ° ° -x Aft star
on a pl ° ° -y Br. on poorer pl.
Br = Nearly = x
Fter thang

Br 4474 Ft 3696 Seen 13085
Ft 9025 very ft or fm
Ft 13085 corner?

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1926phae.proj.1219M



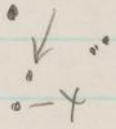
Unit

Regin 18 9-30 Mkd 4474 3696

No. 98 18 32.5-36.4 A ft star but fair range

Sept 11

on apl



Br = abmt = Y

Br 3696

very ft 7474

Ft 13085

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1926phae.proj.1219M

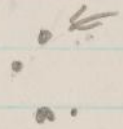


Unit

Mbd a 4474
Small range

No. 99

Sept 11
maple



Br. 4474

Ft. 3696
Probably ft 13085

Too far
9025

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1926phae.proj.1219M

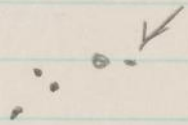


Unit

Regin 18 9 - 30 Mkd 4474

No. 100

Sept 11
on a pl



Small range

Br. 4474
13085

Fk 3696

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1926phae.proj.1219M



Omit

Mkd 4474 3696

No. 101

Sept H

map

Br on fewer pl.

Br = brighter than y

Fr = fainter than y

Br 4474

Fr 3696

13085?

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1926phae.proj.1219W

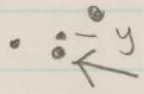


Position measured, Bp. 49, p 102 *

Regin 18 9 - 30 Mkd m 4474 B 13581

No 102 18 39 -36.7 Good range

Sept 11
a pl




Br on prover pl.
Fr = y or fainter

Br A4474 — Medium 10242 — Ft 3696
chem diff. — 10241 — NS 9040
13085

1926phae.proj.12190



103 fol S 102 See ft stars near on fitter plate

Position measured XX Bk.49, p.103

Mld 4474 13581

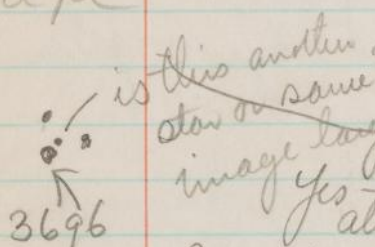
Large range

No. 103 1842-36.8

Sept 11 on a pl

Br = nearly = 4

On poorer pl




all faint A 13085

Br 4474 June 21 1900=2415192

BB 13581

A 10 241

Mens 13085 10242

See note ft star 3696

Same or another close?

if another star (and it seems closer to prec. star) Var is N S on 3696

Ft 13085

NS 9.040

Ft 13085

NS B 12138

This mld surely show on B pl. if Max.

Dmes 155 18 40.2 -36 50 (1875

W 103 = 18 40 24 -36 50 (1875

Dmes 11.5 to 16.5 Per. = 2420713 + 205 d

2415192
2420713

205) 5521 (27 ✓
410
1421
1435

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1926phae.proj.12190



Regim 18 9-30

No. 104

Sept 11
an apl

Probably ft on 4474
because edge of film

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1926phae.proj.1219w



Need not measure
See Waterfield in
HB 854

YY Cord
Innes 43 Lacaille a n 232, 357
YZ Cor 44

18 34.5 −37.2 4474 B14498

No. 105

Var already mkd

Sept 4
on a pl

Var
already marked; not given
* Br 9040 7h 13086
6160
3696

See sequence
close of
a 3696
4474
* 9025 very br.

105 = Innes 43 = YY Cor a
2nd Var = " 44 = YZ Cor a
(fol)

Where? identify
See also, Algol of Waterfield, HV 4158, HB 854

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1926phae.proj.12166

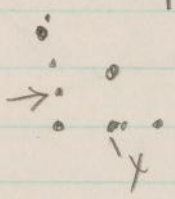


Leave -

Regin 18 9 - 30 etc  Nbd a4474 B23776

No. 106  18 24.5 - 37.8

Sept 11
on a pl.



Br = brighter than x
Br on Groom pl

Br a 4474
Probably br 9040 edge, poor

Ft a 3696
NS B23776 (270°)
edge 9025 very ft, if seen
B17484
a 13086 probably ft
B17239

Short exp B pl
not good enough
for prof

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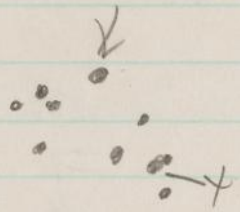
1926phae.proj.1219w



Nova?

No 107

Sept 11
ambpl.



× Reg

Mkd a 4474 B23776

18 ~~24.5~~ 18 -38 6.1

Large range

Br = about = x

Br in pencil

NS 3696

NS B23776 1899 (270m)

NS 9025

17143

17484 1896

17239

16165 good for ft stars

June 21 A 4474 1900

Find B25389

Reg mkd a AM 2085 1903 find 1900

AM 577 Aug 2 1900 Too poor. Center -23 25 get one if possible -30

any AM ? Best g -30 & -45 efam. Too ft

17652

11940

*c

Find B25521 June 2

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1926phae.proj.121SW

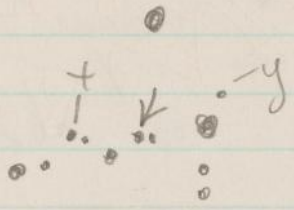
58

Position measured, Bk. 49, f. 104.

Regin 18 9-30 a 4474 B23776

No. 108 18 16.5-38.6

Sept. 11
on a plates




Br = a little brighter than x
Ft = fainter than y
Br on poorer pl.

Small range between 3696 & 4474. See 6160 very much faint

Br 4474
B 23776 270m
B 17239
23753 116m
17440
16165 June 5, 1896

Ft 3696
17452 1896 Oct 13
17484 " Sept 28
6160

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1926phae.proj.1219w



No. 109

Sept. 11

x m a plates Asteroid on A4474

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1926phae.proj.121pw



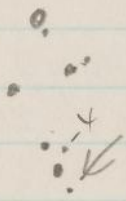
Position measured, Bk. 49, p. 108

Regin 18 9-30 18 30.5 - 38.5

No. 110

Sept. 11 on a plates

H star not large range



Br = slightly br than X

Br on fainter pl

meas * A 4474 H α 3696

6160 13086 Barely seen

Object near, already mkd with Sequence, is RT Cor A
Br 3696 H 4474

Using RT Cor A Sequence
m 4474 110 is abt 15.5
" 13086 ~~170~~ " " ~~17~~ 16.5

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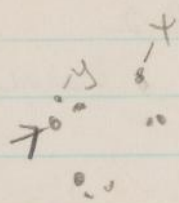
1926phae.proj.121pm



Proved Position measured, Bk. 49, f. 105.

4474 17239 B13756

No. 111
Sept. 11
on a plates



18 40 −38.1
Gordrange

Br = nearly = ✗
Ft = NS when y is barely seen
Br on fourth fl.

Too faint for even good quality short exp. B plates

A 4474
B 13756 Seen, but probably Not Max. Exp. 60m

A 3696
A 13086
NS B11329 y seen 85m Exp
B17239

B 13538 if star image is real this is specially bright.

✗ A 10242 brighter than 4474

<16.5 13086
14.0 10242

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1926phae.proj.12190

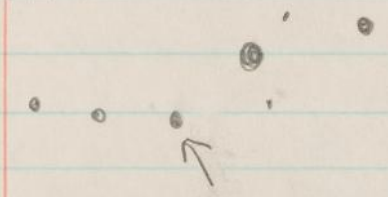
62 Position measured, Bk. 49, f. 94 X

Region 18 9-30 Mbd 4474 3696

No. 112 18 45-38.2

Large range

Sept. 11
on A plates



See Var. near,
No. 189, f. 186 3696

4474
NS 13086
10242 Mbd ?
10241 NS on Key pl
6160

just off edge of
special 8x10
A pl. taken for
NPC
6723

Is this Luyten? Apparently dot in O on 13086
is N of 112

13.0, 3696
~~16.0~~ 10241
<15.5 near edge. to Conf
Seq not very br. = 14.4

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1920phae.proj.1219w



No. 113
Sept. 11
on a plates

Edge of film on 4474, N.S.
Bright on 3696

Apparently not a Var.

By, already marked 10242

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1926phae.proj.1219W

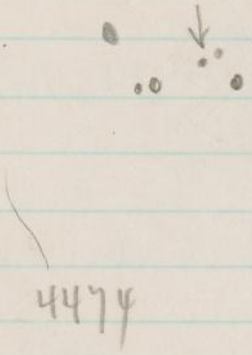


Lease for present

Regin 18 9 - 30 Wolf 4474 and B17239

No. 114 18 17 - 40.1

Sept 11 a faint star
on a pl A small variation
which seems real on the
two plates exam.



4474 3696

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1926phae.proj.1219w



Not fixed

Good range

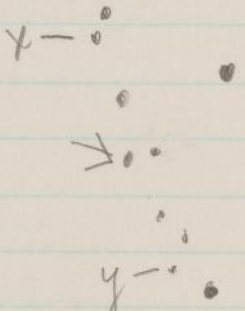
Mhd 4474, B17239

18 23 -40.0

No. 115

Sept 11

on a pl




Br on poorer plate

Br = nearly = x

Ft = slightly brighter than y

4474

No other plates about this date good enough to show obj. as faint.

Seen – B17143

Ft. 3696

B23776 270m

A13086

B13582

11760

Ft 14498

20478

17710

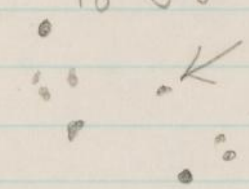
27648

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1926phae.proj.12194



Regin 18 9 -30
No. 116 18 58 -35.8
on (8x10) ap.
Cluster regn
Sept. 13



Mkdn 12571 and B13756
Very large range

BN 2571

Trace 12645
12662

This is No. 10 (nGC 6723) BD 45, p. 102
(Innes?)

1926phae.proj.1219M



**

Mkd on 12571 and B13756

18 47 -36.3

No. 117

Sept 13 on a pl

a 12645
* 12662

## A 12571

Found independently on other plates,
Obj. 124, page 78
N.S. 9491 (10m)

a 8867 (10m)

This is No. 8 (NGC 6723) B.D. -36°, p. 100
See for position, Bh. 39, p. 137

18 45.1 -36.3 W 1875
18 45.1 -36.2 Prager 1875

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1926phae.proj.12190

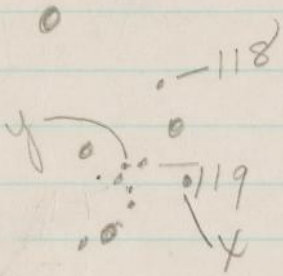


Cepheid?

