1926phae.proj.1258w

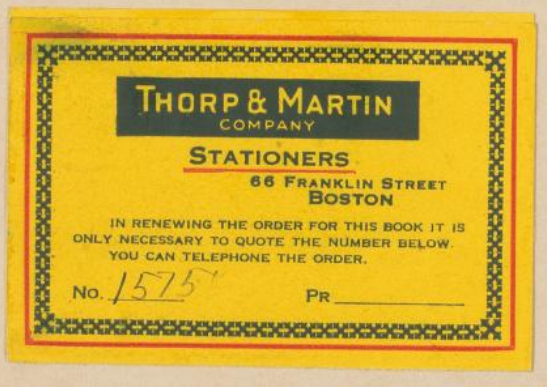
KG
11366
v.256

Ida E. Woods
Book 49
Discussion, Measures of Position
etc., New Variables

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1926phae.proj.1258W

δ Precession South 6h to 18h



Compare with orig sketch

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1926phae.proj.1258W

Continued from Book 39

Harvard College Observatory

Ida E. Woods

Book No. 49

Suspected Variables

Especially,

Measures of Positions

1

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1926phae.proj.125Bw

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1926phae.proj.1258W

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1926phae.proj..1258W

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1926phae.proj.1258w

Index

Page
130 Comet 1927 d. Plates examined for Mr. Carl L. Stearns, Wesleyan.

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1926phae.proj.1258w

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1926phae.proj.1258W

See, also, p. 11 Var 80?

Found July 19, 1926 only 1 image to be found
" on B plates
Bb 38, p. 214

see page 6 sketch
near Var 88

	x-Var	y-Var	x×4	sec δ
δ = -27 6593 9.8	4.65	0.5	1860	1.130
18 54 17.3 -27 45.9	Var for N			21,01800
21.0 0.5				
18 54 38,3 -27 45.4 (1875)				

Meas Mean pos of Var 88 (p 6) 18 54 40.4 -27 50.7 (1875)

x-Var 80	y-Var 80	x×4	sec δ			
0.38	5.3	1.52	1.131	1.7	5.3	
		1.71912		18 54 38 7	-27 45.4	(1875)

80 pos 88
80 N of 88

1926phae.proj.1258W

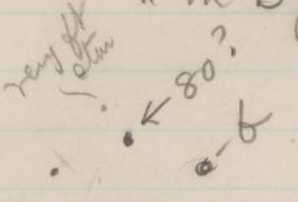
6 → Astr. Progr. 1928 See page 11 for 80

NB 859

Region 1824-23 Var. 88

Found July 20, 1921

" on B plates, Bk. 40, p. 10.



Unit by a and

-27 6589 8.8

1853 28.1 -27 43.3

80 N q b

88 fol 80

a 6124 c

meas Mar. 5, 1928 d

88

80 = an ink dot at position in relation to nearby stars of Var(?) 80 on B 32076, the only image found See p 5 for reduction

B 30870

CPD

			Magn.	x-Var.	y-Var.	x × 4 sec δ
a	-27	6590	9.6	16.25	5.4	Var fol S 65.00 1.130 73.45000
b	-27	6593	9.8	5.07	4.8	Var fol S 20.28 1.130 22.91640
c	-27	6599	9.0	17.32	2.7	Var prec N 69.28 1.131 78.35568

a 18 53 28.3 -27 45.0

1 13.4 5.4

18 54 41.7 -27 50.4

b 18 54 17.3 -27 45.9

22.9 4.8

18 54 40.2 -27 50.7

c 18 55 57.7 -27 53.8

1 18.4 2.7

18 54 39.3 -27 51.1

18 54 41.7 -27 50.4 +1.3 +0.3

40.2 50.7 -0.2 0.0

39.3 51.1 -1.1 -0.4

1.2 2.2

18 54 40.4 -27 50.7 (1875)

1.3 4.0 2.0

18 56 14.4 -27 48.7 (1900

Innes No. 135

2c α 3.7584 93.96

δ 4.7389 178.4725 = 1 68.5

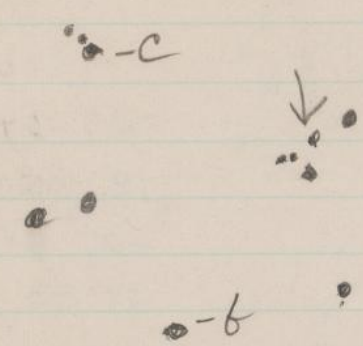
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1926phae.proj.1258W

→ Not in Prague 1928

Var. 150

Found August 3, 1926, on a plates, Bb. 40, f. 72



Orient in δ by a & c

a 8370
Meas.
Mar. 5, 1928

B 36385

	CPD	Magn.	x-Var.	y-Var.		xx4	Decδ	
a	-25 6594	10.2	8.00	5.2	Var fr S	32.00	1.107	35.42400
b	-25 6595	9.1	6.92	10.0	Var fr N	27.68	1.108	30.69712
c	-25 6597	9.6	13.20	5.0	Var fr S	52.80	1.107	58.44960

a 18 35 23.0 -25 20.8

35.4 5.2

18 35 58.4 -25 26.0

b 18 36 28.0 -25 35.7

30.7 10.0

18 35 57.3 -25 25.7

c 18 36 56.0 -25 21.0

58.4 5.0

18 35 57.6 -25 26.0

18 35 58.4 -25 26.0 +0.6 -0.1

35 57.3 25.7 -0.3 +0.2

35 57.6 26.0 -0.2 -0.1

23 27

18 35 57.8 -25 25.9 (1875)

1 32.5 1.3

18 37 30.3 -25 24.6 (1900)

Mt CPM

ZC α 3.7002 92.5050

δ 31340 78.35=1 18.4

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1926phae.proj.1253W

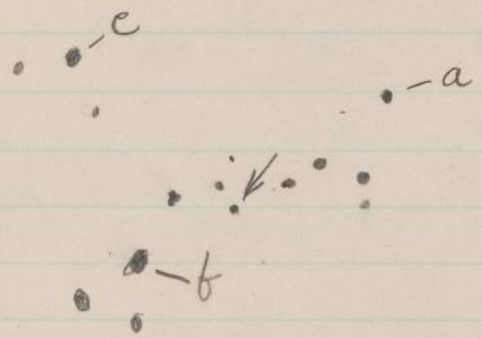
B → Not in Prager 1928 Innes Same star as 54

Regin 18 24-23 Var 185

Found August 4, 1926, on A plates, Bh. 40, f. 107

A 8370

meas. Mar. 6, 1928



Orient by:
-27 6495 8.5
18 33 57.0 -27 7.0
-27 6496 8.0
18 33 57.5 -27 33.5
very large images on a plate — tried to set as near correctly as possible

B 36385

	CPD	Magn.	x-Var.	y-Var.		x × 4	rec'd	
a	-27 6506	10.1	5.25	4.1	Var fol S	21.00	1.129	23.709
b	-27 6509	8.8	4.00	2 4/5	Var prec N	16.00	1.131	~~29.35~~ 18.096
c	-27 6510	10.0	7.04	5.1	Var prec S	28.16	1.129	31.79264

a 18 36 43.0 -27 41.7

29.4 (23.7) 4.1

ff stars — difficult b meas. exactly as they are not distinct on A 8370 and Var is not brought on 2752 Look up if needed

b 18 37 ~~+2.4~~ (26.7) -27 45.8

18 37 25.3 -27 48.1

18.1 2.4

18 37 7.2 -27 45.7

c 18 37 38.2 -27 40.8

31.8 5.1

18 37 6.4 -27 45.9

6.7

18 37 ~~+2.4~~ -27 45.8 ~~+3.7~~ -0.1

7.2 45.7 ~~-1.5~~ +0.4

6.4 45.9 2.3 -0.4

~~260~~ 23

18 37 ~~8.7~~ 6.8 -27 45.8 (1875

1 34.2 1.3

18 38 41.0 -27 44.5 (1900

Meas of 54 (39:210) =

18 38 41.1 -27 44.6 (1900)

ZC α 3.7674 94.1850

δ 3.2334 80.8350 = 1 20.8

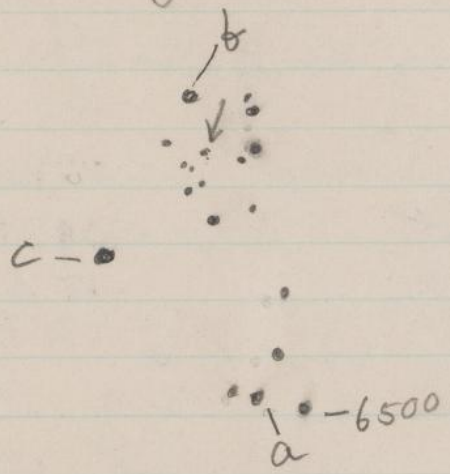
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1926phae.proj.1258W

Not in Prager 1928

Var. 183

Found August 4, 1926, on a plates, Bk. 40, p. 105.



Oriented by and -27 6505 9.5
18 36 12.0 -27 25.7

a 2752
meas.
March 6, 1928

B 36385

	CPD	Magn	x-Var.	y-Var.		4×4	sec δ	
a	-27 6501	10.1	0.96	7.5	Var fr N	3.84	1.128	4.33152
b	-27 6502	9.6	0.40	1.9	Var fr S	1.60	1.127	1.80320
c	-27 6503	9.1	2.60	2.6	Var fr S	10.40	1.127	11.72080

a 18 35 12.0 -27 35.2

4.3 7.5

18 35 16.3 -27 27.7

b 18 35 18.5 -27 25.9

1.8 1.9

18 35 16.7 -27 27.8

c 18 35 28.5 -27 30.4

11.7 2.7

Not Com 18 35 16.8 -27 27.7

18 35 16.3 -27 27.7 -0.4 00

16.7 27.8 +02 -0.1

16.8 27.7 +0.1 0.0

18 Cv

18 35 16.7 -27 27.7 (1875)

1 34.0 1.3

b v

18 36 50.7 -27 26.4 (1900

ZC α 3.7592 93.98

δ 3.6747 76.8675 = 1 16.9

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1926phae.proj.1253w

10 → not in Prager 1928 Innes

H1859

Near Nova Reg 18 24-23

b Var. No. 209
94
93
Found August 4, 1926, on A plates
" Blk. 40, f. 131

meas March 6, 1928

Orient by
-29 5599 9.4
18 25 25.3 -29 42.2
-29 5600 9.5
18 25 25.3 -29 57.3

c
96

A 8370



Meas. x if needed



CPD.
B 36385

Reg. out * remeasured May 16

		Magn	x-Var	y-Var		x	x4	sec d	
a	-29° 5589	10.3	6.98	13.8	Var fol N	27.60	1.151	31.76760	32.13592
b	-29 5594	10.0	1.65	13.4	Var f S	2.60	1.146	2.97960	7.56360
c	-29 5596	10.0	9.08	4.0	Var f S	36.32	1.147	41.69536	

a 18 23 37.3 -29 40.1
3.8 13.8
18 24 09.1 -29 27.1

b 18 24 17.3 -29 13.7
3.0 13.4
18 24 14.3 -29 27.1

c 18 24 52.3 -29 25.9
41.7 4.0
18 24 10.6 -29 26.9

18 24 9.1 -29 27.1 -2.2 +0.2
24 14.3 27.1 +3.6 -0.2
24 10.6 26.9 -0.7 0.0
4.0 2.7
18 24 11.3 -29 27.0 (1875)
1 35.6 0.9
18 25 47.0 -29 26.0 (1900
45.5

C.P.D. 1.0

Innes No. 16

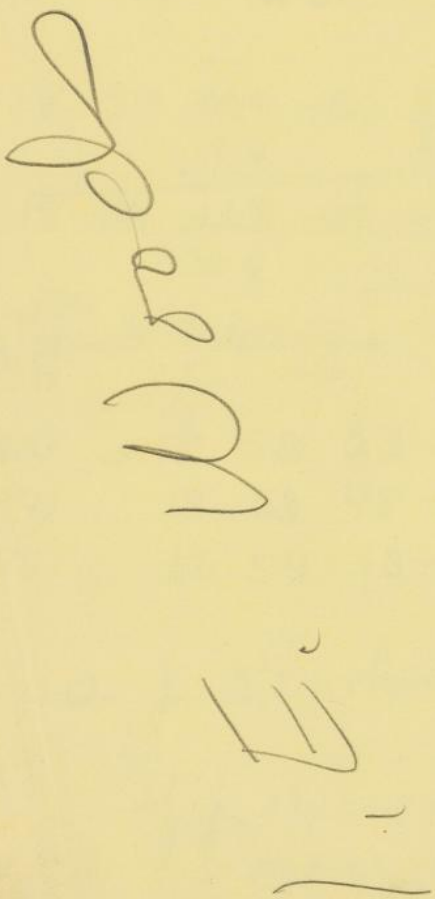
ZC α 3.8226 95.5650
δ 2.1127 52.8175

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1926phae.proj.1258W

Var. No. 80

Rough estimate of 80 fr



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1926phae.proj.1258W

Var. No. 80

Rough estimate of 80 from 88

If faint stars marked on A 2736 are correct for both 80 & 88.

88 = 18 54 40.4 −27 50.7 (1875) f. 6.

		mm	x×4	sec δ 88	
80 ~~ft~~		0.3	1.2	1.131	1.3572
precedes	n	5	6		

wrong ft starmised at first	18	54	40.4	−27 50.7	(1875) meas. pos. 88
			1.4	2.6	
	18	54	41.8	−27 49.1	(1875) pos of 80 approx
			39.0		

80 is probably this star difficult to determine

Union Cir 20	83)	18	53	23 −27 49.3	14.5 to 15.5
	84)	18	53	48 −27 28.5	14.0 to <17
	85)	18	54	13 −27 3.9	13.5 to <16

see f 5 (which is only a mkd position)

If f 11 is used, check ft stars measured, very carefully

(This result was needed in study of Innes stars)

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1926phae.proj.1253W

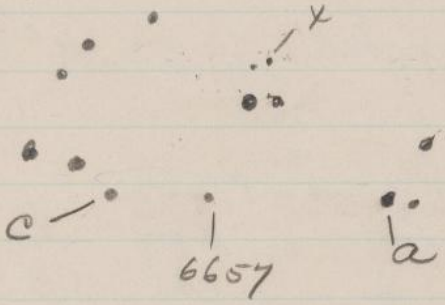
12

HB 859

Regin
18 24 -23

Var. 81 does not show on any a plate found.
Found July 19, 1926 Var prec. x slightly
" on 13 plates, Bb. 38, l. 215
Meas. to see if it will be Innes' star

a 2752
March 7, 1928



Orient by (in δ)
-28 6657 10.0
18 36 40.0 -28 219
and c

B 20359

	CPD	Magn	x-Var	y-Var		Recd	x×4	
a	-28° 6655	9.2	8.35	6.6	x fol N	1.136	33.40	37.94240
b	-28 6658	9.6	2.52	5½	x prec S	1.134	10.08	11.43072
c	-28 6660	9.8	6.60	7.0	x prec N	1.136	26.40	29.99040

a 18 35 53.5 -28 21.1
37.9 6.6
18 36 31.4 -28 14.5

b 18 36 43.0 -28 9.9
11.4 5.0
18 36 31.6 -28 14.9

c 18 37 1.0 -28 21.8
30.0 7.0
18 36 31.0 -28 14.8

18 36 31.4 -28 14.5 +0.1
31.6 14.9 +0.3
31.0 14.8 -0.3
1.0 2.0

x = 18 36 31.3 -28 14.7 (1875)
CPD 1 34.8
2c 1 34.4 +1.3
(18 38 5.7 -28 13.4 (1900)

Innes 18 38.0 -28 14. (1900) Cat

2c. α 3.7761 94.4025
δ 3.1823 79.5575

Not to make note of

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1926phae.proj.1258W

Meas 81 on B pl ? See p. 14

Innes 18 36 27-28 15.0 (1875
58 1 345+ +1.3
18 38 2-28 137 (1900

3.7816 945 400

81 precedes this slightly

(This is Star Y)

nearness of Y, since position of Var is not a measured one

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1926phae.proj.1253W

Var. 81 Cont.

Star 58 Times Union Obs Cir.

→ Not in Prager 1928

UC 3*	18 36.4	-28 15	2421066	+380 d	12.3 t 17
	J.D.		μ 301		
Observations of this star	18882	July 29	1910		
	18916		1910		
	19242		1911		
	19592	all	1912		
	19975		1913		
	19977	faint	1913		
	19982		1913		
	20380		1914		
	20387		1914		
	20389		1914		
	20713		1915		
	20716		1915		
	20748		1915		
12.7	21064	July 19	1916		
12.3	21066	July 21	1916		

U. Cir. 20

15.0	July 16	1914
15.5	July 23	1914
15.5	" 25	1914

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1926phae.proj.1258w

Tried to find A or B plates near Innes' date

B 44889 10m July 27, 1914 N B close to Innes date May
Van N.S. but poor plate
AM 11778 May 22 1916 30 N S
AM 12127 July 3 1916 N S or limit of pl
AM 12216 July 18 1916 62m Probably seen (perhaps 12m)
12208 July 17 Seen ff
12235 July 21 Perhaps trace
12508 Sept 28 31 Too poor.

~~The image seen~~ ~~may be~~ Probably brighter than June 30, 1903 B 32076

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1926phae.proj.1258w

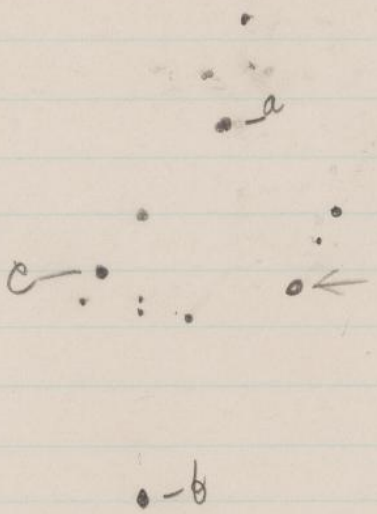
Regin
18 24-23

Var. 240

Found Sept 8, 1926, on A plates, Bk. 40, f. 172.

meas.
March 9, 1928
A 4800

Var slightly
Sqc



Orient by: (in δ)
-30 57 67 10.4
18 50 24.4 -30 57.7
-30 57 69 9.0
18 50 38.0 -30 57.5

CPD

	B 32407	Magn.	x-Var	y-Var		x x 4	sec δ	
a	-30 57.71	9.9	2.57	6.0	Var. prec. S	10.28	1.162	11.94536
b	-30 57.72	9.4	4.42	11.4	Var prec N	17.68	1.165	20.59720
c	-30 57.73	9.8	5.67	0 5	Var. prec S	22.68	1.163	26.37684

a	18 50 45.4	-30	36.0					
	11.9		6.0		18 50 33.5	-30	42.0	-01 -0.2
	18 50 33.5	-30	42.0		33.8		41.6	+02 +02
b	18 50 54.4	-30	53.0		33.5		41.9	-0.1 -0.1
	20.6		11.4		18		55	
	18 50 33.8	-30	41.6		18 50 33.6	-30	41.8	(1875
c	18 50 59.9	-30	41.4		1 36.2		1.8	
	26.4		0.5		18 52 09.8	-30	40.0	(1900)
	18 50 33.5	-30	41.9					

not CPM

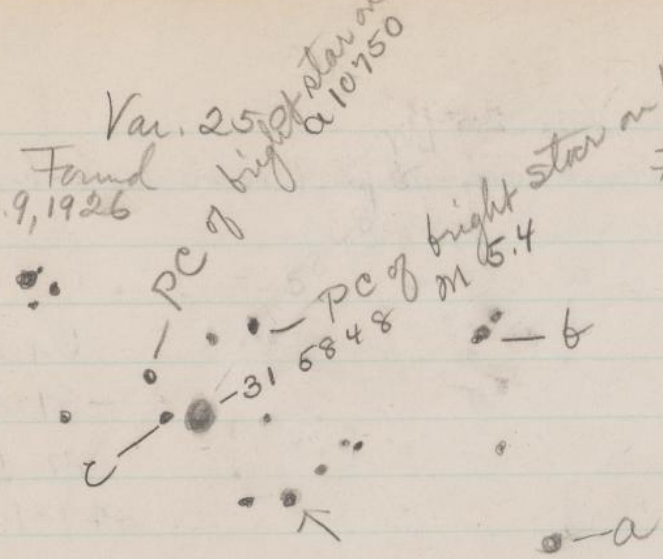
α 3.8462 96.1550
δ 4.3883 109.7075

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1926phae.proj.1258W

HB 859

Var. 25 Found Sept. 9, 1926



Found on a plates, Pls. 40, f. 182

Orient by:
-31 5836 9.9
18 54 45.6 -31 12.8
-31 5837 10.2
18 54 45.8 -31 10.9

Prismatic
Comparisons are
plotted in as they
appear on plates used
to avoid confusion of
field if anyone needs to use this
plotting. J.E.W.

B 32407

	CPD	Magn.	x-Var.	y-Var.
a	-31° 5839	10.3	9.00	0.9
b	-31 5840	10.3	6.92	6.8
c	-31 5849	9.9	3.50	2.7

a 18 55 29.1 -31 17.3
42.1 0.9
18 56 11.2 -31 16.4

b 18 55 41.1 -31 9.9
32.4 6.8
18 56 13.5 -31 16.7

c 18 56 28.0 -31 13.9
16.4 2.7
18 56 11.6 -31 16.6

	x	x4	sec δ	
Var. fol N	36.00	1.170	42.12000	
Var. fol S	27.68	1.169	32.35792	
Var. prec S	14.00	1.169	16.36600	
18 56 11.2	-31 16.4	-0.9	+0.2	
	13.5	16.7	+1.4	-0.1
	11.6	16.6	-0.5	0.0
	63	17		
18 56 12.1	-31 16.6			(1875)
	1 36.5	2.0		
18 57 48.6	-31 14.6			(1900)

Lines No. 162

α 3.8598 96.4950
δ 4.8696 121.7400

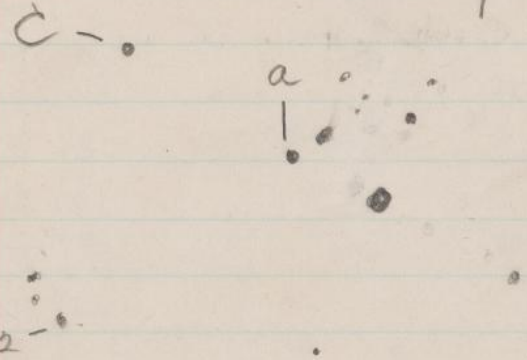
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1926phae.proj.1258W

Regin
18 24 -23

Var. 251 = 243

Var. Found Sept. 9, 1926, on a plates, Bk 40, p. 182



Oriented by:
-31 5904 = b
-31 5905 9.6
19 1 13.7 -31 7.1

a 10750
March 9, 1928

Star images on this plate are large, difficult to read exactly.

CPD

		Magn	x-Var	y-Var		x x 4	rec'd	
B 32407								(1.7258)
a	-31° 59' 02	9.6	2.35	16.8	Var prec S	9.40	1.173	11.02620
b	-31 59 04	9.5	8.32	7 7/8	Var prec N	33.28	1.178	39.20384
c	-31 59 07	9.4	12.22	22.5/4	Var prec S	48.88	1.171	57.23848
a	19 0 46.2	-31 28.9						
			11.0	16.8				
	19 0 35.2	-31 45 7			19 0 35.2	-31 45.7	+03	-0.1
b	19 1 13.7	-31 53.1				34.5 -31	45.4	-04 +0.2
			39.2	7.7		35.0 -31	45.7	+01 -0.1
						27	18	
	19 0 34.5	-31 45.4			19 0 34.9	-31	45.6	(1875)
c	19 1 32.2	-31 23 3						
			57.2	22.4				
	19 0 35.0	-31 45.7						

Perhaps not the best Cat & Stars for each var but elements cover both Vars. by same stars

Same as No. 243

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1926phae.proj.1258W

CDM -31 16401 19 1 35.7 -31 37.19.9
38.1

Conclusion: Van was right on date on CDM.

Van. 252 [c P D & c + D 2.4 m] diffn – dec c

Use same stars as page 22, but reset –

Van. found Sept. 9, 1926, on a plates, Bks. 40, p. 184

a 10750
March 9, 1928

	x-Var	y-Var		x × 4	sec δ	
a	11.15	7.9	Van fol S	44.60	1.173	52.31580
b	5.05	15.7	Van fol N	20.20	1.178	23.79560
c	1.30	13.5	Van fol S	5.20	1.171	6.08920

a 19 0 46.2 -31 28.9
52.3 7.9
19 1 38.5 -31 36.8

b 19 1 13.7 -31 53.1
23.8 15.7
19 1 37.5 -31 37.4

c 19 1 32.2 -31 23.3
6.1 13.5
19 1 38.3 -31 36.8

19 1 38.5	-31 36.8	+0.4	-0.1	
1 37.5	-31 36.4	-0.6	+0.3	
1 38.3	-31 36.8	+0.2	-01	
	3		20	
19 1 38.1	-31 36.7			(1875)
	36.6		2.2	
19 3 14.7	-31 34.5			(1900)

α 3.8651 96.6275
δ 5.3285 ~~132.2125~~

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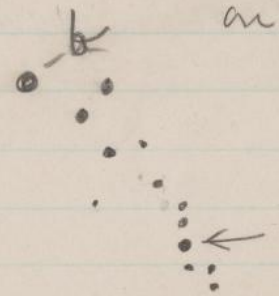
1926phae.proj.1258w

Region
18 24 -23

Note ff stars close if needed.

