1926phae.proj.1217w

KG
11366
215

Ida E. Woods
Book 39
Discussion, Measures of Position,
etc., of New Variables

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1926phae.proj.121rw

KG 11366.215

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1926phae.proj.121MW

Index to Book 39

For Index to each Variable by current number in its own region or by final position, see package of cards, New Variables. (In white box)

Index by Regions:
Positions, etc.

p. 8 to 35 MW Region 1824-23
42 " 93 " " " "
44 " 149 " " 1899-30
150 " 220 " " 1824-23

94 to 97 Vars. near NGC 6584
98 " 131 " " " 6541
134 " 142 " " " 6723

36 to 41 Magnitudes to use, 1824-23

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1926phae.proj..121W

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1926phae.proj.12[illegible]

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1926phae.proj.1217W

8 Measures on A plates are made on mm paper. Plate, film up

(Continued from page 1)

H13.838

N. N. Regin 18 24 -23

Variable No. 16

Position on A3699 (5x10)

Fund June 28, 1926 on MF plates, Bk. 37, page 97

miss Cannon says should be glass up — when paper is used.

a = 23 7082

b = 23 7084

c = 23 7087

Orient by:

-23 7089 18 20 24.3

-23 32.6 9.0

-24 6405 18 20 24.5

-24 38.1 8.3

a = -24 6390

Magnas

A3699 15.5

MF9793 14.5

A7340 16.5

Meas July 7, 1926

Var	x-Var.	y-Var.	x x 4	sec δ	
	mm	mm	mm		s
a	+ 2.22	- 4.42	8.88	1.0949	9.722712
b	- 2.88	+12.32	11.52	1.0925	12.585600
c	- 13.85	+ 6.65	55.40	1.0933	60.568820

B19326 CPD (1875) Magn

a	18 18 32.3	-24 2.1	9.8			
	9.7	4.4				
	18 18 42.0	-23 57.7		from a	18h 18m 42.0s	-23° 57' 7" -0.8 -0.1
b	18 18 56.3	-23 45.2	10.2	" b	43.7	57.5 +0.9 +0.1
	12.6	12.3		" c	42.7	57.6 -0.1 0.0
	18 18 43.7	-23 57.5			84	18
c	18 19 43.3	-23 51.0	9.5		18 18 42.8	-23 57.6 Mean Pos 1875
	1 0.6	6.6			1 31.6	0.7
	18 18 42.7	-23 57.6			18 20 14.4	-23 56.9 (1900)

		1 yr.	25 yrs.
ZC Prec.	α	3.6660	91.6500
	δ	1".6357	40".8925

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1926phae.proj.122...

not CPM

NB 838

Confirmed

MW Region 18 24 -23 Variable No. 15

Position on a 7340
Meas. July 8, 1926
Give Position faint star which precedes and is slightly N.

Found on June 28, 1926.
" on MF Plates, Bk. 37, page 96

b — 6417

c — faint star close

a

Magnitudes	
MF 9793	14.5
a 3699	[17.0
a 7346	14.0

Orient same as page 8

B1932.6

	CPD.	Magn.	x-Var	y-Var	x x 4	rec'd	
a	-24° 6413	9.6	+4.m78	-15.98	18.12	1.0998	21.5028176
b	-24 6417	8.2	- 3.75	+11.80	15.00	1.0958	16.437000
c	-24 6421	10.0	- 6.20	+ 1.32	24.80	1.0974	27.215520

(1875)

a	18	22	9.0	-24	36.2		
			21.0		16.0		
	18	22	30.0	-24	20.2		
b	18	22	45.5	-24	8.6		
			16.4		11.8		
	18	22	29.1	-24	20.4		
c	18	22	56.3	-24	19.0		
			27.2		1.3		
	18	22	29.1	-24	20.3		

from a	18	22	30.0	-24	20.2	+0.6	+0.1
" b	18	22	29.1	-24	20.4	-0.3	-0.1
" c			29.1	-24	20.3	-0.3	00
	18	22	29.4	-24	20.3		Mean Position 1875
		1	31.9		0.8		
	18	24	1.3	-24	19.5		(1900)

ft star	y-Var	y-Var	x x 4	rec Var (1900)
	+0.35	+0.8	1.40	

Z.C. Prec.	1 yr.	25 yr.
α	3.6741	91.8525
δ	1.9648	49.1200

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1926phae.proj.121.tw

10. confirmed

HB 838

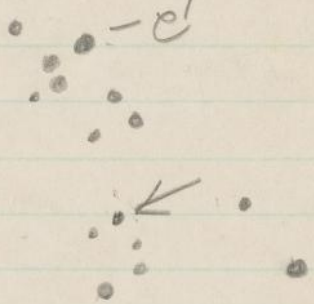
MW Regim 18 24 −23 Found June 30, 1926 Variable No. 14.

Position meas. on a 3699, July 8, 1926

" on MF plates, Bk. 37, page 95

Magns.	
a 3699	13.5
a 7340	[16.5

Orientation same as page 8



B1932.6

	CPD	Magn	x-Var	y-Var.	xx	rec δ	s
a	−23 7110	9.8	+16.42	−0.82	65.68	1.0933	71.807944
b	−23 7112	10.0	+14.88	−8.35	59.52	1.0943	65.132736
c	−23 7116	10.2	−0.88	+4.98	3.52	1.0925	3.845600

(1875)

a	18 22	53.3	−23	50.7		
b	18 23	0.0	−23	58.1		
c	18 24	6.8	−23	44.9		
a	18 22	53.3	−23	50.7		
	1	11.8		0.8		
	18 24	5.1	−23	49.9		
b	18 23	0.0	−23	58.1		
	1	5.1		8.4		
	18 24	5.1	−23	49.7		
c	18 24	6.8	−23	44.9		
		3.8		5.0		
	18 24	3.0	−23	49.9		

fma	18	24	5.1	−23	49.9	+0.7	−0.0′
	b	18 24	5.1	−23	49.7	+0.7	+0.2′
	c	18 24	3.0	−23	49.9	−1.4	−0.0′
			13.2		2.8		
	18	24	4.4	−23	49.9		Mean Pos. 1875
			1 31.5		0.9		
	18	25	35.9	−23	48.9		(1900)

Rec. 2.C	1 yr.	25 yr.
α	3.66 10	91.5250
δ	2.10 25	52.5625

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1926phae.proj.121MW

Confirmed

Not CDM
Looks at bright star close

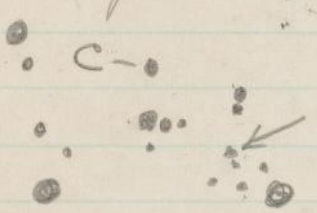
NB838

Variable No. 41

Magns.
a3699 ~~13.8~~ 14.8
a7340 16.5

MW Regim 18 24 23
Found July 2, 1926
" m d plates, Bk. 38, page 172

Position measured on a3699 (edge of regim) July 8, 1926



Orient by:
-24 6443
18 25 57.0 -24 8.2 9.9
and -24 6444
18 25 57.0 -24 9.9 9.0
These stars are very close but variable is close, also.

B1926

	CPD	Magn.	x-Var.	y-Var.	x×4	sec δ	
a	-24° 6441	10.2	+1.46	+6.26	5.84	1.0953	6.396552
b	-24 6442	10.2	-1.88	+9.56	7.52	1.0948	8.232896
c	-24 6443	9.9	-2.68	+2.37	10.72	1.0958	11.746976

1875

a	18 25 38.0	-24	4.5	
	6.4		6.3	
	18 25 44.4	-24	10.8	
b	18 25 53.0	-24	1.2	
	8.2		9.6	
	18 25 44.8	-24	10.8	
c	18 25 57.0	-24	8.2	
	11.7		2.4	
	18 25 45.3	-24	10.6	

from a 18 25 44.4 -24 10.8 -0.4 -0.1
b 44.8 -24 10.8 0.0 -0.1
c 45.3 -24 10.6 +0.5 +0.1

	25		22	Mean Pos.
18 25	44.8	-24	10.7	1875
1	31.7		0.9	
18 27	16.5	-24	9.8	(1900)

16 or 17?
25 44.83
1 31.72
27 16.55 Use 17s

Prec. 2.c. 1 yr. 25 yr.

α	3.6688	91.7200
δ	2".2482	56.2050

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1926phae.proj.121.tw

12 Confirmed

Not CPM

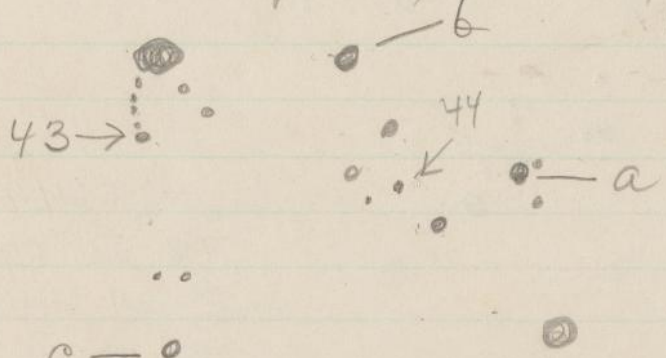
413838

MW Region 18 24 -23 Variable No 43

Position meas. Found July 2, 1926
on A 3699 " on La Plata, Obs. 38, p. 174
July 9, 1926

Magnr.	
a 3699	12.8
a 7340	15.0

H star near — about 15.0



43 N of a
44 S of a
b follows 44
43 follows c

B 27408
a -24° 6426
b -24 6429
c -24 6434
CPD 1875
a -24 6426
b -24 6429
c -24 6434

	Var.	x	y	x - Var	y - Var	x x 4	sec δ	
	43	+3.00	+7.00					
a	9.8	+16.68	+6.30	+13.68	-0.70	54.72	1.1023	60.3178
b	9.4	+10.07	+9.98	+7.07	+2.98	28.28	1.1017	31.1560
c	9.0	+3.70	-0.48	+0.70	-7.48	2.80	1.1033	3.0892

a	18 23	28.3	-24	52.4	
	1	0.3		0.7	
	18 24	28.6	-24	51.7	
b	18 23	57.3	-24	48.9	
		31.2		3.0	
	18 24	28.5	-24	51.9	
c	18 24	25.8	-24	59.2	
		3.1		7.5	
	18 24	28.9	-24	51.7	

from a	18 24	28.6	-24	51.7	-0.1	+0.1
b		28.5		51.9	-0.2	-0.1
c		28.9		51.7	+0.2	+0.1
		20		23		
	18 24	28.7	-24	51.8	(Mean Pos. 1875 ✓	
		1 32.2		0.9		
	18 26	0.9	-24	50.9	(1900)	

		1 yr.	25 yr.
2C Prec.	α	3.6884	92.2100
	δ	2.1378	53.4450

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1926phae.proj.122

2 vars meas. one setting of plate. x & y readings given as only one meas of Cat. stand is made

Confirmed

HB838

MW Region 18 24 −23. Variable No. 44

Found July 2, 1926

a 3699 " on Ca plates, Bk. 38, f. 175

July 9, 1926

Magns.
a 3699 14
7340 16.2

See page 12

		x	y			x×4	sec.δ
	Var. 44	+11.32	+6.00	x-Var	y-Var		
	a			+5.36	+0.30	21.44 (p.12)	23.633312
	b			−1.25	+3.98	5.00	5.508500
	c			−7.62	−6.48	30.48	33.628584

a
18 23 28.3 −24 52.4
23.6 0.3
18 23 51.9 −24 52.7

b
18 23 57.3 −24 48.9
5.5 4.0
18 23 51.8 −24 52.9

c
18 24 25.8 −24 59.2
33.6 6.5
18 23 52.2 −24 52.7

from a 18 23 51.9 −24 52.7 −0.1 +0.1
b 23 51.8 52.9 −0.2 −0.1
c 52.2 52.7 +0.2 +0.1
18 23 52.0 −24 52.8 Mean (1875)
1 32.2 0.9
18 25 24.2 −24 51.9 (1900)

ZC Prec.	1 yr.	25 yr.
α	3.6891	92.2275
δ	2.0846	52.1150

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1926phae.proj.121.tif

14 Continued

N13838

Region 18 24 -23 Variable No. 45.

Position meas. Found July 2, 1926. Magns.

a3699, on 4 plates, Bb. 38, page 176. a3699 14.5

uptime edge of film mF955 14.0

July 9, 1926 a7340 15.5

Quintby

-24 6433 10.0

18 24 24.8 -24 15.6

-25 6551 10.0

18 24 24.7 -25 16.8



B 17708 cpd Magn X-Var. y-Var. xx4 sec δ

a	-24° 6439	-9.9	+17.02	+5.65	68.08	1.1024	75.051392	
b	-24 6445	10.0	+5.05	+5.70	20.20	1.1024	22.268480	
c	-25 6565	10.2	+2.68	-7.68	10.72	1.1043	11.838096	
				final a	18 26 27.1	-24 58.7	0.0	-0.1
				b	26.8	58.7	-0.3	-0.1
				c	27.3	58.4	+0.2	+0.2
					18 26 27.2	-24 58.6	Mean Pos 1875	
					1 32.3	1.0		
					18 27 59.4	-24 57.6	(1900)	

1875

a 18 25 12.0 -24 53.1

1 15.1 5.6

18 26 27.1 -24 58.7

b 18 26 4.5 -24 53.0

22.3 5.7

18 26 26.8 -24 58.7

c 18 26 15.5 -25 6.1

11.8 7.7

18 26 27.3 -24 58.4

2c Prec. 1yr. 25 yr.

α 3.6910 92.275

δ 2.3095 57.7375

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1926phae.proj.1217W

Confirmed

N13838

Region 18 24 -23 Variable No. 32

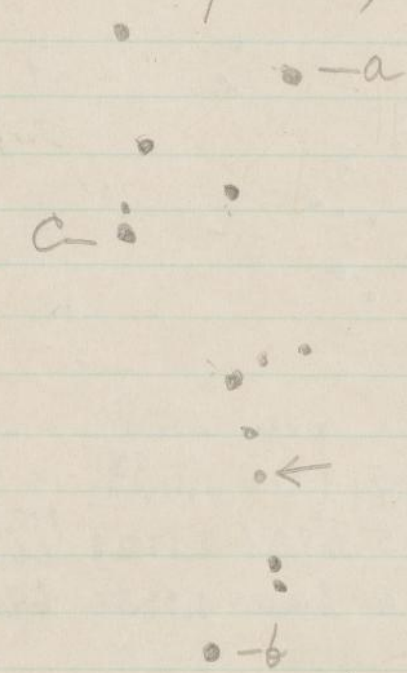
Positions Found July 1, 1926

measured on 11 plates, Bk 38, page 163

a 3699

July 9, 1926

	Magn
a 3699	14.5
a 11688	[16.0



Orientation

-25 6453 9.6

18 10 17.4 -25 28.0

-25 6454 10.0

18 10 17.4 -25 32.6

B 17708

C.P.D	Magn	x-Var.	y-Var.
a -24° 6334	9.9	+ 1.27	+ 14.02
b -24 6339	10.2	- 4.50	- 5.35
c -24 6341	10.2	- 1.70	+ 7.88
		4.50	+ 7.88

1875

a 18 10 26.7 -24 37.6

15.6 6.7 14.0

18 10 33.4 -24 51.6

32.3

b 18 10 39.7 -24 56.6

19.9 7.5 5.4

18 10 19.8 32.2 -24 51.2

c 18 10 52.7 -24 44.0

19.8 7.5 7.9

18 10 32.9 -24 51.9

	x x 4	recd	
	6.08	1.1000	6.688000
	680		749720
	+800	1.1029	19.852200
	1480		1981800
	680	1.1010	7.486800

form a 18 10 32.3 -24 51.6 -0.2 +0.6 0.0

b 10 32.2 51.2 -0.3 -0.7 +0.4

c 10 32.9 51.9 +0.4 0.0 -0.3

14 26 1.7

18 10 32.5 -24 51.5 Mean Pos 1875

1 32.3 0.4

18 12 4.8 -24 51.2 (1900)

2 C. Prec. 1 yr. 25 yr.

α 3.6911 92.2775

δ 0.9221 23.0525

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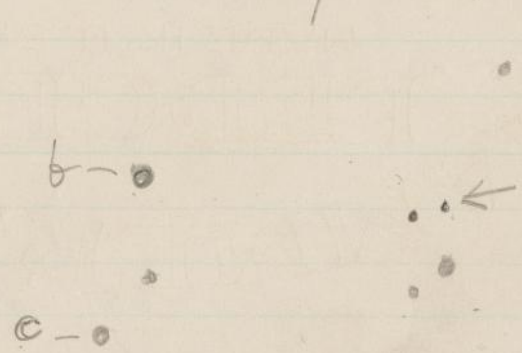
1926phae.proj.121MW

16 Continued

HB 838

Regim 18, 24 -23 Variable No. 33

Position measured Found July 1, 1926
a 3699 on A plates, Bk. 38, page 164
July 10, 1926



Magno.
a 3699 13.2
a 11688 16.5
Orientby
-25 6452 9.6
18 10 17.4 -25 28.0

	B 1932.6		mag.	x-Var.	y-Var.	xx4	sec		
a	-25	6487	9.2	+3.54	+10.15	14.16	1.11 ~~12~~ 98	-25	6453 10.0
b	-25	6496	10.2	-14.84	+1.35	59.36	1.1121	18	10 17.4 -25 32.6
c	-26	6423	9.6	-15.50	-4.10	62.00	1.1130		15.728928
									66.014256
									69.006000

a 18 14 14.0 -25 48.3
15.7 10.2
18 14 29.7 -25 58.5

b 18 15 35.5 -25 56.8
1 6.0 1.4
18 14 29.5 -25 58.2

c 18 15 39.0 -26 2.2
1 9.0 4.1
18 14 30.0 -25 58.1

firma	18 14	29.7	-25	58.5	00 -0.2
b		29.5		58.2	-02 +0.1
c		30.0		58.1	+0.3 +0.2
		22		8	
	18 14	29.7	-25	58.3	Mean Ep 1875 ✓
		1 38.1		0.5	
	18 15	59.8	-25	57.8	(1900)
	✓16	2.8			

zc Prec.	1 yr	25 yr.
α	3.7224	93.0600
δ	1.2671	31.6900

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1926phae.proj.122

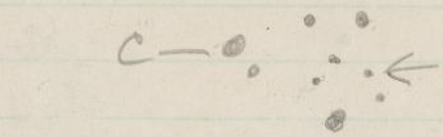
Confirmed

HB 838

Variable No. 35

Positn measured a3699 July 10, 1926

Found on July 1, 1926 on a plates, Bk. 38, page 166



Magns.
a3699 14.8
a11688 16.5

Orientation same as page 16

B1932.6 CPD

	magn	x-Var.	y-Var.	x×4	sec δ	
a -26 6405	9.1	+5.02	−12.22	20.08	1.1152	22.393216
b -25 6473	9.5	+3.50	+5.58	14.00	1.1124	15.573600
c -26 6409	10.2	−4.00	+0.04	16.00	1.1183	17.812800

a 18 12 18.5 −26 16.1

22.4 12.2

18 12 40.9 −26 3.9

b 18 12 25.2 −25 58.8

15.6 5.6

18 12 40.8 −26 4.4

c 18 12 58.8 −26 4.2

17.8 0.0

18 12 41.0 −26 4.2

2 c Prec. 1 yr. 25 yrs.

α 3.7254 93.1350

δ ~~1.1139~~ 1.1091 27.8475

frm a 18 12 40.9 −26 3.9 00 +0.8

b 40.8 4.4 −0.1 −0.2

c 41.0 4.2 +0.1 0.0

18 12 40.9 −26 4.2

1 33.1 0.5

18 14 14.0 −26 3.7

Mean Pos. 1875

(19.00)

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1926phae.proj.1217w

18 Confirmed

MW Region 18 24 -23
Found July 2, 1926
" m d Plates, Bk. 38, p. 169

HB 838

Variable Nro. 38

Position meas.
a 9759
July 10, 1926

Magns.
a 9759 13.7
a 7340 [16.0

Orient by
-20 7063 9.4
18 26 20.4 -20 22.2
-20 7064 10.0
18 26 20.4 -20 33.8
-20 7065 9.0
18 26 38.9 -20 22.2
rec δ

b slightly precedes c

B 17708
CPD

			x-Var.	y-Var.	x x 4	rec δ	
a	-20°	7087	9.4	+17.48 +3.22	69.92	1.0680	74.674560
b	-20	7101	9.4	- 1.35 -9.78	5.40	1.0695	5.775300
c	-20	7103	9.6	- 2.07 +8.78	8.28	1.0674	8.838072

1875

a	18 29	36.4	-20 33.3	
	+1	14.7	32	
	18 30	51.1	-20 36.5	
b	18 30	56.0	-20 46.2	
		5.8	9.8	
	18 30	50.2	-20 36.4	
c	18 31	0.0	-20 27.9	
		8.8	8.8	
	18 30	51.2	-20 36.7	

2 Prec. α 3.5706 89.5650 (14 yr. 25 yr.)
δ 2.6911 67.2775

Firma

	18 30	51.1	-20 36.5	+0.3	0.0
b		50.2	36.4	-0.6	+0.1
c		51.2	36.7	+0.4	-0.2
		25	16		
	18 30	50.8	-20 36.5		(1875)
		1 29.3	1.1		
	18 32	20.1	-20 35.4		(1900)

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1926phae.proj.121rw

Confirmed

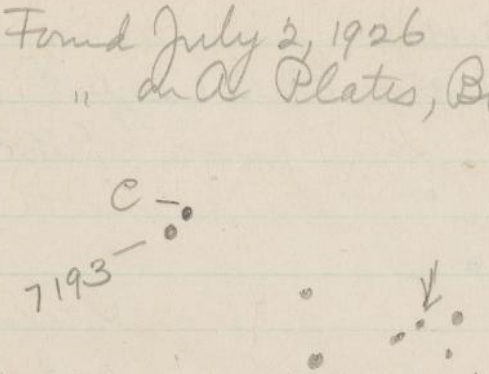
HB838

Variable No. 40

Position measured a 9759 July 10, 1926

Found July 2, 1926 " Da Plates, Bks. 38, page 171

Magns.
a 9759 14.0
a 7340 [17.0



Orient by
-22 7194 9.6
18 41 57.3 -22 22.3
-22 7195
18 42 10.3 -22 22.3
-22 7196
18 42 10.3 -22 28.3

B 17708

	CPD	Magn	x-Var.	y-Var.	xx4	sec δ ✓	
a	-22 7183	10.4	+9.00	+9.00	36.00	1.0788	38.836800
b	-22 7188	9.1	-6.72	-2.32	26.88	1.0802	29.035776
c	-22 7192	10.4	-19.00	+7.05	76.00	1.0789	81.996400

a	18 39	46.8	-22	2.1	18 40	25.6	-22 11.1	-0.5 -0.4
		388		9.0		27.3	10.6	+1.2 +0.1
	18 40	25.6	-22	11.1		25.3	10.3	-0.8 -0.4
b	18 40	56.3	-22	12.9	18 40	26.1	-22 10.7	Mean Pos.
		29.0		2.3		1 30.2	1.5	1875 ✓
	18 40	27.3	-22	10.6	18 41	56.3	-22 9.2	(1900)
c	18 41	47.3	-22	3.3				
		1 22.0		7.0				
	18 40	25.3	-22	10.3				

α 3.6088 90.2200
δ 3.5199 87.9975 = 1 30.0

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1926phae.proj.1217W

20 Confirmed

HB838

MW Region 18 24 -23 Variable No. 18

Found June 28, 1926

" in MF plates, Bb 37, page 99

Positim meas. m a 2605 July 12, 1926

Magnit.
MF 9793 13.8
9550 15.0

b

b precedes Var

Circle by a and
-27 6363 10.2
18 10 34.9 -27 56.0

a

c

B27184

					x-Var.	y-Var	xx4	rec	δ
a	-27 6364	18 10	34.9	-27 10.9	9.4	+22.58	-5.55	0.32	1.124
b	-26 6404	18 12	0.0	-26 44.7	9.5	+ 3.92	+20.72	15.68	1.120
c	-27 6377	18 12	29.9	-27 27.3	8.2	- 3.03	-22.28	12.12	1.127

18	10	34.9	-27 10.9
	1	41.5	5.6
18	12	16.4	-27 5.3
18	12	0.0	-26 44.7
	+	17.6	20.7
18	12	17.6	-27 5.4
18	12	29.9	-27 27.3
		13.7	22.3
18	12	16.2	-27 5.0

18	12	16.4	-27 5.3 -0.4 -0.1
		17.6	5.4 +0.2 -0.2
		16.2	5.0 -0.5 +0.2
		22	7
18	12	16.7	-27 5.2 Mean Pos.
	1	33.9	0.4
18	13	50.6	-27 4.8 (1900)

1yr.