Regin 18 9-30
No 118 18 47-36.4

Mbd a 12571 and B13756
Small range if variable
Very fr star

Sept 13
and pl




S fol of
2 close
stars
12563 obvs
both

B. a 12571

Med. a Ft
12662
12592 Aug 15
slightly
brighter?

Ft 12645
3785
12523
12563
* 12566 very ft
12586
* 12589 Aug 15
12595
12598 almost 15
Aug 16
12604 Aug 17
12609
12658 Sept 10
12664
12667
12669
12671
12672
12676
12679
12684 NS?
12715 NS?
12777 very ft

* 12656 Sept 10

See 12656-12658 same date
12609 & 12563 same min

12601 brighter
Aug 17

12624
brighter 12638

12691 brighter?

Are these known?

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1926phae.proj.1219M



If Special Interest? NB Dates.
Cephid? or Algol

No. 119 1847 -36.5

Sept 13
on a pl
Prod

See page 68

Mkd on 12571 & 12662
and B 13756

Very ft. star
Sm all range but seems
real
Br = X
Ft. = slightly brighter than y

Br. A 12645
12662*

12563 Br Aug 3
12566 Medium Aug 3
12571 Ft Aug 14
12586 Ft Aug 14
12589 Br Aug 15
12592 Ft Aug 15
12595 Ft Aug 16
12598 Ft Aug 16
12601 Ft Aug 17
12604 Very ft Aug 17
12609 Very br. Aug 19

12687
12589 -Aug 15
3785
12563 Aug 3
12609

Ft 12571 Aug 4
12586 -Aug 14
12523
12592
12595
12598*
12601
12604*

Medium
12566 Aug 3
Medium
12592 Aug 15

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1926phae.proj.12190



Regim

18 9-30 18 48-36.8

No. 120 y x k

Sept 13
a pl

? Only few tenths var,
Wkd a 12571, 12662 and B 13
Small variation
but seems real

Br. = fully as th. as x
Fr = much fainter than y

Br a 12571

Fr a 12645
x 12662

XX This is No. 4 Reg. 6723, Bk. 45, p. 99
See for position. Bk 39, p. 135

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1926phae.proj.12190



B 13756 18 49-378

No. 121 y

Sept 13 z

map x

Mkd a 12571 & 12662 and B 13756

a fr star and good ~~round~~ range ~~but~~ ~~seems~~ real var.

medium

~~Br.~~ a 12571 nearly = z Fr. a 12645 about = y

Br. * 12662 brighter than x

X

See Bb. 45, p. 104 This is No. 14, Reg. of N4C 6723

See for position

Bb. 39, p. 140

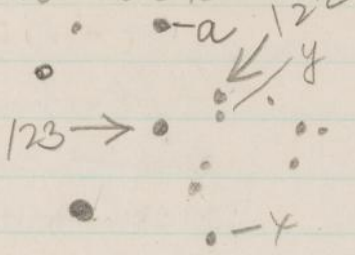
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1926phae.proj.1219W



Regin
18 9 -30 18 56.5 -38.5

No. 122




Sept 13
on a pl

B25507 NS
Used on A12571
and B13756

Br. = nearly = y
ft = ~~slightly~~ fainter than y

off edge of 12645

| Br. | ft | NS 13756 ft |
|---|---|---|
| A 12571 | | 12662 |
| 12586 | Medium | 12821 |
| 12595 | 12601 ? | 12672 |
| ** 12966 | 12777 | 12708 |
| 12601 | | |

Most of the NSC 6723 (8x10) plates do not quite cover

NS B25507 ~~is seen~~
13538
9410
10471
9411
11069
B13538
A10108
10241 ~~12574~~ NS (y seen)
B11329 (85m eff)
12921

Same star on B pl - checked by Maly

Watch ft stars close to bright stars

B11789 Aug 10 1894
12138 Sept 12 " a little brighter than a
12171 Sept 15 1894 much br. than a
11762 poor

Sept 12 1894

12138 very indistinct but bright if right star. and not defect

Many plates do not show nearly as ft stars.

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1926phae.proj.12190



Found between A & B plates

123 follows 122 and S

No. 123 18 56.5 -38.5

Sept 13

a a pl

See page 72

No. 124 cont. a

page 78

Marked on A 12571

and B 13756

Large range

Noted in marking 122 a

B 13756

*

NB. Near eptyme edge but is confirmed by several plates

Care must be taken with dates of Minima as star may not be completely eclipsed the eptyme edge, as 12966

Br A 12571
12586
12595
12601
12672
12607

Ft ~~a n s~~ B 13756
A 12821
12708
12777
* 12787
12966 ft but edge of film

Oct. 24/1893 B 10472 if star image

B
NS 25507
B 13538
9410
10471
9411
11069
B 13538
A 10108
1024/~~12577~~ Ft
10242 Ft
B 11329
11789
12921

Same star on B pl. — checked by Mag

Nova?

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Rl. Exam.

1926 M.W. Regin 18 9 -29.9

Plates examined. Continued from Bk. 37, f. 105

Sept 13 a 8867 18 36 -35 Only 11 60m eff.
9491 " 10 "

Only 1 60m plate in regin
9491 superposed Bk. 41, page 78.

Sept. 15 a 4474 18 32 -37.5
6160

6160 superposed
These plates are not comparable in faint stars. a 4474 has marked on it Vars. found by comparison with 3696. So these are not considered. A few more found. Bk. 41, page 79

Sept. 21 } a 2673 18 30 -32 this book page 91
22 } 12458

2673 superseded
see Bk. 37, page 105. 2673 already exam. Attempt to find still more Vars in same regin.

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Regim 18 9-30

No. 124

Sept 13
on apl

Mbd on A 9491 and A 8867
~~and~~

Br. 8867 N S 9491
Same as No. 117, page 67

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No. 125

Sept. 15 Defect on A 4474

on a pl Perhaps reflection from very bright star which is directly north of this?

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1926phae.proj.1219w



Positim measured, Bk. 49, f. 106

Regin 189-30
No. 126 18 37.5-35.4

Sept 15
a pl

a 4474
Used in a 6160 and
B 14498

Aft star
B1 = not quite as bright
as y

B1 6160
10242 Comer
10241
mem? — 9040

Ft but near 4474
NS B 14498
13085

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1920phae.proj.1219w

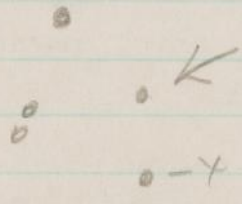


Position measured, Bb. 49, p. 107.

a 4474
Mkd 6160 ; B14498

No. 127 18 37.8 −35.3

Sept 15
on a pl




a ft star

Br = a little brighter than Y

Ft but seen 4474

Br 6160
Probably about Max B14498

10242 corner
13085
10241

9040
Med?

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1926phae.proj.12194



Regin 18 9-30

No. 128 4 . . 18 16.2 -36.5

Sept 15
a dpl

4474
Mkd a 6160
and B14498

Br = much brighter than K

Br 4474
3696

Ft 6160
9025

Tow ft fm
B pl

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1926phae.proj.1219w



4474

No. 129 18 15-36.9 Nebd in 6160 and B14498

Sept. 15
on a pl.

Br = nearly = x

Seen on Some B pl, but rather faint to prove.

Br 4474 Neb or Br? Ft 6160
B14498 B30513 188m 9025
3696
Probably NS B23750 116m
" " 32032

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1926phae.proj.12194



Enough prof?

Regin 18 9 -30

No 130 18 34 -36.9

4477

Mbd 6160
and B14498

Sept 15
a a fl

x — o : : ← y

Br = a little brighter than x
Ft = n S when y is
seen

Br 4474
* 3696

Ft 6160
9025

Does it plus
up in 60m
B13756

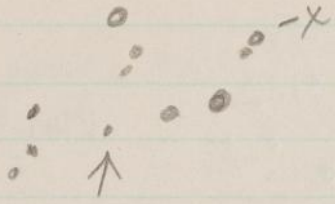
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1926phae.proj.1219M



No. 131 18 20 −39.0

Sept. 15
a pl




Mkd a6160 and B14498
aft. star
Br = brighter than x
Ft = ns

Br 6160

Ft 4474

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1926phae.proj.1219w

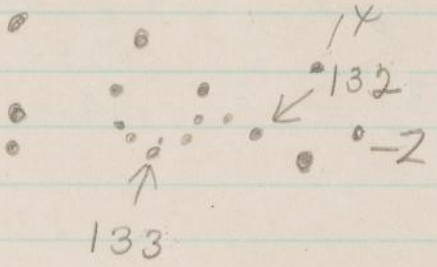


Too faint — Leave for more plates

Regn 18 9 -30

No. 132 18 39.5 -37.0 Mbd 6160, 4474, B14498

Sept 15 on a pl




very faint
Br = a little brighter than X
Ft = barely seen

132 Br 4474 Ft 6160 (~~seen~~)
Perhaps seen, limit of pl., B14498
NS

1 ~~Probably~~ ~~Southern of two~~

10241 } prob. as br.
10242 } as 4474

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1926phae.proj.1219



No. 133 18 39.5 -37.0 mlsd 6160, 4474
and B 14498
Sept 15
an a fl See page 86 fairly good range

Br = nearly = ~~Z~~
~~Ft~~ = fairly seen
NS? ~~Ft~~ 6160
~~Very~~ ft but seen 3696
seen, very ft 13085
90 40 ft
10242 Aug 28

133 Br 4474
probably middle
~~probably south~~ ~~of two~~ of three
10241 Aug 27
See 3696

Cepheid?

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1926phae.proj.12190



*

Regin 18 9-30 Mlab 6160 and B14498
No. 134 18 19-39.6 Good range

Sept 15
on a pl

Br = a little brighter than Y
Ft. = n.s on better plate

Br. 6160 Ft 4474
Barely seen 3696

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1926phae.proj.1219



No. 135

Sept 15
m Apl

Probably a very ft. nebula, long
or [illegible] pericial very faint stars
close in line.