HB 859

Var. 260 M
Found March 15, 1928
on A plates (by special exam for Innes star) Bk. 40, p 222.



a 8986

Printed
-27 6589 8.8
18 53 28.1 -27 43.3
-27 6590 9.6
18 53 28.3 -27 45.6

B 33494 Magn x-Var. y-Var x x 4 recd

a	-27	6592	9.2	2.50	12.3	10.00	1.125 Vanfel'n	11.25.000
b	-27	6594	9.4	~~4.00~~ 3.95	3.6	15.80	1.122 Vanfel'n	17.72760
c	-27	6595	9.2	4 42	10.9	17.68	1.125 Vanfel'n	19.89000

a 18 54 8.8 -27 16.0

		11.2	12.3		
	18 54 20.0	-27	3.7	18 54 20.0 -27 3.7	-0.3 +0.2
		20.6	4.2		+0.3 -0.3
b	18 54 38.3	-27	0.6		+0.1 0 0
		17.7	3.6		
	18 54 20.6	-27	4.2	18 54 20.3 -27 3.9	(1875
c	18 54 40.3	-27	14.8	1 33.4	2.0
		19.9	10.9	18 55 53.7 -27 1.9	(1900
	18 54 20.4	-27	3.9		

Innes No. 85

α 3.73~~64~~ 93.41
δ 4.7103 117.7575 = 1 57.8

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1926phae.proj.1258M

Enough for? Probably not Dimes

Var. 48

Found July 17, 1926 on a plates Bb 38, p. 182

a 8986

May be largely out.
Orientation is
difficult—
Comp stars widely
separated and
orientation stars
far off and close
together.

B 33494

Orient by
-26 6601 8.3
18 51 19.7 -26 21.4
-26 6602 9.8
18 51 19.7 -26 18.9

	Magr.	x-Var.	y-Var.	x x⁴	sec δ	
a	-25 6628	10.2	6.00	16.0	24.00	1.111	26.66400	Var fr S
b	-25 6630	9.4	4.60	9.3	18.40	1.111	20.44240	Var fr S
c	-26 6588	9.6	12.10	29.3	48.40	1.117	54.06280	Var fr N

a 18 45 53.0 -25 44.9

	26.7	16.0	18 46 19.7	-26	0.9	+2.3 -0.1
18	46 19.7	-26 0 0.9		46 18.0		0.7 +0.6 +0.1
b	18 46 38.4	-25 51.4		46 14.6		0.7 -2.8 +0.1
	20.4	9.3		22.3		2.3
18	46 18.0	-26 0.7	18 46 17.4	-26	0.8	(1875)
c	18 47 8.7	-26 30.0		1 32.8		1.7
	54.1	29.3	18 47 50.2	-25	59.1	(1900)
18	46 14.6	-26 0.7				

Not CDM

2C. Prec. α 3.7114 92.7850
δ 4.0231 100.5775
1 40.6

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1926phae.proj.1253W

Regiw 18 24-23 Var. 209 Lunes Var. near Nova Sag No. 5.

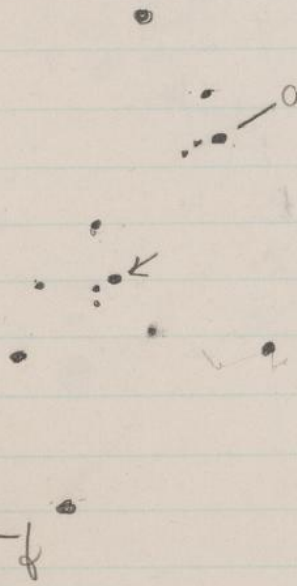
Bks. 40, p. 131

a 8370 measured, p. 10

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1926phae.proj.1258M

No. 87
Found July 20, 1926 on B plates, Bk. 40, p. 9.



a 4800
Meas. March 28, 1928. a-c

Orient by (in δ)
a and
-30 5755 9.9
18 48 2.5 -30 48.0

B 2 2558

	CPD	Magn	x-Var.	y-Var	
a	-30° 57′	43	10.6	3.95	4.3
b	-30 57	47	10.0	4.65	7 3/2
c	-30 57	52	10.4	9.42	1.4

a 18 46 21.0 -30 47.9
18.4 4.3
18 46 39.4 -30 52.2

b 18 47 0.3 -30 59.7
21.7 7.3
18 46 38.6 -30 52.4

c 18 47 23.0 -30 50.9
43.9 1.4
18 46 39.1 -30 52.3

Not CPM.

	xx4	sec δ	
Var fol S	15.80	1.164	18.39120
Var prec N	18.60	1.166	21.68760
Var prec S	37.68	1.165	43.89720

18 46 39.4 -30 52.2 +0.4 +0.1
38.6 52.4 -0.4 -0.1
39.1 52.3 +0.1 0.0
1 9
18 46 39.0 -30 52.3 (1875)
1 36.4 1.7
18 48 15.4 -30 50.6 (1900)

α 3.8544 96.3600
δ 4.0539 101.3475=
1 41.3

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1926phae.proj.1253W

28 Reg. 1824-23 **Double Variable**

further ☆ added later to give triangle

Var. 141

A Var found on B plates, July 30, 1926 Bk 40, f 63
On Mar 30, 1928 I found that there are two Vars. very close together, A & B

Meas March 31, 1928

a 7494
both a & b faint

Print by:
b and
-23 7265 9.8
18 43 21.3 -23 6.8

detail of B plate
B 19581

	Magn.	x-Var.	y-Var.			x x 4	sec δ	
a -23 7262	10.4	6.05	11.8	Var fol S		24.20	1.091	26.40220
b -23 7266	8.7	*5.22	0.0	Var prec same δ		20.88	1.092	22.80096
c -23 7271	9.4	20.20	13.9	Var prec S		80.80	1.091	88.15280

a 18 42 32.3 -23 33.0
26.4 11.7

*b large image

18 42 58.7 -23 44.7
b 18 43 21.3 -23 44.6
22.8 0.0

Not CDM

18 42 58.5 -23 44.6
c 18 44 25.3 -23 31.0
1 28.2 13.9

18 42 57.1 -23 44.9

B follows A
B S m m A S
.048 (0.25) a little over, = ¼ m m = 15+, Perhaps mistook 16 & 17"

x x 4	sec δ	A S
0.312	1.092	0.34944

Is B same star as the Var. on a 7320

18 42 58.7 -23 44.7 +0.6 0.0
58.5 44.6 +0.4 +0.1
57.1 44.9 -1.0 -0.2
3 22

18 42 58.1 -23 44.7 (1875
1 31.3 1.6

A = 18 44 29.4 -23 43.1 (1900
fol 3.3 S 0.2

B = 18 44 32.9 -23 43.3 (1900
29.7

Sec of R.A. checked by mags D. S.

	2c Prec
α 3.65 21	91.3025
δ 3.7379	93.4475 = 1 33.4

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1926phae.proj.1258M

Three Stars of Abnt Magn 16 Summed Var

Star x 16th magn follows 2.0 north 0.1 ✓
" y " " " 1.9 South 0.2 ✓
" z " " " prec. 0.4 north 0.1 ✓

Var. 237

Found August 6, 1926
" on 2c plates, Bk. 40, f. 159

A 2842
meas. April 6, 1928

-24° 6549 - o .•-b

This is difficult to select proper stars, especially for orientation as Var. is on Edge of last plate for meas.

c — o

•••← • •-a
• ●
•

Orient by; in δ
-24 6548 10.1
b = 18 48 10.3 -24 56.2
-24 6549 9.0
18 48 21.3 -24 56.2

B 30870

C.P.D.	Magn.	x-Var	y-Var		x×4 see δ
a -25 6634	9.4	13.96	0.2	Var fol. slightly N	55.84 1.105 61.70320
b -24 6548	10.1	10.72	14.8	Var fol. S	42.88 1.103 47.29664
c -25 6636	8.8	6.00	6.1	Var fol. S	24.00 1.104 26.49600

a 18 47 54.9 -25 10.9
1 1.7 0.2
18 48 56.6 -25 10.7

b 18 48 10.3 -24 56.2
47.3 14.8
18 48 57.6 -25 11.0

c 18 48 30.9 -25 4.8
26.5 6.1
18 48 57.4 -25 10.9

18 48 56.6 -25 10.7 -0.4 +0.2
18 48 57.6 -25 11.0 +0.4 -0.1
18 48 57.4 -25 10.9 +0.2 0.0
6 26
18 48 57.2 -25 10.9 (1875
1 32.2 1.8
18 49 29.4 -25 9.1 (1900)

Not CPM

		xx4	see δ	Var.	
x	0.45 fol. 0.3 north	1.80	1.105	1.98900	
y	0.42 fol. 0.2 south	1.68		1.85640	

z 0.10 preceding 0.40
0.1 north 1.105
0.44206

2c Prec. α 3.6866 92.1650
δ 4.2501 106.2525
1 46.3

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1926phae.proj.1258W

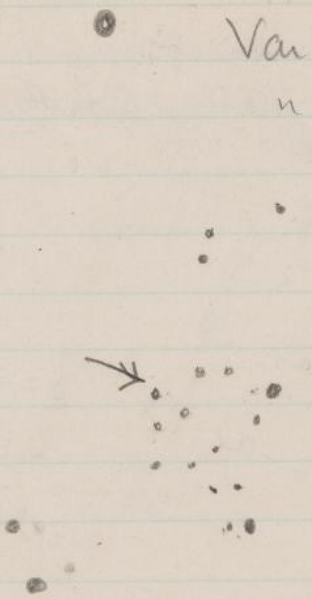
30 Reg. 18 24-23

On a 12996 this regim is close to S edge all images badly out of focus

Marking of faint star for var. confirmed by MacGill a 12996

Var. 5

Var. found April 30, 1926 " " on MF plates, B&L 37 f. 86



meas April 25

Orient by: (ind)

-25 6576 9.6
18 29 45.0 -25 23.9
-25 6582 10.0
18 32 21.9 -25 23.8

See note for Var 6, also applies to Var 5

B 19580

	CPD	Magn		x-Var	y-Var		xx 4	sec δ	
a	-25 6562	9.2		6.00	8.9	Var N fol	24.00	1.111	26.664
b	-25 6566	8.5	*	1.55	10.6	Var S prec	6.20	1.108	6.8960
c	-25 6567	9.4		3.00	10.3	Var N prec.	12.00	1.111	13.332

a 18 25 52.5 -25 47.8

26.7 8.9

18 26 19.2 -25 38.9

18 26 19.2 -25 38.9 +0.9
17.6 38.9 -0.7
18.2 38.9 -0.1

250

18 26 18.3 -25 38.9 (1875)
1' 32.8 1.0
18 27 51.1 -25 37.9 (1900)

* b very large image

b 18 26 24.5 -25 28.3

6.9 10.6

18 26 17.6 -25 38.9

c 18 26 31.5 -25 49.2

13.3 10.3

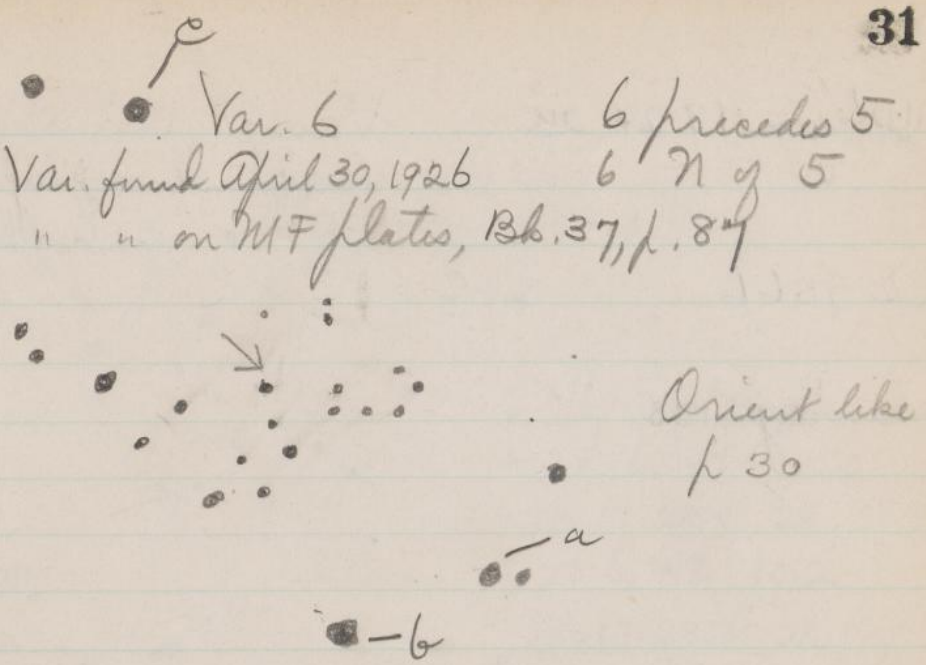
18 26 18.2 -25 38.9

Z.C. Prec. α 3.7110 92,7750
δ 2.2967 57.4175

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1926phae.proj.1258W

Marking of faint star for var. confirmed by M A Gill.
a 12996



meas April 25 1928

ft stars plotted on rather large scale to show iden, since variable had to be meas. on plate showing var.

	rey	ft.	⊙	PD	Magn.	x-Var.	y-Var.		xx4	secδ	
a	-25	6553		10.2	4.15	5.2	Var N fil		16.60	1.110	18.42600
b	-25	6554		9.6	2.00	6.9	Var N fil		8.00	1.110	8.880
c	-25	6555		10.2	3.32	7.1	Var S fil		13.28	1.108	14.71424

a 18 24 33.7 -25 40.8
18.4 5.2
18 24 52.1 -25 35.6

b 18 24 42.7 -25 42.9
8.9 6.9
18 24 51.6 -25 36.0

c 18 25 8.2 -25 28.6
14.7 7.1
18 24 53.5 -25 35.7

18 24 52.1 -25 35.6 -0.3 +02
51.6 36.0 -0.8 -02
53.5 35.7 +1.1 +0.1
7.2 23
18 24 52.4 -25 35.8 (1875) ✓
1 32.7 0.9
18 26 25.1 -25 34.9 (1900) ✓

α 3.7099 92.7475
δ 2.1722 54.3050

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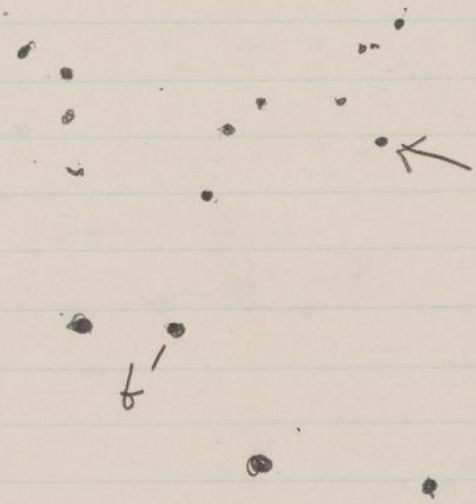
Regions 18 24-23 Var. 91

Var. found on July 22, 1926

" on a plates, Bk. 40, f. 13

a 9566 .-c

meas May 2, 1928



Orient by

-20 7063 9.4

18 26 20.4 -20 22.2

and -20 7064 10.0

18 26 20.4 -20 33.8

a — and in δ.

-20 7063 (abrre)

and -20 7065

18 26 38.9 -20 22.2

B 14044

	CPD	Magn	x-Var.	y-Var				
a	-20 7055	10.3	12.30	13.8	Var fol N	49.20	1.067	52.49640
b	-20 7063	9.4	7.70	11.0	Var prec N	30.80	1.067	32.86360
c	-20 7066	9.0	12,52	9½	Var. prec S	50.08	1.064	53.28512

a 18 24 56.4 -20 24.9

52.5 13.8

18 25 48.9 -20 11.1

near extreme edge of a fl. b 18 26 20.4 -20 22.2

32.9 11.0

18 25 47.5 -20 11.2

c 18 26 41.9 -20 2.0

53.3 9.5

18 25 48.6 -20 11.5

18 25 48.9 -20 11.1 +0.6 +0.2

47.5 11.2 -0.8 +0.1

48.6 11.5 +0.3 -0.2

1.0 8

18 25 48.3 -20 11.3 (1875)

1 29.0 0.9

18 27 17.3 -20 10.4 (1900)

α 3.5608 89.02

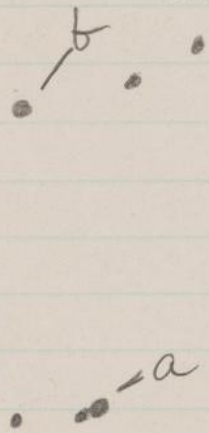
δ 2.2532 56.33

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1926phae.proj.1258W

Var. 170
Var. found August 4, 1926
" " on a plates, Bk. 40, f. 92.

a 8370



meas. May 5, 1928

Orient by:
-28 6547 10.2
18 17 28.8 -28 34.8
-28 6548 10.2
18 17 28.8 -28 14.7

B 19580

	CPD	Magn.	x-Var	y-Var.		xx4	Recd	
a*	-28 6556	9.0	5.87	2.6	Var fol N	23.48	1.134	26.62632
b	-28 6410	9.0	3.65	10.4	Var fol S	14.60	1.131	16.51260
c	-28 6561	10.2	6.97	6.8	Var fol N	27.88	1.134	31.61592

a 18 18 20.3 -28 6.1

*a rather large image and close to another star		26.6	2.6			
	18 18 46.9	-28 3.5		18 18 46.9	-28 3.5	-0.1 -0.2
	18 18 30.3	-27 53.0		46.8	3.4	-0.2 -0.1
		16.5	10.4	47.2	3.1	+0.2 +0.2
	18 18 46.8	-28 3.4		29	8 10	
				18 18 47.0	-28 3.3	(1875)
c	18 19 18.8	-28 9.9		1 34.6	0.7	
		31.6	6.8	18 20 21.6	-28 2.6	(1900)
	18 18 47.2	-28 3.1				

2
.1
2

Z.C. Prec.

α 3.7823 94.5575
δ 1.6418 41.0450

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1926phae.proj.1258W

38 Card

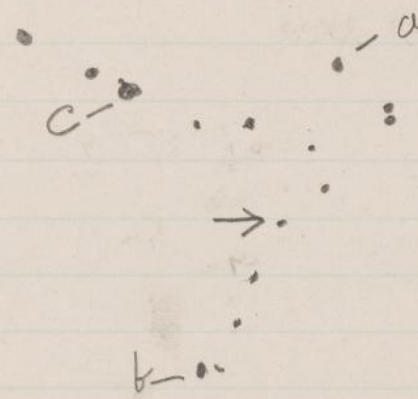
Innes

MW Region 18h 9m -30°

Var. 8

Found May 1, 1926, Bk. 37, p. 115

" on MF plates



Orient by

-30 5568 10.0

18 27 14.0 -30 3.8

-30 5569 10.3

18 27 14.0 -30 3.62

a10615

B16099

	CPD	Magn.	x-Var	y-Var		x x y	rec'd
a -30°	5526	10.3	1.87	4.7	Var fr S	7.48	1.165 8.71420
b -31	5572	9.4	2.50	3.9	Var fr N	10.00	1.167 11.67000
c -30	5528	9.0	5.88	4.1	Var fr S	23.52	1.165 27.42432
							27.40080

✓ a 18 21 56.0 -30 53.7

8.7 4.7

18 22 4.7 -30 58.4

✓ b 18 22 16.2 -31 2.5

11.7 3.9

18 22 4.5 -30 58.6

✓ c 18 22 32.0 -30 54.4

27.4 4.1

18 22 4.6 -30 58.5

18 22 4.7 -30 58.4

4.5 58.6

4.6 58.5

18 22 4.6 -30 58.5 (1875)

1 36.8 0.8

18 23 41.4 -30 57.7 (1900)

Not in Prager

Innes No. 11 18 22 4 -30 58.3 (1875)

Period U.C. 37

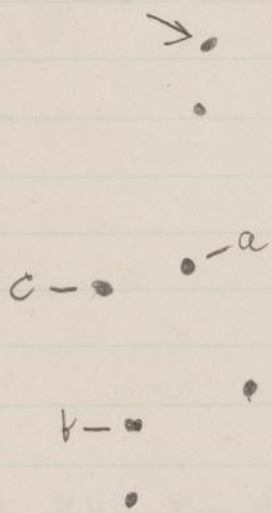
2c Prec. α 3.8709 96.7725

δ 1.9288 48.2210

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1926phae.proj.1258M

Var 5
Found May 1, 1926, Bk 37, f. 112
" on MF plates



Orient by
$-29^\circ 5599$ 9.4
18 25 25.3 −29 42.2
−29 5600 9.5
18 25 25.3 −29 57.3

a 10615

B 16099
Catalogue stars are far from Var.

mgn	CPD	x-Var.	y-Var		recd	x	y
10.2	a −29 5602	1.45	9.7	Var prec. N	1.146	5.80	6.64680
10.3	b −29 5603	4.65	20.2	Var prec N	1.148	18.60	21.35280
10.2	C −29 5605	5.52	12.5	Var prec N	1.146	22.08	25.30368

a 18 25 41.3 −29 15.9
6.6 11.7
18 25 34.7 −29 4.2

b 18 25 55.8 −29 24.3
21.4 20.1
18 25 34.4 −29 4.2

C 18 25 59.3 −29 16.7
25.3 12.5
18 25 34.0 −29 4.2

18 25	34.7	−29	4.2	−0.3
	34.4		4.2	00
	34.0		4.2	+04
18 25	34.4	−29	4.2	(1875
1	35.3		0.9	
18 27	9.7	−29	3.3	(1900)

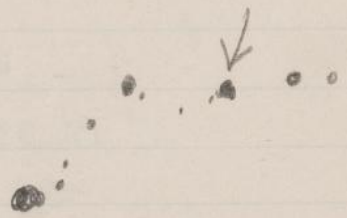
This is probably
CDM −29 15079 10
18 25 34.2 −29 38 (1875)

	1 yr.	25 yr.
α	3.8108	95.2700
δ	2.2331	55.8275

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1926phae.proj.1258W

40
Card
MW Region 18 9-30 Var. 15
Found May 1, 1926, on MF plates, Bks. 37, f. 12D.



B 9279

CPD -28° 6297 17h 59m 50.4 -28° 24.8 (1875)
1 35.0 34.9 0.0
18 1 25.4 -28 24.8 (1900)
25.3

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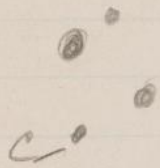
1926phae.proj.1258M

Var. 17

Var. found May 1, 1926, on MF plates, Bk. 37, f. 124

8×10

a 12225

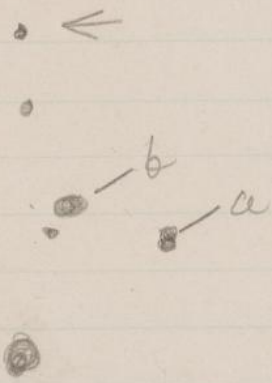


near edge
but no other
a pl. found.