2C Prec. α 3.7850 93.8750
δ 1.0739 26.8475

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1926phae.proj.121w

10.1.51968
1.7.56160
13.65924

(1875)

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1926phae.proj.121rw

22 Confirmed

HB838

Region 1824-23 Variable No. 19.

Found July 28, 1926

" in MF plates, Bh. 38, f. 150 magne.

MF 9793 13.5

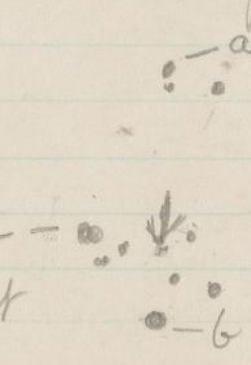
a 2605 16?

Position measured on a 2605 July 12, 1926.

a & b slightly fol Var.

c N of Var

Orient by a & b



B26116

				glass up x-Var.	y-Var.	x×4	ref	
a	-27°	6246	9.6	+0.08	+6.42	0.32	1.131	36.192
b	-27	6245	8.9	-+0.08	-2.15	0.32	1.132	36.224
c	-27	6251	8.6	-+2.30	+0.30	9.20	1.132	1.041440

a 18 4 25.3 -27 50.6

0.4 6.4

18 4 24.9 -27 57.0

b 18 4 25.3 -27 58.9

0.4 2.2

18 4 24.9 -27 56.7

c 18 4 35.8 -27 56.4

10.4 0.3

18 4 25.4 -27 56.7

18 4 24.9 -27 57.0 -0.2 -0.2

24.9 56.7 -0.2 +0.1

25.4 56.7 +0.3 +0.1

32 24

18 4 25.1$_5$ -27 56.8 Mean Pos 1875

+ 34.3 0.2

18 5 59.4 -27 56.6 (1900)

.6

1yr. 25yr.

2c Prec. α 3.7417 94.2925

δ 0.3866 9.6650

3.7814

3.7817 94.5425

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1926phae.proj.1217w

Not CDM
HB 838

Confirmed

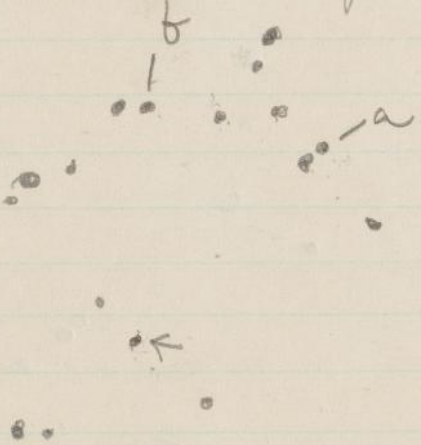
Variable No. 3

Pos. meas. Found April 30, 1926
α 9376 " on MF Plates, Bk. 37, f. 84.
July 12, 1926

Magns.
α 9376 12.5
α 7340 15.0

Orient by:
−28 7202 9.8
18 35 0.8 −23 11.1

−28 7203 9.6
18 35 0.8 −23 17.9



Var. slightly
follows b

glass rf

B 17708	Magn	x-Var.	y-Var.	x × 4	sec δ	
a −22 7134	10.1	+19.00	+12.35	36.00	1.082	38.95200
b 39	10.0	+0.04	+13.42	0.16	1.082	0.17312
c 41	10.4	+2.65	−10.32	10.60	1.085	11.50100

(1875)

a	18 33 59.2	−22 24.6	
	39.0	+12.4	
	18 34 38.2	−22 37.0	
b	18 34 36.5	−22 23.7	
	02	13.4	
	18 34 36.7	−22 37.1	
c	18 34 50.0	−22 47.4	
	11.5	10.3	
	18 34 38.5	−22 37.1	

18 34 38.2	−22 37.0	+0.4	+0.2	
36.7	37.1	−1.1	+0.1	0.0
38.5	37.1	+0.7	−0.2	0.0
23.4	2			
18 34 37.8	−22 37.1			
1 30.6	1.3			
18 36 8.4	−22 35.8			

Mean Pos.
1875
(1900)

	1 yr.	25 yr.
α	3.6229	90.5725
δ	~~3.014~~	~~75.3525 = 1′ 15.4~~
	3.0187	75.4675 = 1 15.5

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1926phae.proj.12176

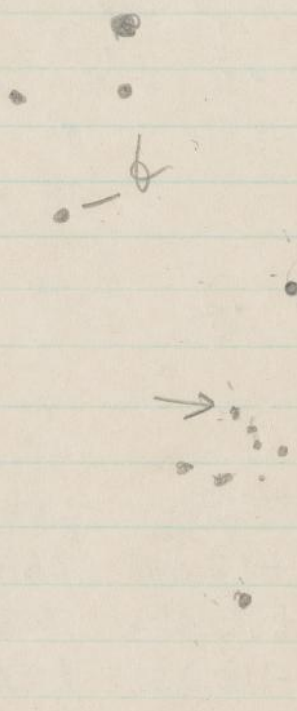
24 Confirmed

Not CDM
NB838

MW Region 18 24 -23 Variable No. 4.
Found April 30, 1926
Position meas. on MF Plates, Bk. 37, page 85
a 9376
July 12, 1926.

Magn.
a 7340 12.5
2 or 3 plates [15.5
not showing var
Orionthy:
-24 6410 9.5
18 37 15.8 -24 18.2

-24 6411 8.8
18 37 15.8 -24 16.1



B17708

				x-Var.	y-Var.	x×4	sec δ	
a	-24	6503	8.8	+7.70	−11.18	30.80	1.102	33.94160
b	-24	6513	9.5	+8.02	+13.80	32.08	1.098	35.22384
c	-24	6514	10.1	+9.98	−15.20	39.92	1.102	43.99184

a	18	36	22.8	-24	49.3			
			33.9		11.2			
	18	36	56.7	-24	38.1			
b	18	37	32.8	-24	24.8			
			35.2		13.8			
	18	36	57.6	-24	38.6			
c	18	37	41.3	-24	53.6			
			44.0		15.2			
	18	36	57.3	-24	38.4			

2c Prec.

18	36	56.7	-24	38.1	-0.5	+0.3		
		57.6		38.6	+0.4	-0.2		
		57.3		38.4	+0.1	0.0		
			6		11			
18	36	57.2	-24	38.4			Mean Pos. 1875	
	1	31.9		1.3				
18	38	291	-24	37.1			(1900)	

	1 yr.	25 yr.
α	3.6773	91.9325
δ	3.2196	80.4900 = 1°20'49

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1926phae.proj.121rw

See Bk 37 / page 91

Variable No. 10

Found June 08, 1926
on M F Plates, Bk. 37, p. 91.

No. a plate

Orintly
-20 7051 9.8
18 24 36.2 -20 2.3

-20 7052 9.4
18 24 36.4 -20 45.3

-20 7041 10.0
-20 7043 10.0
-20 7048 9.6
a 18 22 44.2 -20 1.0

b 18 23 0.9 -20 11.7

c 18 23 37.0 -20 1.9

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1926phae.proj.121rw

26 confirmed

NB 838

Region 18 24 -23. Variable No. 11

Found on June 28, 1926

" " MF Plates, Bk. 37, page 92

Position meas.
a 9566
July 13, 1926

Magns:
a 9566 13.0
9759 15.5

b slightly follows Var.

Note of Protar

Orient by:
-21° 7027 10.2
18 36 46.6 -21 5.3

-21 7028 10.2
18 36 46.6 -21 54.9

B 13539

	CPD	magn	x glass ut Var.	y Var.	x x 4	sec δ	
a	-21° 7006	9.6 +8.3	+ 17.28	+15.65	69.12	1.075	74.30400
b	-21 7020	10.2	- 0.27	+10.92	1.08	1.076	1.16208
c	-21 70~~28~~26	10.~~8~~4	- ~~+3.25~~ 14.00	- ~~6.32~~ 8.92	53.00 ~~66.00~~	~~1.078~~ 1.078	57.13400 ~~60.36800~~

a 18 34 38.6 -21 32.3

	1 14.3		15.6
18	35 52.9	-21	47.9

b 18 35 53.6 -21 37.3

	1.2		10.9
18	35 52.4	-21	48.2

c 18 36 ~~51.9~~ ~~46.6~~ -21 ~~57.4~~ ~~54.9~~

	~~6.4~~ 57.1		~~3.9~~ 6.3
18	35 ~~49.5~~ 51.5	-21	~~48.6~~ 48.5

18	35 52.9	-21	47.9	-0.6 +0.3
	52.4		48.2	-0.1 06
	51.5		48.5	+0.8 -0.3
18	35 52.8	-21	48.2	(1875)
	1 30.0		1.3	
18	37 22.3	-21	46.9	(1900)

2c Prec. 1yr. 25yr.
α 3.6604 90.0100
δ 3.1261 78.1525 = 1' 18".15+

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1926phae.proj.1217w

Star changed. Position does not seem accurate.
Check:

-21 7028 mean as Var. from -21 7031

-21 7031 − 7028 x = − 0.77 x 4 = 3.08 x 1.078 = 3.320
7031 18 36 51.9 -21 57.4 δ = 2.78
3.3 2.8
-21 7028 18 36 48.6 -21 54.6
Cat for -18 36 46.6 -21 54.9

Would setting of plate be much affected?
Resids. are small -

New measures and reduction — record not kept.
By resetting (1875) 18 35 52.1 -21 48.3

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1926phae.proj.121rw

28 Confirmed

N13838

M/W Region 18 24 -23 Variable No. 12

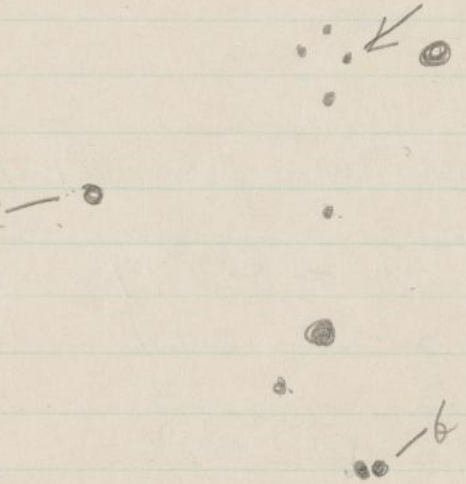
Found June 28, 1926

on MF Plates, Bk. 37, pag 93

Pos

α 7340

July 13, 1926



b precedes Var.

a slightly N of Var

Magnus

α 7340 13.8

9759 [16.5

Greenbay

-21 6983 9.8

18 31 46.6 -21 52.7

-22 7116 9.4

18 31 46.6 -22 28.0

B13539		x-Var.	y-Var.	x×4	secδ	
a	-22 7142 8.7	+2.42	+0.20	9.68	1.079	10.44472
b	-22 7146 10.4	+0.38	-14.45	1.52	1.081	1.64312
c	-22 7150 9.2	-10.00	-5.38	40.00	1.080	43.200

a 18 34 53.5 -22 6.9

	10.4	0.2			
	18 35 3.9	-22 7.1	18 35 3.9	-22 7.1	-0.2 -0.1
b	18 35 3.0	-22 21.4	4.6	7.0	+0.5 0.0
	1.6	14.4	3.8	6.8	-0.3 +0.2
	18 35 4.6	-22 7.0	3	29	
c	18 35 47.0	-22 15.2	18 35 4.1	-22 7.0	
	43.2	5.4	1 30.4	1.3	
	18 35 3.8	-22 6.8	18 36 34.2	-22 5.7	

Mean Pos 1875 (1900)

1 yr 25 yrs

α 3.6029 90.0725 90.16 3.6093 90.2325

δ 3.0566 76.4150 = 1 16.4

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1926phae.proj.121w

Confirmed

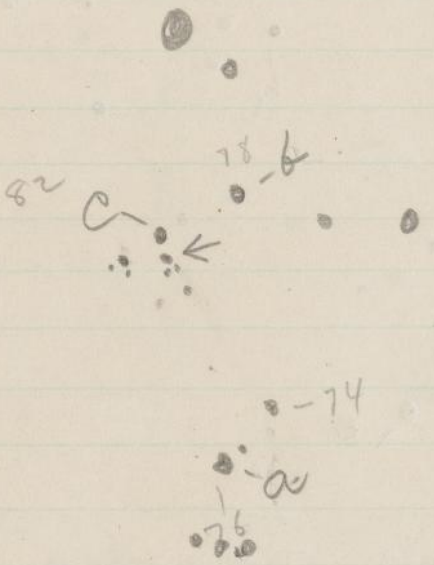
HB 838

Variable No. 13

Res. meas
a 7340
July 15, 1926

Found June 28, 1926
on MF Plates, Bks. 37, page 94

A very ft star
on this plate
but Miss Cannon
checks this
one elected as
Var. If it is
ever proved that
the ft. star appears
when Var. is also
present, the position
will not differ
appreciably.



Count by:
-22 7065 8.8
18 26 15.1 -22 21.4
-22 7066 10.2
18 26 15.1 -22 9.6

Magnus.
MF 9550 13.0
a 7340 15.0

		Magn.	x-Var.	y-Var.	xx4	Decd	
c.p.	B 1779			-5.80			
a	-22 7076	9.8	-3.40	~~3.72~~	13.60	1.082	14.71520
b	-22 7078	10.2	-2.70	+3.72	10.80	1.081	11.67480
c	-22 7082	10.4	+0.55	+0.82	2.20	1.081	2.37820

a 18 27 27.2 -22 27.3 (1875)

		14.7	5.8			
	18 27	41.9	-22 21.5	0.0	0.0	
b	18 27	30.4	-22 17.8			
		11.7	3.7			
	18 27	42.1	-22 21.5	+0.2	0.0	
c	18 27	44.2	-22 20.7			
		2.4	0.8			
	18 27	41.8	-22 21.5	-0.1	0.0	

58

18 27	41.9	-22	21.5	Mean Position 1875
1	30.5		1.0	
18 29	12.4	-22	20.5	(1900)

2C Prec. 1 yr. 25 yrs.
α 3.6181 90.4525
δ 2.4178 60.4450

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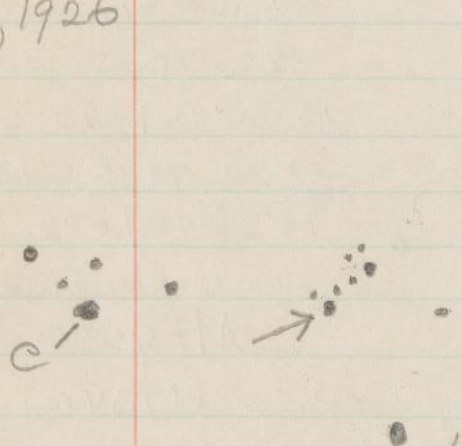
1926pae.proj.121rw

30 Confirmed

NB 838

MW Region 18 24 -23 Variable No. 21
Found on June 29
on MF plates, Bk. 38, page 152

Pos. meas
a 9759
July 13, 1926



Magns.
a 9759 12.5
MF 8766 [15.0
Omitted:
(Stars are close to
region of Var:)
-19 7037 10.0
18 36 25.7 -19 45.1

-19 7038 9.8
18 36 41.7 -19 45.1

B 13538	D	magn	x-Var.	y-Var.	x x 4	cos D	
a	-19 7050	9.8	+9.80	+8.60	39.20	1.063	41.66960
b	-19 7053	9.1	+1.78	-4.70	7.12	1.064	7.57568
c	-19 7057	9.2	-10.44	-0.92	41.76	1.064	44.43264

a 18 37 5.7 -19 46.3

41.7 8.6

18 37 47.4 -19 54.9

b 18 37 40.2 -19 59.5

7.6 4.7

18 37 47.8 -19 54.8

c 18 38 31.2 -19 55.5

44.4 0.9

18 37 46.8 -19 54.6

18 37	47.4	-19 54.9	+0.1	-0.1
	47.8	54.8	+0.5	0.0
	46.8	54.6	-0.5	+0.2
	10	23		
18 37	47.3	-19 54.8		
	1 28.7	1.4		
18 39	16.0	-19 53.4		

Mean Pos. 1875

(1900)

ZC Rec:

	1 yr.	25 yrs.
α	3.5499	88.7475
δ	3.2916	82.2900 = 1' 22".3

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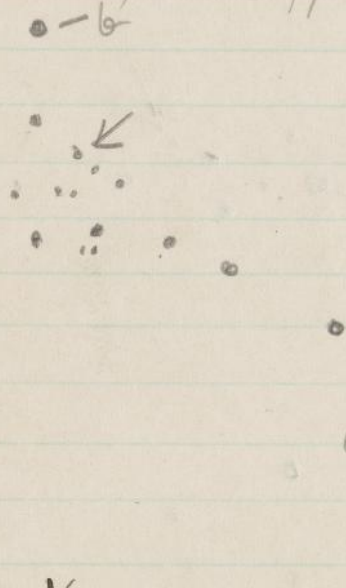
1926phae.proj.121rw

Conformed

NB 838

Variable No. 23

Pos meas. Found June 29, 1926
a 2736 In MF Plates, Blo. 38, page 154.
July 15, 1926



Orient by
-26 6557 9.4
18 40 6.0 -26 6.2
and a
Magna.
MF 8766 13.5
MF 9783 14.5
Is a 2736 fainter?

B17708	X-Var	y-Var.	x x 4		sec
a -26 6558	9.5 + 11.30	- 5.82	45.20	1.116	50.44320
b -26 6562	8.8 - 3.00	+ 6.27	12.00	1.114	13.36800
c -26 6564	9.0 - 6.00	-15.30	24.00	1.118	26.83200

a 18 40 6.0 -26 22.7

50.4	5.8
18 40 56.4	-26 16.9

b 18 41 9.5 -26 11.0

13.4	6.3
18 40 56.1	-26 17.3

c 18 41 22.0 -26 32.3

26.8	15.3
18 40 55.2	-26 17.0

18 40 56.4	-26 16.9	+0.5	+0.2
56.1	17.3	+0.2	-0.2
55.2	17.0	-0.7	+0.1
27	2		
18 40 55.9	-26 17.1	Mean Pos. 1875	
1 38.1	1.5		
18 42 34.0	-26 15.6	(1900)	

	1 yr.	25 yr.
α	3.7221	93.0525
δ	3.5626	89.0650 = 1' 29".1

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1926phae.proj.1217w

32 Confirmed

NB3838

MW Region 18 24 -23 Variable No. 25

Found June 30, 1926 Magns.

on B plates, Bk. 38, p. 156. 13.0

± [14.5

Cannot make direct

Orient by: est.

Mean Pos.
A 2757
July 13, 1926

-15 5024 9.0 Far from
18 27 20.2 -15 49.9

-15 5025 9.5 regnum
18 27 20.5 -15 7.9

N edge of plate.
a star in -14°
might be better
but is off region.

min. is on a poor plate

B 3 2014
perhaps [15.0

b very large image

Gould. (Washington) 1900

	B 21285	DM 1855							
a	-15 5029	18 28 21.4	-15 31.8	9 4	6843	18 30 56.64	-15 29 37.4		
b	-15 5030	18 28 51.1	-15 8.4	7.5	6849	18 31 25.73	-15 6 31.5		
c	-15 5032	18 29 7.1	-15 2.8	9.0	6851	18 31 41.18	-15 0 57.7		

	x-Var.	y-Var.		x x 4	sec δ	
a	+2.68	-5.68	= 25′ 40.8″	10.72	1.038	11.12736
b	-4.90	-2.55	2′ 33.0	19.60	1.036	20.30560
c	-8.86	+3.00 +.12	3 00.0 +12	35.44	1.035	36.68040

a 18 30 56.64 -15 29 37.4
11.13 25 40.8
18 31 7.77 -15 3 56.6

b 18 31 25.73 -15 6 31.5
20.31 2 33.0
18 31 5.42 -15 3 58.5

c 18 31 41.18 -15 0 57.7
36.68 3 00.0 +12
18 31 4.50 -15 4 49 +12
3 57.7

18 31 7.77 -15 3 56.6 +1.87 +1.0
5.42 3 58.5 -0.48 -0.9
4.50 3 57.7 -1.40 -0.1
17.69 228
18 31 5.90 -15 3 57.6

Mean Pos. 1900

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1926phae.proj.121rw

Continued

NB 838

Variable No. 28

Pos. meas. a 7340 July 15, 1926

Found June 30, 1926 on B plates, Bk. 38, page 159

Quarterly:

-21 6947 10.4
18 27 42.6 -21 27.0
-21 6948 10.4
18 27 42.6 -21 47.1
-21 6949 10.0
18 27 42.6 -21 52.5

a & c
Same δ

	Magn.
MT 8519	12.8
MT 9656	15.0

B 17708

C.P.D.	Magn	x-Var.	y-Var.	x x 4	Dec δ	
a -21° 6941	9.8	+10.20	+6.80	40.80	1.072	43.73760
b -21 6944	10.0	+ 5.38	-5.60	21.52	1.074	23.11248
c -21 6953	9.8	- 22.50	+6.60	90.00	1.072	96.48000

1875

a 18 25 54.4 -21 7.8
43.7 6.8
18 26 38.1 -21 14.6

b 18 26 15.9 -21 20.2
23.1 5.6
18 26 39.0 -21 14.6

c 18 28 15.5 -21 7.9
1 36.5 6.6
18 26 39.0 -21 14.5

18 26 38.1 -21 14.6 -0.6 0.0
39.0 14.6 +0.3 0.0
39.0 14.5 +0.3 +0.1
21
18 26 38.7 -21 14.6 Mean Pos. 1875.
1 29.7 1.0
18 28 8.4 -21 13.6 (1900)

ZC Prec.	1 yr.	25 yr.
α	3.5886	89.7150
δ	2.3263	58.1575

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1926phae.proj.121rw

34

Confirmed.

NB 838

MW Region 18 24 −23 Variable No. 17

Found June 28, 1926

" on MF Plates, Bk. 37, f. 98.