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1926phae.proj.1219w



See corrg A 2810

Regn 18 9-30

No. 136 18 21-33.4 Kumm Mbd or A 12380



a very br. star
not large range

Br A 12380

Ft A 2673
B 13581 found
acq. to this stat mbd
as B 13581

✓

CDM
-33° 13234
18 21.4-33 23 RV Sag. Fleming.

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1926phae.proj.12190



No. 137 18 22.5 -29.7

Wbd in A 2673
B 13581
Aft star

Sept 21
on apl

B 12458

Fr if dem 2673
12380

Rgn MF pl. a few.

Leave

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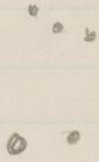
1926phae.proj.12190



Regim 18 9-30 Mkd A2673 and B13581

No. 138 18 23 -29.9

Sept 21 on apl



Quite a ft star

Bronsfoverpl 2673 Probably NS 12458 A 12380

Lease for present

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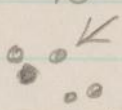
Position measured Bk. 49, p. 71 X and MF. mkd a 2673 and B 13581

Very good range

Br = much brighter than X

Proc. No 139 Sept 21 an apl

18 29.0 29.5 - 29.9



Br a 2673
B 13581
MF 8679
9355
~~9151~~
9410

Med a ff
a 10615
12490

Very ff 12458
12380
a 10775
B 30513 ?
a 10772
12418
12458

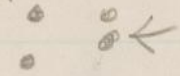
The film of many of the MF plates of this region does not extend to this star

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1926phae.proj.1219W



Regim 18 9-30
No. 140 18 36 -29.8
Sept 21
on a pl



Mbd a2673 and
B13581

Br. = nearly as bright
as x
H = N S on very good pl.

Br 2673

N S 12458
B13581
12380
a2810

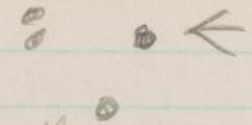
1926phae.proj.12199



*

B 13581
Mkd on a 2673
Probably from

No. 141 18 25 – 31.2
Sept 21
at apl



Very bright
Large range

Found independently
by Dr. Luyten – marked on
D 12380 Br. a 12458
B 13581

For 2S 2673

J.D. 23560 12380 May 20, 1923
Innes 18 25.5 – 31. 15
D 116 18 23.9 – 31 16 10.3 to 17 P = 2.19570 + 235d

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1926phae.proj.12190



**

Mbd A 2673 and
B 13581

Regim 18 9 -30
No 142 18 30 -30.6

Sept 21
a a pl

Br 2673

Very ff 12380
FH(medium) A 2810

Found independently
by Dr Luyten —
marked on A 12380

Innes { 18 29.9 - 30 37
30.2 - 30 28

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1926phae.proj.1219w



Out of limits of MF1

Not found — Leave

A12490

No. 143 18 31 – 30.8 Mbd on 2673 and B13581

Sept 21. ⋮ precedes 58 and North

on a pl

Br. 2673 NS 12458

Not showing ft Perhaps Br B13581

A10772 stars 12380

12490

12418

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1926phae.proj.121SW

98

Positin measured, Bk. 49, p. 79

Prod

Regin 18 9 -30

No 144

18 23.5 -32.1

Sept 21

on a pl

Mbd on A 2673 and B 13581 & MF

Little faint at Map

Br = a little fainter than x

Medium?

Br. A 2673 MF 9053

JD 2414160 2661 Aug 23 1894 10272 9041

Dmns 13 Dmes 18 23.2 -32 7

See description "neatly situated"

Class?

Dmes 2420337 = July 23, 1914

Dmes Period 207d (20337) = Max. = 14127 = July 21, 1897

20337
14127
207) 6210 (30 Max? = M

18882
18916 = Sept. 2 1910
Dmes 20337 = July 23, 1914
Obs. 20748 Sept 7 1915

W obs of 1897 agrees with ns in days (approx.)

Max mned be 14127

W max 14160

Assume not a Nova of 1897

1 Max only but see Dmes

nS a ft

A 6050 262"

MF 10347 | probably
10366 | same ft
0391

A 10615

Semft? A 10772

nS? A 12458

A 12490 | A nS 12418 - shining ft stars

12380

A 2810

MF 8505 nS

8679 nS

8762 Semft very

9041 - ?

9053

9151

9179

9200

9215

9233

9273

9290

9355

9383

9400

9410

9412

9479

9494

9521

10142

10148

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1926phae.proj.1219w

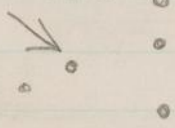


*

Mbd on A 2673 and
B 13581
Large range

No. 145 18 23 -31.8

Sept 21
on apl



Br A 2673
Br B 13581
a 12380

Ft 12458

→ Same as No. 177 on MF plates, f. 132
For position, see Bk. 49, f. 77

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1926phae.proj.1215w

100

Leare ?

Regin 18 9-30
18 26-31.5

Mkd on A 2673, A 12455
and B 13581

No 146

Sept 21
a apl

aft star
Br = about = X

Br 12458
~~123~~

Ft 2673
12380

To ft for
B plates, ?

where is this?

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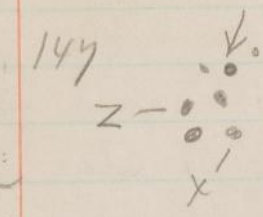
1926phae.proj.1219w



Mbsdm a 2673, a 12458

No. 147 18 26.5 -82.1

Sept 21 a afl




Br = slightly than X,
not quite = Z
Ft = barely seen

Br 12458

Ft 2673
12380

Same as No. 30 Bk. 37, f. 137

See for position Bk. 49, f. 46

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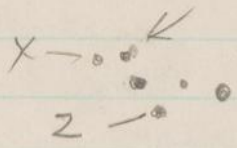
1926phae.proj.1219w

102 Get another a plate if possible

Position measured, Bk. 49, f. 84

Proved Regin 18 9 - 30
No 148 18 27 - 32.0

Sept 21
on a pl




and MF
Mkd 2673 and B13581

Follows 147 and South
A very ft star but
not seen on the better
plate Brighter on
B13581

If all these are same star, and I think they are.

B A 2673 fainter than X
B13581 nearly = Z

NS 12458 shows faint stars
NS 12380

MF 8505 ⟶ MF 8679
a 12418 very ft
a 12490
a 10772 MF 9445
a 10775 9462
a 10615 9479
a 2810 9493
MF 8762 9494
9041 9521
9053
9151
9179
9200
9215
9233
9273
9290
9383
9400
9410
9412
9427

Meas 2661?
a 13528

Innes 18 27.2 -32.0

a 13528 1925
8X10

A Cepheid?

Medium
Inv B23750 1899
Ep 116m
23745 1899
300m

B23745 1899

Innes gives no period and no Max greater than 15.0

a 12225 (8X10)

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1926phae.proj.1219w



Off MF region

No. 149 18. 35 − 31.5

Sept 21

an a pl




Nbd the first var and ?
on 2673 and 12458 and B13581
a faint star

Ft = abmt = y

Either ? is the variable or both stars change a little. Probably ? is Var. on 12458

B. 12458

Ft 2673

12380

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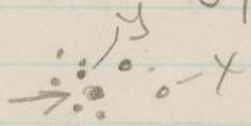
1926phae.proj.12190



Regin 18 9 -30 Mksdan 2673 and B13581

No. 150 18 37 - 31.4 Good range

Sept 21
on a pl




Be = much brighter than x
Ft = about = y

a2673 the poorer plate Ft 12458
12380 B13581

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1926phae.proj.1219W



No. 151 18 $3\frac{8}{X}$ -31 $\frac{6}{5}$ Mkd on 2673 and B 13581

Sept 21 Good range

an ape ⁝← Th= Extremely fr or NS.

B.D. 2673 Seem, not Perhaps 12458

12380 May, B Probably Northern of 2 very

13581 fr stars

Marked independently

by Dr. Luyten —

A 12380

1926phae.proj.12190



# Positim measured, Bk. 49, f. 75.

Regin 18 9-30
No. 152 18 15-32.8

Sept 21
on a pl

Precedes 68
and North

z
y

Br ~~0673~~
~~Not exact comp~~ 12458
12380
a 6050
Brightest X 12099
Measure — a 2661

Perhaps medim
B13581
Mm

Mkd on 2673, 12458,
and B13581 and MF
On a 12099 brighter than z
~~F~~ range
Br = much brighter than x
Ft = fainter than y

Ft 2673 distinctly ft
~~12380~~ and good image
though near rec.
edge of plate.

Medim, not Min.

these 2 plates — MF 8505 — MF 8679 9521
show confirming 9041 8762 10272 —
range 9053 9151 10347
9200 10356

Some entered 9233 9215 B 32032
Medim may 9462 9273 30513
be near Max. 10142 9290
10148 9355
10366 9383
I used so many 10391 9400
plates because 10399 near Max 9410
I wanted to find 9412
another Min. 9427
9443
9479
9493
9494

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1926phae.proj.1219w

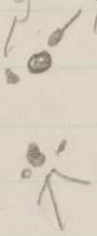


This is No. 46, Bk. 37, p. 153 *
For position, see Bk. 49, p. 58

Mkd on 2673, 12458 and B13581

No. 153 y Y H 16.5-32.7

Sept 21 a pe



Very large range

Br = much brighter than x
Ft = much fainter than y
on better plate
Ft 12458

Br. 2673
B13581
12380

Suspected Algol

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1926phae.proj.1219W

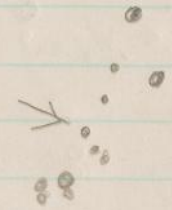


Lease Position measured Bk 49, 187 and MF

Region 18 9 - 30 Mtd 2673, 12458, B13581

No. 154 18 24 -32.9

Sept 21
on a pl



a very ft star

If new - more proof needed
If lines OK

Trace on NS 2673

Br a 12458
12380 — ? ~~bright~~, Medium
medium
12490

~~12~~
Ft 12490
12418
MF 8505
8762
8679 - probably seen
9041
9053
9151
9179
9200
9233 - probably seen

Lines 18 23 8 - 32 42 Dec.?

Some of the MF plates may show ft. Elongated images are poor
Too faint to prove with MF?
Also, long exp. B plates are difficult, because poor images & close field.

a 12418

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1926phae.proj.1219w



Position measured, Bk. 49, f. 76.

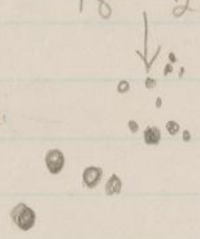
Type ?