Orient N

−33° 51 05 9.4
18 20 45.1 −33 37.0
−33 51 13 9.4
18 21 46.1 −33 37.5

Stars had to be selected, on orientation meass., that came on plate



	CPD	Magn	x-Var.	y-Var	x×4	sec δ		
a	−33 51 06	9.5	5.00	6.6	20.00	1.205	24.100	Var. fol. N
b	−33 51 07	9.8	1.05	5.8	4.20	1.205	5.06100	Var. fol. N
c	−33 51 13	9.4	3.40	11.5	13.60	1.201	16.33360	Var. prec. S

a 18 20 58.6 −33 54.8

	24.1	6.6	18 21 22.7	−33 48.2	−24	+0.4	
18 21 22.7	−33	48.2	21 22.7	48.5	−2.4	+0.1	
b 18 21 17.6	−33	54.3	21 29.8	49.0	+47	−0.4	
	5.1	5.8	152	5.7			
18 21 22.7	−33	48.5	18 21 25.1	−33 48.[illegible]			(1875)
c 18 21 46.1	−33	37.5	1 39.1	0.8			
	16.3	11.5	18 23 4.2	−33 47.8			(1900)
18 21 29.8	−33	49.0					

99.0850
46.6500
3.9634
1.8660
x co

Innes 10, 18 21 24 −33 48.7 (1875)

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1926phae.proj.1258W

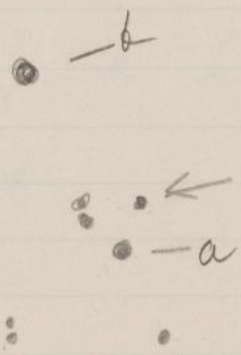
42 Cont

Innes

MW Region 189-30

Var. 20

Found May 3, 1926, on MF plates,
Bds. 37, f. 127



a 10775

B 16496	Magn	x-Var	y-Var		x x 4 sec δ	
a -31 5587	10.3	0.28	1.4	Var prec N	1.12	1.170 1.31040
b -31 5588	8.6	3.75	4.0	Var prec S	15.00	1.169 17.53500
c -31 5590	10.2	7.00	10.2	Var prec N	28.00	1.17 2 32.81600

✓a 18 23 56.2 -31 18.2

	1.3	1.4	18 23 54.9	-31 16.8	-0.6
18	23 54.9	-31 16.8	23 55.2	-31 16.9	+0.3
✓b 18	24 12.7	-31 12.9	23 56.4	-31 16.8	+0.9
	17.5	4.0	16.5		
18	23 55.2	-31 16.9	18 23 55.5	-31 16.8	(1875
✓c 18	24 29.2	-31 27.0	1 37.0	0.9	
	32.8	10.2	18 25 32.5	-31 15.9	(1900
18	24 56.4	-31 16.8			

Innes 116 18 23.9 -31 16 (1875)

ZC Prec. α 3.8801 97.0025

δ 2.0897 52.2425

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1926phae.proj.1258M

Var. 23
Found May 4, 1926, on MF Plates,
Bks. 37, f. 1130

Orientky :
-27 61 42 9.4
17 59 40.0 -27 6.3
-27 61 43 9.8
17 59 40.0 -27 2.6

B 9279
-27 61 36 10.0
-27 61 44 10.2
-27 61 47 10.2
a 17 59 18.5 -27 24.4

b 17 59 42.5 -27 29.0

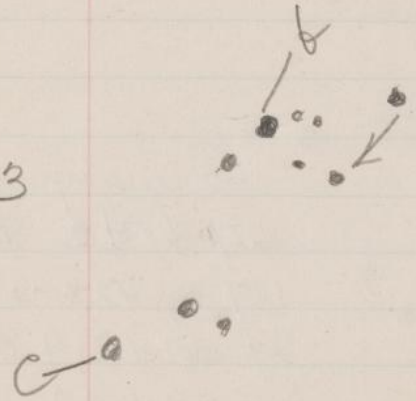
c 17 59 55.5 -27 19.1

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1926phae.proj.1258W

Card

Var. 25
Var. found May 4, 1926 on MF plates
Bls. 37, p. 132



a 10443

Orient by:
-25 6302 9.9
17 58 1.6 -25 46.6
-25 6303 10.3
17 58 1.6 -25 52.4

B 9279
COD

		Magn	x-Var.	y-Var.	x×4	sec δ		
a	-25 6295	9.8	6.60	3.6	26.40	1.112	29.35680	Var. fol. N
b	-25 6307	9.6	1.98	2.4	7.92	1.112	8.80704	Var. precedes
c	-26 6241	9.2	7.95	6.0	31.80	1.113	35.39340	Var. precedes

a 17 57 38.3 -25 59.2

29.4 3.6

17 58 7.7 -25 55.6

b 17 58 16.1 -25 53.2

8.8 2.4

17 58 7.3 -25 55.6

c 17 58 41.9 -26 1.8

35.4 6.0

17 58 6.5 -25 55.8

17 58 7.7 -25 55.6 +0.5 +0.1
7.3 55.6 +0.1 +0.1
6.5 55.8 -0.7 -0.1
5 20

17 58 7.2 -25 55.7 (1875)
1 33.1 0.1
17 59 40.3 -25 55.8 (1900

α 3.7234 93.0850
δ 0.1645 4.1125

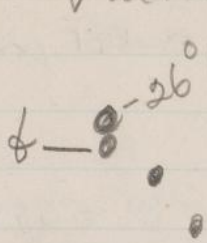
John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

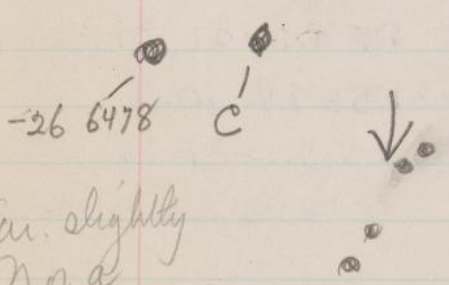
1926phae.proj.1258W

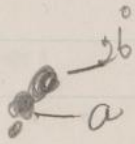
Card

Var. 26

Var found May 4, 1926, on MF plates
Bk. 37, p. 138.







Orient in δ by:
-26 6476 = c

and -26 6476 8.8
18 21 49.0 -26 44.9

Var. slightly
N of a

Var. prec. b

B1950.0
CPD. Magn. x-Var. y-Var. xx4 sec δ

a -26 6468	8.3	10.20	0.6	40.80	1.121	45.73680	Var fol N
b -26 6474	8.2	09.5	9.8	3.80	1.119	4.25220	Var prec S
c -26 6476	9.1	4.00	5.2	16.00	1.120	17.92000	Var prec S

a 18 20 20.5 -26 50.5
45.7 0.6
18 21 6.2 -26 49.9

b 18 21 9.5 -26 40.1
4.3 9.8
18 21 5.2 -26 49.9

c 18 21 24.5 -26 44.7
17.9 5.2
18 21 6.6 -26 49.9

18 21 6.2 -26 49.9 +0.2
5.2 49.9 -0.8
6.6 49.9 +0.6
0
18 21 6.0 -26 49.9 (1875)
1' 33.7 0.8
18 22 39.7 -26 49.1 (1900)

α 3.7465 93.6625
δ 1.8437 46.0925

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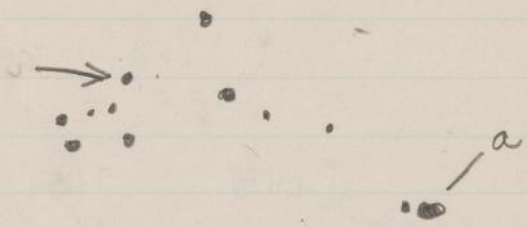
1926phae.proj.1258W

Card

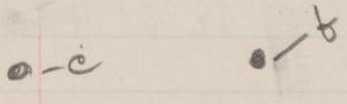
MW Reg. 18 9 -30 Variable 30

Found May 4, 1926, on MF plates, Bb. 37, p. 137

A 12458
Meas July 14



Orient by:
-31 5598 10.3
18 25 0.1 -31 31.3
-31 5599 10.2
18 25 0.1 -31 36.1



B16496

	CPD	Magn.	x-Var.	y-Var.		x×4	rec δ	
a	-32 5416	10.2	7.15	1.8	Var. fol N	28.60	1.179	33.71940
b	-32 5418	10.2	2.22	9.9	Var fol N	8.88	1.181	10.48728
c	-32 5422	10.3	6.05	10.4	Var prec N	24.20	1.181	28.58020

a 18 24 14.9 -32 1.2
33.7 1.8
18 24 48.6 -31 59.4

b 18 24 38.6 -32 9.1
10.5 9.9
18 24 49.1 -31 59.2

c 18 25 17.6 -32 9.6
28.6 10.4
~~2.462~~ -31 59.2
18 24 49.0

18 24 48.6 -31 59.4 -0.3 -0.1
24 49.1 -31 59.2 +0.2 +0.1
49.0 59.2 +0.1 +0.1
26.7 8
18 24 48.9 -31 59.3 (1875
1 37.5 0.9
18 26 26.4 -31 58.4 (1900

α 3.9005 97.5125
δ 2.1671 54.1775

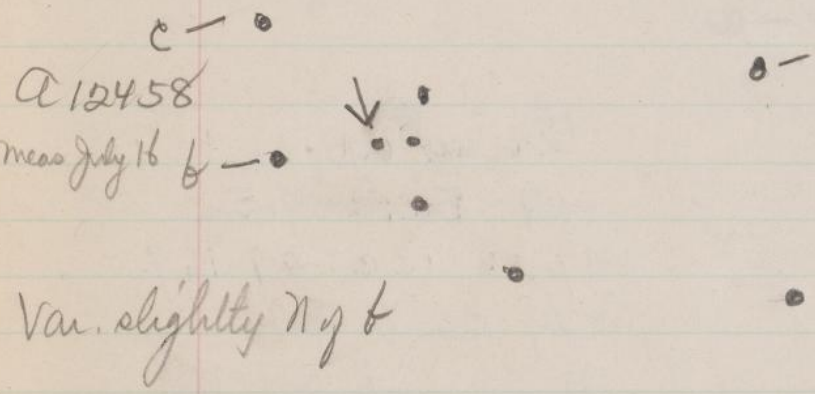
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1926phae.proj.1258m

C

Var. 31

Found May 4, 1926, on MF plates, Bk. 37, f. 139.



Orient by:
-33 5061 10.3
18 16 15.7 -33 24.8
-33 5062 8.0
18 16 15.7 -33 20.6

B16496

	CPD	Mags	x-Var	y-Var.		4x x sec δ	
a	-33 5046	10.2	11.57	3.4	Var. fol. S	46.28 1.198	55.44344
b	-33 5052	10.2	3.65	0.4	Var prec N	1460 1.199	17.50540
c	-33 5053	10.2	3.88	5.0	Var prec S	1540 1.198	18.44920

a 18 14 5.9 -33 26.6

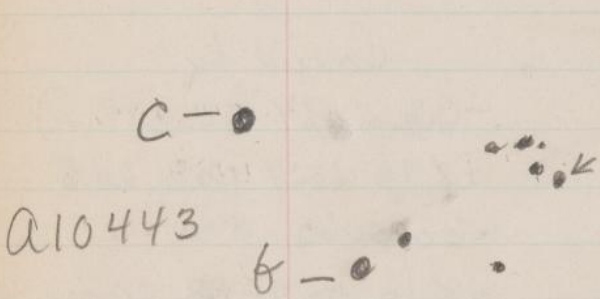
			55.4	3.4	18	15 1.3	-33 30.0	-0.6 -0.1
	18	15 1.3	-33	30.0		15 2.2	29.8	+0.4 +0.1
b	18	15 19.7	-33	30.2		2.3	30.0	+0.4 -0.1
		17.5			18	15 1.9	-33 29.9	(1875)
		1.8		0.4		1' 38.9	0.5	
	18	15 19.9	-33	29.8	18	16 40.8	-33 29.4	(1900)
c	18	15 20.7	-33	25.0				
		18.4		5.0				
	18	15 2.3	-33	30.0				

α 3.9721 3.9553 98.8825 Innes 1 = 18 15 27 -33 27.4 (1875)
δ 1.3144 32.8600 But see remark, which checks H.

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1926phae.proj.1258W

MW Reg. 18 9-30 Variable 29
Found May 7, 1926, on MF plates,
BB. 37, p. 136



Orientby:
-29 52 13 9.5
17 56 13.8 -29 16.9
-29 52 14 9.9
17 56 13.8 -29 19.1

Small distance between these but very near Var.

~~A 9279~~

	CPD	Magn	x-Var	y-Var		x x 4.	sec δ	✓
			2.05	6.7		820	4	9.38080
a	-29 52 17	9.6	~~+1.92~~	~~9.5~~	Var fol. S	7.68	1.143	~~8.78592~~
b	-29 52 32	9.4	7.68	2.9	Var prec. N	30.72	1.144	35.17440
c	-29 52 38	8.4	11.55	2.5	Var prec. S	46.20	1.144	52.85280

a 17 56 21.8 -29 1.8
88 9.5
~~17 56 30.6 -29 11.3~~

17 56 21.8 -29 1.8
9.4 6.7
17 56 31.2 -29 8.5

b 17 57 5.8 -29 11.1
35.2 2.9
17 56 30.6 -29 8.2

c 17 57 22.8 -29 5.6
52.9 2.5
17 56 29.9 -29 8.1

17 56 31.2 -29 8.5 +06 -02
56 30.6 8.2 00 +0.1
~~56 29.9 -29 81~~ -07 +02
17 8 ✓
17 56 30.6 -29 8.3 (1875)
1 35.4 0.1 ✓
17 58 6.0 -29 8.4 (1900)

α 3.8174 95.4350
δ 0.3054 7.6350

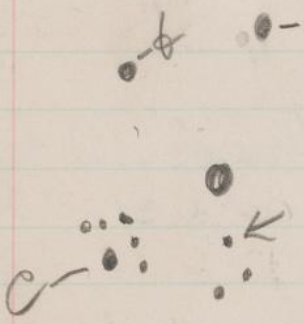
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1926phae.proj.1258w

C

Var. 32

Var. found May 4, 1926, Bk. 37, p. 140, on MF plates.



Oriented by:
−33 5030 10.3
18 11 28.9 −33 44.2
−33 5031 9.8
18 11 57.9 −33 44.2

Images on a 6050 elongated in direction of R.A. Difficult to bisect

B16496

	C	PD	Magn	x-Var	y-Var					
a	−33	5033	10.0	1.30	9.0	Var. fol. S	5.20	1.196	6.21920	
b	−33	5035	9.6	3.20	7.9	Var. prec. S	12.80	1.197	15.32160	
c	−33	5036	10.2	4.00	0.5	Var. prec. N	16.00	1.198	19.16800	

a 18 12 34.4 −33 17.8
6.2 9.0
18 12 40.6 −33 26.8

b 18 12 55.9 −33 18.8
15.3 7.9
18 12 40.6 −33 26.7

c 18 12 57.9 −33 27.0
19.2 0.5
18 12 38.7 −33 26.5

xx4 recd

18 12 40.6 −33 26.8 +0.6 +0.1
40.6 26.7 +0.6 0.0
38.7 26.5 −1.3 +0.2
1199 20
18 12 40.0 −33 26.7 (1875
1 38.9 0.4 5 ✓
18 14 18.9 −33 26.3 2 ✓ (1900)

α 3.9542 98.8550
δ 1.1078 27.6950

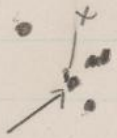
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1926phae.proj.1258W

NW Reg. 18 9-30

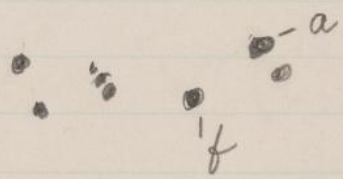
Variable 35
Found May 5, 1926, Bb. 37, f. 142 on MF Pl.

a 3806 8x10
Var. bright



Orient in δ by a & c





			Magn.	x-Var.	y-Var.		x×4	sec δ	
a	-25	6459	9.0	7.00	5.1	Var. fol N	28.00	1.112	31.13600
b	-26	6399	10.2	4.80	6 7/8	Var. fol N	19.20	1.113	21.36960
c	-25	6473	9.5	13.00	5.1	Var. prec. N.	52.00	1.112	57.82400

a 18 10 56.4 -25 58.8
31.1 5.1
18 11 27.5 -25 53.7

b 18 11 5.1 -26 0.5
21.4 6.8
18 11 26.5 -25 53.7

c 18 12 25.2 -25 58.8
57.8 5.1
18 11 27.4 -25 53.7

18 11 27.5 -25 53.7 +0.4
26.5 53.7 -0.6
27.4 53.7 +0.3
4

18 11 27.1 -25 53.7 (1875)
1 33.0 0.4
18 13 0.1 -25 53.3 (1900

Checked M.S.Y.
x fol. Var. N
0.06 x.4 = 0.24
less than .1 North
fol 0.3

2C Pha. α 3.7217 93.0425
δ 1.0017 25.0425

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1926phae.proj.1258m

C. ? Note Several ft stars close

Var. 40

Var. found May 5, 1926, on MF plates, Bk. 37, p. 147

Orient in δ by
−31 55 33 9.3
18 15 9.8 −31 27.2
−31 55 36 9.4
18 15 38.8 −31 26.9
(not quite exact but plate can be set.)

a 12490 a

large images distorted, near edge, but best for Var.

B 16496 b

c

	C.P.D.	Magn.	x-Var.	y-Var.		x×4	sec δ	
a	−31 5540	10.2	8.15	12.2	Var fol S	32.60	1.171	38.17460
b	−31 5542	10.2	0.82	4.2	Var fol N	3.28	1.175	3.85400
c	31 55 43	10.3	1.85	2 3	Var. prec. S	7.40	1.173	8.68020

a 18 16 22.3 −31 22.7
38.2 12.2
18 17 0.5 −31 34.9

b 18 16 54.7 −31 39.1
3.9 4.2
18 16 58.6 −31 34.9

c 18 17 7.2 −31 32.9
8.7 2.3
18 16 58.5 −31 35.2

18 17 0.5 −31 34.9 +1.3
16 58.6 −31 34.9 −0.6
16 58.5 −31 35.2 −0.7
27.6 0
18 16 59.2 −31 35.0 (1875)
1 37.3 0.6
18 18 36.5 −31 34.4 (1900)

Innes 2 = 18 16.9 −31 35 (18 16 57 −31 35.0 1875)
α 3.8908 97.27
δ 1.4850 37.1250

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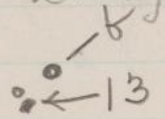
1926phae.proj.1253W

52 C

MW 189-30

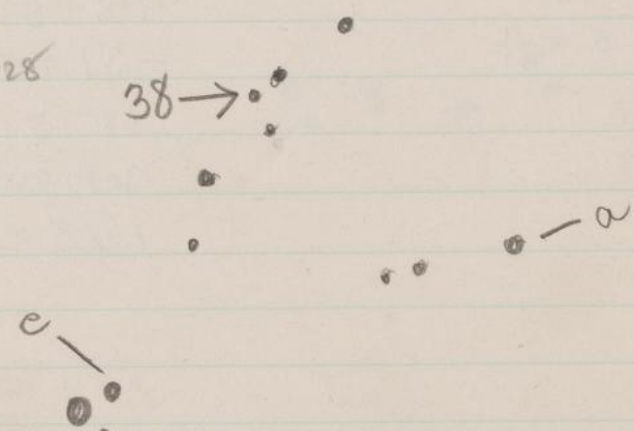
Var. 38

Found May 5, 1926 on MF plates Bb. 37, p. 145



Orient by:
-28 6422 10.4
18 6 26.1 -28 29.7
-28 6423 10.2
18 6 26.1 -28 52.1

a 14022
meas. July 26, 1928



B 2611 b

	C.P.D.	Magn.	x-Var	y-Var		xx4	rec'd	
a	-27 6269	8.7	8.02	4.0	Var fol N	32.08	1.132	36.31456
b	-27 6274	9.2	4.80	8.1	Var fol S	19.20	1.130	21.69600
c	-28 6426	9.2	5.10	9.0	Var prec N	20.40	1.133	23.11320

a	18 6	39.3	-27	55.3			
		36.3		4.0	18 6	15.6	-27 51.3 +0.2
	18 6	15.6	-27	51.3		15.0	51.1 -0.4
b	18 5	53.3	-27	43.0		15.5	51.2 +0.1
		21.7		8.1		11	6
	18 6	15.6	-27	51.1	18 6	15.4	-27 51.2 (1875
c	18 6	38.6	-28	0.2		1 34.5	0.2
		23.1		9.0			
	18 6	15.5	-27	51.2	18 7	49.9	-27 51.0 (1900

α 3.7788 94.4700
δ 0.5474 13.6850

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1926phae.proj.12587

C

Var. 13
Found May 1, 1926,
on M7 plates, Bk. 37 f. 120

Sketch f 52

13 from 38 = 3.6 prec. 7.1 N
Verify from meas. (approx.) from 38
x-Var 3.6 x 4 = 14.4 x 1.13 = 16.272
13 prec 38 13 N 38
38 f. 52 18 6 15.4 -27 51.2 (1875
16.3 7.1
13 = 18 5 59.1 -27 44.1 (1875
Use position below. Reads same second.

July 26, 1928

		x-Var	y-Var		x x 4	sec δ	
same stars as f. 52	a	4.30	11.3	Var fol N	17.20	1.132	19.47040
	b	1.20	1.0	Var fol S	4.80	1.130	5.42400
	c	8.75	16.0	Var prec N	35.00	1.133	39.65500

a 18 5 39.3 -27 55.3
19.5 11.3
18 5 58.8 -27 44.0

b 18 5 53.3 -27 43.0
5.4 1.0
18 5 58.7 -27 44.0

c 18 6 38.6 -28 0.2
39.7 16.0
18 5 58.9 -27 44.2

18 5 58.8 -27 44.0
58.7 44.0
58.9 44.2

18 5 58.8 -27 44.1 (1875
1 34.4 0.2
18 7 32 -27 43.9 (1900

3.7752 94.3800
0.5232 13.0800

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1926phae.proj.1258M

MW Reg 18 9-30 Van. 41

a?

B1649b

	CPD	Magn.
a	-33 5019	10.4
b	-33 5021	10.3
c	-33 5035	10.3

a 18 10 26.1 -33 20.9

b 18 10 38.3 -33 6.2

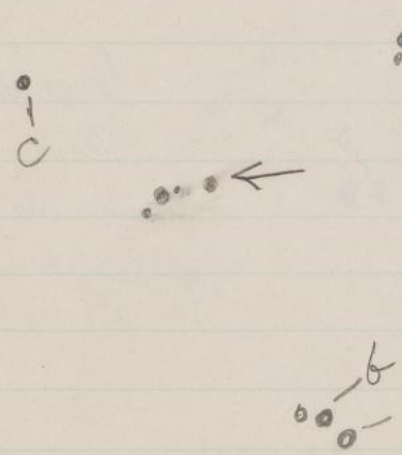
c 18 11 14.7 -33 35.0

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1926phae.proj.125aW

C

Var. 22
Found May 3, 1926, Bk. 37, f. 129, on MF plates



a 2661

Orient by:
-33 4995 10.4
18 8 10.1 -33 52.7
-33 4994 10.0
18 8 10.1 -33 16.0

B 16496

	C.P.D.	Magn.	x-Var.	y-Var.		4xx	pec δ	
a	-33° 4986	9.4	3.70	7.8	Var fol S	14.80	1.200	17.76000
b	-33 4989	10.2	2.90	7.3	Var fol N	11.60	1.202	13.95480
c	-33 4999	9.9	4.95	3.8	Var prec S	19.80	1.201	23.77980

a 18 7 44.1 -33 32.1
17.8 7.8
18 8 1.9 -33 39.9

b 18 7 48.6 -33 47.1
14.0 7.3
18 8 2.6 -33 39.8

c 18 8 24.6 -33 35.9
23.8 3.8
18 8 0.8 -33 39.7

18	8 1.9	-33	39.9	+0.1
	8 2.6		39.8	+0.8
	8 0.8		39.7	-1.0
	5 3		2.4	
18	8 1.8	-33	39.8	(1875)
	1 39.1		0.3	
18	9 40.9	-33	39.5	(1900)

α 3.9622 99.0570
δ 0.7116 17.7900

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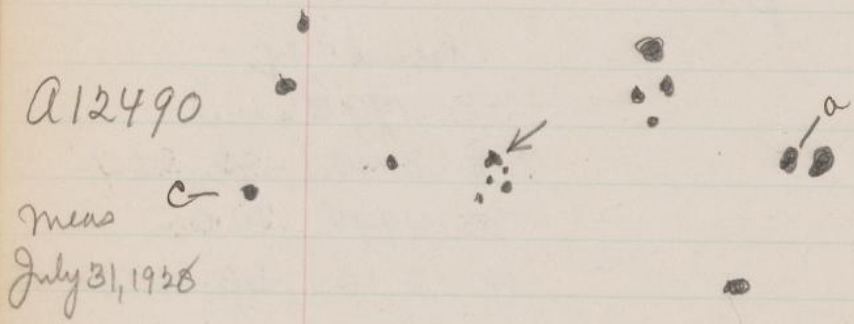
1926phae.proj.1258W

NW Reg. 18 9 - 30

Var. 43

b Found May 7, 1926, Bb. 37, f. 150 on MF plates

a12490



Mens
July 31, 1926

Orient in δ by

-30	55 54	10.0	
18	25 31.0	-30	3.9
-30	55 68	10.0	
18	27 14.0	-30	3.8

B19580

CPD		Magn.	x-Var.	y-Var.
a -30	55 48	10.3	8.45	2.0
b -30	55 54	10.0	2.25	11.0
c -30	55 59	10.3	8.48	1.2

a 18 25 3.0 -30 12.7
39.1 2.0
18 25 42.1 -30 14.7

b 18 25 31.0 -30 3.9
10.4 11.0
18 25 41.4 -30 14.9

c 18 26 21.0 -30 15.9
39.3 1.2
18 25 41.7 -30 14.7

α 3.8466 96.1650
δ 2.2437 56.0925

xx4 seed

Var. fol S	33.80	1.157	39.10660
Var. fol. S	9.00	1.156	10.40400
Var free N	33.92	1.158	39.27936

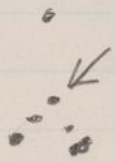
18 25 42.1 -30 14.7 +0.4
41.4 14.9 -0.3
41.7 14.7 0.0
22 23
18 25 41.7 -30 14.8 (1875)
1 36.2 0.9
18 27 17.9 -30 13.9 (1900)

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1926phae.proj.1258w

Variable 45 ft star near?

Found May 7, 1926, Bb. 37, f. 152 on MF plates



Orient by:

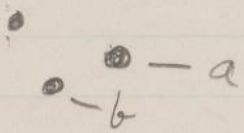
-32 5372 10.0

18 18 56.5 -32 31.3

-33 5088 10.3

18 18 56.6 -33 30.8





a 12490

Meas. August 1, 1928

B 1649 b

	CPD	Magn.	x-Var.	y-Var.
a	-32 5362	8.4	6.20	9.9
b	-32 5363	10.3	4.00	10.4
c	-32 5367	8.8	2.50	6.0

		x × 4	seed	
Var fol N	24.80	1.191	29.53680	
Var fol N	16.00	1.191	19.056	
Var prec N	10.00	1.191	11.900	

a 18 17 41.5 -32 54.6

29.5 9.9

18 18 11.0 -32 44.7

18 18 11.0 -32 44.7 -0.2

11.1 44.7 -0.1

11.6 44.6 +0.4

7

18 18 11.2 -32 44.7 (1875)

1 38.2 0.7

18 19 49.4 -32 44.6 (1900)

b 18 17 52.0 -32 55.1

19.1 10.4

18 18 11.1 -32 44.7

c 18 18 23.5 -32 50.6

11.9

18 18 11.6 -32 44.6

3.9274 98.1850

1.5897 39.7425

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1926phae.proj.1258w

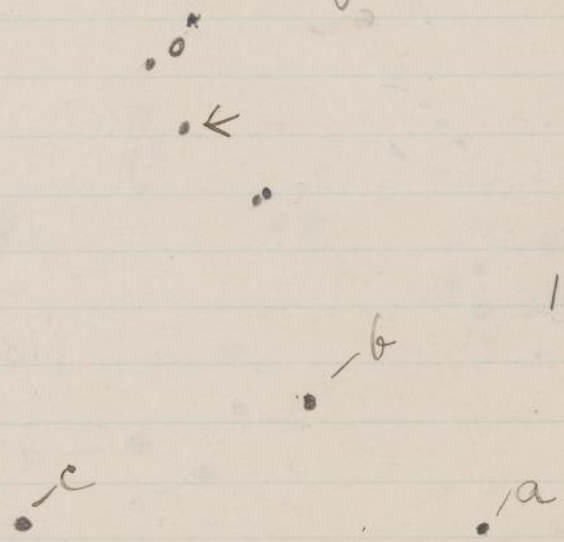
Suspected Algol.