Pos. Mean

a 6124

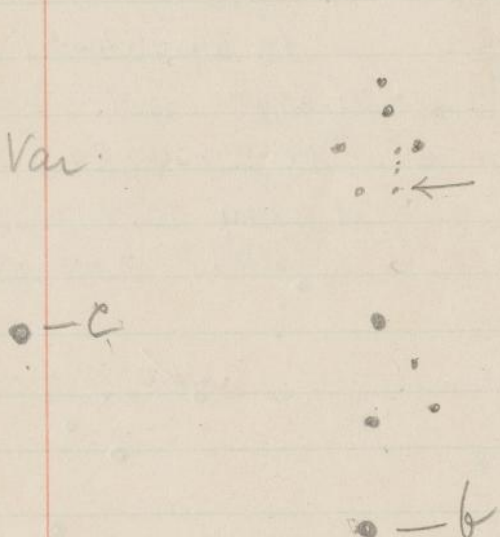
July 14, 1926

Magns.

MF 9793 14.0

IF 9550 [15.0

a 2736 [16.5



Orient by:

−27 6506 10.1

18 36 43.0 −27 41.7

−28 6658 9.6

18 36 43.0 −28 9.9

B 16826

					x-Var.	y-Var.	decd	~~xx4~~	xx4
a	−27°	6522	18 39	51.8 −27 40.7	9.6	+3.98	+4.98	1.129	~~1792~~ 1592
b	−28	6684			9.2	−0.72	−15.77	1.133	~~1308~~ 288
c	−27	6531	18 41	25.8 −27 51.8	9.2	−17.22	−6.44	1.131	6888

18 39 51.8 −27 40.7

	18.0	5.0				
18 40 9.8	−27 45.7		18 40 9.8	−27 45.7	+0.8	−0.2
18 40 12.6	−28 1.3			9.3	45.5	+0.3 0.0
	3.3	15.8		7.9	~~45.4~~	−1.1 +0.1
18 40 9.3	−27 45.5			0	1.6	
18 41 25.8	−27 51.8		18 40 9.0	−27 45.5		
1	17.9	6.4		1 34.1	1.5	
18 40 7.9	−27 45.4		18 41 43.1	−27 44.0		

a) 17.97368

b) 3.26304

c) 77.90328

~~Mean Pos. 1875~~

Mean Pos. 1875 ✓

(1900)

2c

Prec.	1 yr.	25 yrs.
α	3.7649	94.1225
δ	3.4953	87.3825 = 1′ 27.″4

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1926phae.proj.121rw

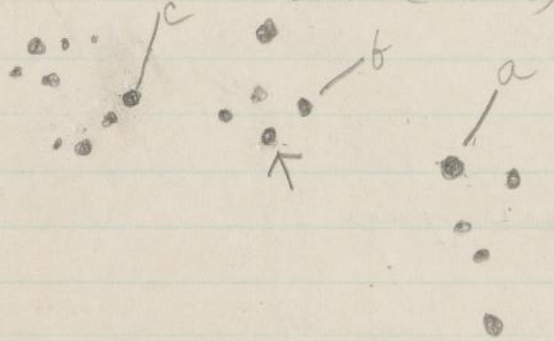
Confirmed

HB 838

Variable No. 1

Pos. meas.
a 9376
July 14, 1926

Found April 30, 1926
" on MF and (later) on B plates, Bk. 37, page 82



-23 7177 10.4
18 32 8.6 -23 59.1
-23 7178 9.6
18 32 8.5 -23 7.9

b is N of c
Var. follows b
Var. N of a

B 13539

	CPD	Mag.	x-Var.	y-Var.	x×4	red.	
a	-23 7179	9.8	+7.40	−0.65	29.60	1.087	32.17520
b	-22 7123	10.4	+1.00	+1.85	4.00	1.086	4.34400
c	-22 7128	9.8	+5.72	+1.25	22.88	1.086	24.84768

(1875)

18 32 13.8 -23 1.9

32.2 0.6

18 32 46.0 -23 1.3

b 18 32 42.8 -22 59.4

4.3 1.8

18 32 47.1 -23 1.2

c 18 33 10.8 -22 59.9

24.8 1.2

18 32 46.0 -23 1.1

	1 yr.	25 yrs.
Z.C. Prec.	3.6345	90.8625
δ	2.8580	71.4500

18 32 46.0	-23	1.3	-0.4	-0.1
47.1		1.2	+0.7	00
46.0		1.1	-0.4	+0.1
46.4		1.2		
1 30.9		1.2		
18 34 17.3	-23	0.0		

6

Mean Pos. 1875.

(1900)

Magns.

MF 8519 11.0
a 7340 [16.5

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1926phae.proj.121rw

See also Bb 38, p. 177

Magnitudes of Region 18 24 -23

Available

43Ks 18 12 -18 30 Bb 34, p. 121
48, p. 138

M 22 18 30 -24 see page 37

M 28 see page 39.

Nova Sag. 3 Bb 45, page 122
(only to Nov 20 13.6)

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1926phae.proj.12176w

Ref B sec d, e print in 38 & A 11979 – 12507 ?
about .4 or .5 diff in e?

Sequence as mkd on M 7 2818
and H.A. 38, plate IX

Corr. Magns mkd on M 7 9550

Seq. NGC 6656 M 22 18 30 – 24 BD. 45, p. 127

		Corr. 1922 Scale	Use
A	8.56	+0.11	8.67
B	9.19	0.16	9.35
C	9.26	0.17	9.43
D	9.70	0.19	9.89
E	10.17	0.22	10.39
F	10.66	0.23	10.89
G	10.89	0.23	11.12
a	11.04	0.24	11.28
b	11.02	0.24	11.26
c	11.88	0.24	12.12
d	12.40	0.24	12.64
e	12.75	0.25	13.00
f	13.13	0.26	13.39
g	13.36	0.26	13.62
h	13.66	0.26	13.92
k	13.89	0.25	14.14

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1926phae.proj.1217w

158K $18^h\ 22^m$ $-29^\circ\ 58'$ Bk. 34, f. 50

Nova Sag. No. 5, Magns. (1 meas. only) Bk 38, f. 88
7 E W Sheets

m			
n			
o	12.0	+024	12.24
p			
q	12.4	+0.24	12.64
r	12.6	+0.25	12.85
s			
t	13.00	+026	13.26

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1926phae.proj.1217w

Bb. 45, page 127
M28 = NGC 6626

Seq. as marked on MF 2818 and in H.A. 38, plate XI

Corr. 1922

A			
B			
C			
D	9.56	+0.18	9.74
E	10.61	+0.22	10.83
F	11.14	+0.24	11.38
G	11.44	+0.24	11.68
H	11.60	+0.24	11.84
a	12.49	+0.25	12.74
b	12.73	+0.25	12.98
c	13.22	+0.26	13.48
d	13.54	+0.26	13.80
e	13.94	+0.25	14.19
f	—		

Why not magns. below 14?

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1926phae.proj.121rw

18 12.0 -18 30

43 Ks

Sequence as mkd on B46652

Magn, Bk 48, p. 138

Clsd

1	6.51
2	7.38
3	8.83
4	9.29
5	9.99
6	10.65
7	10.97
8	11.45
9	12.08
10	12.40
11	12.82
12	13.53
13	..

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1926phae.proj..121W

$18^h\ 9.0 \quad -28^\circ\ 6'$

42 Ks

Sequence Mkd B44677
(partly on a2605)

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 Proved New

Cont.

HB855

MW Region 18 24 − 23 Variable No. 127

Position meas. Found July 28, 1926
a 8986 " on a plates, Bk. 40, p. 49
August 3, 1926



Orient by:
−26 6601 18 51 19.7 −26 21.4
8.3
−26 6602 9.8
18 51 19.7 −26 18.9
and −26 6606 10.1
18 52 7.2 −26 0.7
−26 6607 9.6
18 52 7.2 −26 3.0

Note of ft. sla

B 20359

CPD	Magn.	x-Var.	y-Var.	x×4	sec δ	
a −25 6643	9.5	+5.27	−1.70	21.08	1.111	23.41988
b −25 6644	9.6	+4.72	+2.80	18.88	1.111	20.97568
c −25 6648	9.8	−5.20	−0.27	20.80	1.111	23.10880

a 18 50 45.9 −25 51.2
23.4 1.7
18 51 9.3 −25 49.5

b 18 50 49.4 −25 46.9
21.0 2.8
18 51 10.4 −25 49.7

c 18 51 31.9 −25 50.3
23.1 0.3
18 51 8.8 −25 50.0

18 51 9.3 −25 49.5 −0.2 +0.2
10.4 49.7 0.9 00
8.8 50.0 −07 −0.3
28.5 2.2
18 51 9.5 −25 49.7 Mean Pos. 1875
1 32.6 1.8
18 52 42.1 −25 47.9 (1900)

	1 yr.	25 yr.
ZC Prec. α	3.7031	92.5775
δ	4.4394	110.9850
		1′ 51.0″ 50″.985

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1926phae.proj.1217W

1926phae.proj.1217w

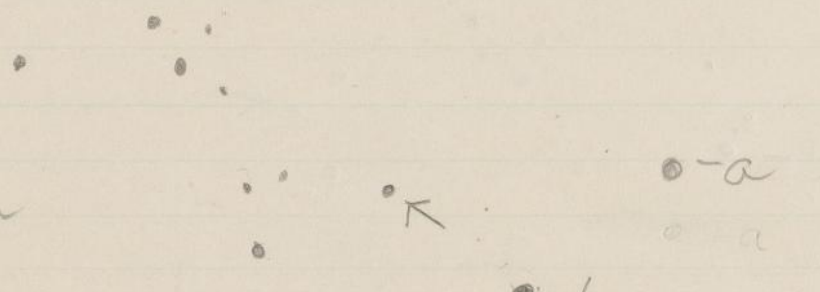
Pinned Ner

NB 855

MW Region 1824-23 Variable No. 142.

Pos. meas
a 6124
Aug. 9, 1926
n of
Glass of

Found July 30, 1926
" on B plates, Bk. 40, p. 64



a is N of Var
c is S " "

Orientky
-26 6565 9.4
18 42 14.5 -26 14.4
-26 6566 9.1
+8 42 15.0 -26 5.5

B 20859 EDD 59	Mayn.	x-Var.	y-Var.	x x 4	sec δ	
a -26 6584	9.6	+ 10.45	+0.62	41.80	1.117	46.69060
b -26 6585	8.6	+ 6.00	-3.12	24.00	1.118	26.83200
c -26 6588	9.6	- 20.27	-0.78	81.08	1.117	90.56636

a 18 44 52.5 -26 28.4

	46.7	0.6
18	45 39.2	-26 29.0

b 18 45 12.0 -26 32.2

	26.8	3.1
18	45 38.8	-26 29.1

c 18 47 8.7 -26 30.0

1	30.6	0.8
18	45 38.1	-26 29.2

firm a	18 45	39.2	-26 29.0	+0.5 +0
b		38.8	29.1	+0.1 00
c		38.1	29.2	-0.6 -0.1
		21	3	
	18 45	38.7	-26 29.1	
		1 33.1	1.7	
	18 47	1 1.8	-26 27.4	

Mean Pos. 1875

(1900)

		1 yr.	25 yr.
ZC Proc.	α	3.7252	93.1300
	δ	3.9677	99.1925
			1 39.2

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1926phae.proj.1217w

Pivoted ~~Position measured, Bk. 39, p. 45~~ HB3855

Region 18 24 -23 Variable No. 149

Found August 3, 1926

" on B plates, Bk. 40, page 71

Meas. Pos
a 6124
Aug. 9, 1926.



Orient by
-29 5759 sec c
-29 5760 10.3
18 42.1 -29 23.8

B20359
CPD

	Magn	x-Var	y-Var	xx4	sec δ	
a	-29 5745	9.6	+ 8.38	-0.97	37.52	1.145	42.96040
b	-29 5749	8.8	+ 0.48	-18.42	1.92	1.14(852)	2.20608
c	-29 5759	10.0	- 11.24	-2.30	44.96	1.145(418)	51.47920

a 18 43 5.3 -29 10.2

	43.0	1.0
18	43 48.3	-29 9.2
b 18	43 46.6	-29 27.6
	1.2	18.4
18	43 47.4	-29 9.2
c 18	44 42.1	-29 11.1
	51.5	2.3
18	43 50.6	-29 8.8

from a	18 43	48.3	-29 9.2	-0.9	-0.1
b		48.8	9.2	-0.4	-0.1
c		50.6	8.8	+1.4	+0.3
		27.7	2		
	18 43	49.2	-29 9.1		Mean Pos. 1875.
		1' 35.1	1.6		
	18 45	24.3	-29 7.5		(1900)

α 38044 95.11
δ 3.8111 95.2775 =
1' 35.1/3

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1926phae.proj.1217w

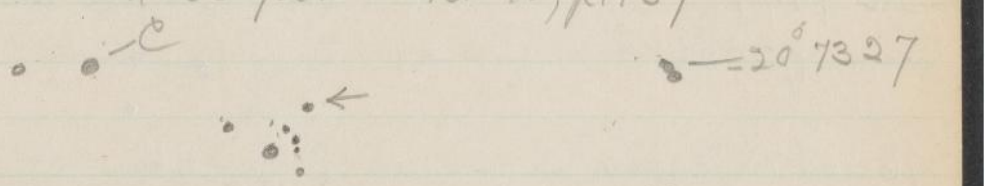
HB 855 Same star

Variable No 136 / 217

Proved

136 Found July 30 1926 on B plates Bk 40, f. 58

217 " Aug. 5 " a pl. Bk 40, f. 139



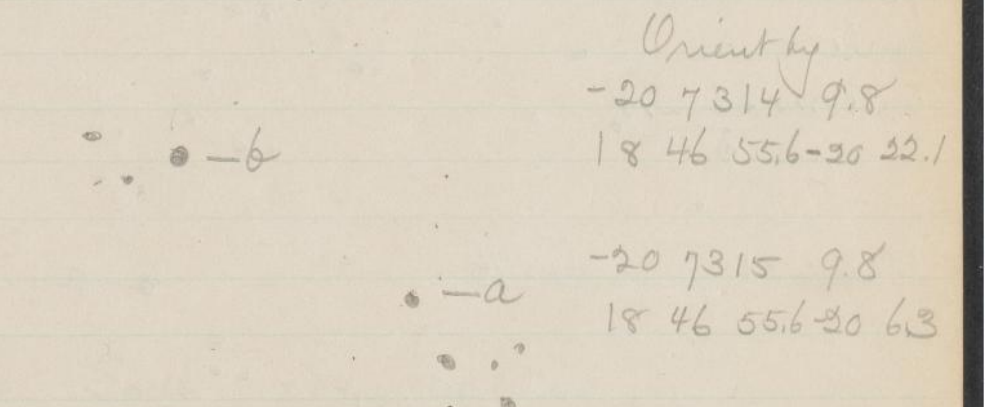
Pos. meas. on a 7494 Aug. 10, 1926

−20 7327 would naturally be used but it is a dbl star.

Var. is between a & b in α B 22613

Orient by
−20 7314 9.8
18 46 55.6 −20 22.1

−20 7315 9.8
18 46 55.6 −20 6.3



	CPD	Magn	x-Var.	y-Var.	x x 4	rec'd			
a	−20 7340	10.0	+ 3.37	−14.50	1348	1.070	14.42360		
b	−20 7342	9.7	− 3.52	− 9.80	1408	1.069	15.05152		
c	−20 7344	9.6	− 6.38	+ 1.28	2552	1.068	27.25536		
a	18 48	6.9	−20 48.7		fm a	18 48	21.3	−20 34.2	− 0.8 + 0.2
		14.4	14.5		b		22.2	34.4	00 0.0
	18 48	21.3	−20 34.2		c		23.1	34.5	+ 0.9 + 0.1
b	18 48	37.3	−20 44.2				66	11	Mean Pos.
		15.1	9.8			18 48	22.2	−20 34.4	1875 ✓
	18 48	22.2	−20 34.4				1 29.1	1.8	
c	18 48	50.4	−20 33.2			18 49	51.3	−20 32.6	(1900
		27.3	1.3						
	18 48	23.1	−20 34.5						

1 yr.	25 yr.
3.5628	89.07
4.2011	105.0275
1	45.0+

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1926phae.proj.121TW

Is this Kunne? Msd on a 7370 ✓

HB855

Regim 18 24 -23 Variable 76

Pos. meas. Found July 19, 1926
a 7494 " on B plates, Bk. 38, page 210
Aug. 9, 1926

76 set on cross
rule —
231 read from 76.

Var 231 precedes 76

Quickly
-23 7246 8.7
18 39 13.3 -23 13.8
-23 7247 10.4
18 39 13.4 -23 38.4

plate is tilted a little

B20359

	COD	Magn	x-Var.	y-Var.	x x 4	sec δ	
a -24	6518	10.0	+ 6.50	-12.12	2600	1.097	28.52200
b -23	7253	10.4	+ 3.27	+ 6.28	13.08	1.094	14.30952
c -24	6525	9.8	-18.30	- 6.54	73.20	1.096	80.22720
a	18 39	27.3	-24 16.9				
		28.5	12.1				
	18 39	55.8	-24 4.8				
b	18 39	41.8	-23 58.8				
		14.3	6.3				
	18 39	55.6	-24 5.1				
c	18 41	15.8	-24 11.4				
	1	20.2	6.5				
	18 39	55.6	-24 4.9				
		1 yr.					

final a	18 39	55.8	-24	4.8	+0.1	+0.1
b		39	55.6	5.1	-0.1	-0.2
c		39	55.6	4.9	-0.1	0.0
			20	28		
	18 39	55.7	-24	4.9		
		1	31.5	1.4		
	18 41	27.2	-24	3.5		

Mean Pos. (1875.)

(1900

ZC Prec. α 3.6607 91.5175
" δ 3.4762 86.9050 =
1' 26.9"

cDm -24 14707 9.5
18 39 55.3 -24 4.4

Miss Wolf's Gill

cf with 18 39 53.4 -24 27.1 8.0
18 41 1.9 -24 4.0 9.3

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1926phae.proj.1217w

Proved

NB 8855 47

Variable {231 238

See p. 46

231 Found Aug. 5 on a plates, Bk 40 p. 153

238 Found Aug. 9 on a plates, Bk. 40, p. 160

231 precedes 76 South xx4 sec δ 76

1.27 18.48 5.08 1.095 5.56260

Var. 76 = 18 39 55.7 -24 4.9 1875

5.6 18.5

" 231 18 39 50.1 -24 23.4 1875

for check,

a, nearest Cat stars,

3.48 5.88

1.73 0.45

Var follows a: y = 5.21 y = 6.33 Var sq a

xx4 = 20.84

sec δ = 1.0987

22.9108 6148

a 18 39 27.3 -24 16.9

22.9 6.3

231 18 39 502 -24 232

6

Var. 231 18 39 50.2 -24 23.3 Mean Pos. 1875

1 31.7 1.4 (1900

18 41 219 -24 219 (1900

2C Prec. x 3.6692 91.7300

δ 3.4683 86.7075 =

1' 26.7"

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1926phae.proj.121rw

NB 855

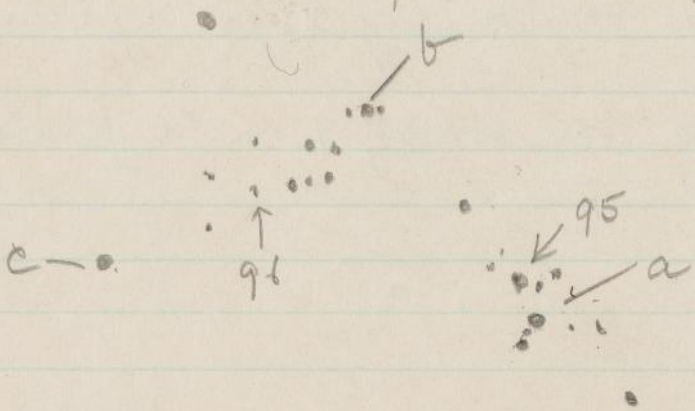
Revised Region 18 24 -23 Variable No. 95

Found July 22, 1926

Meas. Pos. " on a Plates, Bk. 40, p. 17.

α 9759

August 10, 1926



Orient by:

-19 7077 9.2

18 40 8.0 -19 35.1

-19 7078 9.6

18 40 8.0 -19 1.8

B21285

CPD

			x-Var.	y-Var.	x x 4	sec δ	
a -19°	7069	9.4	+0.72	−0.97	2.88	1.063	3.06144
b -19	7072	9.6	−4.58	+6.24	18.32	1.062	19.45584
c -19	7083	9.8	−13.02	+0.62	52.08	1.062	55.30896

a 18 39 21.5 -19 45.1

3.1 1.0

18 39 24.6 -19 44.1

+ 18 39 43.5 -19 38.1

19.5 6.2

18 39 24.0 -19 44.3

c 18 40 20.5 -19 43.4

55.3 0.6

18 39 25.2 -19 44.0

18 39 24.6 -19 44.1 0.0 0.0

24.0 44.3 -0.6 -0.2

25.2 44.0 +0.6 +0.1

18 39 24.8 -19 44.1 Mean Pos. (1875)

1 28.6 1.4

18 40 53.2 -19 42.7 (1900)

		1 yr.	25 yr.
ZC Pres.	α	3.5448	88.6200
	δ	3.4315	85.7875

25.8

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1926phae.proj.1217w

Not proced with present material

Variable No. 96

Found July 22, on a plates, Bk 40, p. 18

See page 48

a 9759
Aug 10

Var 96 from 95

96 follows 95
96 N of 95

− 7.98 + 3.32

× × 4 = 31.92

sec δ 1.0622 (41)

33.89904

~~95 (1900) 95~~ = 18 39 24.6 −19 44.1 (1875

33.9 3.3

96 = 18 39 58.5 −19 40.8 ✓

Check — & nearest Cat. star to 96

x	y	sec δ	× × 4	
3,30	+3.80	1.062	13.20	14.01840

~~95 = 18 39~~ 6 = 18 39 43.5 −19 38.1

14.0 3.8

96) from 6 18 39 57.5 −19 41.9 ✓ ~~Mean Pos. (1875)~~

from 95 18 39 58.5 −

?

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1926phae.proj.121.tw

50 Enough for?

HB 855

Regin 18 24-23 Variable No. 218

Meas. Pos. Found August 5, 1926

a 7494 " on a plates, Bk. 40, f. 140

August 11, 1926

Magns.

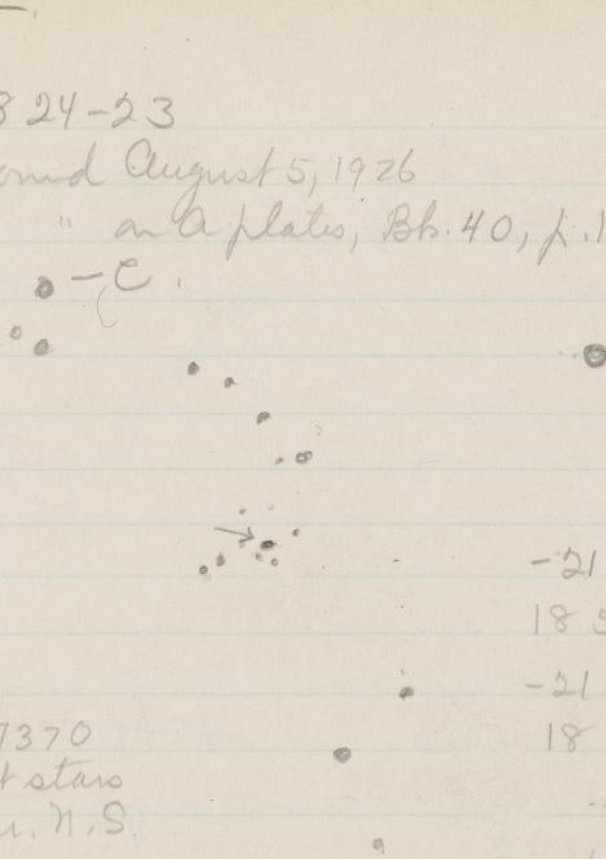
a 7370 [17.0

Note ft. stars close

Limit of 7370 about 17.0:

a 7370 ∴ ft stars Var. N.S.

a — very large image.