Proved

No. 155. 18 28 −32.6

Sept 21

on a pl



and MF

Mkd 2673, 12458, B13581

Large range

and many ft stars, not plotted, see 12458

Probably Var is the star marked. If slightly off of this position, it would about cross the ff star shown.

Br 2673

* 12380

Ft 12458 the better plate

NS B 13581

a 2810

a 12490

12418

MF 8505

B MF 8679 June 30 1924 = 23967 J.D.

MF 10272 May 18 1926 = 24654

Imes 18 28.0 −32 37

Probably Br a 10775 edge

Descrep ft 8762

NS 9041

9053

9179

9495

9200

9215

9233

9290

9383

9400

9410

9427

9445

10347 June 11 1926

ft 10366 June 14

9521

U.C. 37

Imes, 24,

2419977 + 220d

4406

24377 (W = 24405)

(28 days in 20 epochs)

8 × 10

* a 13528 Sept. 11, 1925 = 24405

12225 Oct 7, 1922 = 23335

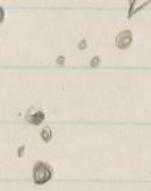
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1926phae.proj.1219w



Regin 18 9 – 30
No. 156 18 34 – 32.8

Sept. 21
m a pl



Mbd m 2673, 12458,
and B13581
Not large range
Ft star

Br. 12458

Trace 2673
12380

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No. 157 18 41 -32.6

Sept 21
on a pl

Lyrbs like two stars on 12458. Probably trail of
faint asteroid

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Regim 18 9-30

No. 158

Sept 21
on a pl

Defect on ~~12458~~ 2673

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1926phae.proj.12190

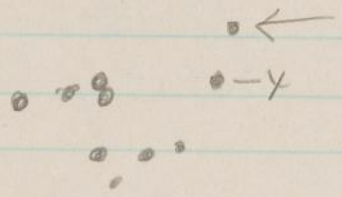


Mlsd 2673, 12458, B13581

No 159 18 25 -33.5

Sept 21

an apl




Br – a trifle brighter than x

Br 12458

Found independently by Dr. Luyten — marked m Δ 12380

NS 2673
12380

Innes 18 25.2 -33 42 Dec ?

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1926phae.proj.1219w



Position measured, Bk. 49, p. 85.

and MF

Mkd 2673, 12458, B 1358)

Regim 18 9 -30

No. 160 ↑ ← 18 27 -33.7

Sept 21

on a pl

Good range but not very bright.

Br 12458

Meas. —— 12418

* 12490 July 4, 1923 = 23605

NS 2673

12380

9025

MF 8679

Innes 18 26.9 -33 39

19 Innes 450d fine only 3 (2 max) images 16.5, 17, 17.

J.D. 18916

20713

20716

18916

20713 1797

H 23605 2892

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1926phae.proj.12190



Small range abnt ~5?, 6?
Mkd 2673 and B13581

No 161 18 28 - 38.3
Sept 21 ∴ ←
on apl

a ray for star
and small range but
change seems to be real

B 12454

Ft 2673
12380

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1926phae.proj.1219w



Find another Max

and MF

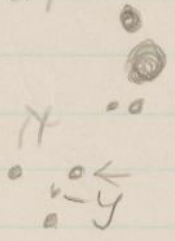
Regin 18 9 -30

Mkd m 2673, B 13581

No. 162 18 27.5 -33.2

Fair range

Sept 21
on a pl




Br = much brighter than y
Ft = fainter than y

Br 2673 the ponsa plate

Ft 12458

Medium

~~12418~~

a 12380

MF 8679

8505

9151

a 12490

Not Dunco

9025

12418

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1926phae.proj.12190



Leave for present

No 163 : K 30.5–33.5 Mkd 2673, B13581
Sept 21 → ⋮ a ray of star,
a pl small range

Br 2673 Ft 12454
12380

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1926phae.proj.1219W



Lease

Off MF

Regim 18 9-30

Nbd 2673, B 13581

No. 164 18 42.5 - 34.7

Sept 22
on a pl

Very faint

Br 2673

IRS 12458
12380

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1926phae.proj.12190



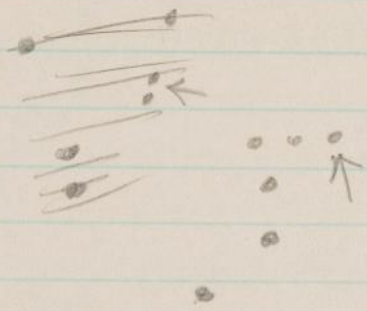
Leare Off MF Very small range

18 40 - 34.3

No. 165

Mfd 2673, 12458, B 13581

Sept 22
on apl



aft star and
only few tenths
range

Br 12458

Ft 2673
B 13581
a 12380

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1926phae.proj.1219w



Position measured, Bk. 49, page 86.

a 2810 10m

Rev'd

Regim 18 9-30

Mkd 2673, B13581

No 166

18 38-34.9

Sept 22

on a pl

y -

~~y~~ -

x =

y =

Br = not as br. as x

Ft = x fainter than y

Br 12458

Ft 2673

Meas 13085, although faint.

B13581 Br or nearly.

a 12380

12490

9040

13085

Meas 151 18 36.5 -34 57

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1926phae.proj.1219W

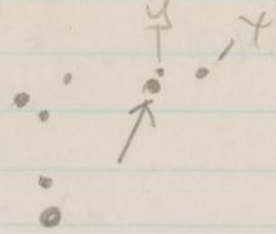


18 31 −34.8 Mbd 2673

No 167

Sept 22

a apl



Br = brighter than y

Ft = fainter than y

a very ft star but fair range

Br 2673

Ft 12458

a 12380

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1926phae.proj.1219w

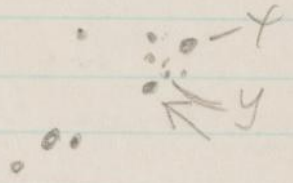


Positim measured Bk. 49, p. 78

Regim 18 9 -30 Mbd 2673, (12458) B13581 ~~X~~ [Off MF

No 168 18 30.5 -34.4

Sept 22
a a pl




Good range, fairly bright.
Br = about = y
Ft = faint = x

Meas 12490

Br 12458 Ft 2673
Seen, probably not Mbd B13581 a 12380
a 9025
9040

a 12418
12490

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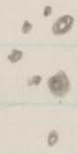
1926phae.proj.12190



Wkd 2673, B13581

No 169 ↓ 18 29 - 34.9

Sept 22
a apl



A very ft star

Br 2673
a 12380

N Sortura 12458

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1926phae.proj.1219W



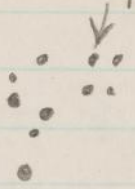
Lease for present

Region 189-30

Mlsd 2673, 12458, B13581

No. 170 1828-343

Sept 22
an a pl



Ft. stav.
Very slight change
if any.

Br 12458

Ft 2673
12380

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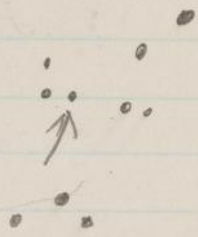
1926phae.proj.1219



Mkd 2673, B 13581

No 171 18 19.5 −35.0

Sept 22
a pl



Br. 2673
a 12380

Ft 12458

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1926phae.proj.1219w

126 Dr. Luyten's Var., if new

To ident. and verify

Mkd a12380 & B13581

No 172 18 24.5-31.2

Quite bright — known?

Found by Dr. Luyten
Marked on a12380
B.D. 12380
2810
B13581

Innes 18 24.5-31 11 (1910) = 1115 18 22.9 -31 12 (1875)

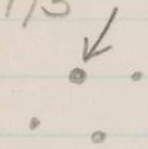
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1926phae.proj.1219



Dr. Luyten's Var, if new

No. 173 18 29 -31.4 Mbd A 12380 B 13581



→ Found by Dr. Luyten A 12380

Br. A 2810 US B 13581

Dimes 18 28.9 -31 22 = 29 18 27.3 -31 23

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1926phae.proj.12190



Dr. Luyten's var., if new

No. 174 18 31 -33.7 Mkd on A 12380
B 13581



→ Found by Dr. Luyten.
Which star is the variable? a 2810 is not good enough to prove.
See B 13581 — probably star mkd
If so, Br. B 13581 ~~Fla~~ 12380
a 2810
If Dr. Luyten's Var. is one of the others in circle, this star varies also.

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Friday, Sept. 2, 1927

18 9-30 Late plates to be used. see f. 6 Mkd 8679

Position measured, Bk. 49, f. 80

MF 8505
10142
10142 superposed Obj. mkd on 8505

Pmed No. 175 18 23.5-28.5

K ÷ Y Br = about = Y very ff
ff = barely seen not large

Br 10142 ff 8505 range
Have confirmed 9041 *8679
before meas. 9048 8779
9105
10148 10347 June 11 1926
10272 May 18, 1926 10356
10
Star ? * a2752
a10772 proof a10615
a2605 a8370
Meas. a10775

*MF9151 MF 10356
9179 10366
9200 10391
9215
10148
10272

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1926phae.proj.1219m



Position? No a/l? See B23770 255m MF10272

No. 176 18 19.0 5 -30.0 Mkd MF 8679

Br = slightly brighter than ✕

ft b duly seen

Pwred

MF
Br 10142
* 10272
* 10148
10147
10347

Medium
10347
a 10615?

NSa
Veyft 8505 which star?
9105
9048
9041
Seen, faint 8779
8679
9041
9151
a 10775
a 12099
14022
2661
10772
MF 10391
a 10615 is this ft. star the Object?

MF10356
10366

No.
Is this a Nova of 1926?
Suspected as Nova August 11, 1926

B17093 (1896
B27438 (1901

Probably indicates another Max. See note below.

Magnus a 10772 near

See page 162, cont.

For ft stars, see
a10775
B23203

See a 10615 October 1, 1912. B plates about this date were looked for. Are mostly Spectrum or finder chart. Of no value.
ft stars mkd 12490

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1926phae.proj.1219w



Same as No. 145 found on a pl. 1.99

Position measured, Bk. 49, f. 77

Mkd 8679

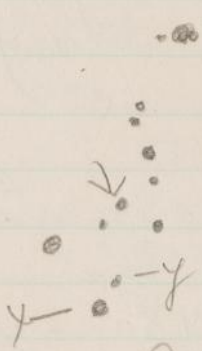
Curved
{145
177}

No. 177

18 24 − 31.7

Mkd as 177 on M 7

Algol.