Variable 46

Var. found May 7, 1926, on MF plates, Bk 37, f. 153

Orient by
-32 5345 92
18 15 20.7 -32 8.5
and C

a 2661
mean aug. 2



	CPD	Magn	x-Var	y-Var
a	-32 5338	10.3	9.32	13.1
b	-32 5341	10.3	3.18	9.0
C	-32 5346	9.8	6.60	13.0

a 18 14 5.2 -32 50.6
44.4 13.1
18 14 49.6 -32 37.5

b 18 14 33.7 -32 46.3
15.1 9.0
18 14 48.8 -32 37.3

c 18 15 20.7 -32 50.3
~~3.4~~ 3.7 13.0
18 14 49.3 -32 37.3

3.9246 98.11 50
1.2959 32.3975

	x x 4	sec δ	
Var fol N	37.28	1.190	44.36320
Var fol N	12.72	1.189	15.12408
Var prec N	26.40	1.190	31.41600

18 14 49.6 -32 37.5 +0.4
48.8 37.3 -0.4
49.3 37.3 +0.1

7 11
18 14 49.2 -32 37.4 (1875
1 38.1 0.5
18 16 27.3 -32 36.9 (1900)

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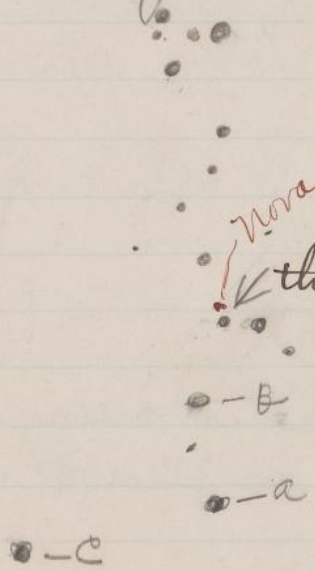
1926phae.proj.1258w

c See announcement HB 861

See p. 61

Obj. 178 probably Nova of 1926
Found June 13 1926 on M 7 plates,
Bk. 41, p. 140

Object is same & slightly N of this star measured.



Orient by:
-26 6157 10.4
17 54 3.1 -26 30.9
-26 6158 9.8
17 54 8.6 -26 39.7

a 8420
meas Aug. 6, 1928

Var slightly precedes a

B 33921

	CPD		x-Var.	y-Var.		x x 4	sec δ	
a	-26	6150 10.4	0.05	53	Var prec N	0.20	1.117	0.22340
b	-26	6153 9.8	0.45	2.2	Var prec N	1.80	1.118	2.01060
c	-26	6157 10.4	6.32	7.1	V prec N	25.28	1.118	28.26304

a 17 53 34.1 -26 29.5
0.2 5.3
17 53 33.9 -26 24.2

b 17 53 36.1 -26 26.3
2.0 2.2
17 53 34.1 -26 24.1

c 17 54 3.1 -26 30.9
28.3 7.1
17 53 34.8 -26 23.8

17 53 33.9 -26 24.2 -0.4
34.1 24.1 -02
34.8 23.8 +0.5
8 1
17 53 34.3 -26 24.0 (1875)
1 33.4 0.2
17 55 7.7 -26 24.2 (1900)

this is constant star near. See p. 61 for meas of approximate place of Nova.

α 3.7361 93.4025
δ 4.645 116.1275 0.5624 14.06

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1926phae.proj.1258W

178 cont.

on MF 10366

On MF plates images are very poor besides small scale.

see f.59

	m m	
a	0,02	2.0
b	0.20	0.9
c	2,40	2.6

a 17 53 34.1 −26 29.5
0.2 5.6
17 53 33.9 −26 23.9

b 17 53 36.1 −26 26.3
2.5 2.5
17 53 33.6 −26 23.8

c 17 54 3.1 −26 30.9
29.9 7.2
17 ~~54 33.0~~ −26 23.7
53 33.2

17 53 33.9 −26 23.9
53 33.6 23.8
53 33.2 23.7
17 24
17 53 33.3 −26 23.8 (1875)
(poor)
Reject

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1926phae.proj.1256w

HV 4480 see H.B. 861

178 cont

Approximate position on a plate measured.
This is better measure than on MF plate p. 60

a 8420 Approx. pos. of Nova measured from the 3 Cat. stars, p. 59

Nova (see MF plates) should slightly follow about .2' N. of star listed p. 59

see p. 59

			x x 4		
a	0.02	5.4	0.08	1.117	0.0.8936
b	0.40	2.6	1.60	1.117	1.78720
c	6.30	7.3	25.20	1.118	28.17360

a 17 53 34.1 −26 29.5
0.1 5.4
17 53 34.0 −26 24.1

b 17 53 36.1 −26 26.3
1.8 2.6
17 53 34.3 −26 23.7

c 17 54 3.1 −26 30.9
28.2 7.3
17 53 34.9 −26 23.6

17 53 34.0 −26 24.1
34.3 23.7
34.9 23.6
12 24
17 53 34.4 −26 23.8 (1875)
1 33.4 0.2 1.9
17 55 7.8 −26 25.7 (1900
24.0

α 3.7357 93.3925
δ 4.6452 116.1300 + 56.1 0.5623 14.0575

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1926phae.proj.1258W

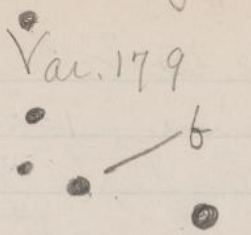
62

Regim
1899-30

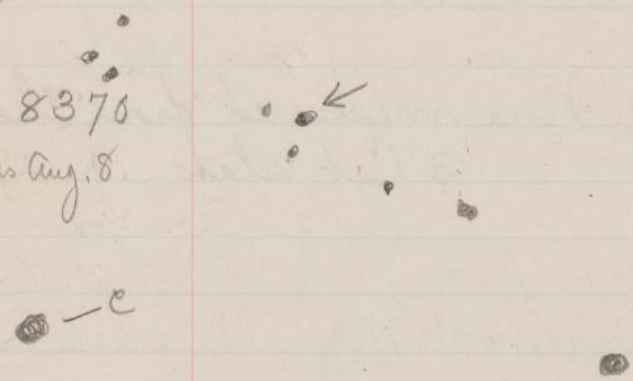
Several faint stars near Var

Probably Algol

Var. 1899



Var. found June 13, 1928 on MF plates, Bk. 41, p. 141



a 8370
meas Aug. 8

Guide by
-28 6596 9.4
18 26 53.6 -28 43.1
-28 6597 9.4
18 26 53.6 -28 45.6
and, closer,
-27 6440 9.8
18 23 29.5 -27 58.9
-27 6441 9.6
18 23 29.8 -27 56.0

B 19580
CPD

		Magn	x-Var	y-Var
a	-28 6580	9.6	9.82	~~5~~ 6.8
b	-28 6581	9.9	7.90	5.0
c	-28 6585	9.0	11.90	5.7

a 18 23 12.6 -28 13.1

c, large nidge

	44.6	6.8
18	23 57.2	-28 6.3

b 18 23 21.9 -28 1.7

35.8	5.0
18 23 57.7	-28 6.7

c 18 24 50.6 -28 12.0

54.0	5.7
18 23 56.6	-28 6.3

x 3.7824 94.5600
δ 2.0921 52.3025

xx4 reed

Var fol N	39.28	1.135	44.58280
Var fol S	31.60	1.133	35.80280
Var pre N	47.60	1.135	54.02600

18 23 57.2	-28	6.3	0.0	+0.1
57.7		6.7	+0.5	-0.3
56.6		6.3	-0.6	+0.1
18 23 57.2	-28	6.4		(1875)
1 34.6		0.9		
18 25 31.8	-28	5.5		(1900)

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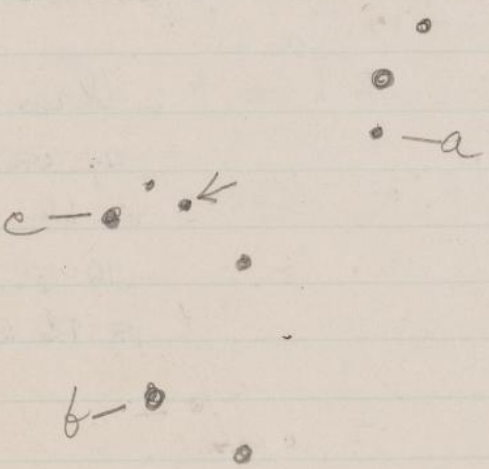
1926phae.proj.1258m

C Probably Algol

Variable 181

Var. found June 13, 1928 on MF plates, Bb. 41, f. 143

a 2605
Meas. Aug 9
Var. precedes b
" slightly
N of c



Orientty:
-28 6522 9.6
18 13 17.3 -28 50.3
-28 6523 9.8
18 13 17.8 -28 46.2

B19580

		x-Var.	y-Var.
c	-28 6533 9.6	10.57	3.7
b	-28 6535 9.1	1.00	7.5
c	-28 6536 9.9	3.52	0.1

a 18 14 29.8 -28 16.8
48.0 3.7
18 15 17.8 -28 20.5

b 18 15 19.8 -28 28.8
4.6 7.5
18 15 15.2 -28 20.5

c 18 15 33.8 -28 20.9
16.0 0.1
18 15 17.8 -28 20.8

	x	x x 4	sec d
Var fil S	42.28	1.136	48.03008
Var prec. N	4.00	1.138	4.55200
Var prec N	14.08	1.136	15.99488

18 15 17.8 -28 20.5 +0.9
15.2 20.5 -1.7
17.8 20.8 +0.9
20.8 18

18 15 16.9 -28 20.6 (1875)
1 34.8 0.6
18 16 51.7 -28 20.0 (1900)

α 3.7918 94.7950
δ 1.3362 33.4050

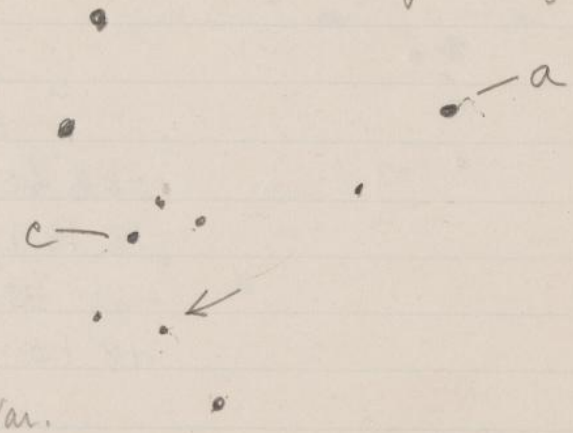
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1926phae.proj.1258M

Reg. 18 9-30

Variable 183

Var. found June 13, 1928, on MF plates
Bb. 41, f. 145



Orient by
-29 55 37 10.3
18 16 30.8 -29 52.4
-29 55 38 8.2
18 16 30.8 -29 50.5

a 10775

meas Aug. 10

b slightly frec. Var.
c " fol. "

B 16496

	C	PD	Magn	x-Var	y-Var		x × 4	sec δ	
a	-29	55 42	10.3	9.65	8.5	Var fol S	38.60	1.148	44.31280
b	-29	55 46	9.9	0.42	15.9	Var fol N	1.68	1.152	1.93536
c	-29	55 47	10.3	0.45	3.1	Var free S	1.80	1.149	2.06820

a 18 17 36.3 -29 23.6
44.3 8.5
18 18 20.6 -29 32.1

b 18 18 17.3 -29 47.9
1.9 15.9
18 18 19.2 -29 32.0

c 18 18 22.3 -29 28.9
2.1 3.1
18 18 20.2 -29 32.0

18 18 20.6 -29 32.1 +0.6
19.2 32.0 -0.8
20.2 32.0 +0.2
0
18 18 20.0 -29 32.0 (1875
1 35.7 0.7
18 19 55.7 -29 31.3 (1900

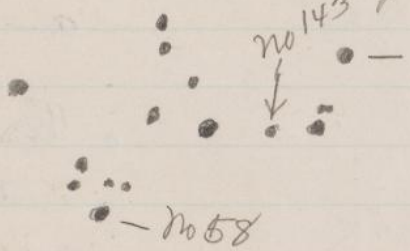
α 3.82 19 95.6725
δ 1.6025 40.0625

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1926phae.proj.1258W

C

Variable No. 58
Found Sept. 10, 1926, on A plates, Bk 37, p. 168



A 12458
Meas
August 20, 1928

Uncertty:
−31 56 38 9.0
18 30 16.1 −31 25.1
−31 56 39 10.3
18 30 16.1 −31 27.1

B 19580

CPD		Magn	x-Var	y-Var		x × 4		
−30	5583	10.2	7.40	4.5	Var 1 S	29.60	1.165	34.48400
−30	5590	10.3	4.06	3.3	Var 1 E	16.24	1.165	18.91960
−30	5595	8.6	10.97	4.2	Var 1 N	43.88	1.166	51.16408

a 18 29 3.5 −30 50.0
34.5 4.5
18 29 38.0 −30 54.5

b 18 29 57.0 −30 50.9
18.9 3.3
18 29 38.1 −30 54.2

c 18 30 30.0 −30 58.3
51.2 4.2
18 29 38.8 −30 54.1

18 29 38.0 −30 54.5 −0.3 −0.2
38.1 54.2 −0.2 −0.1
38.8 54.1 +0.5 +0.2
18 29 38.3 −30 54.3 (1875)
1′ 36.6 1.1
18 31 14.9 −30 53.2 (1900)

2C α 3.8649 96.6225
δ 2.5862 64.6550

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1926phae.proj.1258w

66 C

18 9 −30 No. 176

Found Sept. 2, 1927, on MF plates, Bk 41, p. 131 C

Very faint, difficult to set. But the object is brighter relatively than on any plate except 1926

Is this the same star?

This is a Var. if not the obj. originally mkd as No. 176

a 10 b 15

Meas. August 18, 1928

Image which is thought to be an earlier image of same star is measured (1912) B 16496

Check carefully to prove same obj.

a	−29 55 37	10.3	18.05	3.9	Van fol S	72.20	1.153	83.24660
b	−30 55 00	10.2	3.80	12.7	Van fol N	15.20	1.156	17.57120
c	−29 55 46	9.9	5.00	8.7	Van proc S	20.00	1.152	23.04000

a 18 16 30.8 −29 52.4

1′ 23.2 3.9

18 17 54.0 −29 56.3

b 18 17 35.4 −30 9.1

17.6 12.7

18 17 53.0 −29 56.4

c 18 18 17.3 −29 47.9

23.0 8.7

18 17 54.3 −29 56.6

	xx4	reed	
18 17 54.0	−29 56.3	+0.2	
58.0	56.4	−0.8	
54.3	56.6	+05	
23	13		
18 17 53.8	−29 56.4		(1875
1. 36.0	0.7		
18 19 29.8	−29 55.7		(1900

α	3.8392	95.9800
δ	1.5644	39.11

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1926phae.proj.1258M

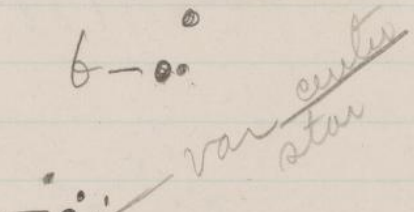
No. 143 as mkd on p. 65
This is also mkd on A 12458
as 97, probably W. Leyton.

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1926phae.proj.1258w

Reg
18 9 - 30

No. 52
Found Sept 10, 1926, Bk. 41, f. 162, in a plates



Measured Aug. 21, 1928
a 12458
On extreme Nedge
but watch residuals
& see if this affects
meas. seriously

Orient by:
-30 5588 9.0 =
18 29 23.0 -30 52.2
-30 5589 9.8 =
18 29 23.0 -30 12.3

B 19580
CPD

		Magn	x-Var	y-Var		x × 4 sec δ		
a	-30 5589	~~7 10.2~~ ~~9.8~~	11.27	0.6	Var. fol N	45.08	1.501	~~67.6508~~
b	-30 5592	9.4	0.50	4.0	Var. fol S	2.00	1.500	3.00000
c	-30 5593	10.0	0.80	0.2	Var. prec. S	3.20	1.501	4.80320

a 18 29 ~~23.0~~ 17.0 -30 ~~12.3~~ 5.5

	1	7.7		0.6
18	30	24.7	-30	4.9

remeasured, found ~~correct~~ sec was wrong
see f. 69

b 18 30 5.6 -30 0.8

		3.0		4.0
18	30	8.6	-30	4.8

c 18 30 12.0 -30 4.6

		4.8		0.2
18	30	7.2	-30	4.8

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1926phae.proj.1258M

C

Var 52

a	18	29	17.0	−30	5.5		
			52.1		0.6		
	18	30	9.1	−30	4.9		
b	18	30	5.6	−30	0.8		
			2.3		4.0		
	18	30	7.9	−30	4.8		
c	18	30	12.0	−30	4.6		
			3.7		0.2		
	18	30	8.3	−30	4.8		

X	x4	sec δ	
45.08		1.156	52.11248
2.00		1.155	2.31000
3.20		1.156	3.69920

	18	30	9.1	−30	4.9	+0.7	
			7.9		4.8	−0.5	
			8.3		4.8	−0.1	
			25.3				
	18	30	8.4	−30	4.8		(1875)
		1	36.0		1.1		
	18	31	44.4	−30	3.7		(1900)

38399 95.9975
26298 65.7450 = 1.1

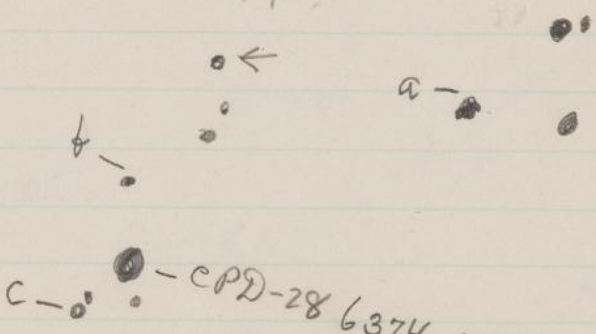
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1926phae.proj.1258W

Reg.
18 9 – 30

Var. 50

Found Sept. 8, 1926, on B plates, Bk. 41, p. 158



Orient by in δ
-28 6351 10.0
18 2 45.2 -28 57.1
-28 6353 9.9
18 2 51.4 -28 57.0

These stars are almost too close but they are very near the Var. and other pairs of stars are 1° apart. With c these should make a nearly straight line in δ

A 10416
Var at Min(?)

Measured Aug. 22, 1928

B 16496

	CPD	Magn	x-Var.	y-Var.		x × 4	sec δ	
a	-28 6362	9.8	6.50	1.5	Var fol. N	26.00	1.142	29.69200
b	-28 6375	10.3	3.95	3.4	Var prec. N	15.80	1.142	18.04360
c	-28 6381	9.8	5.90	8.7	Var prec. N	23.60	1.143	26.97480

a 18 3 15.2 -28 49.8
29.7 1.5
18 3 44.9 -28 48.3

b 18 4 2.2 -28 51.8
18.0 3.4
18 3 44.2 -28 48.4

c 18 4 11.6 -28 57.1
27.0 8.7
18 3 44.6 -28 48.4

18 3 44.9 -28 48.3 +0.3
44.2 48.4 -0.4
44.6 48.4 0.0
17
18 3 44.6 -28 48.4 (1875
1 35.2 0.1
18 5 19.8 -28 48.3 (1900)

α 3.8072 95.1800
δ 0.3331 8.3275

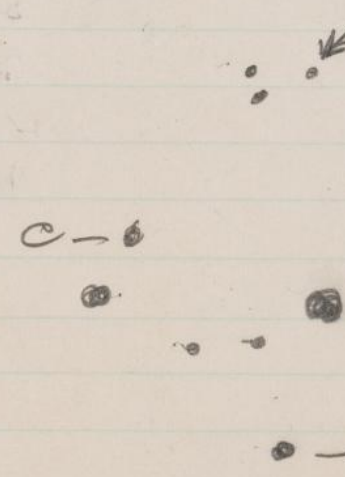
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1926phae.proj.1258W

C

Variable 139
Found Sept. 21, 1926, on A plates, Bk. 41
λ 93

Position meas.
August 29, 1928
A 10775
Variable ~~ff~~
on this ff



Orient by
−29 5599 9.4
18 25 25.3 −29 42.2
a −29 5600 9.5
18 25 25.3 −29 57.3

B 19580
CPD

	Magn.	x-Var.	y-Var.	x x 4	sec δ		
a −29 5609	9.9	11.95	3.5	47.80	1.155	55.20900	Var fol N
b −30 5573	9.8	0.95	12.3	3.80	1.156	4.39280	Var pre N
c −29 5611	10.3	4.80	4.2	19.20	1.155	22.17600	Var pre N

a 18 26 54.5 −29 59.1
55.2 3.5
18 27 49.7 −29 55.6

b 18 27 53.0 −30 8.1
4.4 12.3
18 27 48.6 −29 55.8

c 18 28 10.3 −29 59.9
22.2 4.2
18 27 48.1 −29 55.7

18 27 49.7	−29 55.6	+0.9	
27 48.6	55.8	−0.2	
48.1	55.7	−0.7	
24	21		
18 27 48.8	−29 55.7		(1875)
1 35.9	1.0		
18 29 24.7	−29 54.7		(1900)

α 3.8356 95.8900
δ 2.4278 60.6950

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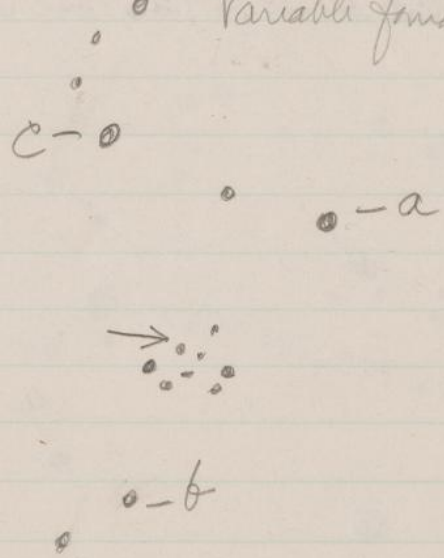
1926phae.proj.1258M

For faint stars near

Begun 18 9 -30

Variable 66

Variable found September 10, 1926, on A plates
Bk. 41, f. 16



A 2661
measured
August 24, 1928

(Fortunately on A plates only)

Orient by
-32 5345 9.2
18 15 20.7 -32 8.5
-32 5346 9.8
18 15 20.7 -32 50.3

B43744

	CPD	Magn	x-Var	y-Var		x × 4	rec'd	
a	-32 5351	9.5	4.15	5.8	Var fol S	16.60	1.185	19.68760
b	-32 5353	10.3	2.20	5.2	Var pre N	8.80	1.188	10.45440
c	-32 5355	8.9	2.75	8.9	Var pre S	11.00	1.185	13.03500

a 18 15 57.2 -32 28.9
19.7 5.8
18 16 16.9 -32 34.7

b 18 16 26.7 -32 39.8
10.5 5.2
18 16 16.2 -32 34.6

c 18 16 30.2 -32 25.7
13.0 8.9
18 16 17.2 -32 34.6

18 16 16.9 -32 34.7 +0.5 +0.1
16.2 34.6 -0.2 -0.6
17.2 34.6 +0.4
23
18 16 16.8 -32 34.6 (1875)
1 38.1 0.6
18 17 54.9 -32 34.0 (1900)

2C α 3.9228 98.0700
δ 1.4234 35.5850

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1926phae.proj.1258W

C

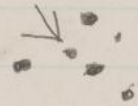
Var. 67

Found Sept. 10, 1926, on A plates, Bk. 41, f. 17

a — a is same star as b on f. 72

c —

A 12380



b —

			x-Var	y-Var	x x 4	sec δ		
a	-32 53 53	10.3	9.55	5.0	38.20	1.188	45.38 27160	Var fol S
b	-32 53 56	9.6	8.30	7.3	33.20	1.191	39.54120	Var fol N
c	-32 53 57	10.0	6.68	3.5	26.72	1.188	31.74336	Var fol S

a 18 16 26.7 -32 39.8

45.4 5.0

18 17 12.1 -32 44.8

b 18 16 33.2 -32 52.1

39.5 7.3

18 17 12.7 -32 44.8

c 18 16 40.5 -32 41.2

36.7 3.5

18 17 12.2 -32 44.7

18 17 12.1 -32 44.8 -0.2

12.7 44.8 +0.4

12.2 44.7 -0.1

10

18 17 12.3 -32 44.8 (1875)