Orient by:
-21 7154 9.0
18 52 22.8 -21 55.4
-21 7155 10.4
18 52 22.8 -21 2.2

B 22613

CPD	Magn.	x-Var.	y-Var.	xx4	sec δ	
a -21° 7143	8.4	+13.20	+1.50	52.80	1.073	56.65440
b -21 7147	8.8	+ 4.57	-24.57	18.28	1.077	19.68756
c -21 7148	9.8	- 6.28	+6.42	25.12	1.073	26.95376
a 18 50 9.3	-21 18.7	from a		18 51 6.0	-21 20.2	+0.4 0.0
56.7	1.5	" b		51 5.0	-21 20.1	-0.6 +0.1
18 51 6.0	-21 20.2	" c		58	-21 20.4	+0.2 -0.2
b 18 50 45.3	-21 44.7			18	7	
19.7	24.6			18 51 5.6	-21 20.2	Mean Pos. (1875)
18 51 5.0	-21 20.1			1 29.5	1.8	
c 18 51 32.8	-21 14.0			18 52 35.1	-21 18.4	(1900)
27.0	6.4					
18 51 5.8	-21 20.4					

17y. 25y.

ZC Pos. α 3.5816 89.5400

δ 4.4339 110.8475 =

1 50.8

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1926phae.proj.121TW

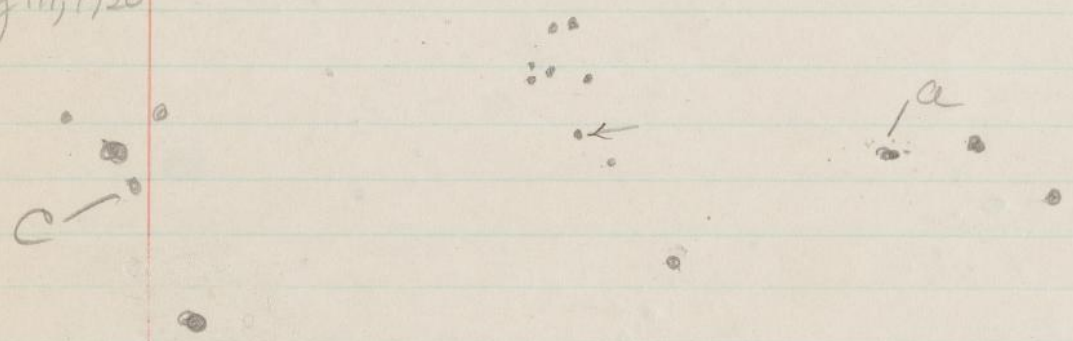
Enough proof?

HB 855

Variable No 221

Pos. on a 7494 Aug. 11, 1926

Found August 5, 1926
" on a plates, Bk. 40, p. 143



Orient same as page 50

c is So of a
Var is Nf a.
b slightly follows
Var

B 22613 7299 7291c

	CPD	Magn	x-Var	y-Var	xx4	sec δ	
a	-21 7146	9.5	+ 9.28	−0.42	37.12	1.078	40.01536
b	-22 7293	9.6	− 0.37	− 14.18	1.48	1.079	1.59840
c	-21 7153	9.8	− 16.70	−1.82	66.80	1.078	72.01040
a	18 50	30.3	-21 54.6		frma 18 51	10.3	-21 54.2 +0.2 −0.1
		40.0	0.4		b	10.1	54.0 0.0 +0.1
	18 51	10.3	-21 54.2		c	9.8	54.2 −0.3 −0.1
b	18 51	11.7	-22 8.2			2	4
		1.6	14.2		18 51	10.1	-21 54.1
	18 51	10.1	-22 54.0			1 29.9	1.9
c	18 52	21.8	-21 56.0		18 52	40.0	-21 52.2
	1	12.0	1.8				
	18 51	9.8	-21 54.2				

Mean Pos (1875)

(1900)

		1 yr.	25 yr.
2C. Pre.	α	3.5965	89.9125
	δ	4.4402	111.0050 =

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1926phae.proj.121.tw

52

Pinned

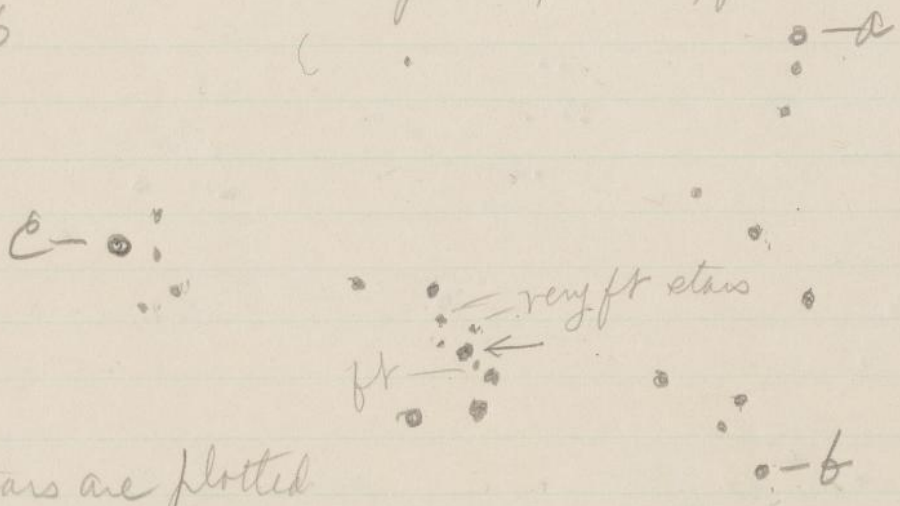
HB855

Regin 18 24 -23 Variable No. 219

Pos. Meas. Found August 5, 1926

A 2842 " on A plates, Bk. 40, p. 141

August 12, 1926



Ft stars are plotted
too heavily for comparison
with others but need to be
included to determine Variable
among so many close and very clear ft stars on A 7494
which is excellent plate. Var is ft on 7494,
but is apparently the star as marked

B 22613

	CPD	Magn.	x-Var	y-Var	xx4	secδ	
a	-21 7159	10.0	+13.20	+11.13	52.80	1.073	56.65440
b	-21 7160	10.0	+11.75	-4.03	47.00	1.075	50.52500
c	-21 7169	9.4	-11.02	+3.00	44.08	1.074	47.34192

a	18 53	6.2	-21	18.9	from a	18 54	2.9	-21 30.0 -0.6 0.0
		56.7		11.1	b		4.2	30.0 +0.7 0.0
	18	54 2.9	-21	30.0	c		3.4	29.9 -0.1 +0.1
b	18 53	13.7	-21	34.0			10.5	299
		50.5		4.0		18 54	3.5	-21 30.0
	18 54	4.2	-21	30.0			1 29.6	2.0
c	18 54	50.7	-21	26.9	2.C. Prec.	18 55	33.1	-21 28.0
		47.3		3.0				
	18 54/53	3.4	-21	29.9				

Mean Pos. 1875 (1900)

	1 yr.	25 yr.
α	3.5844	89.6100
δ	4.1866	117.1650 = 1 57.2

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1926phae.proj.121rw

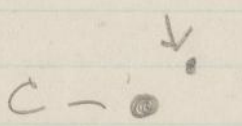
If New: Punched — Already Mkd but can't be traced

HB 855

Variable No. 216

Pos Meas
A 9566
Aug. 12.

Found August 5, 1926
" on A plates, Bk. 40, p. 138



Cat stars are unusually close

Unit by:
−21 7032 = b
−21 7033 9.6
18 36 52.6 −21 45.1

B21285

CPD	Magn	x-Var.	y-Var.	x×4 sec δ		
a −21 7027	10.2	+4.12	−0.68	16.48	1.072	17.66656
b −21 7032	9.1	+2.97	+0.26	11.88	1.072	12.73536
c −21 7035	8.4	−1.45	−1.18	5.80	1.072	6.21760

a 18 36 46.6 −21 5.3

		17.7	0.7					
18	37	4.9	−21	4.6				
b 18	36	52.6	−21	4.4				
		12.7	0.3					
18	37	5.3	−21	4.7				
c 18	37	11.6	−21	5.7				
		6.2	1.2					
18	37	5.4	−21	4.5				

from a	18	37	4.3	−21	4.6	−0.7 −0.7 0.0
b			5.3		4.7	+0.3 −0.1
c			5.4		4.5	+0.4 +0.1
	1		0		18	Mean Pos.
	18	37	5.0	−21	4.6	(1875)
		1	29.5		+1.3	
	18	38	34.5	−21	3.3	(1900)

1 yr. 25 yr.

2C Pres. α 3.5807 89.5175
δ 3.2308 80.77 = 1 20.77

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1926phae.proj.121:W

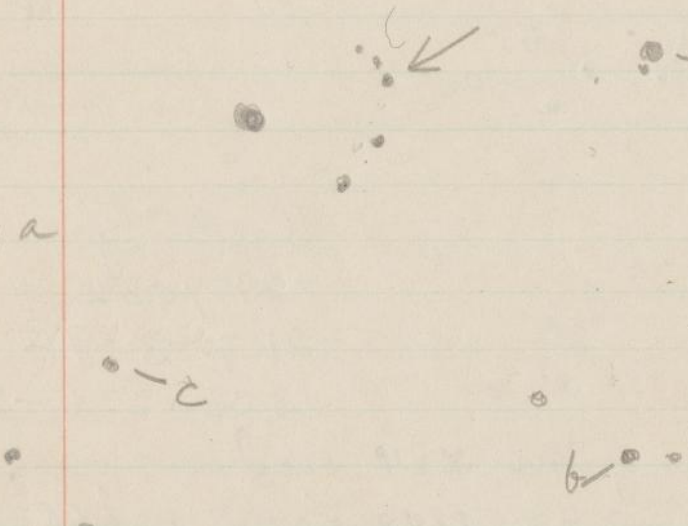
HB 854

Region 18 24 -23 Variable No. 104

Found July 24, 1926

on A plates, Bk. 40, page 26

Q 1837 Aug. 13,



b follows a

Orient by:

-23 7202 9.8
18 35 0.8 -25 14.1
-23 7203 9.6
18 35 0.8 -25 17.9

B22613

CPD	Magn	x-Var.	y-Var.	x x 4	sec δ	
a -22	7144 8.7	+ 6.96	+ 1.8	27.84	1.082	30.12288
b	7145 10.4	+ 6.40	- 12.5	25.60	1.084	27.75040
c	7152 9.6	- 9.18	- 11.4	36.72	1.084	39.80448

a +8 34 57.0 -22 27.5

30.1 1.8

18 35 27.1 -22 29.3

b 18 35 1.0 -22 41.9

27.8 12.5

18 35 28.8 -22 29.4

c 18 36 7.0 -22 40.6

39.8 11.4

18 35 27.2 -22 29.2

		1 yr.	25 yr.
2 Prec.	α	3.6486	90.4650
	δ	3.0907	77.2675
			17.3

firm a	18 35	27.1	-22 29.3	-06	00
b		28.8	29.4	+1.1	-0.1
c		27.2	29.2	-05	+0.1
		21	9		
	18 35	27.7	-22 29.3		Mean Pos. 1875
		1 30.5-	1.3		
	18 36	58.2	-22 28.0		(1900

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1926phae.proj.121rw

✓

HB857

Note of faint stars close, see best a plate

Variable 226

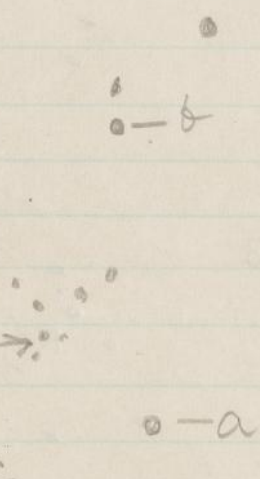
Found August 5, 1926 on a plates, Bk. 40, p. 148

A7370 distorted images, over edge 7370 — use near edge to get orientation stars. Use a 2727 10m Eff.

Aug. 13

Print by:

-23 7391 9.3
19 4 38.0 -23 6.5
-23 7392 10.4
19 4 38.0 -23 53.8
-23 7393 9.6
19 4 38.5 -23 2.0



B13539

CPD	Magn.	x-Var.	y-Var.	4xx	secd	
a -23 7377	9.3	+3.28	-2.94	13.12	1.092	14.32704
b -23 7379	10.4	+2.32	+10.2	9.28	1.090	10.11520
c -23 7380	9.6	-1.98	-4.1	7.92	1.092	8.64864

a	19 1 21.0	-23 39.4			
	14.3	2.9			
	19 1 35.3	-23 36.5			
b	19 1 25.5	-23 26.1			
	10.1	10.2			
	19 1 35.6	-23 36.3			
c	19 1 43.5	-23 40.7			
	8.6	4.1			
	19 1 34.9	-23 36.6			

Firma a	19 1 35.3	-23 36.5	0.0	0.0	
b	35.6	36.3	+0.3	+0.2	
c	34.9	36.6	-0.4	-0.1	
	8	14			
	19 1 35.3	-23 36.5			Mean Pos. 1875
	1 30.9	2.2			
	19 3 6.2	-23 34.3			(1900

not CPM

	1 yr.	25 yr.
ZC. Prec. α	3.6347	90.8675
δ	5.3246	133.1150

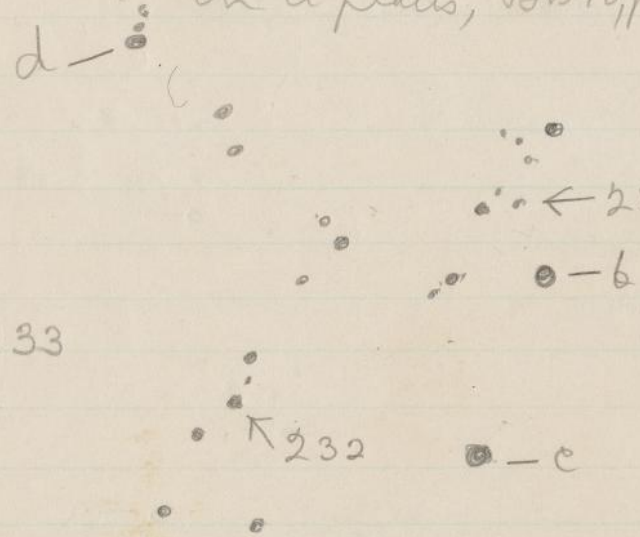
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1926phae.proj.121.tw

V

Regim 18 24 −23 Variable 232 HB857

Meas. Pos. Fund August 5, 1926
A 2842 " ad a plates, Bb 40, p 154
August 14, 1926



Orient by:
−23 7345 9.5
18 53 42.6 −23 4.5
−23 7346 10.4
18 53 42.8 −23 37.3

b precedes 233
c S of 232

B 2261.3

			X-Var	Y-Var	x x 4	sec δ	
a	−23	7353 9.8					
b	−23	7355 9.6	+ 9.06	+ 4.4	36.24	1.094	39.64656
c	−23	7357 9.7	+ 7.04	− 1.6	28.16	1.094	30.80704
d	−23	7359 10.4	− 2.05	+ 13.8	8.20	1.092	8.95440

Var 232

~~a 18 55 2.6 −23 45.3~~
b 18 55 47.1 −23 52.0
39.6 4.4
18 56 26.7 −23 56.4

c 18 55 55.5 −23 57.9
30.8 1.6
18 56 26.3 −23 56.3

d 18 56 35.1 −23 40.5
9.0 13.8
18 56 26.1 −23 56.3

frm b	18 56	26.7	−23 56.4	+0.3	−0.1
c		26.3	56.3	+0.1	0.0
d		26.1	56.3	+0.3	0.0
		11			
	18 56	26.4	−23 56.3		
		1 31.2	2.0		
	18 57	57.6	−23 54.3		

Mean Pos. 1875

(1900

	1 yr	25 yr.
Z.C. Rec. α	3.6479	91.1975
δ	4.8889	122.2225

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1926phae.proj.121rw

HB 855

Variable 233

Found August 5, 1926
" on A plates, Bb, 40, p. 155.

A 2842
Aug. 14, 1926

See page 56

readings of orientation
same ~~stars~~ but different stars
reset for Var 233

~~B2~~

	x-Var	y-Var	x x 4	sec δ	1.093500
a	+10.62	+4.5	42.48	1.093	46.43064
b	+0.42	−2.2	1.68	1.093	1.83624 ✓
d	−10.60	+7.2	42.40	1.092	47.39280 ✓

Var 233

a 18 55 2.6 −23 45.3

46.4 + 4.5

18 55 49.0 −23 49.8

b 18 55 47.1 −23 52.0

1.8 ✓ −2.2

18 55 48.9 −23 49.8

d 18 56 35.1 −23 42.5

46.3
47.4 7.2

18 ~~56~~ 47.7 −23 49.7

48.8 ✓

from a 18 55 49.0 −23 49.8 +0.5 0.0

b 48.9 49.8 +0.4 0.0

d 47.7 49.7 −0.8 +0.1

18 55 48.5 −23 49.8 Mean Pos. 1875

1 31.1 2.0

18 57 20.0 −23 47.8 (1900

2C Prec. 1 yr. 25 yr.

α 3.6454 91.1350

δ 4.8358 120.8950

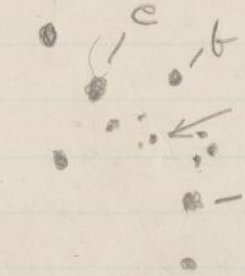
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1926phae.proj.1217w

V

~~H~~B855

Pos. meas. Regin 18 24-23 Variable 229
a 2842 Found August 5, 1926,
August 16, 1926. " on a plates, Bb. 40, p. 144



Noting faint stars close

Printed
-23 7284 9.8
18 46 13.8 -23 11.1
-23 7285 9.8 =
Star a

B 22613

CPD	Magn.	x-Var.	y-Var.	x-4	sec δ	
a -23 7285	9.8	+2.04	-2.2	8.16	1.088	8.87808
b -23 7287	9.8	+0.80	+2.6	3.20	1.087	3.47840
c -23 7288	9.4	-1.88	+2.0	7.52	1.087	8.17424

a 18 46 13.8 -23 9.1

	8.9		2.2
18	46	22.7 -23	6.9
b 18	46	20.8 -23	4.6
	3.5		2.6
18	46	24.3 -23	7.2
c 18	46	32.8 -23	5.2
	8.2		2.0
18	46	24.6 -23	7.2

from a 18 46 22.7 -23 6.9 -1.2 +0.2
b 24.3 -23 7.2 +0.4 -0.1
c 24.6 -23 7.2 +0.7 -0.1

	116		3	
18	46 23.9	-23	7.1	Mean Pos 1875
	1 30.8		1.7	
18	47 54.7	-23	5.4	(1900)

		1 yr.	25 yr.
2C Rec.	α	3.6313	90.7825
	δ	4.0323	100.8075 =
			1 40.8

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1926phae.proj.121rw

Variable No 223

a 7370 Found August 5, 1926
Aug. 16 on a plate, Bk. 40, f 145

Orient by:
-22 7194 9.6
18 41 57.3 -22 22.3
-22 7195 10.4
18 42 10.3 -22 22.3
-22 7196 9.8
18 42 10.3 -22 28.3

a is north of c

B 13539

CD	Magn	x-Var.	y-Var.	xx4	sec δ	
a -22° 7190	9.8	+4.27	+4.4	17.08	1.085	18.53180 (1.08654)
b -23 7260	10.4	+3.92	-7.8	15.68	1.087	17.04416
c -22 7198	9.8	-8.00	+2.9	32.00	1.085	34.72000

a 18 41 25.8 -22 48.7

	18.5	4.4
18 41	44.3	-22 53.1
b 18 41	29.8	-23 1.1
	17.0	7.8
18 41	46.8	-22 53.3
c 18 42	21.8	-22 50.1
	34.7	2.9
18 41	47.1	-22 53.0

fm a	18 41	44.3	-22 53.1	-1.8s 0.0'
b		46.8	53.3	+0.7 -0.2
c		47.1	53.0	+1.0 +0.1
		182	4	
	18 41	46.1	-22 53.1	
		1 30.6	1.5 zc	
	18 43	16.7	-22 51.6	

6 CP

Mean Pos. 1875

(1900

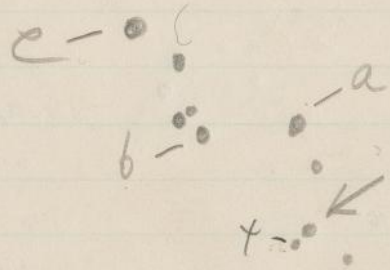
		1 yr.	25 yr.
ZC Proc.	α	3.6273	90.6828
	δ	3.6341	90.8650

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1926phae.proj.121.nw

HB 855

Positions. Region 18 24 -33 Variable No. 97
A 9759 Found July 22, 1926
August 17, 1926 " on A plates, Bk. 40, f. 19



Var precedes a
& South of a

Oriently
-20 7205 8.6
18 42 22.6 -20 9.0

-20 7206 9.6
18 42 22.6 -20 24.1

These stars are all north of Var. but ~~those that~~ are preferred to those that are further away.

fb. star slightly fol., 0.1 S

B 21285
CPD

	Mag	x-Var	y-Var	x x 4	sec δ	
a -20 7198	10.4	-0.32	+2.2	1.28	1.065	1.36320
b -20 7203	10.0	-2.58	+1.9	10.32	1.065	10.99080
C -20 7205	8.6	-4.56	+4.0	18.24	1.065	19.42560
a 18 42	5.6	-20 10.9				
	1.4	2.2				
18 42	4.2	-20 13.1				
b 18 42	15.6	-20 11.1				
	11.0	1.9				
18 42	4.6	-20 13.0				
c 18 42	22.6	-20 9.0				
	19.4	4.0				
18 42	3.2	-20 13.0				

From a	18 42	4.2	-20 13.1	+0.2 -0.1
b		4.6	13.0	+0 6 00
c		3.2	13.0	-0.8 00
		0	1	
	18 42	4.0	-20 13.0	Mean Pos. 1875.
		1' 28.9	1.5	
	18 43	32.9	-20 11.5	(1900

	x	y	x x 4	sec Var	
x =	0.06 .10	0.1	0.24 0.40	1.065	0 ~~.2556~~ .4266

1y. 25y.