Br = nearly = x

Ft = nearly = y

| | | | | | |
|---|---|---|---|---|---|
| a 2673 | | Br 10142 | | Ft 8505 | 1925 |
| B 13581 | 10347 | 8679 | | *9462 | June 24 |
| a 12380 | 10356 | ~~10356~~ | | | |
| B 19325 | 10366 | ~~10347~~ | Medium | a 12458 | June 20, 1923 |
| | 10399 | 9041 | 9105 | | |
| | | 8779 | 9048 | | |
| There seems to | | 8762 | 9151 | | |
| be diff. bet. Medium | | 9053 | 9179 | | |
| & Br. but | | 9215 | 9200 | | |
| some plates are | | 9233 | 9273 | | |
| doubtful | | 9290 | 9410 | | |
| | a 10775 | 9355 | 10391 | | |
| | 10615 | 9383 | | | |
| | 10772 | 9400 | | | |
| | *12380 | 9412 | | | |
| | 2661 | 9427 | | | |
| | 12490 | 9445 | | | |
| | July 4, 1923 | 9479 | June 25 | | |
| | | 9493 | June 26 | | |
| | | 9494 | | | |
| | | 9495 | | | |
| | | 9521 | | | |
| | | 10148 | | | |
| | | 10272 | | | |

Continued, p. 168

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1926phae.proj.12190

Comparing 9041 Saturday, Sept. 3, 1927 
10148 10148 superposed Mbd
~~No. 178~~ Images not ~~18 24 = 3 1 0~~
very comparable.
Several of the earlier Vars. found indistinctly
but not given new numbers.

~~Ft 8585~~

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1926phae.proj.12190



Continued from Bk. 37, p. 130

$18^h\ 9^m - 30^\circ$ Object 23 18 1 -27.5

Am 5090 1907 2 5 shows stars equal but not this star.
Probably Am plates would not be worth exam. for this excellent plate would just show the star if bright

Exam. B plates see Note p 135

| | | |
|---|---|---|
| B 9854 | — | NS |
| 13728 | 1895 | at limit of plate, if seen |
| 13936 | 1895 | FF |
| 17651 | 1896 | NS |
| 20451 | 1897 | NS |
| 23203 | 1899 | Br - about Max |
| 23770 | 1899 | Br almost Max? extreme prec. edge of plate |
| 26116 | 1900 | NS |
| 26387 | 1900 | NS |
| 50473 | 1917 | NS |
| 53051 | 1918 | NS |
| 51472 | 1917 | NS |

June ✱
Aug. ✱
Is this same Must find better if possible
B 7987 may find cover
Am 15 = July 26, 1899 not showing FF stars enough Am plates not useful

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1926phae.proj.1219



B plates. Estimates not given yet but divided as Br. & Ft.
Most of these plates show ft. stars. Var. at Max. is ~~bright~~ much above limit of B plates.

| | | | |
|---|---|---|---|
| B | 40363 | 1909 | Medium? |
| | 44677 | 1914 | N.S. |
| | 44713 | 1914 | NS |
| | 44722 | 1914 | NS (July) |
| | 45394 | 1915 | Very ft (August) |
| | 45722 | 1915 | NS Sept |
| | 47710 | 1916 | NS |
| | 47759 | 1916 | NS |
| | 44793 | 1914 | NS |
| | 44946 | 1914 | NS |
| | 44970 | 1914 | Ft — or Medium? |
| | 50009 | 1917 | NS |
| | 33657 | 1904 | NS |
| | | | ~~NS~~ |
| | 50123 | 1917 | NS |
| | 35686 | 1905 | NS |
| | 37314 | 1907 | NS |
| | 31596 | 1903 | Very ft |
| * | 28621 | 1901 | about Max. |
| + w Bb M 130 | 27950 | 19 | NS |
| | 26491 | 1900 | NS |
| | 26483 | 1900 | NS 45m shows ft. stars |

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1926phae.proj.1219w



~~June 12, 1928~~

June 12, 1928 MF 9151
9383
41 – 138 9151 superposed

No new objects

June 13, 1928 MF 9479
10366
p. 140 – 145 9479 superposed

June 14, 1928 9290
9412
9412 superposed
No new objects. 181 rediscovered

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Begin $18^h 09^m - 30^\circ$ No

Star that is mkd red inks 1 on
by whom ?

11 mkd on this pl independently

---

9479—10366
No 35 found on these plates, 25, 27,
178 additional to 184
20 found

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1926phae.proj.1219W



Var ~~178~~ 184 Enter this as of J. 146
Center of AX 1853 nebd ? Aug. 26, 1926
to image, apparently star image?

NS 1699 June 14, 1926
NS 1743 July 6 "

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1926phae.proj.1219w

140 Position of star always seen measured Bk. 49, 159

Nova is same & (?) a little north No. 178 ff

Ft. stars well dhom. aX 1575 1625

New. Large range a 9640 Mkd 9479, 8679 aX 613

June 13, 1928 on MF

17 58.52 6.5

Br = nearly as br as X

Br 10366 June 14, 1926

~~8679~~

Nova of 1926

10347 June 11 1926

10356 June 12 "

10391 June 17 "

10399 June 19 "

aX 1757 July

1575 apr 17 barely seen

1625 May 12 barely seen, ff seen

1650 May 18 Hardly seen " "

1757 July 9 br

1853 Aug 26 ff

1919 Sept 28 barely seen

1941 Oct 5 " "

~~2015 1927~~

See page 150

| | | | |
|---|---|---|---|
| Ft 9479 | 1925 | 9494 | 1925 |
| 8679 | 1924 | 9495 | 1925 |
| 8505 | 1924 | 9521 | 1925 |
| 8762 | 1924 | 10142 | apr 20 1926 |
| 9041 | 1925 | 10147 | apr 21 1926 |
| ~~9151~~ | | 10272 | May 18 1926 |
| ~~9179~~ | | | |
| 9215 | 1925 | | |
| 9290 | 1925 | | |
| 10148 | apr 24 1926 | | |
| ~~10272~~ | | | |
| 9048 | 1925 | | |
| 9053 | 1925 | | |
| 9105 | 1925 | | |
| 9151 | 1925 | | |
| 9179 | 1925 | | |
| 9206 | 1925 | | |
| 9233 | 1925 | | |
| 9273 | 1925 | | |
| 9355 | 1925 | | |
| 9383 | 1925 | | |
| 9400 | 1925 | | |
| 9412 | 1925 | | |
| 9410 | 1925 | | |
| 9427 | 1925 | | |
| 9445 | 1925 | | |
| 9462 | 1925 | | |
| 9493 | 1925 | | |

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N B dates — Important example of Algol?

Positim measured Bk. 49, f. 62 Large range

Proved No. 179 18 26 -28.1 Mkd 9479, 8679

(2 Min only found as yet)

June 13 on MF

Br = nearly = x

Ft abnd = y

| | | | | | | |
|---|---|---|---|---|---|---|
| | Br 10366 | | | Medium June 26 9493 | Ft 9479 | June 25 |
| MF | 10272 | 8679 | | 9494 June 26 | a 10772 | 1913 Min. |
| | 10347 | 9462 | June 24 | 9521 | | |
| | 10356 | 9495 | June 26 | 9105 May 14 | | |
| | 10366 | 9445 | June 23 | 9179 May 23 | | |
| | 10391 | 9417 | 13 | 9273 May 29 | | |
| | 10399 | 9427 | June 22 | 9383 Mt Min | | |
| | | 9400 | June 18 | | | |
| | | 9410 | " 19 | | | |

Algol?

8505
8762
9041
9048
9053
9151 May 19
or medium 9200 May 25
9215 May 27
9233 " 27
9290 May 30
9355

Br. on B19580 10m
a 8370
10615

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No. 180 Mkd 9479, 8679

Defect or Var?

June 13 on MF

Seen 9479

NS 10366 10142
8762 10148
9041 10272
9048 10347
9053 10356
9151 10391
9179 10399
9200
9215
9233
9273
9290
9355
9383
9400
9410
9412
9427
9445
9462
9493
9494
9495
9521

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1926phae.proj.12190



Algol Probably interesting period
Position measured, Bb. 49, 63 Nov
No. 181 18 16.5-28.5

Continued on page 174

Large range Mod 9479
8679

June 13
on MF

Br. B19580 (10m

Br 9479
9412
8679
8505
8762
10272 9041
10347 9048
10399 9053
9151
9179
9200
9215
9233 May 27
9355
9383
9400 June 18
9412 June 20
9427
9445
9462
9494
9495
9521
10142
10148

Obj near a 9041

Br 9273 May 29
Br 9479 ?
B 9493 ?
Br 10356 ?
Br 10391 ?

Ft 10366
9290 May 30
9410 June 19
~~10272~~
10366 very ft or defective
June 14

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1926phae.proj.1219w



a pl?

Rwrd No. 182 18 12 −28.0 Mkd 9479, 8679

June 13
on MF

a
γ

Br = abnt = γ
nearly = a on 9462

Br. 9479 Ft 10366
8762 Medium 8505
~~8800~~ 9215 May 27 9041
9273 May 29 9200 May 25 9048
9355 9151 May 19
9383 June 17 9233 May 27
9400 June 18 9179 May 23
9410 June 19
9412 " " 20 9105 May 14
9462 " " 22 9053 May 2
9479 25

a 2605 1897
a 14022
10775

9445 23
9493 26
9521

~~Short period~~

9041
9048
9053
9105 May 14
9151 May 19
9179 23
9200 25
9215 27
9273 29

Meas —— a 12042
if no better a pl. is
found from image

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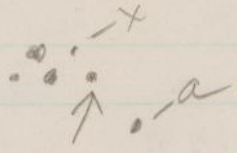
1926phae.proj.12190



Position measured, Bk. 49, f. 64

Proved No. 183 18 20 - 29.6 Mkd 9479, 8679

June 13
on MF




Br = brighter than x
or 9521 = a

Br 9479
8679
9462
9493
9494
9495
9410
9412
9427
9445
* 9521 much brighter

Medium?
9283
9400

Ft 10366
~~8679~~
8505
8762
9041
9053
9105
9151
9179
9200
9215
9223
9273
9290
10142
10148
10272
10347
10356
10391
10399

~~Mess~~ *a 14022
Mess 10775
10772

a 10615
12099
2673
*8370

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1926phae.proj.1219w



No. 184 See f. 139

---

No. 185 See H.A. 84, No. 7

Sept. 1, 1928 found in work on No. 178

Br MF 10272 a 8386 NS

a very ft star just N of Seg of Nova Seq. 2 as Mkd 8386 star ft.