1 38.2 0.6

18 18 50.5 -32 44.2 (1900

α 3.9277 98.1925

δ 1.5041 37.6025

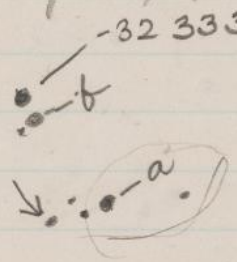
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1926phae.proj.1258M

74 C.
Regim
18 9 -30

Variable 68
Found Sept. 10, 1926, on A plates, Bk. 41, f. 18

Meas.
Aug. 27, 1926



A 2661
Var slightly
prec b
and N of c

Orient by:
-32 3335 10.0
18 13 46.5 -32 46.0
-32 3336 9.8
18 13 46.7 -32 5.3

B 16496
CPD

		Magn.	x-Var.	y-Var.		x × 4 sec δ	
a	-32 5332	9.5	1.20	0.4	Var for S	4.80	1.190 5.71200
b	-32 5334	10.3	0.42	3.9	Var prec S	1.68	1.189 1.99752
c	-32 5338	10.3	4.96	0.2	Var prec N	19.84	1.190 23.60960

a 18 13 36.7 -32 50.0
5.7 0.4
18 13 42.4 -32 50.4

b 18 13 43.7 -32 46.6
2.0 3.9
18 13 41.7 -32 50.5

c 18 14 5.2 -32 50.6
23.6 0.2
18 13 41.6 -32 50.4

18 13 42.4 -32 50.4 +0.5
41.7 50.5 -0.2
41.6 50.4 -0.3
57
18 13 41.9 -32 50.4 (1875)
1 38.3 0.5
18 15 20.2 -32 49.9 (1900)

α 3.9314 98.2850
δ 1.1980 29.9500

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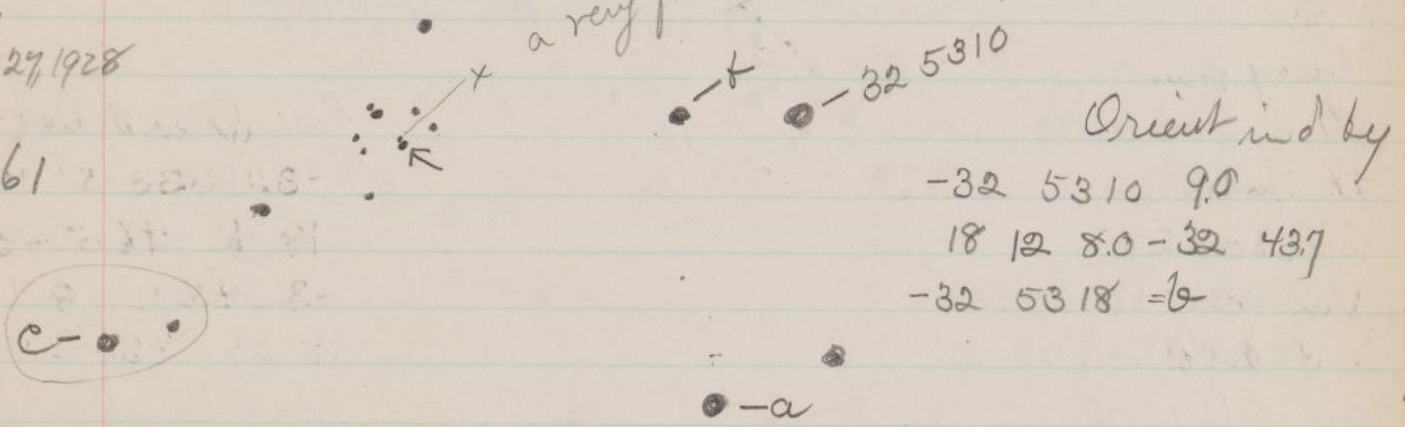
1926phae_proj_1258M

C. Note — Ft star close

Var. 152

Found Sept 21, 1926, ft star ? on A plates, Bk. 41, f. 106

Meas. August 27, 1928



A 2661

Orient'd by
-32 5310 9.0
18 12 8.0 -32 43.7
-32 53 18 = b

c same as a
f 74

B 19325

	CPD	Magn.	x-Var	y-Var		x x 4	rec f	
a	-32 5315	9.4	8.05	6.3	Var fol N	32.20	1.190	38.31800
b	-32 5318	10.2	6.52	0.9	Var fol S	26.08	1.189	31.00912
c	-32 5332	9.5	8.75	5.6	Var prec N	35.00	1.190	41.65000

a 18 12 16.0 -32 50.9
38.3 6.3
18 12 54.3 -32 44.6

b 18 12 23.0 -32 43.8
31.0 0.9
18 12 54.0 -32 44.7

c 18 13 36.7 -32 50.0
41.6 5.6
18 12 55.1 -32 44.4

x follows Var 0.2
N 0.1

18 12 54.3	-32 44.6	-0.2	00
54.0	44.7	-05	-0.1
55.1	44.4	+06	+0.2
14	17		
18 12 54.5	-32 44.6		(1875)
1 38.2	0.5		
18 14 32.7	-32 44.1		(1900)

x 7

α 3.9286 98.2150
δ 1.1289 28.2225

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1926phae.proj.1258W

Regim
18 9 – 30

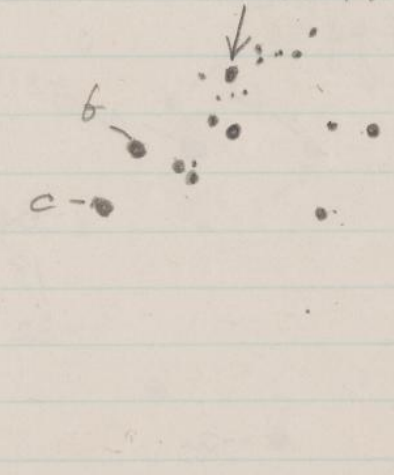
Var. 155

Inmes 24

Found Sept. 21, 1926, on a plates,
Bb. 41, p. 109

Many faint stars close to Var., see plate.

a 13528
Var. very bright (8×16)
meas. Sept 7, 1926



Oriented by
-32 8436 10.3
18 26 46.8 -32 59.3
-32 8439 7.6
18 27 14.8 - 32 59.2
very large image but attempted to bisect this

B 19325

	CPD.	Magn.	x-Var	y-Var		x×4	sec δ	
a	-32 54 29	10.2	4.78	5.3	Var frl. N	19.12	1.189	22.73365
b	-32 54 33	10.3	1.85	1.7	Var prec N	7.40	1.188	8.79120
c	-32 54 34	10.0	2.50	3.0	Var prec N	10.00	1.188	11.88000

a 18 26 2.8 -32 44.0
22.7 5.3
18 26 25.5 -32 38.7

b 18 26 33.8 -32 40.4
8.8 1.7
18 26 25.0 -32 38.7

c 18 26 35.8 -32 41.7
11.9 3.6
18 26 23.9 -32 38.7

18 26 25.5 -32 38.7 +0.7
25.0 38.7 +0.2
23.9 38.7 -0.9
144

18 26 24.8 -32 38.7 (1875)
1 38.0' 1.0
18 28 2.8 -32 37.7 (1900)
2.9

Inmes 24 = 18 26.4 – 32 38 Per. U.C. 37

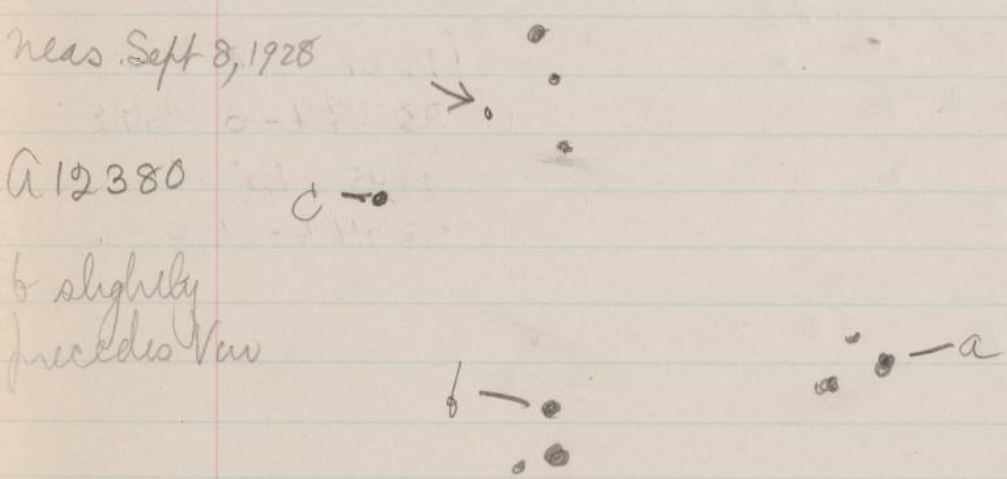
α 3.9215 98.0375
δ 2.3062 57.6550

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1926phae.proj.1258M

C

Var. {145 Found Sept 21, 1926, on a pl., Bk. 41, p. 99
{177 " Sept. 2, 1927, on MF pl., " 41, 132



B 1932.5

CPD	Magn	x-Var	y-Var.		x x 4	seed	
a -31 5560	9.3	13.08	10.2	Var fol N	52.32	1.179	61.68528
b -32 5403	10.3	0.72	12.8	Var fol N	2.88	1.179	3.39552
c -31 5570	9.3	4.72	2.0	Var prec N	18.88	1.177	22.22176

a 18 20 30.6 -31 5'.6
1' 1.7 10.2
18 21 32.3 -31 47.4

b 18 21 29.7 -32 0.2
3.4 12.8
18 21 33.1 -31 47.4

Not CDM

c 18 21 55.2 -31 49.3
Not Dimes 22.2 2.0
18 21 33.0 -31 47.3

18 21 32.3 -31 47.4 -05
21 33.1 47.4 +0.3
21 33.0 47.3 +0.2
8 4
18 21 32.8 -31 47.4 (1875)
1' 37.4 0.8
18 23 10.2 -31 46.6 (1900)

3.8957 97.3925
1.8826 47.0650

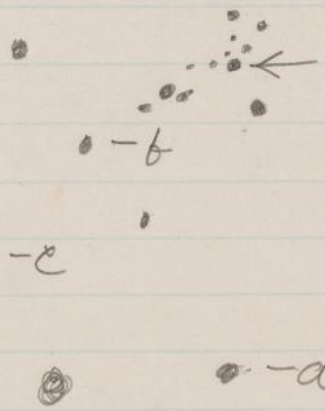
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1926phae.proj.1258W

78

Regim
18 9 - 30

Var. 168
Found Sept. 22, 1926, on a plates, Bb. 41, f. 122



Meas. Sept. 12, 1928
a 12490
images elongated
a slightly precedes
Var.

Orient by
-34°7944 9.2 = a
18 28 46.6 -34 37.4
-34 7945 9.7
18 28 46.6 -34 0.8

(Slide 135)
B 20477

			Mags	x-Var.	y-Var.		x × 4	sec δ	
a	-34	7944	9.2	0.52	12.7	Var. fol. N	2.08	1.215	2.52720
b	-34	7951	9.2	6.00	3.6	Var. prec N	24.00	1.213	29.11200
c	-34	7957	9.2	10.25	8.5	Var. prec N	41.00	1.214	49.77400

a 18 28 46.6 -34 37.4
2.5 12.7
18 28 49.1 -34 24.7

b 18 29 19.1 -34 28.5
29.1 3.6
18 28 50.0 -34 24.9

c 18 29 39.6 -34 9.3.3
49.8 8.5
18 28 49.8 -34 24.8

18 28 49.1 -34 24.7 -.05
28 50.0 24.9 +.04
28 49.8 24.8 +.02
289 24
18 28 49.6 -34 24.8 (1875)
1 39.5 1.0
18 30 29.1 -34 23.8 (1900)

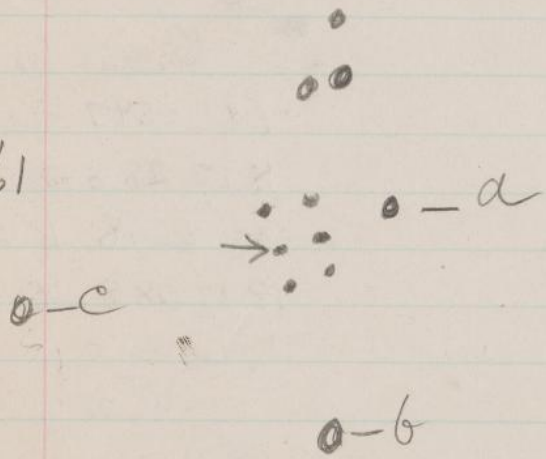
α 3.9818 99.5450
δ 2.5158 62.8950

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1926phae.proj.1258W

Times 113

Variable 144
Found Sept. 21, 1926 on A plates, Bb. 41, p. 98



A 2661

Orientty
-32 5397 10.3
18 21 23.6 -32 31.0
-32 5398 8.1
18 21 23.6 -32 51.6

B 20477
CPD

		Magn.	x-Var.	y-Var.	x x 4	sec δ	
a	-32 5396	10.3	2.57	1.2	10.28	1.181	12.14068 Var fols
b	-32 5401	8.8	1.40	10.2	5.60	1.183	6.62480 Var fols N
c	-32 5406	9.1	8.50	4.6	34.00	1.182	40.18800 Var prec N

a 18 21 22.6 -32 6.8
12.1 1.2
18 21 34.7 -32 8.0

b 18 21 27.6 -32 18.1
6.6 10.2
18 21 34.2 -32 7.9

c 18 22 13.6 -32 12.7
40.2 4.6
18 21 33.4 -32 8.1

18 21 34.7 -32 8.0 +16 +06
34.2 7.9 +11 +01
33.4 8.1 -07
3
4
18 21 38.1 -32 8.0 (1875)
1' 37.7 0.8
18 23' 1 1.8 -32 7.2 (1900)

3.9079 97.6975
1.8845 47.1125

Times 113 18h 21m.6 -32° 8' (1875)

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1926phae.proj.1258W

80

Region
18 9 -30

c – ●

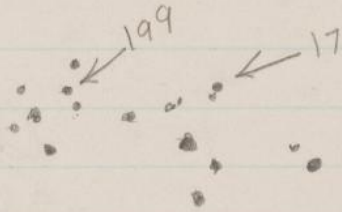
Var. 175

Var. found September 2, 1927, on MF plates
Bk. 41, p. 130

● – a

● – b

Meas. Sept. 18, 1928



Orient by
-28 6547 10.2
18 17 28.8 -28 34.8
-28 6548 10.2
18 17 28.8 -28 14.7

B17651
CPD

		Magn.	x-Var	y-Var	~~x×4~~		x×4	rec	
a	-28 6566	9.6	18.42	7.8	Var fol S		7368	1.136	83.70048
b	-28 6568	8.3	14.15	1.3	Var fol S		5660	1.137	64.35420
c	-28 6573	9.6	3.60	14.7	Var rec S		1440	1.135	16.34400

a 18 19 51.8 -28 20.9

1' 23.7 7.8

18 21 15.5 -28 28.7

b 18 20 10.3 -28 27.3

1' 4.4 1.3

18 21 14.7 -28 28.6

c 18 21 31.8 -28 14.0

16.3 14.7

18 21 15.5 -28 28.7

18 21 15.5 -28 28.7 +0.3
21 14.7 28.6 -0.5
21 15.5 28.7 +0.3

7

18 21 15.2 -28 28.7 (1875)
1 34.6 0.8

18 22 49.8 -28 27.9 (1900

50.1

2. 3.7844 94.6100
1.8570 46.4250

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1926phae.proj.1258M

Nearby 175 of δ .80. Hart this confirmed

Regim
18 24 -23

Var 199 of Regim 18 24 -23
Var. found August 4, 1926., on a plates,
Bb. 40, f 121

199 follows α is S of
175

x fol. 175
2.70

y S
0.1

X x 4 = 10.80
sec δ = 1.137
12.27960

Var. 175 18 22 49.8 -28 27.9 (1900)
12.3 0.1

199 18 23 2.1 -28 28.0 (1900)

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1926phae.proj.1258W

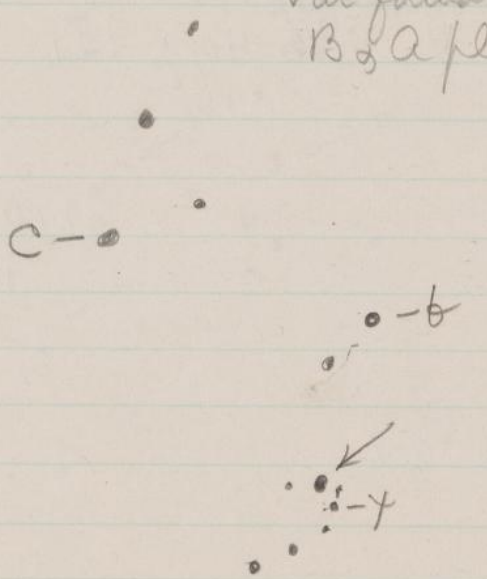
82 C

Regim

18 9 -30

Variable 186

Var found Sept. 17, 1928, between B & A plates (see original note) Bb. 41, f. 147



Orient same as f. 80

B 17651

CPD Magn. x-Var y-Var

a	-28	65'44	9.2	10.82	6.4	Var fol N	4328	1.141	49.38248
b	-28	65'47	10.2	0.60	5.1	Var fol S	2.40	1.139	2.73360
c	-28	65'54	10.2	6.72	8.0	Var far S	26.88	1.138	30.58944

a 18 16 42.8 -28 46.1

49.4 6.4

18 17 32.2 -28 39.7

b 18 17 28.8 -28 34.8

2.7 5.1

18 17 31.5 -28 39.9

c 18 18 3.3 -28 32.1

30.6 8.0

18 18 17 32.7 -28 40.1

18 17 32.2 -28 39.7 +0.1

17 31.5 39.9 -0.6

17 32.7 40.1 +0.6

6.4 27.

18 17 32.1 -28 39.9 (1875)

1 35.0 0.6

18 19 7.1 -28 39.3 (1900)

α 3.8010 95.0250

δ 1.5329 38.3225

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1926phae.proj.1258M

Is x or Var = Cat. star?

x precedes Var x S of Var.

0.30 0.7 sec δ = 1.140

1.20

1.36800

Var 18 17 32.1 -28 39.9 (1875)

1.4 0.7

18 17 30.7 -28 40.6 (1875)

CDM -28° 14567

18 17 33.1 -28 39.5 10

is probably same star as Variable

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1926phae.proj.1258w

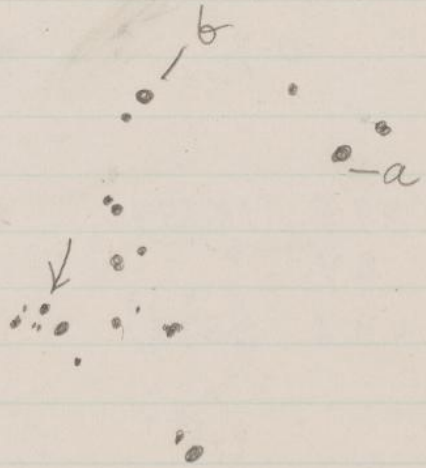
84 C

18 9 -30

Note faint stars near Variable 148
Found September 21, 1926, Bb. 41, p. 102, on a plates

Innes

Meas. Sept. 25
A 13528



Orcutt by
-31 5598 10.3
18 25 0.1 -31 31.3
-31 5599 10.2
18 25 0.1 -31 36.1

B 19448

	CPD	Magn.	x-Var.	y-Var.		x x 4	reed	
a	-31 5597	10.2	7 75	5.1	Var fol S	31.00	1.178	36.51800
b	-31 56 05	10.3	1.82	6.0	Var fol S	7.28	1.178	8.57584
c	-32 54 23	10.3	1.~~52~~ 48	8.8	Var fol N	~~6.08~~ 56.0	1.181	~~7.18048~~ 6.61360

a 18 24 59.6 -31 56.3
36.5 5.1
18 25 36.1 -32 1.4

b 18 25 26.1 -31 55.5
8.6 6.0
18 25 34.7 -32 1.5

c 18 25 30.5 -32 10.0
~~7.2~~ 7.6 8.8
~~33~~ -32 1.2
18 25 ~~37.7~~ 37.1

18 25 36.1 -32 1.4 +0.1
25 34.7 1.5 -1.3
25 37.1 1.2 +1.1
179 11
18 25 36.0 -32 1.4 (1875)
1 37.6 0.9
18 27 13.6 -32 0.5 (1900)

α 3.9031 97.5775
δ 2.2354 55~~8~~850

Innes 22 18 25 37 -32 1.2 (1875

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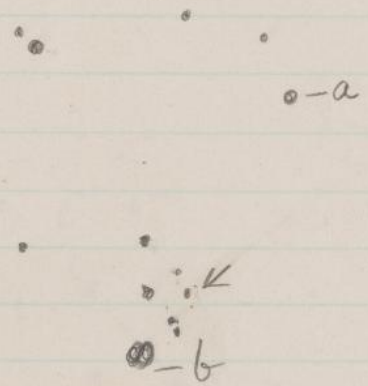
1926phae.proj.1258M

C

Lunes

Var. 160

Var. found Sept. 21, 1926, on A plates, Bk. 41, f. 114



B 12418

Meas. Sept. 29

Orient by:

−33 5173 10.3

18 28 44.4 −33 7.2

−33 5174

18 28 44.4 −33 28.2

B 43744

	CPD	Magn	x-Var.	y-Var.	x×4	sec δ		
a	−33 5142	9.3	2.70	9.7	10.80	1.199	Var. for S	12.94920
b	−33 5147	8.2	1.80	1.9	7.20	1.202	Var. prec N	8.65440
c	−33 5157	9.8	9.65	9.4	38.60	1.199	Var. prec S	46.28140

a 18 24 57.3 −33 30.9

12.9 9.7

18 25 10.2 −33 40.6

\+ 18 25 18.8 −33 42.6

8.7 1.9

18 25 10.1 −33 40.7

c 18 25 56.4 −33 31.2

46.3 9.4

18 25 10.1 −33 40.6

18 25 10.2 −33 40.6 +1

25 10.1 40.7 0

25 10.1 40.6 0

4

18 25 10.1 −33 40.6 (1875)

1 38.9 0.9

18 26 49.0 −33 39.7 (1900)

Lunes 19 18 25 10 −33 40.2 (1875)

α 3.9579 98.9475

δ 2.1978 54.9450

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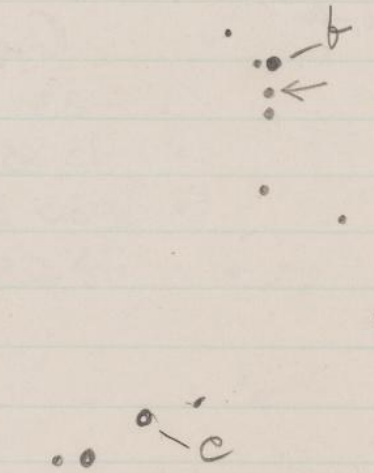
1926phae.proj.1258W

Innes

Regim 1899-30

Variable 166

Var. found Sept. 22, 1926, on A plates,
Bds. 41, 1.120



a 13085

Var slightly follows b

Orient by
C = -35 8194 9.2
18 36 46.0 -35 5.5
-35 8195 9.2
18 36 46.0 -35 15.3

B 20477

	CPD	Magn	x-Var	y-Var				
a	-35 8186	9.7	6.52	7.2	Var fol. N	26.08	1.2207	31.84368
b	-34 8050	9.8	0.17	0.8	Var fol. S	0.68	1.220	0.82960
c	-35 8194	9.2	3.00	8.5	Var prec N	12.00	1.222	14.66400

a 18 36.0 0.0 -35 39
31.8 7.2
18 36 31.8 -34 56.7

b 18 36 30.0 -34 56.2
0.8 0.8
18 36 30.8 -34 57.0

c 18 36 46.0 -35 5.5
14.7 8.5
18 36 31.3 -35 57.0

18 36 31.8 -34 56.7 +0.5
36 30.8 57.0 -0.5
36 31.3 57.0 00
9 207
18 36 31.3 -34 56.9 (1875)
1 39.8 1.3
18 38 1.1.1 -34 55.6 (1900)

47
3.9910 99.7750
3.1823 79.5575

Innes 151 18 36.5 -34 57 (1875

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1926phae.proj.1258W

C.