Z.C. Bre.	α	3.5564	88.91
	δ	3.6601	91.5025

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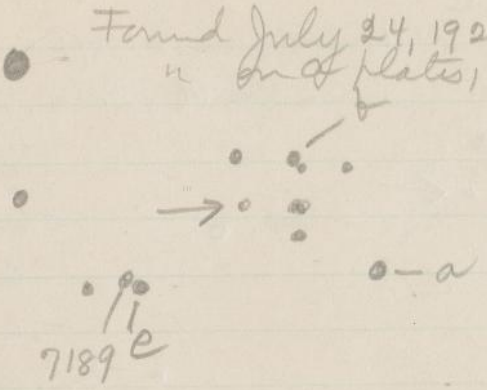
1926phae.proj..127W

H13855

Variable Nr. 98

aq7159
August 17, 1926

Found July 24, 1926
on 4 plates, Bkz. 40, 1.20



Orient by:
-20 7198 10.4
18 42 5.6 -20 10.9

-20 7199 9.6
18 42 5.6 -20 34.7

-20 7188
7189
B21285

CPD	Magn	x-Var.	y-Var.	xx4	sec. δ	
a -20 7183	8.7	+3.15	−2.2	12.60	1.068	13.45680
b -20 7184	9.6	+1.00	+1.3	4.00	1.067	4.268
c -20 7188	9.4	−3.60	−2.9	14.40	1.068	15.37920

a 18 39 40.1 -20 31.6
13.5 2.2
18 39 53.6 -20 29.4

b 18 39 49.1 -20 28.0
4.3 1.3
18 39 53.4 -20 29.3

c 18 40 8.6 -20 32.1
15.4 2.9
18 39 53.2 -20 29.2

final a 18 39 53.6 -20 29.4 +0.2 -0.1
b 53.4 29.3 0.0 0.0
c 53.2 29.2 -0.2 +0.1
12 9
18 39 53.4 -20 29.3
1 29.1 1.4
18 41 22.5 -20 27.9

Mean Pos 1875

(1900

2c Prec. α 3.5624 89.06
δ 3.4729 86.8225 =
1 26.8

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1926phae.proj.121rw

√

HB 854

Variable No. 99

Found July 24, 1926

" on Heidelberg plates, Bb. 40, p. 21

Orient by:

−20 7124 86

18 33 26.5 −20 36.4

−20 7125 9.8

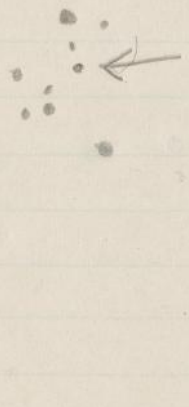
18 33 26.7 −20 2.0

Pos. Meas.

A 9566

Aug. 17, 1926

Regim 18 24 −23 c



b slightly follows a

B 21285

CPD	Magn	x-Var	y-Var	x×4	sec δ	
a −20 7113	9.0	+9.78	−4.3	39.12	1.070	41.85840
b −20 7114	9.6	+9.00	−12.0	36.00	1.071	38.55600
c −20 7122	9.0	−2.55	+7.0	10.20	1.069	10.90380

a 18 32 21.0 −20 51.1

41.9 4.3

18 33 2.9 −20 46.8

b 18 32 22.8 −20 58.9

38.6 12.0

18 33 1.4 −20 46.9

c 18 33 13.0 −20 40.0

10.9 7.0

18 33 2.1 −20 47.0

1 yr. 25 yr.

α 3.5744 89.36

δ 2.8806 72.0150 =

1 12.0

Final a	18	33	2.9	−20 46.8	+0.8 +0.1
b		33	1.4	46.9	−0.7 0.0
c		33	2.1	47.0	0.0 −0.1
			4	27	
	18	33	2.1	−20 46.9	
		1	29.4	1.2	
	18	34	31.5	−20 45.7	

Mean Pos. 1875 (1900

~~31.49~~

Printed 32

~~33 2.1~~

~~1 29.36~~

~~34 31.49~~

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1926phae.proj.121rw

Already mkd on A7370 "Vf"

HB 855

Variable No. 105,

A7370 Found July 24, 1926.
Aug. 18, 1926 " La Plata, Bk. 40 page 27.
Note of faint stars

Orient Liz:
-22 7194 9.6
18 41 57.3 -22 22.3
-22 7195 10.4
18 42 10.3 -22 22.3
-22 7196 9.8
18 42 10.3 -22 28.3

B 1877.2	Magn	x-Var.	y-Var.	x x 4	sec δ	
a -22 7187	9.1	+8.55	-14.8	34.20	1.083	37.03860
b -22 7188	9.1	+4.92	+4.8	19.68	1.080	21.25440
c -22 7191	10.2	-6.45	-12.7	25.80	1.082	27.91560

a 18 40 42.8 -22 32.5
37.0 14.8
18 41 19.8 -22 17.7
b 18 40 56.3 -22 12.9
21.3 4.8
18 41 17.6 -22 17.7
c 18 41 46.3 -22 29.9
27.9 12.7
18 41 18.4 -22 17.2

firm a	18 41 19.8	-22 17.7	+1.2	-0.2	
b	17.6	17.7	-1.0	-0.2	
c	18.4	17.2	-0.2	+0.3	
	258	16			
	18 41 18.6	-22 17.5	+ (.533)	Mean Pos. 1875	
	1 30.3	1.5			
	18 42 48.9	-22 16.0		(1900	

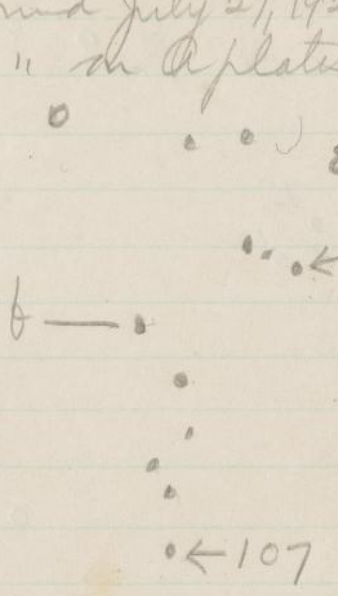
	1 yr.	25 yr.
α	3.6115	90.2875
δ	3.5951	89.8775 =
		1 29.9

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1926phae.proj.121TW

NB. 854

Meas. Pos. Region 18 24 -23 Variable No. 106
a 7340 Found July 27, 1926
Aug. 19, 1926 " on Aplates, Bk. 40, p. 28



Orient by
-23 7231 9.0
18 37 23.8 -23 45.8

c slightly
fellow b

-23 7232 9.4
18 37 23.8 -23 9.5

B 17708

CPD	Magn	x-Var	y-Var	x x 4	sec δ	
a -23 7218	9.0	+4.42	-4.8	17.68	1.091	19.28888
b -23 7229	10.2	-6.45	~~-10.4~~ 3.6 12.9	25.80	1.090	28.12200
c -23 7230	10.0	-6.52	~~-2.6~~	~~32~~ 26 08	1.092	~~35.03~~ 28.47.9 36

interchange b & c (δ)

a	18 36	34.3	-23 31.8	from a	18 36	53.6	-23 27.0	-0.1 -0.2
		19.3	4.8	b		53.7	26.7	0.0 +0.1
	18 36	53.6	-23 ~~35.6~~ 27.0	c		53.8	26.7	+0.1 +0.1
b	18 37	21.8	-23 30.3			21	24	
		28.1	~~12.9~~ 3.6		18 36	53.7	-23 26.8	Mean Pos. 1875 ✓
	18 36	53.7	-23 ~~17.4~~ 26.7			1 31.1	1.3	
c	18 37	22.3	-23 39.6		18 38	24.8	-23 25.5	(1900 ✓
		~~28.5~~ ~~35.0~~	3.6 12.9					
	18 36	53.8	-23 ~~39.6~~ 26.7					

1 yr.

Ze. Prec. α 3.6446 91.1150
δ 3.2145 80.3625 =
1 20.4

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1926phae.proj.121rw

~~Enough for~~ prof ℞ See Bk. 40 ✓

HB 855

Variable No. 107

α 7340 Found July 27, 1926
" on α plates, Bk. 40, p. 29.

See page 64

Var. 107 meas from
Var. 106 ×× 4 Red 106
1.090
follows 4.95 19.80 +~~1.250~~ 21.5820
South 10.7

Also, for check, from C
x-Var. y-Var.
-1.50 -2.18 (1.22 / 0.96)

106 = 18 36 53.7 -23 26.8 (1875)
21.6 10.7
107 = 18 37 15.3 -23 37.5 (1875)
1 31.235 1.4
18 38 46.5(+) -23 38.9 (1900)
Var 47s

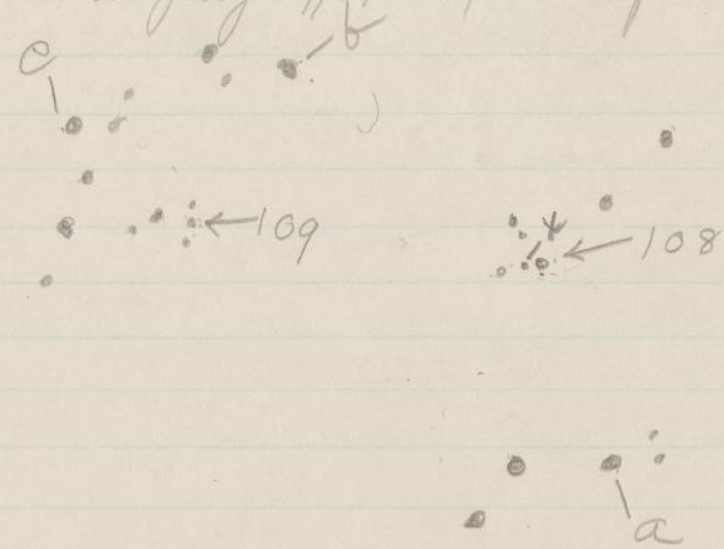
1 yr 25 yr
Prec. α 3.6494 91.2350
3.2456 81.14 = 1 21.14

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1926phae.proj.121rw

HB854

Pos. meas. Region 18 24 -23 Variable No. 108
a 1837 Found July 27, 1926., on a plates, Bk. 40, p. 30
August



Oriented:
-23 7156 10.4
18 29 46.5 -23

-23° 7157 8.4
18 29 46.5 -23

Var 109 a little
N of 108

B 17708
CPD Magn. x-Var. y-Var. x×4 rec'd

a	-24 6470	9.6	+4.18	−8.7	16.72	1.096	18.32512
b	-23 7168	10.0	−6.45	+5.8	25.80	1.094	28.22520
c	-23 7173	9.6	−13.40	+4.1	53.60	1.094	58.63840
a	18 30	7.7	-24	8.8			

		18.3		8.7
	18 30	26.0	-24	0.1
b	18 30	53.5	-23	54.7
		28.2		5.8
	18 30	25.3	-24	0.5
c	18 31	23.5	-23	56.2
		58.6		4.1
	18 30	24.9	-24	0.3

	1 yr	25 yr.
Z.C. Prec. α	3.6624	91.5600
δ	2.6543	66.3575

x near 108 follows 0.22 x×4 0.88 rec Var 1.094 s 0.963
S less than .1'

from

a	18 30	26.0	-24	0.1	+0.6	+0.2
b		25.3		0.5	-0.1	-0.2
c		24.9		0.3	-0.5	0.0
		16.2		.9		
	18 30	25.4	-24	0.3		
		1 31.6		1.1		
	18 31	57.0	-23	59.2		

Mean Pos. 1875 (1900

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1926phae.proj.121rw

HB 854

Pos. meas.
A 1837
Aug.

Found July 27, 1926
" in A plates, Bk. 40, p. 31

Variable No. 109

22.0

42.9

Var. 109 meas. from 108
+ 10.60 +1.0

				× × 4	sec δ 108	
				42.40	1.095	46.42800
108 =	18	30	25.4	-24	0.3	
			46.4		1.0	
	18	31	11.8	-23	59.3	

also from c.

				sec δ			
	11.28			1.094	12.34032		
	18	31	23.5	-23	56.2		
			12.3		3.0		
from c	18	31	11.2	-23	59.2		

2.40
0.42
2.82
-2.82 +3.0

from 108	18	31	11.8	-23	59.3	+0.3	-0.1
c			11.2		59.2	-0.3	0.0
			1.0				
109 =	18	31	11.5	-23	59.2		
		1	31.5		1.1		
	18	32	43.0	-23	58.1		

Mean Pos. 1875.0
(1900

		1 yr.	25 yrs.
Z.C. Prec	α	3.6617	91.5425
	δ	2.7210	68.0250

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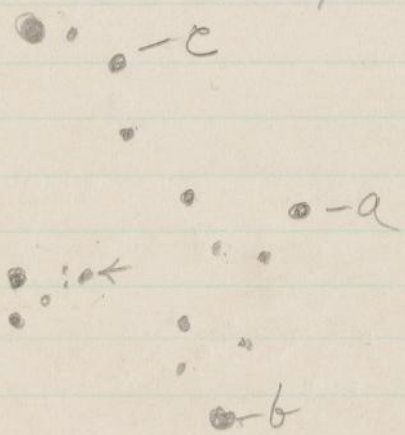
1926phae.proj.1217w

HB 854

Region 18 24 −23. Variable No. 123

A 7340
August 20, 1926

Found July 27, 1926
" on plates, Bb. 40, f. 45



Orient by:
−24 6510 9.5
18 37 15.8 −24 18.2

−24 6511 8.8
18 37 15.8 −24 16.1

B 17708
CPD

		Magn.	x-Var.	y-Var.	xx4	sec δ	
a	−24 6484	9.8	+8.52	+3.2	34.08	1.100	37.48800
b	−24 6486	9.0	+5.80	−4.8	23.20	1.101	25.54320
c	−24 6488	10.0	+2.05	+9.6	820	1.099	9.01180

a 18 83 27.3 −24 35.3

			37.5	3.2					
	18	34	4.8	−24	38.5				
b	18	83	37.3	−24	43.3				
			25.5	4.8					
	18	34	2.8	−24	38.5				
c	18	33	55.8	−24	29.1				
			9.0	9.6					
	18	34	4.8	−24	38.7				

firm a	18	34	4.8	−24	38.5	+0.7	+0.1
b			2.8		38.5	−1.3	+0.1
c			4.8		38.7	+0.7	−0.1
			12.4		17		
	18	34	4.1	−24	38.6	Mean Pos.	(1875 ✓
			1 32.0		1.2		
	18	35	36.1	−24	37.4		(1900 ✓

1 yr. 25 yr.

ZC Prec. α 3.6787 91.9675
δ 2.9701 74.2525

AW Is this diff too large?

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1926phae.proj..121w

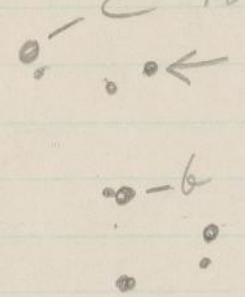
HB857

Variable No. 224

a 7370
August 21, 1926

c Found August 5, 1926, on A plates, Bk. 40, page 146.

Orient by (in δ)



-22 7325 8.2
18 56 41.3 -22 44.4

b follows Var

c very slightly North of Var.

-22 7341 10.0
18 59 19.8 -22 44.3

B22613

	CPD	Magn.	x-Var.	y-Var.	xx4	sec δ	
a	-22°7337	9.8	+7.00	-2.6	28.00	1.086	30.40800
b	-22 7343	9.0	-0.88	-4.3	3.52	1.086	3.82272
c	-22 7345	9.2	-3.70	+0.2	14.80	1.086	16.07280

a	18 58	57.0	-22	58.3
		30.4		2.6
	18 59	27.4	-22	55.7
b	18 59	30.3	-22	59.9
		3.8		4.3
	18 59	26.5	-22	55.6
c	18 59	43.3	-22	55.4
		16.1		0.2
	18 59	27.2	-22	55.6

from a	18 59	27.4	-22 55.7	+0.4	-0.1
b		26.5	55.6	-0.5	0.0
c		27.2	55.6	+0.2	0.0
	18 59	27.0[3]	-22 55.6		
		30.5	2.1		
	19 00	(57.5)	-22 53.5		

Mean Pos. 1875 ✓

(1900

57s not 58

Lorburg SDM -22 4980

α 3.6188 90.4700
δ 5.1439 128.5975
2 8.6

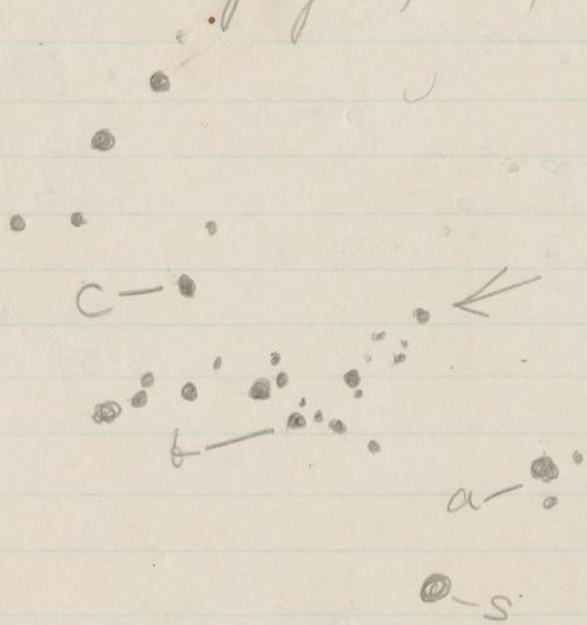
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1926phae.proj.1217w

70

N13855

Meas. Pos. Region 18.24 -23 Variable Sta. 100.
a 9759 Found July 24, 1926, in a plates, Bk. 40, p. 22.
August 21, 1926
a slightly
Sq ✱
Vis Sq c



Note ff star close

Very many Cat. Stars in region. I have tried to select best for meas. and to mark correct ones on a plate.

R.A. of Var. is about (precisely)?
that of star mkd s - -20° 7313 18 46 54.1 -20 5.0 7.9 (1875)
B 17708

	CpD	Magn	x-Var.	y-Var.	xx4	rec'd	
a	-20° 7311	9.6	+2.55	-3.4	10.20	1.06428	10.85280
b	-20 7317	9.6	-2.47	-3.0	9.88	1.064	10.51232
c	-19 7183	9.8	-4.57	+0.6	18.28	1.064	19.44992

a 18 46 44.1 -20 1.9

	10.9	3.4				
	18 46 55.0	-19 58.5	from a	18 46 55.0	-19 58.5	+0.1 -0.1
b	18 47 5.3	-20 1.4	b	54.8	58.4	-0.1 0.0
			c	54.9	58.4	0.0 0.0
	10.5	3.0		27	13	
	18 46 54.8	-19 58.4		18 46 54.9	-19 58.4	Mean Pos. 1875 ✓
c	18 47 14.3	-19 57.8	2C Prec. ✱	1 28.7	1.7	
	19.4	0.6	1 yr. 25 yr.	18 48 23.6	-19 56.7	(1900
	18 46 54.9	-19 58.4	α 3.5480 88.70			
			δ 4.0766 101.9150			
			141.9			

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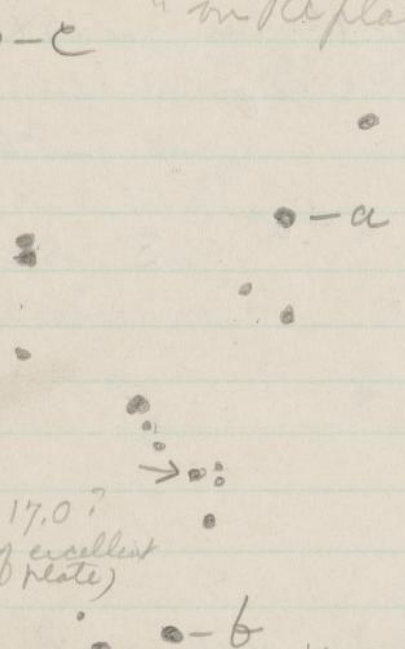
1926phae.proj.121rw

HB 855

Found August 5, 1926 on a plates, B 40, p. 152

Variable No. 230

a 7370
August 23, 1926



Orientation
-23 7265 9.8
18 43 21.3 -23 6.8
-23 7266 8.7
18 43 21.3 -23 4.6

Note of faint stars close

a 7370
a 7494 n.s. faint (Thatte 17.0? limit of excellent plate)
B 22613

CPD	Magn	x-Var.	y-Var.	x x 4	sec d	
a -23 7269	9.4	+4.08	5.6	16.32	1.089	17.77248
b -23 7271	9.4	-2.08	8.8	8.32	1.091	9.07712
c -23 7272	10.2	-3.55	12.9	14.20	1.088	15.44960

a 18 43 58.8 -23 16.5

		17.8	5.6			
18	44	16.6	-23 22.1			
b 18	44	25.3	-23 31.0			
		9.1	8.8			
18	44	16.2	-23 22.2			
c 18	44	32.3	-23 9.4			
		15.4	12.9			
18	44	16.9	-23 22.3			

from a	18 44	16.6	-23 22.1	0.0	+0.1
b		16.2	22.2	-0.4	0.0
c		16.9	22.3	+0.3	-0.1
		17	6		
	18 44	16.6	-23 22.2		
		1 31.0	1.6		
	18 45	47.6	-23 20.6		

Mean Pos. 1875. (1900

	1 yr.	25 yr.
ZC Prec. α	3.(391	90.9775 = 1 m 31.0 s
δ	3.8503	96.2575 =
		1 36.26

Pos.