Marked on Am 6976 1910

a star just precedes, very slightly N of z

z —:— t

This star is a little brighter than z but is NS on a 8386

Isn't this bright on a 10421 and in position of Nova Seq No 2 ?

Same star

Exam on MF plates

| | | |
|---|---|---|
| 10142 | 9462 | |
| 148 | 9479 | little, if any change |
| * 366 | 9493 | during these years |
| 391 | 9494 | |
| 8679 8505 (1924) | 9495 | |
| 8762 | 9521 | |
| 9041 | 10399 (1926) | |
| * 9053 | | |
| 9151 | Br. a 10421 | |
| 9179 | June 25, 1931 | |
| 9200 | | |
| 9215 | | |
| 9233 | | |
| 9273 | | |
| 9290 | | |
| 9410 | | |
| 9412 | | |
| 9445 | | |

9427 uncertain from images 1 star or 2 ?

a 14022

a 10365 1911 Shows both stars

(Seq. 21 Ka) MF 2592 10m Too ft.

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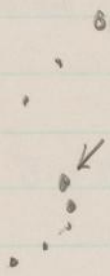
1926phae.proj.12190

CDM -28 14567 Iden. Checked by Miss Wells. 

Sept. 17, 1928 No. 186
found when
marking
Cat. stars from B 17651
on A 10775 for
measuring position
This is new

18 19 -28.8

Mkd on B 17651
A 10775, MF
8679



Br A 10775
8370
MF 8679
MF 2592 10m
8505
8762
9053
9151
9179
9200

Ft B 17651
17093
13581
19689
19325
19448

all
MF plates
2 18 9-30
show Var bright

B 27184
B 23770 (255)
23745 (300m)

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1926phae.proj.12190



No 38 a



Two stars were mkd 38
The one in center is retained
as 38.

18 26.5 -27.9

medium?

| Bu MF | | NS |
|---|---|---|
| 8762 | 9105 | 8679 |
| 9041 | 9179 | 8505 |
| 9053 | | 9200 |
| | | 9383 |
| | | 9400 |
| | | 9410 |
| | | 9445 |
| | | 9479 |

This is Var. 173, Reg. 18 24-23, announced HB 854.

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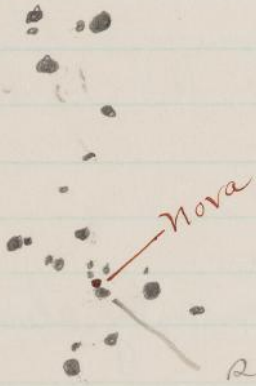
1926phae.proj.12199



Var. 178

Cont. from p. 148

Meas. (approx) positin 17 55 7.8 -26 24 (1900)




star meas. Bb. 49, p. 59
for positin

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1926phae.proj.12190



17 55 -26.5 No. 178 ~~Continued from p. 148~~

Found June 13, 1928

Index to DE Normal, a very ft star, barely seen on good AX/1
This is not the object

| Bb. | page | |
|---|---|---|
| 41 | 149 | Chart |
| 41 | 140 | Discovery |
| 49 | 59 | Position of nearby star measured |
| | | Plates exam. |
| | 151 | AX |
| | 151-154 | AM |
| | 155 | AK |
| | 155 | A |
| | 155 | Summary by Series |
| | 156 | B |
| | 157 | Count by Years & Series |
| | 158 | Magns. Comp. Seq. Corrected for 1922 |
| | 160 | Ledger 1926 |

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1926phae.proj.12190



See 15931 — right hand star seen?

Ft stars seen AM 16351

This is faint star near + Nova is N.S.

To see if this star increases in any year except 1926.

585 May 1924
AX 613 June 1924
645 "
725 "
1049 May 1925
1106
1284
1316
1360

Total 10

See 1926 plates f. 140
2015 Sept 1927
AM plates Many more not recorded were seen. Record is only made of those showing ft stars so if Obj was bright it would show.

AM 15745 May 1922
15826
15931 15996
16014
16015
16017
16059
16068
16120
16230 (1923)
16262
16290
16351
16352
16386

For stars in field see AX 1757

16

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1926phae.proj.1219W



Only record of plates showing faint stars.

Obj 178 am plates Do not show 178

| | | | | | |
|---|---|---|---|---|---|
| am | 15 | 1899 | am | 2618 | 1904 |
| | 137 | | | 2639 | |
| | 461 | 1900 | | 2713 | |
| | 538 | | | 2746 | 480m faint star barely seen normal |
| | 802 | 1901 | | | |
| | 808 | | | | |
| | 907 | | | 2797 56 | |
| | 1028 | | | 2797 | |
| | 1043 | | | 2854 | |
| | 1236 | 1902 | | 2916 | |
| | 1252 | | | 2959 | |
| | 1278 | | | 3002 | |
| | 1414 | | | 3392 | 1905 |
| | 1422 | | | 3448 | |
| | 1428 | (491m) | | 3496 | |
| | 1437 | | | 3537 | |
| | 1487 | | | 3625 | |
| | 1528 | | | 3655 | |
| | 1589 | | | 3689 | |
| | 1917 | 1903 | | 3802 | |
| | 1952 | | | 3883 | |
| | 1960 | | | 4205 | 1906 |
| | 2085 | | | 4269 | |
| | 2109 | | | 4311 | |
| | 2129 | | | 4339 → | Insert p 153 |
| | 2147 | | | 4954 | 1907 |
| | 2244 | | | 5013 | |
| | 2261 | | | 5024 | |
| | 2572 | 1904 | | 5090 | 1907 |



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1926phae.proj.1219



AM 5712 1908

4527 1906
4388 1906
4539 1906
4562
4620 1906
4804 1907
5114 1907
5340 1908
5444
5640
5683

5820 1908
5854 1908
6011 1909
6114
6170
6228
6338
6343
6347
6374
6454
6592
6613 1909
6946 1916

26

6952 1910
A7458 1911
7549

7033 1910
7063
7841 1911
8301 1912
8307
8869
8890
8423
8485
8492
8522
~~8307~~
8559
8598 1912
8903 1913
8944
9068
9090
9131
9146
9197
9203
9237
9304
9336 1913
9860 1914

28

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1926phae.proj.1219w



Obj 178

| | |
|---|---|
| am 9889 | 1914 |
| 9937 | |
| 9943 | |
| 9947 | |
| 9983 | |
| 10038 | |
| 10085 | |
| 10093 | |
| 10098 | |
| 10146 | |
| 10180 | 1914 |
| 10570 | 1915 |
| 10764 | |
| 10788 | |
| 10822 | |
| 10902 | |
| 11084 | |
| 11276 | 1915 |
| 11689 | 1916 |
| 11775 | |
| 11785 | |
| 11805 | |
| 11829 | |
| 12127 | |
| 12208 | |
| 12216 | |
| 12235 | |
| 12535 | 1916 |
| 13141 | 1917 |

Do not show 178

| | |
|---|---|
| am 13400 | 1917 |
| 13417 | |
| 13440 | 1917 |
| 14154 | 1918 |
| 14244 | 1918 |
| 14682 | 1919 |
| 15294 | 1920 |
| 15767 | 1922 |
| 15795 | 1922 |
| 15842 | |
| ~~15826~~ | |
| 15869 | |
| 15909 | |
| 15934 | |
| 15959 | |
| 15990 | |
| ~~16014~~ | |
| ~~16015~~ | |
| ~~16017~~ | |
| 16018 | 1922 |

Count of am Plates

| | |
|---|---|
| p. 151 | 16 |
| 152 | 56 |
| 153 | 54 |
| 154 | ~~48~~ 55 |
| Total | ~~171~~ |

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1926phae.proj.12190



aK plates examined.

aK 288 1909
435 1909 shows faint stars stw prec. Obj. and all other ft stars close are seen. Obj. is at limit of pl.

2

a Plates

| | | | | |
|---|---|---|---|---|
| a | 9640 | 1909 | | ft. this is the ft star near |
| Meas? | 11690 | 1917 | 8x10 | ft |
| | 11775 | 1918 | 8x10 | ft |
| | 11686 | 1917 | 8x10 | ft |
| | 10443 | 1911 | | ft |
| | 2605 | 1897 | | ft |
| Meas | 8420 | 1907 | | ft |
| | 8386 | 1907 | | ft |
| | 10404 | 1911 | | ft |
| | 10416 | 1911 | | ft |

10

| | | | | |
|---|---|---|---|---|
| aX | 1926 plates all | p. 140 | 7 | |
| MF | | 151 | 16 | |
| and | | 140 | 36, | |
| aK | | 154 | 174 | |
| a | | 155 | 2 | |
| B | | 155 | 10 | |
| | | 156 | 47 | |

28 x 3

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1926phae.proj.1219w



Obj 178 B Plates

| | | | | |
|---|---|---|---|---|
| B | 5338 | 1890 | B 3754 | |
| | 5406 | 1890 | 3886 | 1889 |
| 1891 etc. plates very poor | 12117 | 1894 | 4124 | " |
| | 13748 | 1895 | 27750 | 1901 |
| | 16036 | 1896 | 33657 | 1904 |
| | 19114 | 1897 | 35686 | 1905 |
| | 21077 | 1898 | 36791 | 1905 |
| | 22748 | 1899 | 37314 | 1907 |
| | 23203 | 1899 | 42308 | 1911 |
| | 23495 | 1899 | 42655 | " |
| | 25123 | 1900 | 42669 | " |
| | 26116 | 1900 | 43123 | 1912 |
| | 26432 | 1900 | 43691 | 1913 |
| | 26461 | 1900 | 43796 | " |
| | 26472 | 1900 | 44537 | 1914 |
| | 27155 | 1901 | 44621 | " |
| 27750 | 29255 | 1902 1901 | 44660 | " |
| | 30347 | 1902 | 46594 | 1916 |
| | 32649 | 1903 | 50009 | 1917 |
| | 33921 | 1904 | 50123 | " |
| | | | 50473 | " |
| | | | 50963 | " |
| | | | 52953 | 1918 |
| | | | 52954 | " |
| | | | 53038 | " |
| | | | 53051 | " |
| | 21 | | 26 | |