C

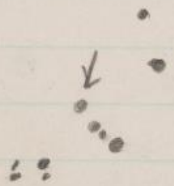
Var. 154

Var found Sept. 21, 1926 on a plates, Bk. 41, p. 108

Meas. Oct. 22 1926

@12380

-32 5398



Orient by
-32 5397 10.3
18 21 23.6 -32 31.0
-32 5398 8.1
18 21 23.6 -32 51.6

	Magn	x-Var.	y-Var.
a -32 5399	9.3	14.20	12.2
b -33 5118	10.0	4.40	13.2
c -32 5412	9.9	16.88	8.6

a 18 21 24.1 -32 42.2
1 7.5 12.2
18 22 31.6 -32 54.4

b 18 22 13.8 -33 7.7
21.0 13.2
18 22 34.8 -32 54.5

c 18 23 49.6 -32 45.5
1 20.3 8.6
18 22 29.3 -32 54.1

	x×4	sec δ	
Var fol. S	56.80	1.175	67.47840
Var. fol. N.	17.60	1.194	21.01440
Var prec. S	67.52	1.189	80.28128

18 22 31.6	-32 54.4	-0.3	-0.1
22 34.8	54.5	+2.9	-0.2
22 29.3	54.1	-2.6	+0.2
18 22 31.9	-32 54.3		(1875)
1 38.3	0.8		
18 24 10.2	-32 53.5		(1900)

α 3.9308 98.27
δ 1.9685 49.2125

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1926phae.proj.1258w

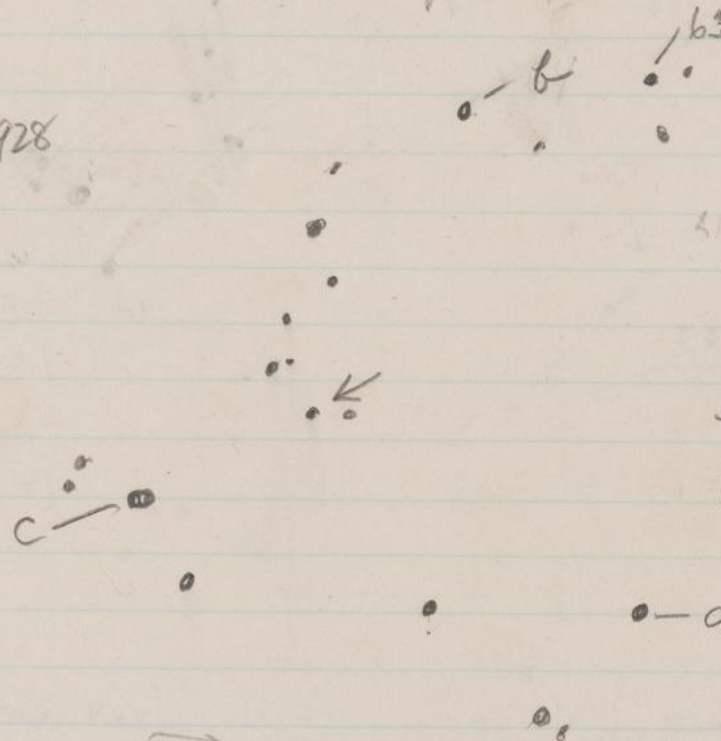
L.88 Region
18 9 30

Dunes

Var. 74
Found Sept. 10, 1926, on A plates, Bh. 41, 124

Meas Oct. 25, 1928

A 12380



Orient by:
-34 8076 9.6
18 39 28.5 -34 25.9
-34 8077 9.7
18 39 28.5 -34 28.2

	CPD	Magn	y-Var	Dbl	xx4	sec δ		
a	-34 80 53	9.2	9.80	35.6	39.20	1.208	47.35360	Var. fol.
b	-33 52 64	10.4	5.65	7.7	22.60	1.205	27.23300	Var. fol.
c	-34 80 67	8.4	4.50	1.8	18.00	1.207	21.72600	Var. prec.

a 18 37 7.5 -34 6.2
47.4 5.6
18 37 54.9 -34 0.6

b 18 37 26.9 -33 53.1
27.2 7.7
18 37 54.1 -34 0.8

c 18 38 15.8 -34 2.2
21.7 1.8
18 37 54.1 -34 0.4

18 37 54.9 -34 0.6 +0.5 +0.8
37 54.1 -34 0.8 -0.3 -0.2
37 54.1 -34 0.4 -0.3 +0.2
11 18

18 37 54.4 -34 0.6 (1875)
1 39.0 1.4
18 39 33.4 -33 59.2 (1900)

α 3.9620 99.0500
δ 3.3018 82.5450

Dmean 65 18 37.9 -34. 0 (1875)

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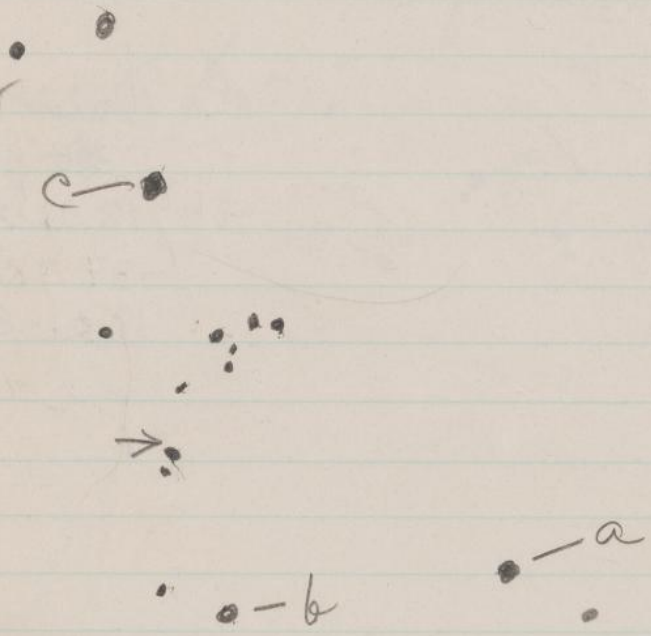
1926phae.proj.1258W

Var. 76
Found Sept. 10, 1926, on A plates, Bds. 41, f. 26 27

Meas. Oct 26, 1928

a 12380

Var. slightly prec. C



Orient by C and
−34 80 36 9.1
18 35 8.1 −34 45.3

B 22035

	CPD Magn.		x-Var.	y-Var.		x × 4	sec δ	
a	−34 80 23 9.0		11.05	1.8	Var. fol. N	44.20	1.210	53.48200
b	−34 80 29 9.8		1.85	3.7	Var. fol. N.	7.40	1.211	8.96140
C	−34 80 35 8.6		0.35	7 2/3	Var. prec. S	1.40	1.208	1.69120

a 18 34 12.6 −34 18.0
53.5 1.8
18 35 6.1 −34 16.2

C large image

18 35 6.1 −34 16.2 −0.6
35 7.6 16.2 +0.9
35 6.4 16.3 −0.3

b 18 34 58.6 −34 19.9
9.0 3.7
18 35 7.6 −34 16.2

18 21
18 35 6.7 −34 16.2 (1875)
1 39.3 1.3
18 36 46.0 −34 14.9 (1900)

C 18 35 8.1 −34 9.1
1.7 7.2
18 35 6.4 −34 16.3

56 Innes 18 35.2 −34 16 (1875

3.9726 99.3150
3.0603 76.5075

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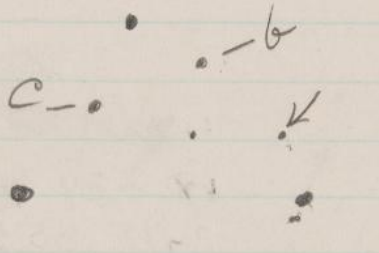
1926phae.proj.1258W

90 Reg.

18 9 -30

Var. 187

Found October 26, 1928, on A plates, BR. 41, f. 184



Orient by:
-34 7867 9.5
18 21 30.1 -34 41.9
-34 7868 9.4
18 21 30.1 -34 34.1

A 12458
Dec. Oct. 27, 1928

Var. summed by aerial ft. stars

B20477

			x-Var.	y-Var.		x x 4	sec δ	
a	-34°	7869	9.5	5.65	1.8 Var. fol. N	22.60	1.214	27.43640
b	-34	7872	9.8	3.00	2.2 Var. prec. S	12.00	1.213	14.55600
c	-34	7876	9.8	6.65	1.0 Var. prec. S	26.60	1.214	32.29240

a 18 21 32.1 -34 33.4
27.4 1.8
18 21 59.5 -34 31.6

b 18 22 14.1 -34 29.2
14.6 2.2
18 21 59.5 -34 31.4

c 18 22 32.1 -34 30.6
32.3 1.0
18 21 59.8 -34 31.6

18 21 59.5	-34 31.6	-0.1	-0.1	
21 59.5	31.4	-0.1	+0.1	
21 59.8	31.6	+0.2	-0.1	
18	16			
18 21 59.6	-34 31.5			(1875)
1 39.7	0.8			
18 23 39 3	-34 30.7			(1900)

~~Zones 15~~

α 3.9878 99.6950
δ 1.9215 48.0375

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1926phae.proj.1258W

c.

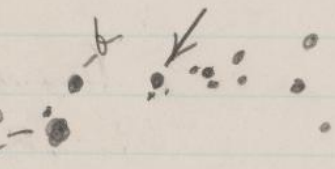
May be Nova of 1923

Var. 77

Is this a star image?

Found Sept 10, 1926, on A plates, Bk. 40, p. 27

Several ft stars close to Var.



Meas. Oct 27, 1928 A 12380

b only .1" S of Var.

Orient by

-34 7898 9.2
18 25 20.1 -34 48.8
-34 7899 9.4
18 25 20.1 -34 50.1

B 20477	Magn.	x-Var	y-Var		x×4	sec δ	
a -34 7887	9.1	8.65	1.6	Var fol N	34.60	1.216	42.07360
b -34 7892	9.4	2.97	0.1	Var prec N	11.88	1.216	14.44608
c -34 7893	9.4	3.52	1.4	Var prec N	14.08	1.216	17.12128

a 18 23 58.6 −34 41.4
42.1 1.6
18 24 40.7 −34 39.8

b 18 24 54.1 −34 39.9
14.4 0.1
18 24 39.7 −34 39.8

c 18 24 57.1 −34 41.1
17.1 1.4
18 24 40.0 −34 39.7

18 24 40.7 −34 39.8 +0.6
24 39.7 −34 39.8 −0.4
24 40.0 −34 39.7 −0.1
0 4
18 24 40.1 −34 39.8 (1875)
1 39.8 0.9
18 26 19.9 −34 38.9 (1908)

~~Innes 15-18 23.7 -34 47 (1875)~~

× 3.9915 99.7875
δ 2.1543 53.8575

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1926phae.proj.1258w

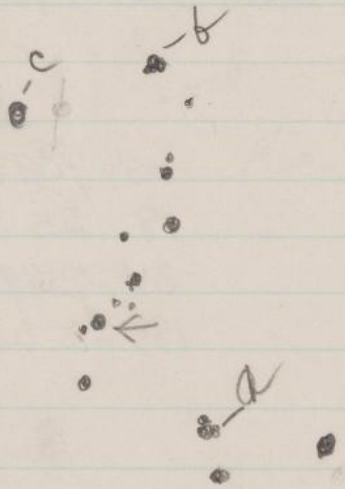
C. 92 Regin 18 9 −30

Ft stars?

Innes

Var. 188

Found October 27, 1928, on A plates, Bk. 41, f. 185



Orient Ly

a 12380 meas. Oct 27, 1928

−34 7898

−34 7899

c is same star as a, page 91

Same as p. 91

Var slightly fol. t

B 20477

	CPD	Magn	x-Var	y-Var		xx4	sec δ	
a	−34 7882	9.5	3.60	1.8	Var fol N	14.40	1.218	17.53920
b	−34 7885	9.2	0.98	7.6	Var fol S	3.92	1.216	4.76672
c	−34 7887	9.1	3.32	59	Var sec S	13.28	1.216	16.14848

a 18 23 24.6 −34 49.1

17.5 1.8

18 23 42.1 −34 47.3

b 18 23 36.6 −34 39.7

4.8 7.6

18 23 41.4 −34 47.3

c 18 23 58.6 −34 41.4

16.1 59

18 23 42.5 −34 47.3

18 23 42.1 −34 47.3 +0.1

23 41.4 47.3 −0.6

23 42.5 47.3 +0.5

0

18 23 42.0 −34 47.3 (1875

1 39.9 0.9

18 25 21.9 −34 46.4 (1900

15 Innes = 18 23.7 −34 47 (1875

α 3.9957 99.8925

δ 2.0701 51.7525

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1926phae.proj.1258M

C

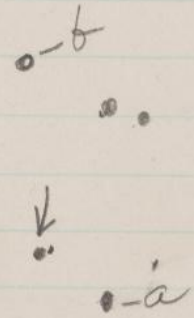
Var. 79

Var. found Sept. 10, 1928, on a plates, Bk. 41, p. 29

Near Sedge
2 plate

a 12380 C-O

b slightly fol Var.



Orient by
-35 7986 8.6
18 19 58.0 -35 24.8
-35 7987 9.7
18 19 58.0 -35 20.8

B 20477

	COPD	Magn	x-Var	y-Var		x × 4	sec δ	
a	-35 7994	9.8	2.52	2.3	Var fol N	10.08	1.22~~0~~8	12.30768
b	-34 7856	9.2	0.05	6.4	Var prec S	0.20	1.219	0.24380
c	-34 7864	9.0	5.55	4.2°	Var prec S	22.20	1.219	27.06180

a 18 20 44.8 -35 0.9
12.3 2.3
18 20 57.1 -35 58.6

b 18 20 59.1 -34 52.2
0.2 6.4
18 20 58.9 -34 58.6

c 18 21 25.1 -34 54.7
27.1 4.2
18 20 58.0 -34 58.9

18 20 57.1 -34 58.6 -0.9
58.9 58.6 +0.9
58.0 58.9 0.0
18 20 58.0 -34 58.6 (1875)
1 40.1 0.8
18 22 38.1 -34 57.8 (1900)

α 4.0036 100.0900
δ 1.8321 45.8025

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1926phae.proj.1258W

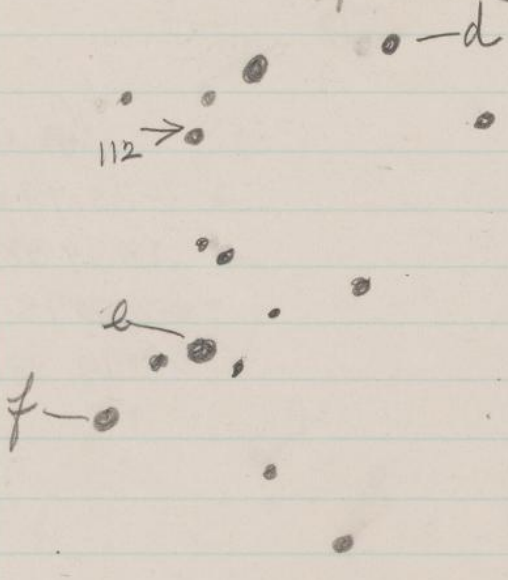
Not found

Reg 189-30

C.

Variable 112

Found Sept. 11, 1926, on A plates, Bk. 41, f. 62



A 3696

Orient by:

-38 7603 9.2

18 42 29.3 -38 13.4

-38 7604 8.8

18 42 29.3 -38 31.6

B 13870

	COD	Magn							
d	-38 7611	10.2	5.92	2.2	Vanfrl S	23.68	1.270 / 0.617	30.07360 / 14.61056	
e	-38 7614	10.0	0.52	6.3	Vanfrl N	20.8	1.273 / 0.619	2.64784	
f	-38 7616	10.2	2.42	7.3	Vanfree N	10.08	1.273 / 0.619	12.83184	

d 18 43 27.3 -38 5.1

30.4 / 14.6 2.2

18 43 57.4 -38 7.3

18 43 57.4 -38 7.3 +0.5 -0.1

43 56.9 -38 7.1 0.0 +0.1

43 56.5 7.1 -0.4 +0.1

28 5

e 18 43 54.3 -38 13.4

2.6 6.3

18 43 56.9 -38 7.1

18 43 56.9 -38 7.2 (1875)

1 42.5 1.6

18 45 39.4 -38 5.6 (1900

This is a large image. Comb id at b or only a? 189 free.

e 18 44 9.3 -38 14.4

12.8 7.3

18 43 56.5 -38 7.1

10.15 9.3 S α 4.1019 102.5475

δ 3.8221 95.5525 = 1 35.6

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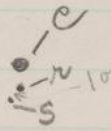
1926phae.proj.1258M

C

Var. 189

Found November 2, 1928 on a plates, Bk. 41, f. 186

Between a & b?



1 or 2 stars

See 13086

B1308

Both a & b vary

a, b, c, see f. 94

b fol a 0.15
S 0.3

		Magn	Meas				xx4	sec δ	
a	-38 7605	9.8	6.30	10.8	Var	fol N	25.20	1.277	32.18040
b	-38 7606	9.5	5.85	1.2	Var	fol N	23.40	1.274	29.81160
c	-38 7609	10.2	0.15	0.4	Var	nr S	0.60	1.274	0.76440

a 18 42 33.3 -38 27.1

32.2 10.8

18 43 5.5 -38 16.3

18 43 5.5 -38 16.3 +0.7
4.6 16.4 -0.2
4.3 16.5 -0.5
24 12

b 18 42 34.8 -38 17.6

29.8 1.2

18 43 4.6 -38 16.4

18 43 4.8 -38 16.4 (1875)
1 42.7 1.6
18 44 47.5 -38 14.8 (1900)

c 18 43 5.1 -38 16.1

0.8 0.4

18 43 4.3 -38 16.5

158 Times 18 43.0 -38 17 (1875

α 4.1081 102.7025

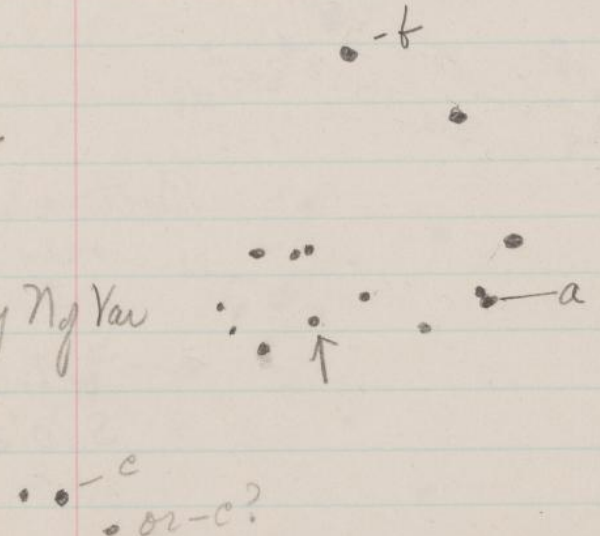
δ 3.7475 93.6875 = 1 33.7

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1926phae.proj.1258W

C Regim
18 9-30

Variable 80
Found Sept. 11, 1926, on a plates, Blo. 41, p. 30



a 9025

a slightly Ng Var

Orient by:
-35 7923 9.5
18 13 29.5 -35 36.1
-35 7924 9.7
18 13 29.5 -35 23.4
-35 7925 8.7
18 13 29.5 -35 6.1

19448
B ~~22035~~

	C	PD	Magn				× × 4	sec δ	
a	-35	7923	9.5	6.00	0.4	Var fol S	24.00	1.230	29.52000
b	-35	7929	9.3	1.30	8.2	Var fol S	5.20	1.228	6.38560
c	-35	7932	9.7	7.70	4.3	Var prec N	30.80	1.233	37.91480

a 18 13 29.5 -35 36.1
29.5 0.4
18 13 59.0 -35 36.5

b 18 13 52.0 -35 28.1
6.4 8.2
18 13 58.4 -35 36.3

c 18 14 36.2 -35 41.0
37.9 4.3
18 13 58.3 -35 36.7 not in Innes's field

18 13 59.0 -35 36.5 +0.4
58.4 36.3 -0.2
58.3 36.7 -0.3
17 15
18 13 58.6 -35 36.5 (1875)
1 40.7 0.5
18 15 39.3 -35 36.0 (1900

α 4.0285 100.7125
δ 1.2223 30.5575

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1926phae.proj.1258M

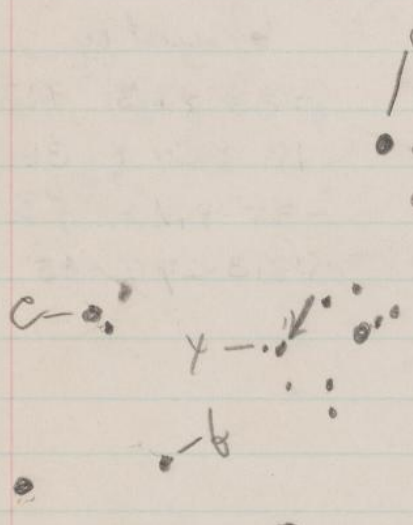
c

Var. 81

Found Sept. 11, 1926, on a plates, Bk. 41, f. 31

Meas Nov. 23, 1928

a 3696



Orient by
-35 8010 9.4
18 22 55.0 -35 8.2
-35 8011 9.8
18 22 55.0 -35 21.2

B 16496

		Magn	x-Var	y-Var		x x 4	sec δ	
30	a -35 7993	9.2	2.57	6.8	Var. frl. S	10.28	1.226	1260328
60	b -35 7997	9.8	3.85	3.1	Var. prec. N	15.40	1.228	18.91120
30	c -35 7999	9.2	6.65	1.0	Var. prec S	26.60	1.227	32.63820

a 18 20 39.0 -35 20.3
12.6 6.8
18 20 51.6 -35 27.1

18 20 51.6 -35 27.1 +0.7
20 51.1 27.0 +0.2
20 49.9 27.0 -1.0
2.6

b 18 21 10.0 -35 30.1
18.9 3.1
18 20 51.1 -35 27.0

18 20 50.9 -35 27.0 (1875)
1 40.5 0.8
18 22 31.4 -35 26.2 (1900)

c 18 21 22.5 -35 26.0
32.6 1.0
18 20 49.9 -35 27.0

Innes 9 18 20.8 -35 27 (1875

α 4.0207 100.5175
δ 1.8218 45.5450

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1926phae.proj.1258M

98 C

Regm 8 9-30

Meas. Nov. 13. 1928

Variable 89

Var. found Sept. 11, 1926, on a plates, Bb. 41, p. 39

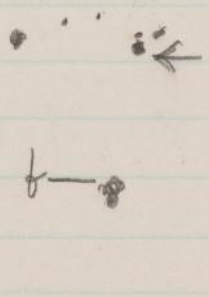
A 13085

Var. is quite faint on this pl.

-35 8162 is close dbl.; brighter star is assumed to be Cat. star.

b slightly fol. Var

c " " b



Circuit by

-35 8161 9.8

18 34 7.0 -35 33.7

-35 8162 9.2 = b

18 34 7.0 -35 9.0

B 12138

			Magn.	x-Var	y-Var
a	-35	8159	9.2	4.10	6.5
b	-35	8162	9.2	0.27	4.3
c	-34	8021	9.0	0.35	13.1

a 18 33 46.0 -35 10.9

20.1 6.5

18 34 6.1 -35 4.4

b 18 34 7.0 -35 9.0

1.3 4.3

18 34 5.7 -35 4.7

c 18 34 8.1 -34 51.5

1.7 13.1

18 34 6.4 -35 4.6

	xx4	sec δ
Var fol N	16.40	1.224 20.07360
Var prec N	1.08	1.223 1.32084
Var prec S	1.40	1.219 1.70660

18 34 6.1 -35 4.4 00 +0.2

34 5.7 -35 4.7 -0.4 -0.1

34 6.4 -35 4.6 +0.3 0.0

2 17

18 34 6.1 -35 4.6 (1875)

1 40.0 1.2

18 35 46.1 -35 3.4 (1900)

Innes 145 18 34.0 -35 6 (1875)

Z.C. α 4.0008 100.0200

8 2.9730 74.3250 = 1 14.3

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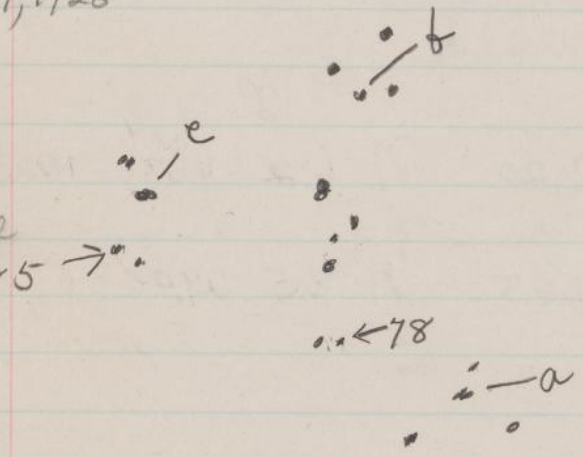
1926phae.proj.1258W

C Check 85684 from nearer Cat stars

Var. 78

Var. found Sept. 10, 1926, Bk. 41, p. 28, on a plates

meas. Nov. 17, 1928



a 4474 near N edge

Orient by: (in δ)

-35 8049 98

18 25 32.0 -35 5.8

-35.8057 9.7

18 26 5.5 -35 5.8

B 23750

CPD	Magn.	x-Var	y-Var		x x 4	sec δ	
c -35 80 37	9.7	3.60	1.1	Var. fr. N	14.40	1.224	17.62560
-35 8040	9.8	1.65	7.8	Var fr S	6.60	1.221	~~6.83760~~ 217460
c -35 8049	9.8	6.70	4.3	Var fr c S	26.80	1.222	32.74960

a 18 24 42.0 -35 11.2

17.6 1.1

18 24 59.6 -35 10.1

18 24 59.6 -35 10.1 -0.4

18 24 61.2 10.2 +1.2

24 59.3 10.1 -0.7

01

24 600

18 25 0.0 -35 10.1 (1875)

1 40.2 0.9

18 26 40.2 -35 9.2 (1900)

b 18 24 58.0 -35 2.4

~~3.2~~

~~6.8~~ 7.8

18 25 ~~4.8~~ 1.2 -35 10.2

c 18 25 32.0 -35 5.8

32.7 4.3

18 24 59.3 -35 10.1

2C. α 4.0089 100.2225

δ 2.1832 54.5806

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1926phae.proj.1258W

100

To be proved —

18 9-30 Vars. 84 & 85

84 found Sept. 11, 1926 on A plates, Bb. 41, f. 34

85 " Sept 11, " " " " " 41, f. 35

Check these from 1 cat Star. if used

84 precedes 78 10.20 N 6.2 ×4 40.80 1.223 49.89840

85 follows 78 7.25 N 3.5 29.00 35.46700

78 = 18 25. 0.0 −35 10.1 (1875 α 4.0055 101.1375

49.9 6.2 δ 2.1108 52.7700

→ 84 = 18 24 10.1 −35 3.9 (1875)

1 41.1 0.9

18 25 51.2 −35 3.0 (1900)

78 18 25 0.0 −35 10.1 (1875 α 4.0065 100.1625

35.5 3.5 δ 2.2347 55.8675

→ 85 18 25 35.5 −35 6.6 (1875

1 40.2 0.9

No one = 2 nos 18 27 15.7 −35 5.7 1900

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1926phae.proj.1258W

c

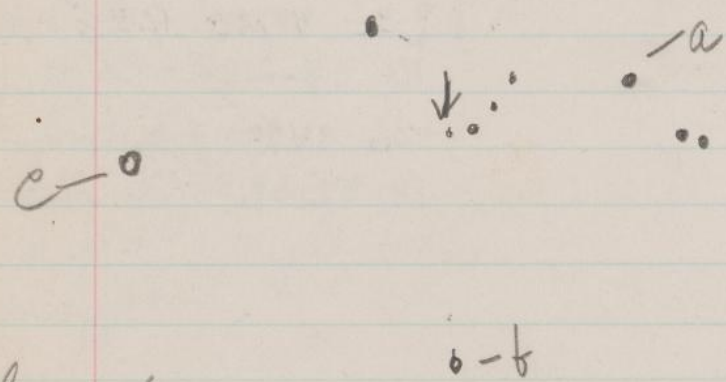
By very careful setting of plate Var. follows b about 0.5 mm

Variable 91

Var. found Sept. 11, 1926, on A plates, Bk. 41, f. 41

Meas. Nos.