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1926phae.proj.1217W

HB 855

Meas. Pos. Region 18 24 -23 Variable No. 235
A 7370 Found August 6, 1926 page 157
August 23, 1926 " on A plates, Bk. 39, 40 Given by

-23 7282 9.8
18 45 55.8 -23 56.6

a —•

-23 7283 9.2
18 45 55.8 -23 3.4

c is slightly N of Var.

c —•

Nebulous ft. star close See 7494

B 22613

	CPD	Magn.	x-Var	y-Var	x x 4	sec δ	
a	-24 6537	9.8	+11.53	+9.8	46.12	1.097	50.59364
b	-24 6539	10.1	+ 6.27	-0.6	25.08	1.100	27.58800
c	-24 6542	10.1	- 2.32	+0.8	9.28	1.098	10.18944
a	18 44	50.8	-24 14.4				
		50.6	9.8				
	18 45	41.4	-24 24.2				
b	18 45	13.3	-24 34.7				
		27.6	10.6				
	18 45	40.9	-24 24.1				
c	18 45	51.8	-24 23.4				
		10.2	0.8				
	18 45	41.1	-24 24.2				

from a 18 45 41.4 -24 24.2 +0.3 0.0
b 40.9 24.1 -0.2 +0.1
c 41.1 24.2 0.0 0.0

34 5

18 45 41.1 -24 24.2 Mean Pos. 1875
1 31.7 1.7
18 47 12.8 -24 22.5 (1900

		1 yr.	25 yr.
ZC Pos.	α	3.6667	91.6675
	δ	3.9712	99.28
			1 39.3

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1926phae.proj.12176

N13857

Meas. Pos.
A7370
Aug. 24, 1926

Found July 30, 1926
" in B plates, Pls. 40, 60

Variable No. 138

o-c
c is slightly
N of Var

o-a
Orient by (in δ)
-22 7325 8.2
18 56 41.3 -22 44.4
-22 7341 10.0
18 59 19.8 -22 44.3

B29536

CPD	Magn	x-Var.	y-Var.						
a -22 7329	10.2	9.30	-3.0	37.20	1.082	40.25040			
b -22 7334	10.4	-3.58	-6.3	14.32	1.082	15.49424			
c -22 7336	9.8	-10.77	+0.4	43.08	1.081	46.56948			
a 18 57	27.5	-22 25.0		from a	18 58	7.8	-22 22.0	-0.1	+0.1
	40.3		3.0	b		7.8	22.0	-0.1	+0.1
18 58	7.8	-22 22.0		c		8.2	22.2	+0.3	-0.1
b 18 58	23.3	-22 28.3				2.8	2		
	15.5		6.3		18 58	7.9	-22 22.1		
18 58	7.8	-22 22.0				1 30.1	2.1		
c 18 58	54.8	-22 21.8			18 59	38.0	-22 20.0		
	46.6		0.4						
18 58	8.2	-22 22.2							

Mean Pos. 1875

(1900

Not C Dm
Not S Dm

		1 yr.	25 yr.
ZC Pos.	α	3.6648	90.12
	δ	5.0323	125.8075

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1926phae.proj.121TW

74

HB855

Pos. Meas. Region 1824-23 Variable No. 139
a 7370 Found July 30, 1926
August 24, 1926 on B plates, Bk. 40, p. 61

c is Ng a
a is Ng Var

see a 7494 for faint stars near

c = a g p. 73

if this is right star

Print same as page 73

B 29536

	Comp	Mag	x-Var.	y-Var	x x 4	sec δ	
a	-22	7316	10.0	+9.48	+1.1	37.92	1.082	41.02944
b	-22	7318	10.4	+7.08	-1.1.1	28.32	1.084	30.69888
c	-22	7329	10.2	-24.00	+3.6	96.00	1.082	103.87200

a 18 55 3.7 -22 27.5

	41.0	1.1
18 55	44.7	-22 28.6
b 18 55	14.7	-22 39.8
	30.7	11.1
18 55	45.4	-22 28.7
c 18 57	27.5	-22 25.0
	1 43.9	3.6
18 55	43.6	-22 28.6

final a 18 55 44.7 -22 28.6 +0.1 00
b 45.4 28.7 +0.8 -0.1
c 43.6 28.6 -1.0 0.0

	137	19
18 55	44.6	-22 28.6
	1 30.2	2.1
18 57	14.8	-22 26.5

Mean Pos. 1875

(1900)

		1 yr.	25 yr.
Z.C. Prec.	α	3.6091	90.2275
	δ	4.8298	120.7450
			2.0.8

120.745

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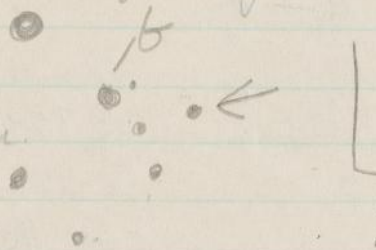
1926phae.proj.1217w

Is Var. = CPD. -22 7287 ? 18 50 31.2 -22 44.2 10.4

Doesn't this prove that Var. was bright when observations for Cat. were made?

Variable No. 140

a 7370 Var. of Beljawsky — 1923.



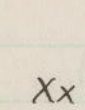
10.3 + [12.5

We could give a better Nim. see good a plate

Orient (in δ) by

-22 7288 10.4
18 50 35.5 -22 58.5
-22 7294 9.5
18 51 12.4 -22 58.4

B 2953 b



CPD	Mag.	x-Var	y-Var.	x x 4	sec δ	
a -22 7288	10.4	+1.06	-14.4	4.24	1.086	4.60464
b -22 7289	9.8	-2.18	+0.2	8.72	1.084	9.45248
c -22 7292	8.5	-6.55	-5.5	26.20	1.085	28.42700 ~~34.93700~~

a 18 50 35.5 -22 58.5

4.6 14.4

18 50 30.9 -22 44.1

b 18 50 40.2 -22 43.9

9.5 0.2

18 50 30.7 -22 44.1

c 18 50 58.7 -22 49.6

~~34.9~~ 28.4 5.5

18 50 30.3 -22 44.1

Firm a 18 50 30.9 -22 44.1

b 30.7 44.1

c 30.3 44.1

19

18 50 30.6 -22 44.1 (1875

1 32 2

18 52 2 -22 42

Kunn

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1926phae.proj.1217W

76 Algol? with 2 days Min?

V

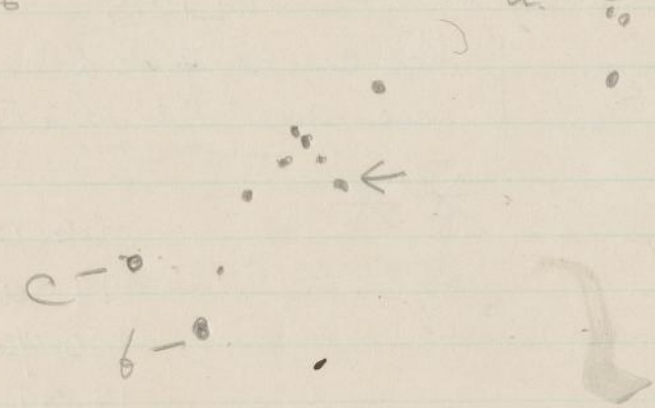
HB 854

NB

Pos. meas. Region 1824-23 Found July 27, 1926, on a plate, BB.40, f.36 Variable No. 114

a3699

August 25, 1926



Orient by:
-23 7099 10.3
18 18 12.9 -23 6.4
-24 6389 9.8
18 18 12.8 -24 7.2

B29525

			Magn	x-Var.	y-Var.	xx4	sec δ	
a	-23	7054	10.3	+10.45	+6.8	41.80	1.094	45.72920
b	-24	6375	9.6	- 4.22	-3.9	16.88	1.095	18.48360
c	-24	6377	10.2	- 6.47	-2.3	25.88	1.095	28.33860

a 18 14 36.9 -23 54.2

45.7 6.8

18 15 22.6 -24 1.0

b 18 15 42.1 -24 48.

18.5 3.9

18 15 23.6 -24 0.9

c 18 15 51.6 -24 3.2

28.3 2.3

18 15 23.3 -24 0.9

		1 yr	25 yr.
Z.C. Prec.	α	3.6665	91.6625
	δ	1.3454	33.6350

Firma	18 15	22.6	-24 1.0	-0.6	-0.1
b		23.6	0.9	+0.4	0.0
c		23.3	0.9	+0.1	0.0
			5 28		
	18 15	23.2	-24 0.9		
		1' 31.7	0.6		
	18 16	54.9	-24 0.3		

Mean Pos. ✓1875 (1900)

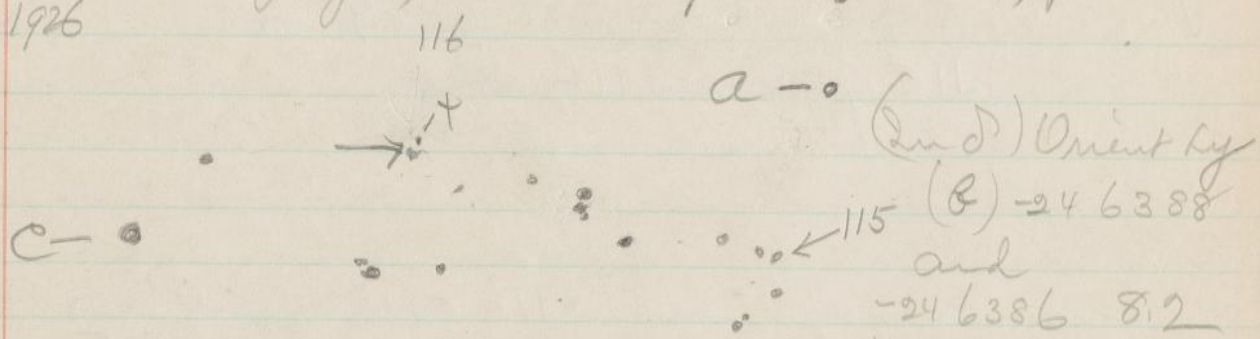
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1926phae.proj.121nw

HB854

Variable No. 116

a 1837 Found July 27, 1926, on a plates. Bk. 40, p. 38.
August 26, 1926



(2nd δ) Orient Ly
(R) −24 6388
and
−24 6386 8.2
18 17 24.8 −24 28.7

B 17708

	CPD	Magn	x-Var	y-Var.	x×4	sec δ	
a	−24 6387	9.4	+13.18	+5.0	52.72	1.100	57.99200
b	−24 6388	9.0	+ 8.00	+14.2	32.00	1.099	35.16800
c	−24 6393	10.2	− 7.70	− 2.0	30.80	1.101	33.91080

a 18 17 35.3 −24 37.9

58.0 5.0

18 18 33.3 −24 42.9

b 18 17 58.8 −24 28.8

35.2 14.2

18 18 34.0 −24 43.0

c 18 19 8.3 −24 44.9

33.9 2.0

18 18 34.4 −24 42.9

1 yr 25 yr

2C Prec. α 3.6857 92.1425

δ 1.6228 40.5700

From

a	18 18 33.3	−24 42.9	−0.6	0.0	
b	34.0	43.0	+0.1	−0.1	
c	34.4	42.9	+0.5	0.0	
	117	28			
	18 18 33.9	−24 42.9			Mean Pos. 1875
	1 32.1	0.7			
	18 20 6.0	−24 42.2			(1900)

x×4

x near 116 provides 0.03 0.12 1.101 0.1

N 0.2

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1926phae.proj.121rw

~~Not~~ Proved

HB 854

a 1837
Aug. 26, 1926

Region 18 24-23 Variable No. 115
Found July 27, 1926, on a plates, Bk. 40, p. 37
see p. 77
115 precedes 116, S

	x 116 − 115	y-Var
	+10.98	−2.5
	x x 4	rec'd 116
	43.92	1.101
		48.35592

Also, 115 to a
a follows 115 2.20 7.4 N.

116 = 18 18 33.9 −24 42.9 (1875)
48.4 −2.5
115 = 18 17 45.5 −24 45.4 (1875)

a = 18 17 35.3 −24 37.9
9.7 7.4
18 17 45.0 −24 45.3

x x 4 rec'd
220 8.80 1.100
9.68000

from 116	18 17 45.5	−24 45.4	+0.3	0.0
" a	45.0	45.3	−0.2	+0.1
	5			
	18 17 45.2	−24 45.4	Mean Pos. 1875 ✓	
	1 32.2	0.6		
	18 19 17.4	−24 44.8	(1900 ✓	

ZC Pos. α 3.6869 92.1725
δ 1.5519 28.7975

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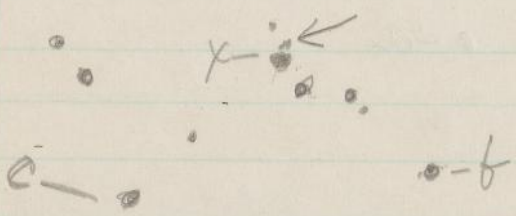
1926phae.proj.1217w

Note
Position of star near

HB854
Variable No. 117.

A 1837 Found July 27, 1926
Aug. 27, 1926 " on A plates, Bk. 40, p. 39

Orient by
-24 6410 9.0
18 21 36.0 -24 41.2
-24 6411 9.4
18 21 36.0 -24 31.9



B29525

CPD.	Mag.	x-Var.	y-Var.	x×4	sec δ	
a -24 6422	9.6	+5.02	+8.2	20.08	1.099 (425)	22.06792
b -24 6423	10.0	+4.32	-2.2	17.28	1.101	19.02528
c -24 6427	9.8	-2.88	-3.3	11.52	1.101	12.68352

a 18 23 1.3 -24 33.5

	22.1	8.2	from 18 23 23.4	-24 41.7	+0.6 +0.1
18 23 23.4	-24 41.7		22.8	41.8	0.0 0.0
b 18 23 3.8	-24 44.0		22.1	41.8	-0.7 0.0
	19.0	2.2	23		
18 23 22.8	-24 41.8		18 23 22.8	-24 41.8	Mean Pos. 1875
c 18 23 34.8	-24 45.1		1' 32.1	0.9	
	12.7	3.3	18 24 54.9	-24 40.9	(1900
18 23 22.1	-24 41.8				

Star x follows 0.05 S -0.3 (x×4 0.20) sec. Var +1.00 1.101 0.220

	1 yr.	25 yr.
2c Prec α	3.6840	92.1000
δ	2.0431	51.0775

x follows 0.2 S 0.3

Var = 18 24 54.9 -24 40.9 (1900)
0.2 -0.3
18 24 55.1 -24 41.2 Star x

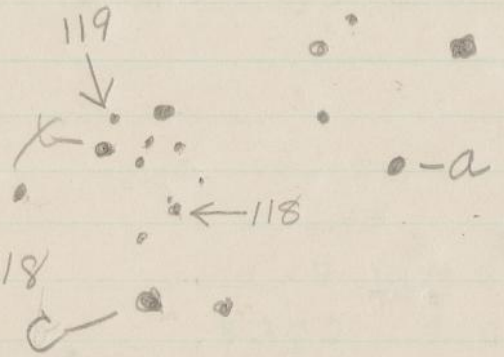
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1926phae.proj.121rw

Region near Sedge — only a plate for meas.

HB 854

Pos. meas. Region 18 24 -23 Variable No. 119
A 1837 Found July 27, 1926, (in δ)
August 27, 1926 " on 4 plates - Bb. 40, f. 41 Omit by:
-25 6528 9.5
18 21 3.2 -25 21.0
-25 6563
see c



118 doubtful
See Bb. 40
Hazy?
119 follows all these plates
c slightly follows 118

B 18772

	CPD	Mags	x-Var.	y-Var.	xx4	sec δ	1.10451
a	-25 6557	9.0	+9.82	-1.7	39.28	1.106	43.44368
b	-25 6559	9.9	+4.22	+7.2	16.88	1.107	18.65240
c	-25 6563	9.4	+1.52	-6.5	6.08	1.106	6.72448

a	18 25	22.7	-25	16.2				
		43.4		1.7				
	18 26	6.1	-25	14.5				
b	18 25	47.2	-25	7.4				
		18.7		7.2				
	18 26	5.9	-25	14.6				
c	18 25	59.5	-25	20.9				
		6.7		6.5				
	18 26	6.2	-25	14.4				

Firma	18 26	6.1	-25	14.5	00	00
b		5.9		14.6	-0.2	-0.1
c		6.2		14.4	+0.1	+0.1
		2		15		
	18 26	6.1	-25	14.5	Mean Pos.	
	1	32.5		0.9	1875	
	18 27	38.6	-25	13.6	(1900	

x follows 119 0.32 S 0.6

2C Prec. α 3.6984 92.4600
δ 2.2790 56.9750

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1926phae.proj.121rw

Doubtful — See Bb. 40. Omit

Note ft star near — Variable No. 118

a 1837
Aug. 27

Found July 27, 1926
" on a plates, Bb. 40, p. 40

118 precedes 119
2,20

118 south of 119
– 2.5

118 precedes c
0,68

118 north of c
+ 4.0

See page 176, 177 for 255 & 256 close to these Vars.

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1926phae.proj.12TW

Brock

HB854

Pos. meas: Region 18 24 - 23 Variable No. 120

a 7340, Found on July 27, 1926 a

Aug. 28, 1926/c — " " Aplates, Bk. 40, 42 | Orint by:

120 −24 6443

= a

122 → −24 6444 9.0

18 25 57.0 −24 9.9

Star 14.2

very slightly brighter a little more space

follows 0.2, S barely .1

B1877.2

		CPD	Magn.	x-Var.	y-Var	x×4 sec δ	
a		−24 6443	9.9	+13.58	+5.7	54.00 1.096	59.18400
b		−24 6449	10.2	−1.45	−21.9	5.80 1.100	6.38000
c		24 6453	10.2	−14.62	+5.8	58.48 1.096	64.09408
a	18 25	57.0	−24 8.2				
		5.92	5.7				
	18 26	56.2	−24 13.9				
b	18 27	3.2	−24 35.6				
		6.4	21.9				
	18 26	56.8	−24 13.7				
c	18 27	59.0	−24 8.0				
	1	4.1	5.8				
	18 26	54.9	−24 13.8				

from a	18 26	56.2	−24 13.9	+0.2	−0.1
b		56.8	13.7	+0.8	+0.1
c		54.9	13.8	−1.1	0.0
		179	24		
	18 26	56.0	−24 13.8		
	1	31.7	1.0		
	18 28	27.7	−24 12.8		

Mean Pos. 1875 (1900

Mira at least 160 (cannot find faintest pl)

Magn. 14.5 — a 7340

		1 yr.	25 yr
2C Pre.	a	3.1699	91.7475
	δ	2 35 13	58.7825

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1926phae.proj..122W

~~Hotpaxed~~

See also, p 158

Variable No. 122

Aug. 28. Found July 27, 1926
" on a plates, Bk. 40, p. 44

Meas with 120

122 follows 120
14.18 — S 1,50
xx 4 sec δ of 120
56.72 1.097 62,22184

~~Leave for one~~
~~temp.~~

120 18 26 56.0 -24 13.8 (1875
1 22 1.5

122 18 27 58.2 -24 15.3 (1875

122 precedes c
0.4/4 S 7.3

See p. 158

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1926phae.proj.1217w

84

Pinned

NB 855

Mean Pos. Region 18 24-23 Variable No. 125

A 8986 Found July 28, 1926

August 30, 1926 " on A Plates, Bk. 40, f. 47

Near Nedged pl.

C very slightly preceding Var.

C is between b and 6658 (a)

b = 6655 18 53 6.9

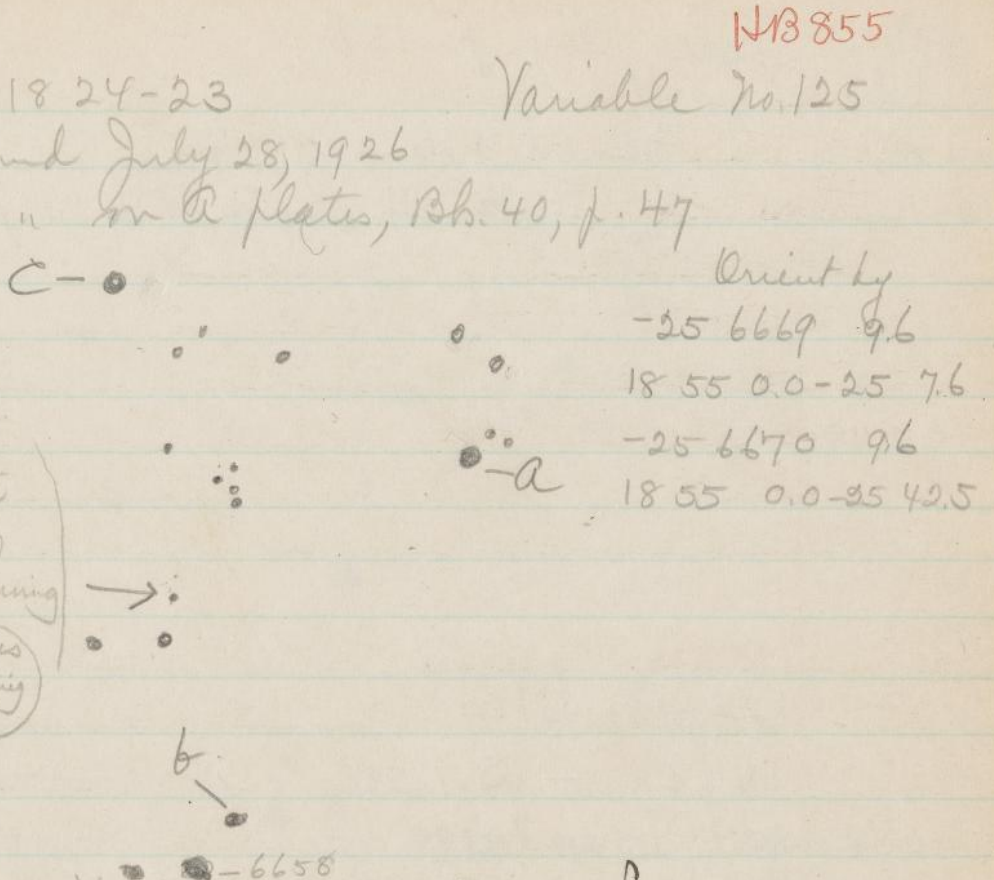
c = 6657 53 12.4

6658 53 16.9

Plate slightly twisted in drawing

This agrees with setting

B 22613



Printed

-25 6669 9.6

18 55 0.0 -25 7.6

-25 6670 9.6

18 55 0.0 -25 42.5

	CPD	Magn.	x-Var.	y-Var.	x x 4	sec δ	
a	-25 6652	9.2	+9.64	+4.8	38.56	1.109	42.76304
b	-25 6655	9.2	+1.30	-9.9	5.20	1.111	5.77720
c	-25 6657	10.2	+0.15	+10.7	0.60	1.108	0.66480

a 18 52 30.9 -25 38.1

42.8 4.8

18 53 13.7 -25 42.9

b 18 53 6.9 -25 52.9

5.8 9.9

18 53 12.7 -25 43.0

c 18 59 12.4 -25 32.6

0.7 10.7

18 53 13.1 -25 43.3

From a 18 53 13.7 -25 42.9 +0.5 +0.2

b 12.7 43.0 -0.5 +0.1

c 13.1 43.3 -0.1 -0.2

5 2

18 53 13.2 -25 43.1 Mean Pos. 1875

1 32.5 (-) 1.9

18 54 45.7 -25 41.2 (1900)

1 yr. 25 yr.

2C Prec. α 3.6987 92.4675

δ 4.6151 115.3775 = 1 55.4

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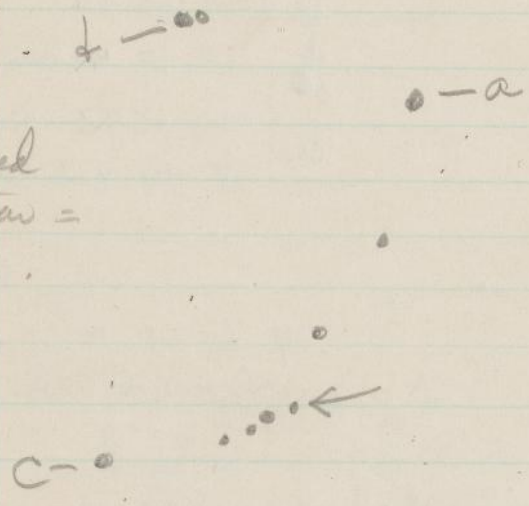
1926phae.proj..121W

Cured?

HB 8855

Variable No. 126

Ab124 Found July 28, 1926
Aug. 30, 1926 " on plates, Bk. 40, f. 48



& assumed bright star = Cat. star.

B2263

	CPD	Magn	x-Var.	y-Var.	xx 4		
a	-25 6687	8.8	+4.45	+13.2	17.80	1.109	19.74020
b	-25 6639	9.0	-5.97	+17.0	23.88	1.108	26.48292
c	-25 6640	10.0	-8.18	-1.2	32.72	1.111	36.35192

a	18 49	27.4	-25	37.3			
		19.7		13.2			
	18 49	47.7	-25	50.5			
b	18 50	12.9	-25	38.7			
		26.5		17.0			
	18 49	46.4	-25	50.7			
c	18 50	21.9	-25	51.8			
		36.4		1.2			
	18 49	45.5	-25	50.6			

	1 yr.	25 yr.
α	3.7048	92.62
δ	4.3210	108.0250
		1 48.0

Firm 18 49 47.1 -25 50.5 +0.8 +0.1
46.4 50.7 +0.1 -0.1
45.5 50.6 -0.8 0.0
10 18

18 49 46.3 -25 50.6
1 32.6 + 1.8
18 51 18.9 -25 48.8

Mean Pos. 1875.