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1926phae.proj.1219w



## Count by Years.

| | a | B | am | AK | am | aX | MF |
|---|---|---|---|---|---|---|---|
| 1889 | | 3 | | | 1920 | 1 | |
| 90 | | 2 | | | 21 | | |
| 91 | | | | | 22 | 19 | |
| 92 | | | | | 23 | 6 | |
| 93 | | | | | 24 | 4 | 3 |
| 94 | | 1 | | | 25 | 5 | 24 |
| 95 | | 1 | | | 26 | 7 | 9 |
| 96 | | 1 | | | 27 | 1 | |
| 97 | 1 | 1 | | | 1928 | | |
| 98 | | 1 | | | | | |
| 99 | | 3 | 2 | | | | |
| 1900 | | 5 | 2 | | | | |
| 1901 | | 3 | 5 | | | | |
| 2 | | 2 | 10 | | | | |
| 3 | | 1 | 9 | | | | |
| 4 | | 2 | 11 | | | | |
| 5 | | 2 | 9 | | | | |
| 6 | 2 | 1 | 9 | | | | |
| 7 | | | 6 | | | | |
| 8 | | | 7 | | | | |
| 9 | 1 | | 11 | 2 | | | |
| 10 | | | 4 | | | | |
| 11 | 3 | 3 | 3 | | | | |
| 12 | | 1 | 10 | | | | |
| 13 | | 2 | 11 | | | | |
| 14 | | 3 | 12 | | | | |
| 15 | | | 7 | | | | |
| 16 | | 1 | 10 | | | | |
| 17 | 2 | 4 | 4 | | | | |
| 18 | 1 | 4 | 2 | | | | |
| 19 | | | 1 | | | | |
| | 10 | 47 | 145 | | 26 | 17 | 36 |

## Count by Series

| | | |
|---|---|---|
| a | 10 | 10 |
| B | 47 | 47 |
| am | 145 + 26 | 171 |
| aK | | 2 |
| aX | | 17 |
| MF | | 36 |
| Plates examined | | 283 |

Checks on p. 155

Years not represented in plates examined: 1889 to 1927[6]

1891
1892
1893
1921

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1926phae.proj.1219w

158 Comp. Seq. Nova Sag. No. 2
1753 27 1910.
Vol 84 No. 7
letters from p. 193
a8386

These stars were plotted from Vol. 84 and assumed these stars in Comp. of sequence = the published Seq. Nos.

| | | | | Corrected |
|---|---|---|---|---|
| 6 | k | 10.26 | +0.22 | 10.48 |
| 7 | f | 10.38 | +0.22 | 10.60 |
| 8 | g | 10.52 | +0.22 | 10.74 |
| 9 | K | 11.05 | +0.24 | 11.29 |
| 10 | m | 11.37 | +0.24 | 11.61 |
| 11 | l | 11.49 | 24 | 11.73 |
| 12 | n | 11.74 | 24 | 11.98 |
| 13 | q | 12.00 | 24 | 12.24 |
| 14 | o | 12.12 | 24 | 12.36 |
| 15 | p | 12.32 | 24 | 12.56 |
| 16 | r | 12.89 | 25 | 13.14 |
| 17 | s | 13.27 | 26 | 13.53 |
| 18 | t | 13.84 | 26 | 14.10 |
| 19 | u | 13.89 | 25 | 14.14 |
| 20 | w | 14.12 | 25 | 14.37 |
| 21 | y | 14.74 | 24 | 14.98 |
| 22 | red w | 14.78 | | 15.02 |
| 23 | x | 14.85 | | 15.09 |
| 24 | z | 15.12 | 24 | 15.36 |
| 25 | a | 1591 | 20 | 16.11 |
| 26 | B | 16.38 | +0.16 | 16.54 |

√ a 8386 Normal star just Sq Nova about = w = Star 20 = 14.4
Miss Walker = 14.3

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1926phae.proj.1219w



(Letters)

Bright stars of Sey.
Vol 84

| | | | | |
|---|---|---|---|---|
| 3. | c | 8.95 | +014 | 9.09 |
| 4 | e | 9.39 | 17 | 9.56 |
| 5 | d | 9.62 | 18 | 9.80 |
| 6 | h | 10.26 | 22 | 1048 |
| 7 | f | 10.38 | 22 | 1060 |

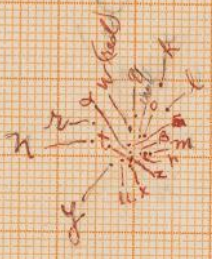
Uncorrected

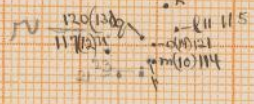
55 54 53

-27

-27.30

-25





1 sq = 50"

22 = W ?

1926phae.proj.121sw



# Ledger 1926

| | | | | Corr. Magns. used. | |
|---|---|---|---|---|---|
| | aX 1625 | May 12 | 24224648 | | |
| — | MF 10272 | " 18 | 4654 | <16.0 | |
| | aX 1650 | " 18 | 4654 | | |
| — | MF 10347 | June 11 | 4678 | 10.6 | |
| — | 10356 | " 12 | 4679 | 10.7 | |
| — | 10366 | " 14 | 4681 | 12.0 | |
| — | 10391 | " 17 | 4684 | 12.0 | |
| — | 10399 | " 19 | 4686 | 12.0 | |
| — | aX 1757 | July 9 | 4706 | 12.0 | Comb. with S. |
| — | 1853 | Aug. 26 | 4754 | 13.2 | " " |
| — | 1919 | Sept. 28 | 4787 | 13.5 | " " |
| find | — — | 1941 | Oct. 5 | 4794 | 14.4 | " " |

no aX th 1994
2571-2712

1928

| | | |
|---|---|---|
| MF 11634 | May 12-13 | |
| no MF th 11002 | 11649 | 15-16 | |
| 11003-11961 except → | 11676 | 17-18 | not yet shifted |
| | 11745 | 22-23 | |
| | 11758 | 28-29 | |
| | 11845 | June 16-17 | |
| | 11898 | June 21-22 | |
| aX 2665 | July 20-21 | | |

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1926phae.proj.1219M



ith S. star
" "
" " "
" " "

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1926phae.proj.121RW



No. 176 Continued from p. 131

found Sept. 2, 1927, on MF plates, p. 131

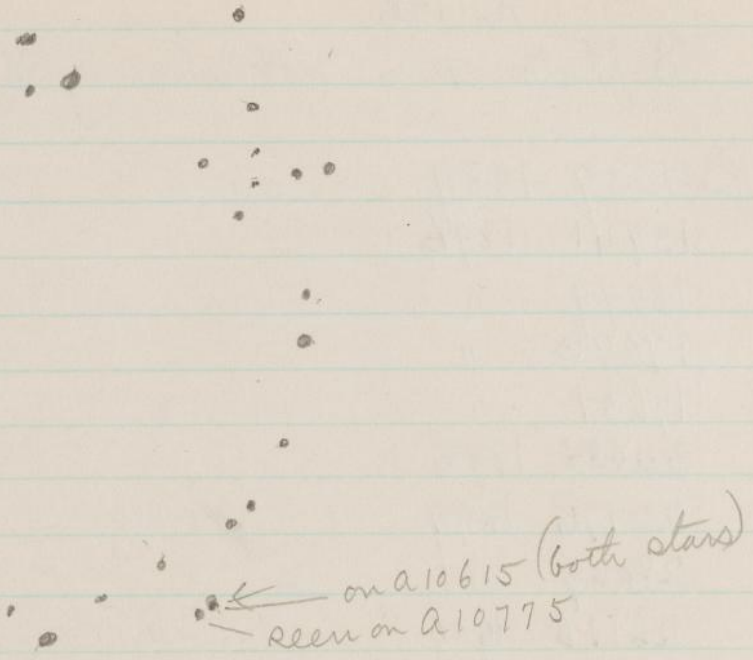
A Nova of 1926, suspected.

Conclusion — This is probably a variable of very long period with a Maximum two faint to be often photographed. Found on a few B plates and confirms the A 10615 position as measured.

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1926phae.proj.1219M






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1926phae.proj.1219W



No. 176

B plates exam. not shining Obj.

| | | |
|---|---|---|
| B | 4059 | 1889 |
| | 15741 | 1896 |
| | 16099 | " |
| | 17093 | " |
| | 17651 | " |
| | 22035 | 1898 |
| | 22478 | 1899 |
| | 24009 | " |
| | 26116 | 1900 |
| | 27438 | 1901 |
| | 29524 | 1902 |
| | 29857 | " |
| | 30512 | " |
| | 33657 | 1904 |
| | 35686 | 1905 |
| | 36432 | ? |
| | 37314 | 1907 |
| | 38649 | 1908 |
| | 38823 | " |
| | 50009 | 1917 |
| | 50123 | " |

21

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1926phae.proj.12190



Nova Sag. No. 2 Fleming No. 185 Continued fr p. 146

HB 426 Is this star same one as Nova Sag. 1910?

B 41608 July 13, 1910 shows Nova bright
Mbd comp stars from A 8386 for estimate

Ha 84 = measures 1889 to 1919.
Two ft fa AX when faint. See AX 1919. I5
Would be seen if ever bright

I examined AM series 1920 to 1923 & see if star
was bright during that time.

Conclusion: Star is still seen but faint, with
small variations in Magn.

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1926phae.proj.1219M



red

Corrected Estimates

| | | | | | | |
|---|---|---|---|---|---|---|
| 10.2 | B | 41608 | ~~10.2~~ July 13, 1910 | 2418866 | Aplegate = | Uncorrected 10.05 |
| 12.6 | B | 42308 | May 19 1911 | 9176 | " | 12.45 |
| 15.1 a.2 | MF | 10272 | | | | |
| | | 10142 | two poor | | | |
| 15.2 | | 10366 | | | | |
| | | 46779 | May 22 1916 | 21006 | | |
| | MF | 2592 | NS | | | |
| 15.2 | | 8505 | Apr. 30 1924 | | | |
| 15.4 a 5 | | 8762 | | | | |
| 15.5 | | 9151 | May 19 1925 | | | |
| 15.4 | | 9412 | June 20 | | | |

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1926phae.proj.1219M



Continued from f. 132.