A 13085



Orient by
−35 8161 9.8
18 34 7.0 −35 38.7
*−35 8162 9.2
18 34 7.0 −35 9.8

8162 dble. brighter comp. taken

c larger image
B 12138

	Magn.	x-Var.	y-Var		x	x4	
a −35 8160	9.8	4.45	1.4	Var. fol. S.	17.80	1.232	21.92960
b −35 8166	9.5	0.05	5.6	Var. slightly fol. N	0.20	1.233	0.24660
c −35 8172	8.8	8.50	1.0	Var. prec. N.	34.00	1.232	41.88800

a 18 34 1.0 −35 43.6
21.9 1.4
18 34 22.9 −35 45.0

b 18 34 22.0 −35 50.5
0.2 5.6
18 34 22.2 −35 44.9

c 18 35 6.0 −35 45.9
41.9 1.0
18 34 24.1 −35 44.9

18 34 22.9 −35 45.0 −0.2
34 22.2 44.9 −0.9
34 24.1 44.9 +1.0
92
18 34 23.1 −35 44.9 (1875)
1 40.6 1.2
18 36 3.7 −35 43.7 (1900)

Not in Times

× 4.0247 100.6175
δ 2.9975 74.9375 = 1 14.9

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1926phae.proj.1258W

102 C

Regn 8 9 -30

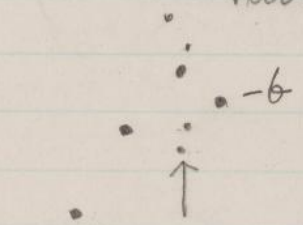
Note of faint stars near ? Var 3.8 S 4 or 3 fol ?

Note of close Cat. star = b

Var. 102

Var. found Sept. 11, 1926, on a plates, Bk. 41, p. 52

Meas Nr. 21



Orient by

-36 8472 9.2 = C

18 37 29.8 -36 51.0

-36 8473 9.6

18 37 29.8 -36 19.2

a 13085

Var. medium brightness

C —•

B 15138

C P D

		Magn.	x-Var.	y-Var.			x×4	sec δ	
a	-36° 8466	9.2	1.05	18.0	Var fol N	4.20	1.251	5.25420	
b	-36 8467	9.8	0.65	11	Var fol S	2.60	1.246	3.23960	
c	-36 8472	9.2	5.80	13.9	Var suc N	23.20	1.250	29.00000	

a 18 36 54.8 -36 55.2

5.3 18.0

18 37 0.1 -36 37.2

b 18 36 56.3 -36 36.2

3.2 1.1

18 36 59.5 -36 37.3

c 18 37 29.8 -36 51.0

29.0 13.9

18 37 0.8 -36 37.1

Add fraction of Var. Compared with fol. derived from a

18 37 0.1 -36 37.2 00

36 59.5 37.3 -0.6

37 0.8 37.1 +0.7

4 6

18 37 0.1 -36 37.2 (1875)

1 41.3 1.3

18 38 41.4 -36 35.9 (1900)

α 4.0532 101.3300

δ 3.2237 80.5925 = 1 20.6

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1926phae.proj.1258M

C 103 follows 102 S Note of faint stars near

Var. 103

b — 8504 Var. found Sept. 11, 1926, on a plates
Bb. 41, p. 53

Meas. Nov. 21

a

B 13085

c — Y

Orient as page 102

Var. faint 8514
but clear image. When
b slightly fol a bright, abnl = x
Var. closely fol b

Is x = CDM ?

B 12138

CPD	Magn	x-Var	y-Var		xx4	rec δ	
-36 8498	9.1	9.58	2.3	Var. fol. S	38.32	1.249	47.86168
-36 8505	9.0	1.82	5.4	Var. fol. S	7.28	1.248	9.08544
-36 8511	9.1	5.30	2.4	Var. nee N	21.20	1.250	26.50000

a 18 39 35.3 -36 47.9
47.9 2.3
18 40 23.2 -36 50.2

18 40 23.2 -36 50.2 -0.3 -0.1
23.9 50.1 +0.4 00
23.3 50.1 -0.2 00
1.4 4

b 18 40 14.8 -36 44.7
9.1 5.4
18 40 23.9 -36 50.1

18 40 23.5 -36 50.1 (1875)
1 41.5 1.5
18 42 5.0 -36 48.6 (1900)

c 18 40 49.8 -36 52.5
26.5 2.4
18 40 23.3 -36 50.1

Innes 155 18 40.2 -36 50 (1875)

α 4.0586 101.4650
δ 3.5161 87.9025 = 1 27.9

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1926phae.proj.1258W

104 C

Regim
18 9-30

ft star near
Variable 108
Var. found Sept. 11, 1926, Bk. 41, p. 58, on
a plates

meas. Nm. 28

A4474
near prec. edge

Orient by:
18 13 41.5 -38 42.6
-38 7475 6.9
and
-38 7476 8.5
18 13 41.5 -38 35.9

B17239
CPD

		Magn.	x-Var	y-Var.
a	-38 7478	9.8	9.35	11.6
b	-38 7479	9.4	8.55	23.2
c	-38 7483	9.8	3.32	1.0

a 18 14 10.5 -38 39.9
47.9 11.6
18 14 58.4 -38 28.3

b 18 14 16.0 -38 5.3
43.5 23.2
18 14 59.5 -38 ~~28.5~~

Notin
Innes limits

c 18 15 14.5 -38 29.6
17.0 1.0
18 14 57.5 -38 28.6

	x	δ
	4.1316	103.2900
	1.3094	32.7350

	x×4	sec δ		
Vanfol N	37.40	1.281	47.90940	
Vanfol S	34.20	1.271	43.46820	
Van prec N	13.28	1.278	16.97184	

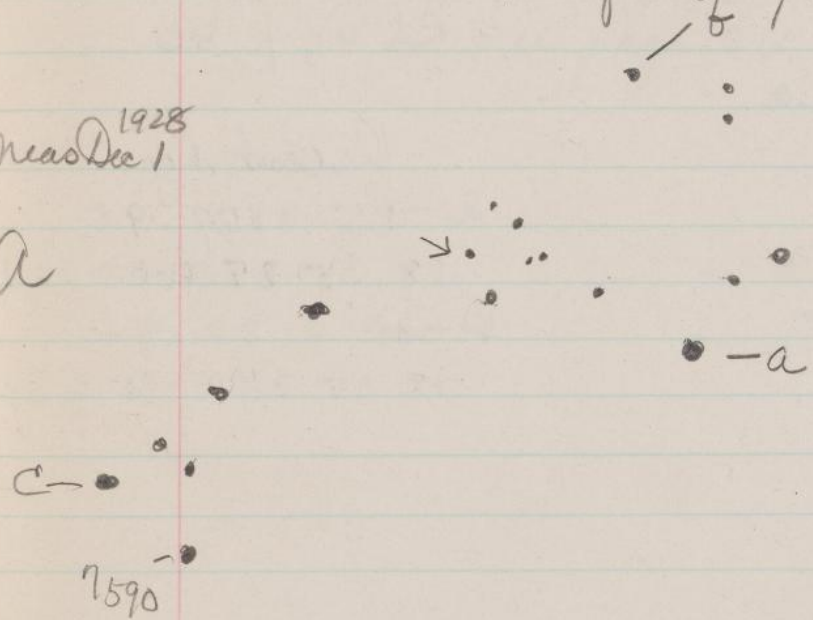
18 14 58.4 -38 28.3 -0.1 +0.2
54.5 -38 28.5 +1.0 00
57.5 -38 28.6 -1.0 -0.1
254 - 14
18 14 58.5 -38 28.5 (1875
43.3 0.5
18 16 41.8 -38 28.0 (1900

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1926phae.proj.1258M

C

Variable #11
Var. found Sept. 11, 1926, on a plate, Bk 41, p. 61



Meas Dec 1 1928

Orientby:
-38 7581 10.2
18 36 39.3 -38 20.1
-38 7582 9.9
18 36 39.8 -38 41.7
N B a slightly diff.

	CPD	Magn	x-Var.	y-Var.			xx4	rec δ		
a	-38	7583	9.5	7.00	3.6	Var fol N	28.00	+1.272	35.61600	
b	-38	7585	9.8	5.15	7.6	Var fol S	20.60	1.269	26.14140	
c	-38	7591	10.2	17.95	7.9	Var prec N	55.80	1.273	71.03340	

a 18 37 26.8 -38 11.2
35.6 3.6
18 38 2.4 -38 7.6

18 38 2.4 -38 7.6 +1.3 0.0
38 0.6 7.9 -0.5 -0.3
38 0.3 7.3 -0.8 +0.3
3 3 18

b 18 37 34.5 -38 0.3
26.1 7.6
Not Dmes 18 38 0.6 -38 7.9

18 38 1.1 -38 7.6 (1875)
1 42.7 1.4
18 39 43.8 -38 6.2 (1900)

c 18 39 11.3 -38 15.2
1 11.0 7.9
18 38 0.3 -38 7.3

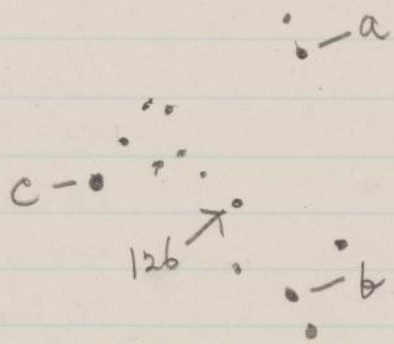
x 4.1090 102.6750
δ 3.3115 82.7875 = # 228

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1926phae.proj.1258w

Variable 126

127 → Var found Sept. 15, 1926, on a plates, Bk. 41, p. 80



a 6160

Orient by

a −35 8179 9.8
18 35 34.5 −35 16.1
b −35 8180 9.6
18 35 34.5 −35 23.9

B17484
COD

	Magn	x-Var	y-Var		x × 4	rec'd	
a −35 8179	9.8	1.40	4.6	Var. fol. S	560	1.225	6.86000
b −35 8180	9.6	1.40	3.0	Var. fol. N	5.60	1.227	6.87120
c −35 8187	9.0	4.30	0.6	Var prec S	17.20	1.226	21.08720

a 18 35 34.5 −35 16.1
6.9 4.6
18 35 41.4 −35 20.7

b 18 35 34.5 −35 23.9
6.9 3.0
18 35 41.4 −35 20.9

c 18 36 2.0 −35 19.9
21.1 0.6
18 35 40.9 −35 20.5

18 35 41.4 −35 20.7 to 2
41.4 20.9 to 7
40.9 20.5 −04 (3)
7 21
18 35 41.2 −35 20.7 (1875
1 40.2 1.3
18 37 21.4 −35 19.4 (1900

α 4.0094 100.2350
δ 3.1098 77.7450 = 1 17.7

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1926phae.proj.1258M

Variable 127
Found Sept. 15, 1926, on Aplates, Bk. 41, p. 81
see page 106

	fol.	N	x x 4	sec δ	
127 from 126	5.35	8.8	21.40	1.226	26.236400

126 = 18 35 41.2 −35 20.7 (1875)
26.2 8.8

127 = 18 36 7.4 −35 11.9 (1875)
1 40.1 1.3

127 = 18 37 47.5 −35 10.6 (1900)

James' Card

25y.

x 4.0039 100.0975
δ 3.1471 78.6775 = 1 18.7

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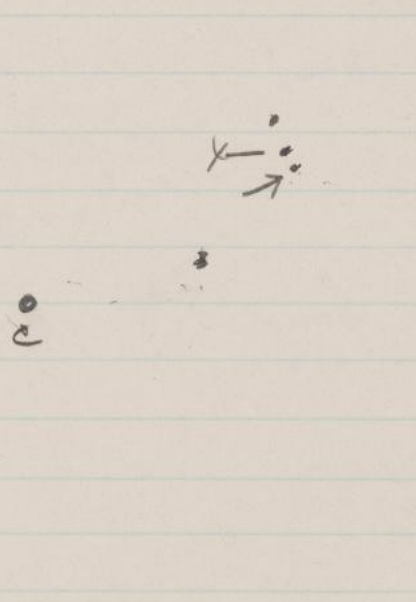
1926phae.proj.1258w

Variable 110

Var. found Sept. 11, 1926, on A plates, Bk. 41, f. 60

Meas. Dec. 10 1928

Orient by:
-38 7567 8.8
18 33 59.3 -38 23.8
-38 7568 10.2
18 38 59.8 -38 50.7



B 17143

CPD	Magn.	x-Var	y-Var			x x 4	sec δ	
a -38 7550	9.6	15.65	0.6	Var for S		62.60	1.278	80.06540
b -38 7553	10.2	9.20	13.6	Var for N		36.80	1.283	47.21440
c -38 7554	9.9	8.02	5.4	Var prec N		32.00	1.281	40.99200

a 18 27 31.3 -38 33.4
1 20.1 0.6
18 28 51.4 -38 34.0

b 18 28 2.8 -38 47.4
47.2 13.6
18 28 50.0 -38 33.8

c 18 29 32.3 -38 39.3
41.0 5.4
18 28 51.3 -38 33.9

fol N
x=0.35 0.4

18 28 51.4 -38 34.0 +0.5
50.0 33.8 -0.9
51.3 33.9 +0.4
27 27
18 28 50.9 -38 33.9 (1875)
1 43.2 1.0
18 30 34.1 -38 32.9 (1900)

4.1288 103.2200
2.5077 62.6925 = 1 27

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1926phae.proj.1258W

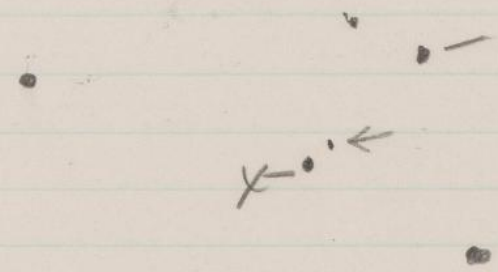
C

N.G.C. 6362

New Vars. as marked on A 12987

Var No. 1

Var found April 9, 1927 Bk 23, p. 32



Oriented by

-66 3101 8.6

17 11 11.0 -66 9.6

(c) -66 3111 9.0

17 15 21.5 -66 10.0

in δ. (Setting 1° diff)

A 12620

12620 is a badly twisted plate. Orient carefully when used for position

x 0.52 for Var's 0.5-S

B 25365

	C P D		x-Var	y-Var
a	-66 3105	8.9	5.50	3.5
b	-66 3106	8.8	3.40	5.0
c	-66 3111	9.0	9.90	2.3

a 17 12 49.0 -66 15.8

54.6 3.5

17 13 43.6 -66 12.3

b 17 13 10.0 -66 7.2

33.6 5.0

17 13 43.6 -66 12.2

c 17 15 21.5 -66 10.0

1 38.0 2.3

17 13 43.5 -66 12.3

	sec δ	x x 4			
Var for N	2.484	22.0	0	54.64	80.0
Var for S	2.478	13.60	33.59	20.0	
Var pre S	2.475	39.60	98.01	0.0	

17 13 43.6 -66 12.3 0.0 0.0

13 43.6 12.2 0.0 +0.1

13 43.5 12.3 -0.1 0.0

17 8

17 13 43.6 -66 12.3 (1875)

2 32 1.7

17 16 16 -66 14.0 (1900)

1 yr. 25 yr.

Z.C. Prec. α 4.021 x 100.5425

δ

25 yrs.

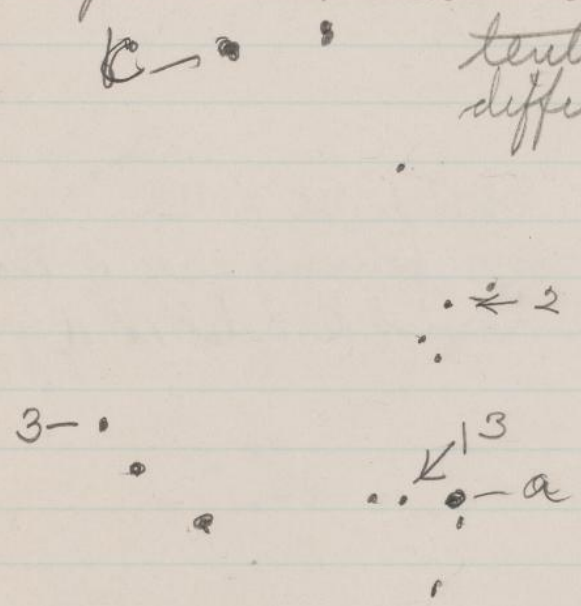
C P D α 152

δ 1.7

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1926phae_proj.1258M

Vars 2, 3, 13 were meas with same stars — reset slightly Var. No. 2) Found April 9, 1927, BD 23° 32 to get Vars on O point. Cat stars are very large images — the tenth of readings is very difficult and uncertain



a 12526

Orient by
−66 3110 8.9
17 14 29.0 −66 44.6
−66 3133 8.4
17 30 52.0 −66 44.2

These stars are more than half an A plate apart. Orientation may be badly out.

B 25365

CPD		Mon Yale S		Var
a	−66 3133	8.4	2.90	8.2
b	−67 3351	8.4	3.50	28.0
c	−66 3134	9.5	9.90	10.6

a 17 30 52.0 −66 44.2
29.4 8.2
17 31 21.4 −66 36.0

b 17 32 2.0 −67 3.9
35.9 28.0
17 31 26.1 −66 35.9

c 17 32 52.5 −66 25.0
1 39.0 10.6
17 31 13.5 −66 35.6

1 yr. 25 yr.

α
δ 2.50 15/23 12.5375

CPD α. 153
δ 1.0

		x x 4	rec'd
Var fols N	11.60	2.532	29.37120
Var prec N	14.00	2.566	35.92400
Var prec S	39.60	2.498 (500)	99.00006

17 31 21.4 −66 36.0 +1.1 −02
31 26.1 −66 35.9 +58 −01
31 13.5 −66 35.6 −6.8 +0.2
610 175
17 31 20.3 −66 35.8 (1875)
2 33 1.0
17 33 53 −66 36.8 (1900)

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1926phae.proj.1258w

C

NGC 6362

Var. No. 3

Var. found April 9, 1927, Bk 23, p. 32

Sketch see p. 113

a 12526

This var. is on following edge of film, see
Cat stars cannot be selected of greater R a

B 25365

		x-Var	y-Var		4 x y	sec δ	
a		15.60	1.5	Var. f o/s N	6240	2.532	157.99680
b		9.25 ~~3.00~~	21.2	Var f o/s N	~~32.00~~ 12.	2.566	~~30.792~~ 94.9
c		3.00 ~~9.25~~	17.5	Var f o/s S	~~37.00~~ 12.00	2.500	92.5000 30.0
a	17 30 52.0		-66 44.2				
	2 38.0		1.5				
	17 33 30.0		-66 42.7				
b	17 32 2.0		-67 3.9				
	1 ~~34.8~~ 30.8		21.2				
	17 ~~32 32.8~~ 33 36.9		-66 42.7				
c	17 32 52.5		-66 25.0				
	1 ~~32.5~~ 30.0		17.5				
	~~25.0~~						
	17 33 22.5		-66 42.5				

17 33 30.0	-66 42.7	+02	- 0.1		
33 36.9	42.7	+7.1	- 0.1		
33 22.5	42.5	-7.3	+ 0.1		
294	19				
17 33 29.8	-66 42.6	(1875)			
2 33	1.0				
17 36 3	-66 43.6	(1900)			

α CPD α 153

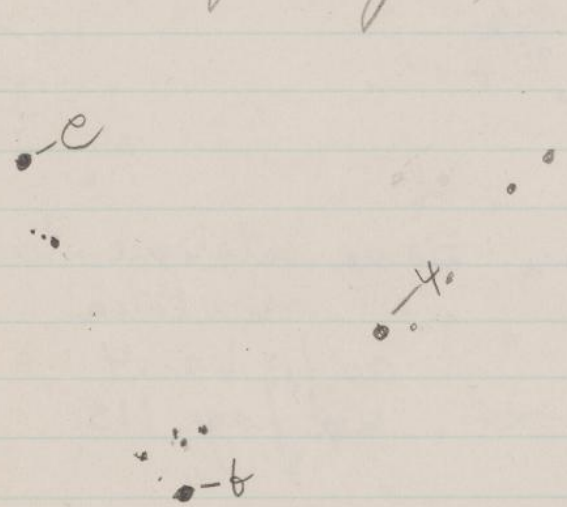
δ 2.3140 57.85 Prec. δ 1.0

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1926phae.proj.1258M

Var. No. 4

Var. found April 9, 1927, Bk. 23, p. 33



Print by

a 12620 -5 -66 3110 8.9

17 14 29.0 -66 44.6

(c) -66 3133

17 30 52.0 -66 44.2

in Dec.