(1900)

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1926phae.proj.121.tw

NB3855

Meas. Pos. Regin 18 24 −23 Variable No. 131
a6124 Found July 29, 1926
August 30, 1926 on a plates
Bds. 46 & 53

Orient by:
65 −27 6572 9.5
18 49 41.0 −27 39.9
a −27 6573 9.5
18 49 41.5 −27 12.9

131
6581

(1875)
−27 6581 18 51 31.0 −27 20.5
closest star to 131 but is a large image on a plates.
N.B. agreement of 1875 pos.

B17558
CPD

		Magn	x-Var.	y-Var.			
a	−27 6578	9.6	+12.48	+5.5		sec δ	56.11008
b	−27 6579	10.0	+ 7.98	+14.5	38.92	1.123	34.72316
c	−27 6583	9.6	−13.08	+11.0	52.32	1.123	58.75536
a	18 50	33.0	−27 11.7				

		67.4		5.5
18	51	40.4	−27	17.2
		29.1		
+ 18	50	53.5	−27	2.9
		35.8		
		34.7		14.5
18	51	28.2	−27	17.4
		29.3		
c 18	52	28.8	−27	6.5
		58.8		11.0
18	51	30.0	−27	17.5

final

a	18 51	29.1	−27	17.2	+0.2
b		29.3		17.4	0.0
c		30.0		17.5	−0.1
		28.4		11	
18	51	29.1	−27	17.4	
18	51	29.(47)			
		1.33.6		1.9	
18	53	3.1	−27	15.5	(1900

Mean Pos. 1875

1 yr 25 yrs.
α 3.7450 93.6250
δ 4.4679 111.6975
1 51.7

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1926phae.proj.121rw

Not proved

Variable No. 130

a6124 Found July 28, 1926
Aug. 30, 1926 " on a plate, Bk. 40, f. 52.

8.5 is very not used. tion

Var. 130 precedes 131 S 9.2
9.32
xx4 sec δ 131 ✓
37.28 1.125 = 41.94000

131) 18 51 29.47 -27 17.4 (1875
41.9 9.2
130) 18 50 47.6 -27 26.6 (1875
Use 1 33.8 1.8
18 52 21.4 -27 24.8 (1900

Var 132 follows
Star a 3.10 S 15.0
xx4 sec δ a
12.40 1.124 = 13.93760
two few off to include again
Use for checks position July

a = 18 50 33.0 -27 11.7
13.9 15.0
18 50 46.9 -27 26.7 (1875
above 18 50 47.6 -27 26.6
145
18 50 47.2 -27 26.6 (1875

Var 130 between 2 ft stars
Var. ft. on a 8986
r precedes 0.15
S r S follows 0.32
all practically same δ

	1 yr	25 yr
α	3.7501	93.7525
δ	4.4083	110.2075
	1	50.2

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1926phae.proj.12176

Rived?

HB 855

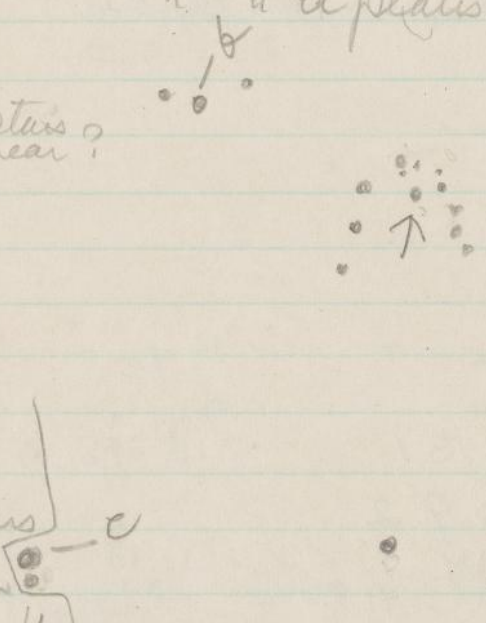
Meas. Pos. Regin 18 24-23 Variable No. 132
A6124 Found on July 29, 1926
August 31, 1926 " " a plates, Bk. 40, p 54

Give position of ft. stars near?

Is there a very ft star close to Var.? Just prec. and slightly north.

Many more ft. stars in immediate regin of Var. but are very ft.

Orient in δ:
-28 27 43 9.6
18 52 28.3 -28 42.5
-28 27 44 10.0
18 52 45.3 -28 42.8
These are not exactly same but best that can be found near.



B 20359	Magn.	x-Var.	y-Var.	x x 4	sec δ	
a -28 6742	9.5	+8.97	-18.5	35.88	1.139	40.86732
b -28 6748	9.8	-7.42	+2.8	29.68	1.135	33.68680
c -28 6750	9.5	-13.08	-14.1	52.32	1.138	59.54016

a 18 52 23.3 -28 35.9

		40.9		18.5
	18 53	4.2	-28	17.4
b	18 53	35.3	-28	14.6
		33.7		2.8
	18 53	1.6	-28	17.4
c	18 54	2.6	-28	31.1
		59.5		14.1
	18 53	3.1	-28	17.0

fm a	18 53	4.2	-28	17.4	+1.2	-0.1
b		1.6		17.4	-1.4	-0.1
c		3.1		17.0	+.1	+0.3
		8.9		8		
	18 53	3.0	-28	17.3		Mean Pos.
		1 34.3		1.9		(1875
	18 54	37.3	-28	15.4		(1900

	1 yr.	25 yr.
2.C. Prec. α	3.7727	94.3175
δ	4.6007	115.0175
		1 550

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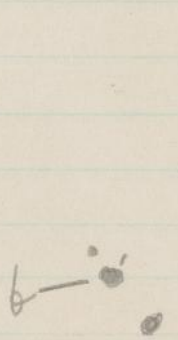
1926phae.proj.121rw

Pivot

HB 854
Variable No. 162

a 2752 Found August 4, 1926.
Sept. 1, 1926 " on a plates, Bk. 40, p. 84.

a is N of Var.
c is slightly south of Var.



Orient by:
-26 6557 9.4
18 40 6.0 -26 6.2
-26 6558 9.5
18 40 6.0 -26 22.7
These orientation stars are far from meas. stars. May affect results slightly.

B 16826

	CPD	Magn.	x-Var.	y-Var.	x x 4	sec δ (1.11958)	
c	26° 6533	8.8	+5.18	+1.2	20.72	1.120	23.20640
b	-26 6536	9.8	-7.27	-7.8	29.08	1.121	32.59868
c	-26 6540	10.0	-16.16	-0.7	64.40	1.120	72.12800

a 18 34 47.8 -26 43.2

	23.2		1.2
18 35	11.0	-26 44.4	
b 18 35	43.3	-26 52.3	
	32.6		7.8
18 35	10.7	-26 44.5	
c 18 36	22.8	-26 45.3	
1	12.1		0.7
18 35	10.7	-26 44.6	

Firm a	18 35	11.0	-26 44.4	+0.2	+0.1
b		10.7	44.5	-0.1	0.0
c		10.7	44.6	-0.1	-0.1
		24	15		Mean Pos.
	18 35	10.8	-26 44.5		(1875 ✓
	1	33.4	+1.3		
	18 36	44.2	-26 43.2		(1900 ✓

	1 yr	25 yr
ZC Prec. α	3.7380	93.4500
δ	3.0663	76.6575
		1' 16.7

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1926phae.proj.121nw

Pivoted

Announced by Dr. L. in 1927 HB

Pos. Meas. Region 18 24-23 Variable No. 159
a 8370 Found August 3, 1926
September 3, 1926. " on A plates, Bk. 40, f. 81

a is slightly Sof Var

b preceded Var.





Orienting
-26 6429 8.5
18 16 23.0 -26 30.5

-26 6430 10.0
18 16 23.0 -26 55.7

B 18772

			Mag.	x-Var.	y-Var.	recd	x x 4	
	cPD							
a	-26°	6445	10.2	+11.57	-0.5	1.117	46.28	51.694 76
b	-26	6454	10.2	+0.96	-8.3	1.118	3.84	4.293 12
c	-26	6462	10.2	-7.48	-3.9	1.118	29.92	33.450 56

a 18 18 27.0 -26 28.3
51.7 0.5

18 19 18.7 27.8

b 18 19 14.0 -26 36.1
4.3 8.3

18 19 18.3 27.8

c 18 19 51.7 -26 31.8
33.5 3.9

18 19 18.2 27.9

1 yr. 25 yr.

Z.C. Prec. α 3.7355 93.3875
δ 1.6854 42.1350

18 19 18.7 -26 27.8 +0.3 00
19 18.3 -26 27.8 -0.1 00
18.2 27.9 -0.2 -0.1
12
18 19 18.4 -26 27.8 (1875)
1 33.4 0.7
18 20 51.8 -26 27.1 (1900)

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1926phae.proj.121.pdf

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1926phae.proj.1217w

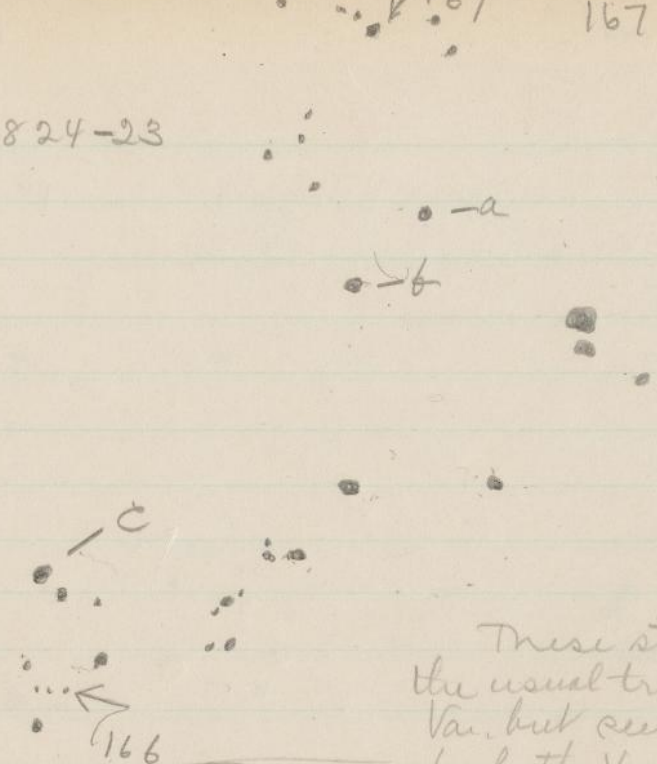
92

Pivoted.

Pyo. meas Begin 1824-23

A8370
Sept. 3, 1926
As 166 and 167 are bright on diff. plates, same stars are used but new settings on diff. A plates.

B18772



167 note star fol. N.

HB 854
Variable No. 167
Found August 4, 1926
" on all plates.
Bh. 40, p. 89.
Orient
Same as page 90

These stars do not form the usual triangle with either Var. but seem good placement for both Vars. with one set of Cat. stars.

	x-Var. (167)	y-Var.	x×4	rec°	
a	-26 6477	10.2 +2.08	-4.5	8.32	1.118	9.30176
b	-26 6479	9.4 +0.78	-7.5	3.12	1.119	3.49128
c	-26 6482	9.5 -8.95	-17.5	35.80	1.120	40.09600

a	18 21	45.5	-26 35.9	
		9.3	4.5	
	18 21	55.8	-26 31.4	
b	18 21	51.0	-26 38.7	
		3.5	7.5	
	18 21	54.5	31.2	
c	18 22	36.0	-26 48.7	
		40.1	17.5	
	18 21	55.9	31.2	

18 21	55.8	-26	31.4	+0.4 -0.1
	54.5		31.2	-0.9 +0.1
	55.9		31.2	+0.5 +0.1
	12		8	
18 21	55.4	-26	31.3	(1875)
	1' 33.4		0.8	
18 23	28.8 (49)	-26	30.5	(1900)

Use 28[s]

ZC Prec. α 3.7369 93.4228
δ 1.9154 47.8850

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1926phae.proj.121rw

~~Not~~ fixed Mean with 167

HB 854
Variable No. 166.

a 2752
Sept 3 1926

166.

	Same stars as p. 92	x-Var.	y-Var.	x×4		
a		+1.98	+15.7	4.392	1.118	49.10256
b		+9.55	+12.7	38.20	1.119	42.74580
c		−0.40	+2.7	1.60	1.120	1.79200

a	18	21	45.5	−26	35.9			
			49.1		15.7			
	18	22	34.6		51.6			
b	18	21	51.0	−26	38.7			
			42.7		12.7			
	18	22	33.7		51.4			
c	18	22	36.0	−26	48.7			
			1.8		2.7			
	18	22	34.2		51.4			

	18	22	34.6	−26	51.6	+0.4	−01	
			33.7		51.4	−0.5	+0.8	
			34.2		51.4	00	+0.1	
			125		14			
	18	22	34.2	−26	51.5 (.467)	= 51'		(1875)
		1	33.7		0.8			
	18	24	07.9	−26	50.7			(1900)

α	3.7469	93.6725
δ	1.9718	49.2950

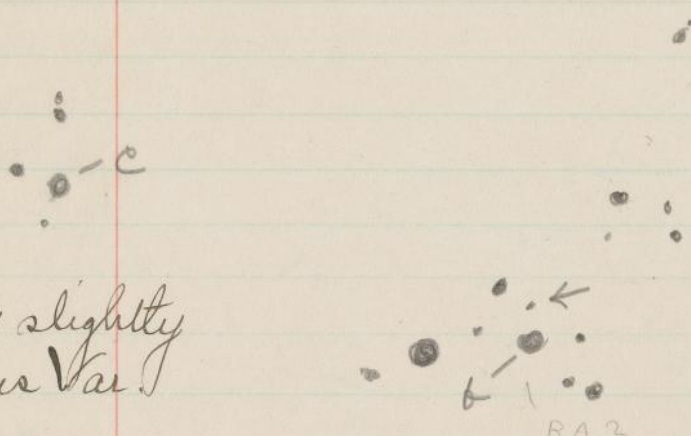
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1926phae.proj.1217w

Region NGC. 6584 Variable No. 6.

Found April 12, 1927

" on Aplatis, Bk. 45, p. 12.



Oriently:

-51° 10802

18 8 50.4 -51 43.0 9.6

and

-51 10803

18 8 50.4 -51 35.5 9.8

B 22480 Glasgow A 12521 meas. June 27, 1927

	CPD	α 1875	δ	Magn.	x (scale read)	y-Var.	x-Var.	y-Var	x×4	
a	-51° 10801	18 8	26.4	-51 52.6	10.0	7.46	+4.04	+6.90	16.16	1.6
b	-52 11063	18 8	51.9	-52 0.2	9.9	11.45	+0.05	-0.92	0.20	1.6
c	-51 10808	18 10	4.7	-51 58.0	9.6	22.78	-11.28	+1.57	45.12	1.6
						11.50				

Var.

a 18 8 26.4 -51 52.6

	26.2	6.9
18	8 52.6	-51 59.5

b 18 8 51.9 -52 0.2

	0.3	0.9
18	8 52.2	-51 59.3

c 18 10 4.7 -51 58.0

1	13.2	1.6
18	8 51.5	-51 59.6

18	8 52.6	-51 59.5	+0.5	0
	8 52.2	-51 59.3	+0.1	+2
	8 51.5	-51 59.6	-0.6	-1
	6.3	1.4		

Mean Pos. 18 8 52.1 -51 59.5 (1875)

1 59.5 + 19.0.3

18 10 51.6 -51 59.2 (1900)

Sec. Rec. α 1 yr. 4.7814 11.5350 (1875)

δ 0.7758 19.3950

Var. mag.

1926phae.proj.1217w

9.6

9.8

red	
1.6199	26.177584
1.6244	0.324880
1.6231	73.234272

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1926phae.proj.121nw

96

New

Regim N.G.C. 6584 Variable No. 4

Var. Found April 6, 1927

" on a plates, Bb. 45, f. 11. Orient by:

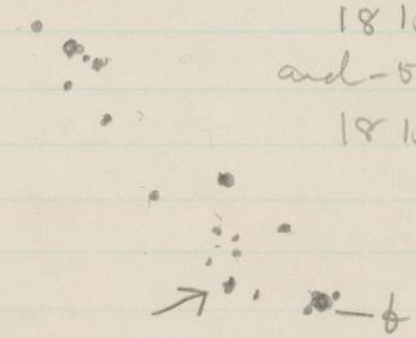
-53° 9104

18 15 24 -53 12.3 9.4

and -53° 9105

18 15 2.4 -53 5.9 9.4

Var. slightly N of b



Glass of a 12521

meas. June 27, 1927

C.P.D.	(1875)				x-Var	y-Var	x×4
a -52° 11088	18	14	39.6	-52 59.6	9.6	+5.20	+4.22	20.80
b -52 11092	18	15	2.6	-52 55.3	10.0	+1.88	+0.22	7.52
c -52 11102	18	16	7.6	-52 57.6	10.4	-7.90	+2.28	31.60

a	18	14	39.6	-52	59.6		
x			34.6		4.2		
x	18	15	14.2	-52	55.4		
b	18	15	2.6	-52	55.3		
			12.5		0.2		
	18	15	15.1	-52	55.1		
c	18	16	7.6	-52	57.6		
			52.5		2.3		
	18	15	15.1	-52	55.3		

18	15	14.2	-52	55.4	-0.6	-0.1	
	15	15.1	-52	55.1	+0.3	+0.2	
	15	15.1	-52	55.3	+0.3	00	
		44.4		8			
Mean Pos. 18	15	14.8	-52	55.3			(1875)
		2.9		+0.6			
18	17	15.7	-52	54.7			(1900)

1 yr 25 yr.

P.C. Prec. x 4.8378 120.9450

δ 1.3332 33.1550

1926phae.proj.1217w

rec'd	
1.6616	34.555040
1.6586	12.472672
1.6601	52.459160

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1926phae.proj.121rw

98 Dr. Luyten Vars. 6541 are measured approximately in order of R.A. as numbered on A 12520, ip

Region N.G.C. 6541 Variable 3

Fund by Dr. Luyten, March 31, 1927.

Fund for a plates, Bk. 23, p. 102.

A 12768

glass rf.

Orient by:

$-43^\circ 8445$ 9.8,

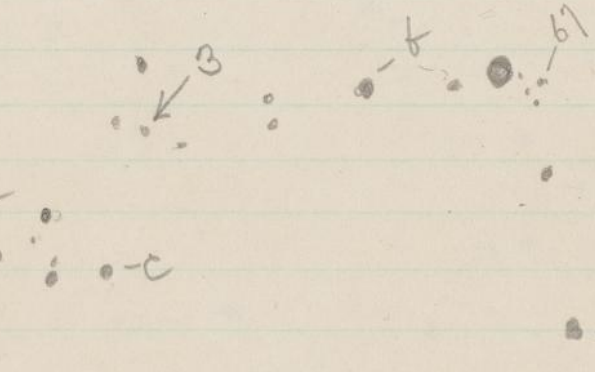
$17^h 58^m 44.9$ $-43^\circ 45.8$

and

$-44\ 8946$ 9.5

17 58 44.9 −44 55.2

meas. July 1, 1927.



Var. 67 slightly nf

Var. 3 prec. c

B 25343

Coordinates read, as 2 vars are meas. one region

		x	y	x-Var.	y-Var.	x×4	sec δ	
	a	1.58	+4.32	−11.07	−6.68	44.28	1.3897	61.535916
	b	8.00	12.15	−4.65	+1.15	18.60	1.3867	25.792620
	c	13.10	6.92	+0.45	−4.08	1.80	1.3886	2.499480
	Var 3	12.65	11.00					
	Var 67	3.32	12.22					

-43° 8417 10.1 a 17 55 30.5 −43 58.8 (1875)

1 1.5 6.7

17 56 32.0 −43 52.1

17 56 32.0 −43 52.1 +06

30.3 52.1 −1.1

-43° 8421 10.1 b 17 56 4.5 −43 50.9

32.0 52.0 +06

25.8 1.2

43

17 56 30.3 −43 52.1

17 56 31.4 −43 52.1 (1875

-43° 8423 c 17 56 34.5 −43 56.1

1 48.9 0.1

2.5 4.1

17 58 20.3 −43 52.2 (1900

17 56 32.0 −43 52.0

I.C. Prec. α 4.3574 108.9350

δ 0.3043 7.6075

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1926phae.proj..121w

if proved to be Var.

NGC 6541 Variable 67

D.E.W. Found April 16, 1927.

Found on A plates, Bk. 23, p. 123

See p. 98

	x	y	x-Var	y-Var.	x x 4		
a	See p 98		−1.74	−7.90	6.96	1.3897	9.672312
b			+4.68	−0.07	18.72	1.3867	25.959024
c			+9.78	−5.30	39.12	1.3886	54.322032

a 17 55 30.5 −43 58.8
9.7 7.9
17 55 40.2 −43 50.9

b 17 56 4.5 −43 50.9
26.0 0.1
17 55 38.5 −43 50.8

c 17 56 34.5 −43 56.1
54.3 5.3
17 55 40.2 −43 50.8

17 55 40.2 −43 50.9 −0.6
55 38.5 50.8 +11
55 40.2 50.8 −0.6
11 8 9

(1875) 17 55 39.6 −43 50.8
1 48.9 0.2
(1900) 17 57 28.5 −43 51.0

2c Prec. α 4.3563 1089075
δ 0.3798 9.4950

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1926phae.proj.121rw

Region N.G.C. 6541 Variable 14

Found April 1, 1927

a 12727 Glass of " on A plates, Bks. 23, f. 105

meas. July 6, 1927

Var. follows Bailey 43 and is S

Var. follows a

Var. N of c

Orientation:

-44° 8880 10.1

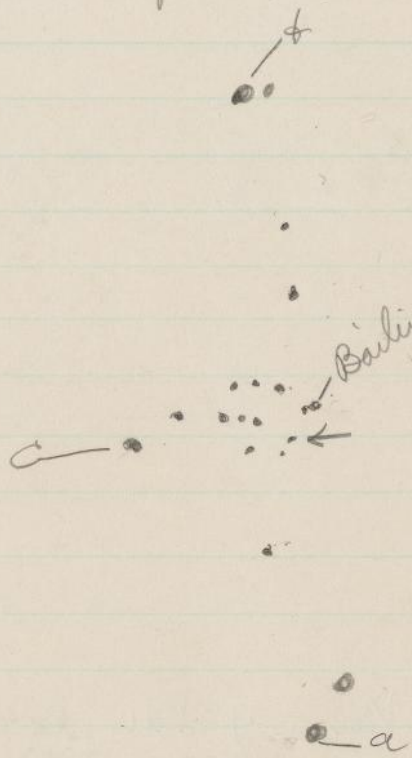
17 52 20.4 -44 02

and -44° 8881 9.8

17 52 20.4 -44 11.6

and -44° 8882 9.4

17 52 20.4 -44 32.8



Var. 43B prec. 0.50

N 1.0

B 25343

C.P.D. (1875)

			magn.	x-Var.	y-Var.	x×4	rec'd	
a -43 8370	17 50 42.1	-43 35.1	9.6	+1.60	-8.60	6.40	1.380	6
	8.8	8.6						
	17 50 50.9	-43 26.5						
b -43 8376	17 50 58.6	-43 15.8	9.6	-1.52	+10.98	6.08	1.373	3
	8.3	11.0						
	17 50 50.3	-43 26.8						
c -43 8378	17 51 7.1	-43 27.2	10.0	-2.85	-0.90	11.40	1.377	6
	15.7	0.9						
	17 50 51.4	-43 26.3						

17 50 50.9	-43 26.5	-0.0	00	
50.3	26.8	-0.6	-0.3	
51.4	26.3	+0.5	+0.2	
2.6	16			
17 50 50.9	-43 26.5			

17 50 50.9	-43 26.5	
i 48.4	0.3	
17 52 39.3	-43 26.8	7
	(1900)	

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1960phae.proj.1217w

Var. from B. Var. 43

sec d Var

0 6 8.835840 0.50 x 4 = 2.00 1.377 2.75400

Bailey Var = 17 52 37 -43 26.3 (1900)

2.8 1.0

3 3 8.349664 No. 14 = 17 52 40 -43 27.3 (1900)

Reduced Pos. 17 52 39 -43 26.8

7 6 15.704640

(1875)

ZC x 4.3375 108.4375

Prec. δ 0.8007 20.0175

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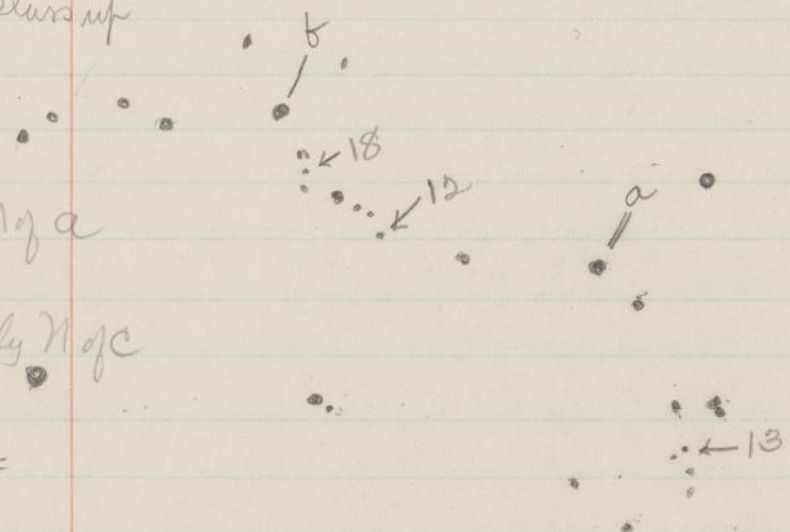
1926phae.proj.121rw

Regim N.G.C. 6541 Vars. 12, 13, 18, 66

*} See f. 103
*}

Orient same as page 100.