Var { 145 marked on MF as 177
      177

Magns. Use 158 K. as mkd on print (4x5)
Invs. trans. to B 17093
Magns Bk 48, f. 50

Mkd on MF 10272

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1926phae.proj.1219w



Bb. 48, 150
Comp. Seq. 158 K
Magns

Corr. Magn. Use

| | | | | |
|---|---|---|---|---|
| 10 | 12.41 | +0.24 | 12.65 | 12.6 |
| 11 | 1272 | +.25 | 12.97 | 13.0 |
| 12 | 13.02 | .26 | 13.28 | 13.3 |
| 13 | 1352 | .26 | 1378 | 13.8 |
| 14 | 13.6 | .26 | 1386 | 13.9 |
| 15 | 14.1 | .25 | 14.35 | 14.4 |

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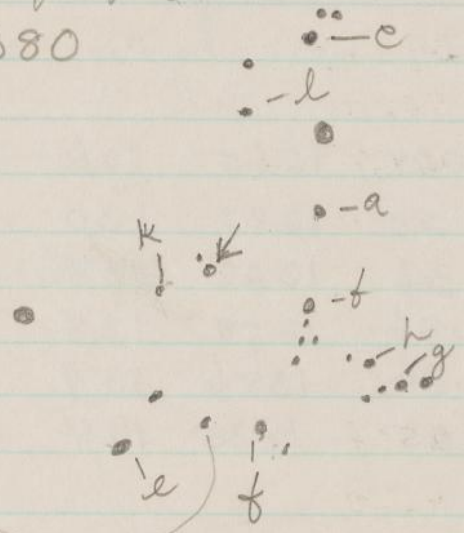
1926phae.proj.12190



Watch star first number for 12380 ↑

Seq. of 177 18 23 10 −31 46.6

a 12380




Corr. Mags used

| | | |
|---|---|---|
| Mags. estimated directly from 158K and checked by intervals Δ MF Δ a | a | |
| | b | |
| | c | |
| | d | |
| | e | ~~13.0~~ 12.9 |
| | f | 13.3 4 |
| | g | 13.6 |
| | K | 14.8 2 |
| | K | 14.8 |

Est from 158K MF 10272 13.1
a 12458 = 14.8
Est MF 9462 = 14.7
8505 13.6

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1926phae.proj.1219w



Near Mun

| | | | |
|---|---|---|---|
| MF | 8505 | 2423906 | 13.7 |
| | ~~8762~~ | " | ~~13.2~~ |
| | 8679 | 3967 | 13.3 |
| | 8762 | 4020 | 13.2 |
| | 9041 | 4269 | 13.2 |
| | 9383 | 4319 | 13.2 |
| | 9400 | 4320 | 13.2 |
| | 9410 | 4321 | 13.2 |
| | 9412 | 4322 | 13.3 |
| | 9427 | 4324 | 13.2 |
| | 9445 | 4325 | 13.2 |
| Mun | 9462 | 4326 | 14.6 |
| | 9479 | 4327 | 13.3 |
| | 9493 | 4328 | 13.3 |
| | 9494 | " | 13.1 |
| | 9495 | " | 13.3 |
| | 9521 | 4342 | 13.2 |

| | | | | |
|---|---|---|---|---|
| | 2661 | Aug. 23, 1897 | 13.2 | |
| a | 2673 | Aug. 26, " | 13.2 | |
| a | 12380 | May 20, 1923 | 13.2 | 23560 |
| | 12418 | June 6 1923 | 13.2 | 3577 |
| Mun → | 12458 | June 20, 1923 | 14.9 a 15.0 | 3591 |
| | 12490 | July 4 1923 | 13.1 | 3605 |

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Continued from p. 143

Variable 181

Using Seg. 158 K, (Magnus p. 177)

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Estimates near Min.

| | J.D | Corr. Magns. |
|---|---|---|
| 9200 | 4296 | 12.2 |
| 9215 | 98 | 12.2 |
| 9233 | 98 | 12.3 |
| 9273 | 4300 | 12.2 |
| 9290 | 4301 | 13.6 |
| 9353 | 4317 | 12.1 |
| 9400 | 20 | 12.3 |
| 9410 | 21 | 13.6 |
| 9412 | 22 | 12.1 |
| 9427 | 24 | 12.2 |
| 10272 | 4654 | 12.1 |
| 347 | 78 | 12.2 |
| 356 | 79 | 12.1 |
| 10366 | 81 | ft or defective? 14.6 ? |
| 10391 | 84 | 12.1 |
| 10399 | 86 | 12.1 |

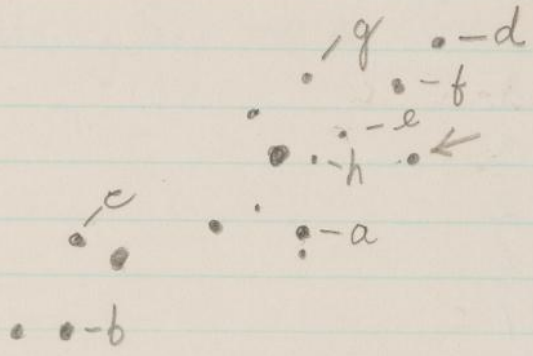
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Variable 181 Provisional Sequence

a 10775




Compared with 158 K as mkd on 4x5 print and Magns. Bk. 48, p. 50

Corrected Magns. used.

| | |
|---|---|
| a | 11.9 |
| b | 12.0 |
| c | 12.2 |
| d | |
| e | 13.2 |
| f | 13.8 |
| g | 14.1 |
| h | 14.3 |

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Bb. 48, p. 50
Comp Seq. 158 K
Magns.

Corr. Magns. Use

| | | | | |
|---|---|---|---|---|
| 5 | | | | |
| 6 | 11.16 | +0.24 | 11.40 | |
| 7 | 11.66 | | 11.90 | |
| 8 | 11.87 | | 12.11 | |
| 9 | 12.22 | | 12.46 | |
| 10 | 12.41 | | 12.65 | 12.6 |
| 11 | | | | 13.0 |
| 12 | | (See p. 169) | | 13.3 |
| 13 | | | | 13.8 |
| 14 | | | | 13.9 |
| 15 | | | | 14.4 |

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# Study of Innes stars.

X Innes 114 18 22.2 −32 43 (1875
W 154 22 32 −32 54. (1875 not same
(114) prec. 154 20$^s$ N 11$'$

Reg. mkd A 12380
Eyan 12458 & 12380; no object
Innes has remark; seen only 1915
Our 1915 plates are L' or do not cover in δ. (Innes −30°)
Probably Innes cannot be proved.

See p. 27 Innes 15, 18 25.4 −34 46 1900
18 23.7 −34 47 1875 10.6 to 14.7
Rev. see p. 27
Is probably not = W 77
Comp. region around this on A 12380–12458
to find this variable Found, mkd No. 187,
p. 184.
187 mean. = 18 21 59.6 −34 81.5 (1875)
Not Innes 15 = 23 42 47
15 pt. 1 42 S 15

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Var 77 18 24 40 – 34 39.8 (1875
15 = 23.7 -34 47
1m prec. 7' S

Elam 12458 & 12380 not found

Elam 12380 & 9025 found on 12380 !

See p. 185 = No. 188

---

Var. 79 18 20 58.0 -34 58.6 (1875)
Innes 9 18 20.8 48 -35 27 (1875)
Innes prec. 10s S 28'

9 is 15.5 at Max. May not be found on a pl.
Is at extreme S edge of 12380
Comp. 12380 & 12458
Would be off film of 12458
Try to find other plates

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Position measured Bk. 49, p. 90

1879-30 Variables Continued No. 187

found Oct. 26, 1928 Chart for Var. of Innes. No. 15 See p. 178

Mbd on 12458

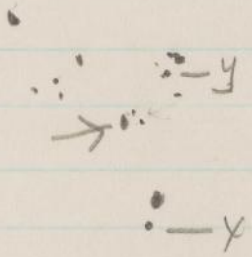
fr stars near sec 12458

not a large range on these plates.

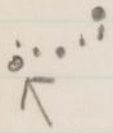
Br 12458 Fl 12380

Br = about = x

Fl = y




Detail of faint stars



Not Innes 15 1875 = 18 22 60 -34 31.5

Innes 15 = 18 23.7 -34 47

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Position measured, Bb. 49, f. 92



Vars. cont- No. 188

18 23 -34.8

→ Exam for No. 15 Innes See f. 179.

This is the star.

October 27, 1928

B. 12380
12458
13085
12418
12490
2673
* 2810 10m
B 29477

very ft but seen a 9025
9040

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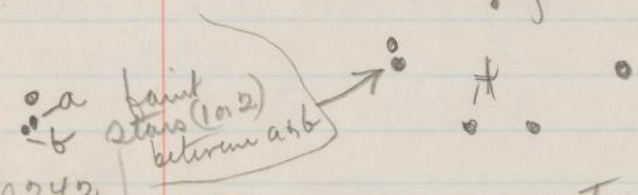


Position measured, Bk. 49, Page 95

No. 189 Mkd 4474

18 44.2 -38.3

found Nov. 2, 1928 in examining the vars. already found on A 4474-3696 S [illegible], 1 1/2, about same Dec. as 113




Br = much brighter than Y
Fr = fainter than y

on A 10242 & on 4474 and N on 3696 a shining on 3696 ?

Br 4474 see note — Fr 3696

Mkd 10242 2 stars bright? B 13086 ½ 3? fr stars

Br B 25507 60m B 13879

B 11329 85

Innes 158 18 43.0 (1875) -38 17 is probably this star or 112

on A 13086 looks like 4 stars 18 44.7 (1900) -38 15 Should expect a note about close stars if it were this star

10.3 – 15 P = 2421123 + 203 d

A 10241 258m 2 st — both br.

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1926phae.proj.1219W



✓

Vars. Cent 190 Mkd 4474, B27648

found Dec. 11, 1928

large range

18 41 -38.3

found when marking 112 on B 27648 ought to have been found on A plates

Br 4474
B 25507
11760
11789 Mkd already

Probably Russia

Ft B27648 60m Exp
Fta Medm 3696
* very ft 6160
N S 90242
Ft 13086
~~B27~~

This is V Cor. Austr. 18 40.7 -38 16

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1926phae.proj.1218W



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1926phae.proj.1219w



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1926phae.proj.1219w



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1920phae.proj.rzisw



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1926phae.proj.1219W

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1926phae.proj.121sw

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1926phae.proj.1219w

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1926phae.proj.1219w

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