These Cat. stars are very far apart — probably results in poor orientation

B 2536

			x-Var.	y-Var					
80	a	-66 3130	9.0	12.20	17.4	48.80	2.519	122.92720	Var. for 1875
— 94.942	b	-67 3345	9.6	8.70	8.9	34.80	2.563	89.19240	Var. for 1900
— 30.000	c	-66 3133	8.4	16.05	9.0	64.20	2.532	162.53440	Var. for 1875

a 17 26 5.5 -66 36.4

2 2.9 17.4

17 28 8.4 -66 53.8

b 17 29 42.5 -67 2.4

1 29.2 8.9

17 28 13.3 -66 53.5

c 17 30 52.0 -66 44.2

2 42.6 9.0

17 28 9.4 -66 53.2

17 28 8.4	-66 53.8 (538)	-20	-0.3	
28 13.3	-66 53.5 (535)	+29	0.0	
28 9.4	-66 53.2 (532)	-1.0	+0.3	
	31.1	15		
17 28 10.4	-66 53.5	(1875)		
2 33	1.2			
17 30 43	-66 54.7	(1900)		

α

δ 2.7760 69.40 δ 1.2

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1926phae.proj.1258W

116 C

NGC 6362

Var. No. 5

Var. found April 9, 1927, Bk. 23, 33

5 + 4 10.30 × 4 = 41.20 Var 4-5 5 fi

39 S δ

0017 V = 66494 sec = 3.5408

104.680960

17 26 25.7 -66 49.6 (1875

for check only

5

4

Mean July

a 12620

Same catalogue stars

" orientation

as for Var. 4

see page 115

x is 0.05 prec. Var and 0.2 S

B 25365

	x-Var	y-Var		x × 4	sec δ	
a	2.00	13.3	Var fr S	8.00	2.519	20.15200
b	19.00	13.0	Var prec N	76.00	2.563	194.78800
c	26.40	5.0	Var prec S	105.60	2.532	267.37920

a 17 26 5.5 -66 36.4

20.2 13.3

17 26 25.7 -66 49.7

b 17 29 42.5 -67 2.4

3 14.8 13.0

17 26 27.7 -66 49.4

c 17 30 52.0 -66 44.2

4 27.4 5.0

17 26 24.6 -66 49.2

17 26 25.7 -66 49.7 ∓0.3 -0.3

26 27.7 -66 49.4 +1.7 00

26 24.6 -66 49.2 -1.4 +0.2

180 13

17 26 260 -66 49.4 (1875)

2 33 1.2

17 28 59 -66 50.6 (1900)

α

δ 2.9267 73.1675

CPD α 153

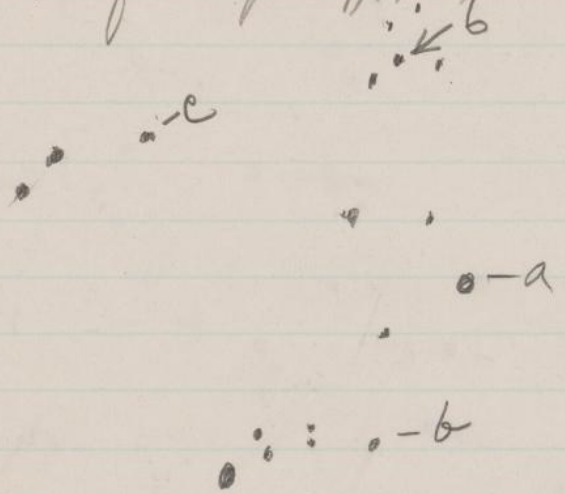
δ 1.2

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1926phae.proj.1258N

Var. No. 6

Var. found April 9, 1927 Bk. 23, p. 33



Meas. July.
On ecliptic
b precedes Var.

a 12620

Orient by
−67 33 42 9.4
17 25 41.0 −67 44.1
−67 33 50 9.8
17 31 48.0 −67 44.6

B25365

			x-Var	y-Var	x x y	sec δ		
a	−67	33 41	9.0	13.20	20.5	52.80	2.613	137.96640 V for N
b	−67	33 42	9.4	3.90	34.8	15.60	2.635	41.15280 V for N
c	−67	33 44	9.8	17.35	6.5	69.40	2.588	179.60720 V pre. N

a 17 24 6.0 −67 29.9
2 18.0 20.5
17 26 24.0 −67 9.4

b 17 25 41.0 −67 44.1
41.2 34.8
17 26 22.2 −67 9.3

c 17 29 24.0 −67 16.2
2 59.6 6.5
17 26 24.4 −67 9.7

17 26 24.0 −67 9.4 +0.5 +0.1
26 22.2 9.3 −1.3 +0.2
26 24.4 9.7 +0.9 −0.2
106 14
17 26 23.5 −67 9.5 (1875)
2 37 1.2
17 29 0.5 −67 10.7 (1900)

α 157
δ 2.9303 73.2575 δ 1.2

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1926phae.proj.1258W

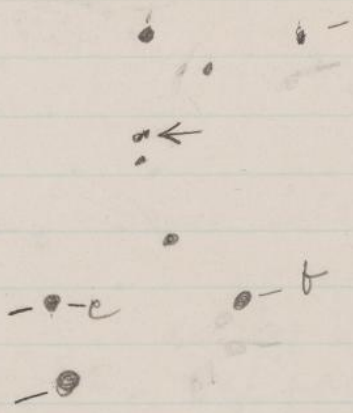
C

NGC 6362

Var No. 7

Found April 9, 1927 Bk 23, p. 34

a 12620



Meas July 28

Circuit by

-66° 3107 9.2

17 13 24.5 -66 52.7

-67° 3321 8.5

17 13 24.5 -66 13.4

m & δ C in δ

B 25365

	CPD			x-Var	y-Var		xx4	2 rec'd (2 mth.)	
a	-66 3097	17 10 40.0	-66 55.0	3.85	3.0	Var fr S	1540	2549	39.2 23.8 5460
b	-67 3313	10 48.5	-67 3.9	2.90	5.8	Var fr N	11.60	2560	29.6 18.0 6000
c	-67 3315	11 45.0	-67 4.0	2.85	6.0	Var frec N	1140	2560	29.1 17.7 6400

a 17 10 40.0 -66 55.0

39.3 3.0

17 11 19.3 -66 58.0

b 17 10 48.5 -67 3.9

29.7 5.8

17 11 18.2 -66 58.1

c 17 11 45.0 -67 4.0

29.2 6.0

17 11 15.8 -66 58.0

17 11 19.3 -66 58.0 +1.5 0.0

11 18.2 58.1 +0.4 -0.1

11 15.8 58.0 -2.0 0.0

233 1

17 11 17.8 -66 58.0 (1875)

2 32 1.8

17 13 50 -66 59.8 (1900)

α

δ 4.2296 105.7400

CPD α 152

δ 1.8

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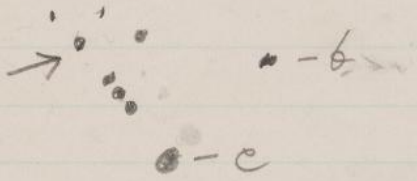
1926phae.proj.12580

Var No 8

Var. found April 9, 1927 Bk 23, p. 34

Meas July 23

a 12987



Other Cat. stars are far from Var.

b is slightly Sef Var.

Circle by

-66 3118 8.9

17 14 19.8 -66 44.6

-66 3133 8.4

17 30 52.0 -66 44.2

B 25365

	CPD		x-Var.	y-Var.	Magn.	xx4	Reed	
85460	a	-66 3127	12.50	5.8	(8.4)	50.00	2.5011	125.05000 V fols S
89600	b	-66 3128	7.40	0.7	(9.8)	29.60	2.5112	74.32560 V fol. 7
78400	c	-66 3130	4.15	5.0	(9.0)	16.60	2.518	41.79880 V fol 11

a 17 24 41.0 -66 26.0

2 5.0 5.8

17 26 46.0 -66 31.8

b 17 25 31.5 -66 32.0

1 14.3 0.7

17 26 45.8 -66 31.3

c 17 26 5.5 -66 36.4

41.8 5.0

17 26 47.3 -66 31.4

CPD

17 26 46.0	-66 31.8	-0.4	-0.3	
26 45.8	31.3	-0.6	+0.2	
26 47.3	31.4	+0.9	+0.1	
191	15			
17 26 46.4	-66 31.5	(1875)		
2 33.	1.2			
17 29 19.	-66 32.7	(1908)		

α

δ 2.8973 72.4325

CPD α 153

δ 1.2

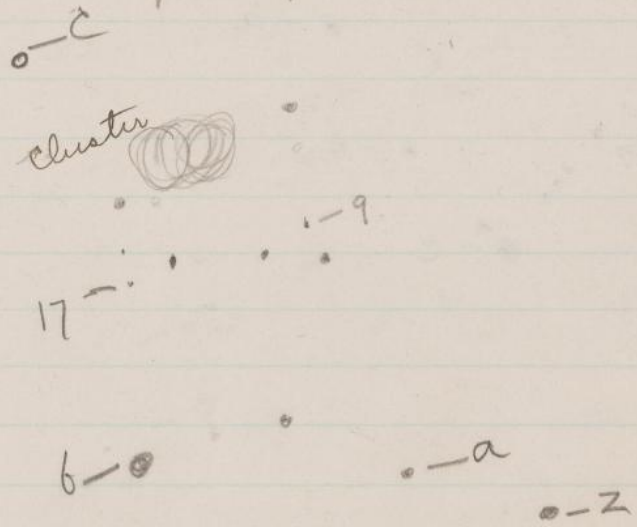
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1926phae.proj.1258w

N.G.C. 6362

Var. No. 9

Var. found April 9, 1927, Bk. 23, p. 35



Mean July 24

α 12528

Orient:-
a is 0.3 Sq b
z is 1.0 Sq a

B 25365

	CPD	Magn.	x-Var.	y-Var.		X x 4		Rec'd	
a	-67 3329	9.6	4.65	9.3	Var. fr. N	18.60	2.575	47.89500	a
b	-67 3333	9.2	5.30	9.0	Var. free N	21.20	2.575	54.59000	b
c	-66 3118	9.6	12.50	6.2	Var. free S	50.00	2.548	127.40000	c

a 17 17 13.5 -67 9.0

49.9 9.3

17 18 1.4 -66 59.7

17 18 1.4 -66 59.7 +1.4 0.0

18 0.9 59.7 +0.9 0.0

17 57.6 59.6 -2.4 +0.1

1799 20

17 18 0.0 -66 59.7 (1875)

2 33 1.6

17 20 33 -67 1.3 (1900)

b 17 18 55.5 -67 8.7

54.6 9.0

17 18 0.9 -66 59.7

c 17 20 5.0 -66 53.4

2 7.4 6.2

17 17 57.6 -66 59.6

δ ?

α δ 3.6545 91.3625 × 153 δ 1.6 ✓

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1926phae.proj.1258W

Var. No. 10

Var. found April 9, 1927,
Bb. 23, p. 35

10 — .

Orient by:—
−67 3342 9.4
17 25 41.0 −67 44.1
−67 3350 9.8
17 31 48.0 −67 44.6

12987

B 25365

	CPD	Magn.	x-Var	y-Var		x	x²	y
a	−67 3346	9.1	8.25	40.2	Var follows N	33.00	2.6281	86.724 00
b	−67 3349	9.8	4.60	2.1	Var follows S	18.40	2.605	47.93200
c	−67 3353	9.6	8.45	6.1	Var precedes N	33.80	2.620	88.55600

a 17 30 24.0 −67 38.1
1 26.7 10.2
17 31 50.7 −67 27.9

17 31 50.7 −67 27.9 +1.0 0.0
31 49.6 27.9 −0.1 0.0
31 48.9 27.8 −0.8 +0.1
292
17 31 49.7 −67 27.9 (1875)
2 37 1.0
17 84 27 −67 28.9 (1900)
16 16
18 11

b 17 31 1.7 −67 25.8
0 47.9 2.1
17 31 49.6 −67 27.9

c 17 33 17.5 −67 33.9
1 28.6 6.1
17 31 489 −67 27.8

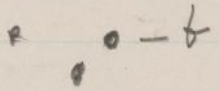
α 24589 61.4725

α 157
δ 1.0

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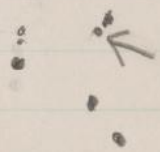
1926phae.proj.1258W

NGC 6362 Var No. 11



a 12643

Orient same as Var 16







	CPD	Magn	x-Var	y-Var		sec δ
a	-68 2916	8.5	14.50	7.7	Var for N	2.7227
b	-68 2919	9.8	3.65	12.8	Var for S	2.6832
c	-68 2920	9.7	6.45	15.2	Var prec N	2.7397

a 17 15 45.5 -68 27.0
7.7
-68 19.3

27.0
19
191

b 17 17 49.5 -68 7.1
12.8
-68 19.9

c 17 19 30.5 -68 35.6
15.2
-68 20.4

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1926phae.proj.1258w

Var No 12

This is Star 1, already marked.

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1926phae.proj.1258W

124 Proved

C

Var No. 13
Found, April 9, 1927, Ob. 23, f. 36

a 12526

See note on Star 2

x 0.6 fole Var 0.05 ? S.

B 35365
CPD

		x-Var	y-Var			x×4		
a		1.50	0.2	Var fole	slightly S	6.00	2.532	15.192
b		4.60	19.7	Var prec. N		18.40	2.566	47.214 4
c		11.00	19.0	Var prec S		44.00	2.500	110.00

a 17 30 52.0 −66 44.2
15.2 0.2
17 31 7.2 −66 44.4

17 31 7.2 −66 44.4 −1.0 −0.2
31 14.8 44.2 +66 0.0
31 2.5 44.0 −5.7 +0.2
245
17 31 8.2 −66 44.2 (1875
2 33 1.1
17 33 41 −66 45.3 (1900

b 17 32 2.0 −67 3.9
47.2 19.7
17 31 14.8 −66 44.2

c 17 32 52.5 −66 25.0
1 50.0 19.0
17 31 2.5 −66 44.0

CPD α 1.53
δ 1.1

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1926phae.proj.1258M

Var. No. 14 Omit for present – not found

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1926phae.proj.1258w

MSC 6362

Van. No. 15

Prove before measuring

a
b
c

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1926phae.proj.1258w

No. 16 near S edge

Meas July 26 Var. found April 9, 1927, Bk. 23, p. 37

a Var follows

b & x are stars for orientation

c

x

16

6

Oriented by
-68 2924 8.2
17 24 31.5 -68 4.9
-68 2928 7.9
17 26 29.0 -68 4.9
In Dec.
7.9 is very large image but these are exactly same δ

? give position with reference to &

B 25365

	CPD	CPD magn.	x-Var	y-Var.	x×4	sec δ		
a	-67 3340	9.6	6.52	6.5	26.08	2.664	69.47712	Var fols S
b	-68 2924	8.2	0.95	1.6	3.80	2.679	10.18020	Var fols N
c	-68 2929	9.8	10.40	1.6	41.60	2.673	111.19680	Var preced S

a 17 23 31.5 -67 57.0
1 9.5 6.5
17 24 41.0 -68 3.5

b 17 24 31.5 -68 4.9
10.2 1.6
17 24 41.7 -68 3.3

c 17 26 31.0 -68 1.9
1 51.2 1.6
17 24 39.8 -68 3.5

17 24 41.0	-68	3.5	+0.2	-0.1
24 41.7		3.3	+0.9	+0.1
24 39.8		3.5	-1.6	-0.1
2.5		1.3		
17 24 40.8	-68	3.4	(1875)	
2 40		1.3		
17 24 20.8	-68	4.7	(1900)	

25 yr.
CPD α 160
δ 1.3

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1926phae.proj.1258W

128

NGC 6362

No. 17
Van fund April 9, 1927, Bk. 23 f 37

Meas July 24

α 12984

See sketch for Var 9, f. 120

Var fols b slightly

		y-Var			x x 4	sec δ	
a	10.75	8.0	Var fol N		43.00	2.575	110.72500
b	1.00	7.7	Var fol N		4.00	2.575	10.30000
c	6.20	7.6	Var nr S		24.80	2.548	63.19040

a 17 17 13.5 −67 9.0
1 50.7 8.0
17 19 4.2 −67 1.0

17 19 4.2 −67 1.0 +0.3 00
19 5.8 1.0 +1.9 00
19 1.8 1.0 −2.1 00
11 8

b 17 18 55.5 −67 8.7
10.3 7.7
17 19 5.8 −67 1.0

17 19 3.9 −67 1.0 (1875)
2 36 1.5
17 21 40 −67 2.5 (1900)

c 17 20 5.0 −66 53.4
1 3.2 7.6
17 19 1.8 −67 1.0

α 156
δ 1.5

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1926phae.proj.1258w

00
00
40

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1926phae.proj.1258w

Wesleyan Letter of Carl L. Stearns Dec. 18, 1929

Wants plates showing Comet 1927 d

Dates of Approximate Ephemeris given:

1926 Dec.	4	14h 26.m7	-22° 59′
	12	14 33.9	-22 25
	20	14 41.3	-21 46
	28	14 48.2	-21 3
1927 Jan.	5	14 54.7	-20 13
"	13	15 0.5	-19 6
	21	15 5.7	-18 10
	29	15 10.0	-16 55
Feb	6	15 13.5	-15 28
	14	15 15.9	-13 50
	22	15 17.3	-11 57
Mar	2	15 17.4	-9 51
	10	15 16.3	-7 29

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1926phae.proj.1258w

No MF except a few in Dec, not this region
(to middle Dec) Dec 14 1926 to Sept 13 1927
no MF

aX None
a None

aI

~~aI~~ Dec 18 14.0 0
~~25323 Feb 12 15.0 -30 +30~~
25311 Feb. 27 15 0
25327 March 1 15 -20
25356 Mar. 10 15.0 0
25416 Apr. 7 15.0 0

aY

* 1321 Jan 30 15,0 -15
Plate plates 1418 Apr. 2
1445 Apr. 28
1483 June 8

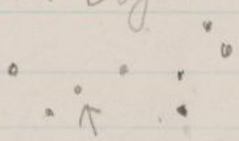
Prec 25 yr = 1m 25s -6'
72 yrs ?

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1926phae.proj.1258W

see AY 1020 15.9 -15
15-15 AY 1321 marked for Jan 29 = 15. 10 -16 55
For Jan 30 position = fol. N
plate very black, cannot superpose but compare region. See 1 object mkd ? on 1020 ← on 1321
some nearby stars of 8 mkd on 1020
AY 1418 April 2

1321 Obj ?



a faint star is in this position
15 2 - 16 35 might be comet superposed ?

See same image on AY 1418 1475, 1020 (marked ?)

Miss Walker saw 1020, & 1321, does not think image anything but the faint star

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1926phae.proj.1258W

aI 25311 Feb 27
15 17 −10 57

Feb 22 δ = −11 57
23 −11 42
24 −11 27
25 −11 12
26 −10 57
→ 27 −10 42
28 −10 27
Mar 1 −10 12
" 2 −9 57 5.1
" 3
4
5
6
7

aI 25356
Mar 10 = 15 16.3 −7 29

aI 25416 April 7
no position
→ best aI plate

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1926phae.proj.1258M

N.G.C 6723 Var. No. 16

a 12821

B 11069

CPD

a	-36	8617	9.8	18	50	11.8	-36	54.1	9.98	8.8	Var from N	39.92	1.251	49.9
b	-36	8627	9.6	18	51	15.3	-36	45.1	3.15	0.2	Var from N	12.60	1.248	15.7
c	-36	8628	8.7	18	51	17.8	-36	57.2	3.20	12.2	Var from N	12.80	1.251	16.0

	x-Var	y-Var	4×x	seed	
a	18 50 11.8	-36 54.1			
	49.9	8.8			
	18 51 1.7	-36 45.3			
b	18 51 15.3	-36 45.1			
	15.7	0.2			
	18 50 59.6	-36 44.9			
c	18 51 17.8	-36 57.2			
	16.0	12.2			
	18 51 01.8	-36 45.0			

18 51	1.7	-36 45.3	+0.7	-0.2
50	59.6	-36 44.9	-1.4	+0.2
51	1.8	-36 45.0	+0.8	+0.1
	63	~~-3~~	15	2
18 51	1.0	-36 45.1		

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1926phae.proj.1258W

9. 9 3992
5.7 2480
6.0 2480

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1926phae.proj.1258W

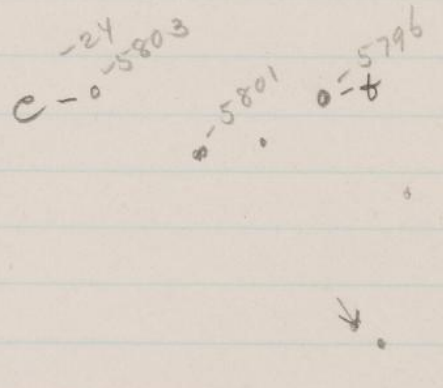
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1926phae.proj.1258W

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1926phae.proj.1258M

Regim 17 12-22 Var. 131



Orient by b & c in δ

a 5507

This is FV Ophiuchi (miss Swope) see card cat

B 27402

				x-Var	y-Var	
a -24 5792	16 55 27.0	-24 18.3	9.8	3.55	0.5	Var plus N
b -24 5796	16 55 53.5	-24 3.6	8.2	2.62	14.7	Var prec. S
c -24 5803	16 56 52.0	-24 3.7	8.0	15.70	14.8	Var prec S

x x 4 recd

14.20	1.097	15.57740
10.48	1.095	11.47560
62.80	1.095	68.76600

16 55 27.0 - 24 18.3
15.6 0.5
16 55 42.6 -24 17.8

16 55 53.5 -24 3.6
++ 1 15 14.7
16 55 4 20 -24 18.3

16 56 52.0 -24 37
688 14.8
16 55 432 -24 18.5

16 55 42.6	-24 17.8	00	+04
55 42.0	18.3	-06	-01
55 43.2	18.5	+06	-02
7 8	6		

16 55 42.6 -24 18.2 (1875)
+1 31.4 -2.3
16 57 14.0 -24 20.5 (1926)

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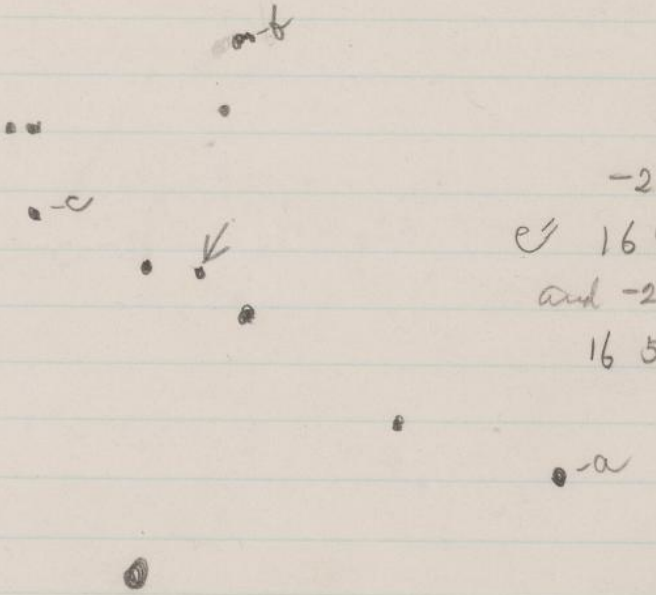
1926phae.proj.1256W

Var. 2 Samuas 96

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1926phae.proj.1258w

No 140 Found Nov. 25, 1930, Bk. 34, p. 110.



Orionby
−23 6421 9.8
c 16 48 40.6 −23 38.0
and −23 6438 9.5
16 51 11.3 −23 37.9

B 1916.1 x-Var y-Var xx4 sec d Mags CPD

a	−23 6413	19.00	6.6	Var frs N.	76.00	1.0927	83.045200	8.9
b	−23 6417	2.45	8.9	Var frs S	9.80	1.0906	10.687880	9.9
c	−23 6421	8.20	2.1	Var prec S	32.80	1.0916	35.804480	9.8

a 16 46 43.3 −23 46.8
1 23.0 6.6
16 48 6.3 −23 40.2

b 16 47 54.8 −23 31.5
10.7 8.9
16 48 5.5 −23 40.4

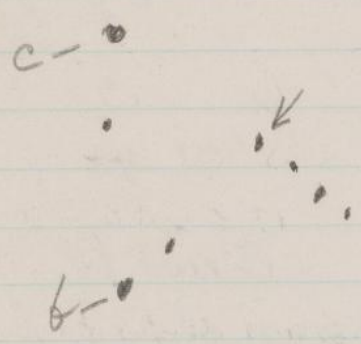
c 16 48 40.6 −23 38.0
35.8 2.1
16 48 4.8 −23 40.1

16 48 6.3 −23 40.2 +0.8 06
48 5.5 −23 40.4 06 −02
48 4.8 −23 40.1 −0.7 +0.1
16.6 7
16 48 5.5 −23 40.2 (1875)
1 30.6 − 28
16 49 36.1 −23 43.0 (1900)

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1926phae.proj.1259W

Var. No. 152 Bk 34, p. 119



Q 12992

Oreithy
-20 6484 10.2
17 4 26.1 -20 15.3

and

-21 6385 9.5
17 4 26.1 -21 43.3

x x4 sec δ

a	-20 6489	8.92	5.3	Var yr. S	38.68	1.071.0	38.213280	9.0
b	-21 6340	3.00	4.5	" prec N	12.00	1.0722	12.866400	10.0
c	-21 6341	4.35	3.4	" " S	17.40	1.0712	18.638880	9.2

a 17 5 2.1 -20 59.3

38.2 5.3

17 5 40.3 -21 4.6

b 17 5 52.2 -21 8.9

12.9 4.5

17 5 39.3 -21 4.4

c 17 5 57.4 -21 1.1

18.6 3.4

17 5 38.8 -21 4.5

17 5 40.3 -21. 4.6 +0.8 -0.1
5 39.3 4.4 -02 +0.1
5 38.8 4.5 -07 00

11.84 -21 1.5

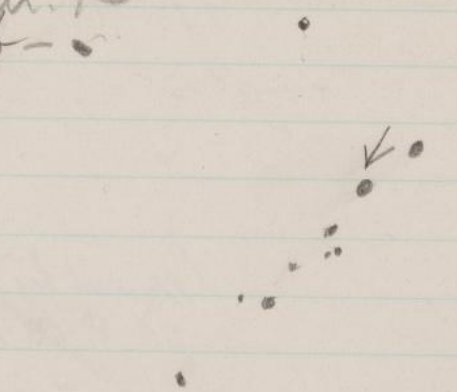
17 5 39.5 -21 4.5 (1875)
+1. 29.5 + 2.3/4
17 7 9.0 -21 2.1 (1900)

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1926phae.proj.1258w

Var. 93

Meas. Jun 10 1931



a12992

Print by same as p141 in R.A. and

−20 64 55 16 58 460
−20 53 98

and

B19161 − 10061

−20 6476 17 2 30.1
−20 53 10.2

a	−20 6497	8.8	10.20 (18)	3.1	Var in S & fil	40.80 (×4)	1.070 (and)	43.65600
b	−20 6502	8.2	6.68	1.9	" " S fuc	26.72	1.0698 (70)	28.5904
c	−20 6503	8.6	6.90	6.0	" " N fuc	27.60	1.0707	29.55960

a 17 6 16.1 −20 48.1
43.7 3.1
17 6 59.8 −20 51.2

17 6 59.8 −20 51.2 +1.0 00
6 58.3 −20 51.1 −0.5 +0.1
6 58.3 −20 51.2 −0.5 00
24 5

b 17 7 26.9 −20 49.2
28.6 1.9
17 6 58.3 −20 51.1

17 6 58.8 −20 51.2 (1875)
1 29.0 −1.9
17 8 27.8 −20 53.1 (1931)

c 17 7 27.9 −20 57.2
29.6 6.0
17 6 58.3 −20 51.2

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1926phae.proj.1256W

Van

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1926phae.proj.1258w

144 Regim

17 12-22 Object Var ? 154

Oriental (in δ)

-24 5814 ~~14~~ 9.4

17 0 29.0 -24 58.6

and

-24 5819 10.0

17 1 15.6 -24 58.7

and -25 5923 9.4

16 57 2.8 -25 10.4 in α

-25 5924 7.0

16 57 2.8 -25 27.8

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1926phae.proj.125dw

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