Meas. July 7, 1927.
A 12727 Glass up



12 slightly N of a
18 N of 12
66 is slightly N of C

42 & 13 α =

Coordinates meas., not diff. as 4 Vars all meas. one setting of plate

42 Bailey

B25343 C

66

	C P D.	(1875)		Magn	x	y
a	-43° 8389	17h 52m 40.1s	-43° 22.6	9.6	-10.92	+26.82
b	-43 8393	17 53 25.1	-43 20.4	9.8	-19.27	+29.02
c	-43 8395	17 53 44.1	-43 41.3	9.6	-22.50	+ 8.00
Var. 12					-16.98	+26.90
13					- 9.00	+21.47
18					-18.60	+27.72
66					-14.47	+ 8.20
Baby No. 42					- 9.00	+ 9.27

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1926phae.proj.121rw

12 Proved Found April 1, 1927 on A plates, Bk. 23, f. 105
13 Proved " April 1, " " " " " f. 105
18 ? " April 1, " " " " " f. 105
66 Proved " April 16, " " " " " f. 123

Var. 12	x-Var.	y-Var.	x×4	sec δ	
a	+6.06	−0.08	24.24	1.376	33.35424
b	−2.29	+2.12	9.16	1.3774	12.59500
c	−5.52	−18.90	22.08	1.383	30.53664

from a	17	52	40.1	−43	22.6		
			33.4		0.1		
	17	53	13.5	−43	22.5		
from b	17	53	25.1	−43	20.4		
			12.6		2.1		
	17	53	12.5	−43	22.5		
from c	17	53	44.1	−43	41.3		
			30.5		18.9		
	17	53	14.6	−43	22.4		

	17	53	13.5	−43	22.5	0.0	0.0
		53	12.5		22.5	−1.0	0.0
		53	14.6		22.4	+11	+0.1
			10.9		1 4		
	17	53	13.5	−43	22.5		(1875)
		1	48.4		0.2		
	17	55	1.6	−43	22.7		(1900)

		1 yr.	25 yr.
2C Prec.	α	4.3350	108.3750
	δ	0.5932	14.83

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1926phae.proj.121TW

Var. 13	x-Var	y-Var.	xx4	sec δ	
a	-1.92	+5.35	7.68	1.376	10.56768
b	-10.27	+7.55	41.08	1.375	56.48500
c	-13.50	-13.47	54.00	1.383	74.68200

from a 17 52 40.1 −43 22.6
10.6 5.4
17 52 ~~50.7~~ 29.5 −43 28.0
17 53 25.1 −43 20.~~6~~ 4
56.5 7.6
17 52 28.6 −43 28.0
17 53 44.1 −43 41.3
1 14.7 13.5
17 52 29.4 −43 27.8

17 52 29.5 −43 28.0 +0.3
52 28.6 28.0 −0.6
29.4 27.8 +0.2
17 52 29.2 −43 27.9 (1875
1 48.5 0.3
17 54 17.7 −43 28.2 (1900

α 4.3388
108.47
δ 0.6578
16.4325

α
2
δ

Var. 18	x-Var	y-Var.	xx4	sec δ	
a	+7.68	-0.90	30.72	1.376	42.27072
b	-0.67	+1.30	2.68	1.375	3.685
c	-3.90	-19.72	15.60	1.383	21.57480

from a 17 52 40.1 −43 22.6
α 42.3 0.9
17 53 22.4 −43 21.7
b 17 53 25.1 −43 20.4
3.7 1.3
17 53 21.4 −43 21.7
c 17 53 44.1 −43 41.3
21.6 19.7
17 53 22.5 −43 21.6

17 53 22.4 −43 21.7 +0.3 00
53 21.4 21.7 −0.7 00
53 22.5 21.6 +0.4 +0.1
17 53 22.1 −43 21.7 (1875)
1 48.4 0.2
17 55 10.5 (-) −43 21.9 (1900

22.10
48.36
10.46

ZC Prec. α 4.3345 108.3625
δ 0.5802 14.5050

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1926phae.proj.121w

Var. 66

	x-Var	y-Var	x×4	sec δ	
a	+3.55	+18.62	14.20	1.376	19.53920
b	−4.80	+20.82	19.20	1.375	26.40
c	−8.03	−0.20	32.12	1.383	44.42196

+0.3	−0.1	fma	17 52 40.1	−43 22.6	
−0.6	−0.1		19.6	18.6	
+0.2	+0.1		17 52 59.7	−43 41.2	
		fmb	17 53 25.1	−43 20.4	
			26.4	20.8	
			17 52 58.7	−43 41.2	
			17 53 44.1	−43 41.3	
			44.4	0.2	
			17 52 59.7	−43 41.1	

1 yr.
× 43488
25 yr = 108.7200
δ 0.6134 15.3300

			17 52 59.7	−43 41.2	+0.3 00
			58.7	41.2	−0.7 00
			59.7	41.1	+0.3 +0.1
			1	5	
			17 52 59.4	−43 41.2	(1875)
			1 48.7	0.3	
			17 54 48.0	−43 41.5	(1900

Bailey Var. 42

	x-Var	y-Var.	x×4	sec δ	
a	−1.92	+17.55	7.68	1.376	10.56768
b	−10.27	+19.75	41.08	1.375	56.485
c	−13.50	−1.27	54.00	1.383	74.682

fma a	17 52 40.1	−43 22.6	
	10.6	17.6	
	17 52 29.5	−43 40.2	
fma b	17 53 25.1	−43 20.4	
	56.5	19.8	
	17 52 28.6	−43 40.2	
fma c	17 53 44.1	−43 41.3	
	1 14.7	− 1.3	
	17 52 29.4	−43 40.0	

	17 52 29.5	−43 40.2	+03	−0.1
	28.6	40.2	−0.6	−0.1
	29.4	40.0	+0.2	+0.1
	5	4		
	17 52 29.2	−43 40.1	1875	
	1 48.7	− 0.3		
	17 54 17.9	−43 40.4	(1900	
H.V. 3713				
	17 54 17	−43 40.4	(1900)	

Z.C. Prec.	α	4.3479	108.6975
	δ	0.6573	16.4325

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1926phae.proj.121rw

Surf. W. & P. Mars

Regions N.G.C. 6541 Vars. 44 & 51

Var. 44 found April 4, 1927, on a pl., Bk. 23, p. 115

51 found April 6, 1927, on a pl. Bk. 23, p. 117

Meas. July 8, 1927

Orient by:

c = -42 8187

and -42 8188 9.7

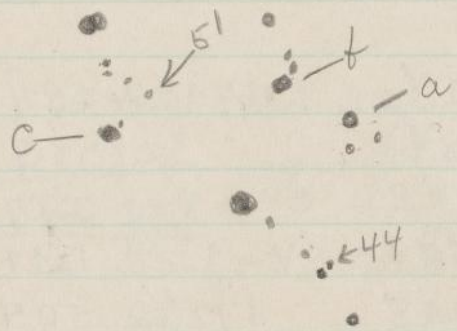
17 52 56.0 -42 47.2

and -42 8189 9.6

17 52 56.0 -42 33.7

(c and 42 8188 especially used. 3 stars not in perfect straight line)

a 5626



B 25343

a	-42 8173	17 52 25.0	-42 35.9	10.2	-3.32	+6.47
b	-42 8177	17 52 35.0	-42 34.8	10.2	-5.00	+7.52
c	-42 8187	17 52 56.0	-42 36.7	10.2	-9.00	+5.60
					-3.62	+2.30
					-3.72	+2.08
					-7.68	+7.00
					-8.30	+7.27

Var. 44

Brighter star close to 44

Var. 51

ft. star fol. 51

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Var 44 ?
51 Erred

Var. 51,		y-Var.	x×4	sec δ	
a	+ 4.36	-0.53	17.44	1.358	23.68352
b	+ 2.68	+0.52	10.72	1.358	14.55776
c	- 1.32	-1.40	5.28	1.359	7.17552

a 17 52 25.0 -42 35.9
237 0.5
17 52 48.7 -42 35.4

b 17 52 35.0 -42 34.8
14.6 0.5
17 52 49.6 -42 35.3

c 17 52 56.0 -42 36.7
7.2 1.4
17 52 48.8 -42 35.3

17 52 48.7 -42 35.4 -0.3 -0.1
52 49.6 -42 35.3 +0.6 0.0
52 48.8 -42 35.3 -0.2 0.0
0 2 1.0
17 52 49.0 -42 35.3 (1875) ✓
1 47.5025 0.3
17 54 36.54 -42 35.6 (1900 ✓
Use 37$?

Ze Prec.
α 4.3081 107.5025
δ 0.6285 15.7125

Var. 44

	x-Var.	y-Var	x×4	sec δ	
a	4.36	0.53 +0.30	+4.17	1.20	1.62960
b	2.68	0.52 -1.38	+5.22	5.52	7.49616
c	1.32	1.40 -5.38	+3.30	21.52	29.24568

a 17 52 25.0 -42 35.9
1.6 4.2
17 52 26.6 -42 40.1

b 17 52 35.0 -42 34.8
7.5 5.2
17 52 27.5 -42 40.0

c 17 52 56.0 -42 36.7
29.2 3.3
17 52 26.8 -42 40.0

17 52 26.6 -42 40.1 -0.4 -0.1
52 27.5 40.0 +0.5 0.0
52 26.8 40.0 -0.2 0.0
29 1
17 52 27.0 -42 40.0 (1875) ✓
1 47.6 0.3
17 54 14.6 -42 40.3 (1900 ✓

α 4.3033 107.5825
δ 0.6605 15.5135

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Hold for further proof

Regim N.G.C. 6541 Variable 32

Is this a faint Nova?

Of all the a plates, 2 only of July 1923 show lit bright — Sept, very ft.

a 12520 must be used for position as the 2nd plate shows Object has it close edge of film.

Found April 2, 1927, on a plates, Bk. 23, f. 110

2 plates confirm object.

Meds. July 9, 1927

Orient by

-42° 8234 102

17 55 22.0 -42 42.1

and -42° 8236 9.2

17 55 22.0 -42 6.3

-42 8235 is off edge of plate



Var near edge of film.

		x-Var	y-Var.	x x 4	sec δ	
a	-42 8215	10.2	+3.55 −1.40	14.20	1.354	19.22 680
b	-42 8221	10.0	+~~0.82~~ 1.47 +8.72	5.88	1.351	7.94388
c	-42 8223	10.2	+0.82 −3.06	3.28	1.355	4.44440

a 17 54 21.0 -42 24.5

19.2 1.4

17 54 40.2 -42 23.1

b 17 54 34.0 -42 14.4

7.9 8.7

17 54 41.9 -42 23.1

c 17 54 38.0 -42 26.3

4.4 3.1

17 54 42.4 -42 23.2

17 54 40.2 -42 23.1 -1.3 00

54 41.9 23.1 +0.4 0.0

54 42.4 23.2 +0.9 -0.1

45 4

17 54 41.5 -42 23.1 (1875)

1 47.3 -0.2

17 56 28.8 -42 23.3 (1900)

		1 yr.	25 yr.
2c Rec	α	4.2919	107.2975
	δ	0.4644	11.61

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1926phae.proj.121w

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Var. 25 found April 2, 1927 on a plate, Bb. 23, f. 109 V
" 27 " April 2, " " " " "

Region N9C
6541

Vars. 25, 27, 28, 72

Orient by:
-42 8254 10.2
17 56 31.0 -42 34.3
and -42 8255 9.2
= a

a 12533
Meas. July 12, 1927

12533 regim near north edge but plates that center regim better do not show Vars bright enough to meas.

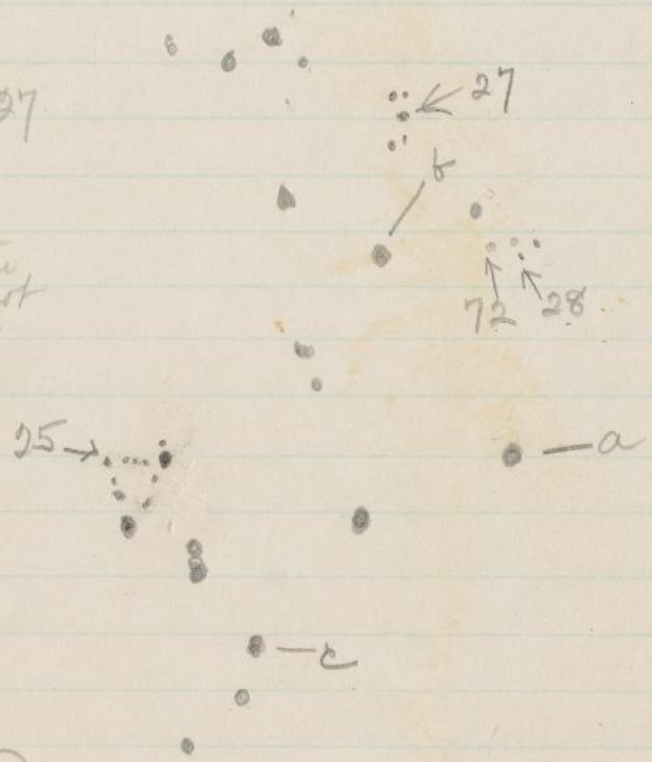


Plate as shown in drawing is slightly tilted

a is N of 25
a preced 28 & 72
27 prec. b
b S of 28 & 72

B 33856 C P D 1875

					X	Y
a	-42° 8255	17 56	31.0	-42° 21.6	9.2	-2.00 +13.00
b	-42 8260	17 56	53.5	-42 17.1	10.2	-6.50 ~~4.27~~ 17.50
c	-42 8263	17 57	1.0	-42 27.7	10.1	-7.78 6.98

Var. 25	-13.40	10.52
" 27	-6.20	21.12
" 28	-3.55	17.70
" 72	-4.18	17.98

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1926phae.proj.121...

Var. 28 fnd April 2, 1927, on 2 plates, Bk 23, p. 109
" 72 " June 10(?) " " " " 23, " 128

Var. 25	x-Var.	y-Var.	x x 4	sec δ	
a	+ 11.40	+ 2.48	45.60	1.353	61.69680
b	+ 6.90	+ 6.98	27.60	1.352	37.31520
c	+ 5.62	− 3.74	22.48	1.355	30.46040

fm a 17 56 31.0 −42 21.6
1 1.7 2.5
17 57 32.7 −42 24.1

b 17 56 53.5 −42 17.1
37.3 7.0
17 57 30.8 −42 24.1

c 17 57 1.0 −42 27.7
30.5 3.7
17 57 31.5 −42 24.0

2c Prec.
α 4.2933 107.3325
δ 0.2163 5.4075

17 57 32.7 −42 24.1 +1.0 00
57 30.8 24.1 −0.9 00
31.5 24.0 −0.2 +0.1
50 2
17 57 31.7 −42 24.1 (1875)
1 47.3 0.1
17 59 19.0 −42 24.2 (1900

Var. 27

		x x 4		
+ 4.20	− 8.12	16.80	22.73040	
− 0.30	− 3.62	1.20	1.62240	
− 1.58	− 14.34	6.32	8.56360	

fm a 17 56 31.0 −42 21.6
22.7 8.1
17 56 53.7 −42 13.5

b 17 56 53.5 −42 17.1
1.6 3.6
17 56 51.9 −42 13.5

c 17 57 1.0 −42 27.7
8.6 14.3
17 56 52.4 −42 13.4

α 4.2853 107.1325
δ 0.2732 6.8300

17 56 53.7 −42 13.5 +1.0 00
56 51.9 13.5 −0.8 00
56 52.4 13.4 −0.3 +0.1
80 14
17 56 52.7 −42 13.5 (1875)
1 47.1 0.1
17 58 39.8 −42 13.6 (1900

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1926phae.proj.121W

Var. 28

		x x 4		
+1.55	−4.70	6.20	1.353	8.38860
−2.95	−0.20	11.80	1.352	15.95360
−4.23	−10.92	16.92	1.355	22.92660

fm a 17 56 31.0 −42 21.6

8.4 4.7

17 56 39.4 −42 16.9

b 17 56 53.5 −42 17.1

16.0 0.2

17 56 37.5 −42 16.9

c 17 57 1.0 −42 27.7

22.9 10.9

17 56 38.1 −42 16.8

Z.C. Rec.

α 4.2877 107.1925

δ 0.2942 7.3550

17 56 39.4 −42 16.9 +1.3 .00

56 37.5 −42 16.9 −0.8 .00

56 38.1 −42 16.8 −0.2 +0.1

2.5.0 2.6

17 56 38.3 −42 16.9 (1875)

1 47.2 0.1

17 58 25.5 −42 17.0 (1900

Var. 72

		x x 4	
+2.18	−4.98	8.72	11.79816
−2.32	−0.48	9.28	12.54656
−3.60	−11.20	14.40	19.51200

fm a 17 56 31.0 −42 21.6

11.8 5.0

17 56 42.8 −42 16.6

b 17 56 53.5 −42 17.1

12.5 0.5

17 56 41.0 −42 16.6

c 17 57 1.0 −42 27.7

19.5 11.2

17 56 41.5 −42 16.5

Z.C. Rec.

α 4.2875 107.1875

δ 0.2891 7.2275

17 56 42.8 −42 16.6 +1.0

56 41.0 16.6 −0.8

56 41.5 16.5 −0.3

53

17 56 41.8 −42 16.6 (1875)

1 47.2 0.1

17 58 29.0 −42 16.7 (1900

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1926phae.proj.1217w

+1.3' .00
1.8 00
2.2+ 0.1
875)
700
75)
700

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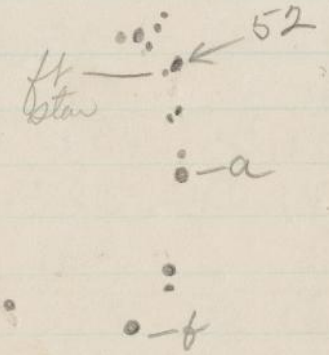
1926phae.proj.121.tw

Regim N.G.C. 6541 Vars. 45 & 52

Can be meas. from same pl. if needed

45 not fixed Found Bk 23, p. 115, April 4, 1927, a plates
52 Large range Found Bk 23, p. 117, April 6, 1927, a plates

a 12533
meas July 14, 1927



a precedes 52

Orient by:
-43° 84 68 10.0
17 0 45.7 -43 25.3
and -44 89 71 9.8
17 0 45.7 -44 7.6 ~~9.8~~

Can meas 45 from this setting, if needed

B 25343

						- x-Var	y-Var.	x x 4	sec δ	
a	-44° 89 55	17	59	49.9	-44	5.6	9.8	-052	-2,80	2.08	1.392	2
b	-44 89 60	18	0	0.2	-44	9.8	10.0	+1,27	-7.00	5.08	1.394	7
c	-44 89 67	18	0	34.2	-44	7.8	9.8	+7.55	-4.96	30.20	1.393	42

Var. 52
ft star close to Var. Fol. & South

a	17	59	49.9	-44	5.6	17	59	52.8	-44 2.8 +0.1
			2.9		2.8		59	53.1	2.8 +0.4
	17	59	52.8	-44	2.8		59	52.1	2.8 -0.6
b	18	0	0.2	-44	9.8			8.0	
			7.1		7.0	17	59	52.7	-44 2.8 (1875
	17	59	53.1	-44	2.8		1	49.1	0.0
c	18	0	34.2	-44	7.8	18	1	41.8	-44 2.8 (1900
			42.1		5.0				
	17	59	52.1	-44	2.8				

α 4.3655 109.1375
δ 0.01~~85~~ 0.2675

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1926phae.proj.1217w

plates
plates

Var-Ft star

	x	y	x x 4 reed		
Ft. star	0.10	follow. 0.40	1.391	0.55640	

Follow 0.6 y 0.2 S
Var. 52

2.89536
7.08152
42.06860

75)

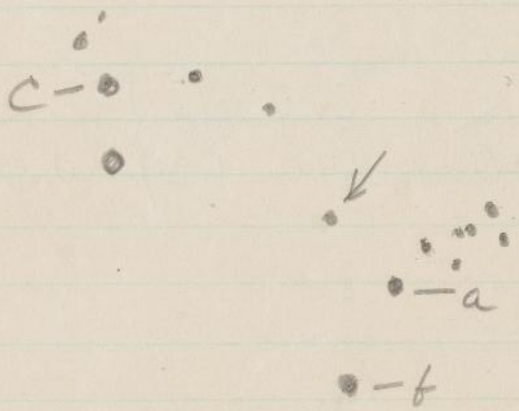
700

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1926phae.proj.121.tw

Regim N.G.C. 6541 Var. 68
Found April 16, 1927
" on A plates, Bk. 23 f. 123

A 12533
Meas July 15



Var follows b

Orient by:
-44° 8991 9.2
18 2 26.2 -44 53.3
and -44 8992 9.4
18 2 26.2 -44 51.2
which is c
These two stars are too close together for usual orientation but all the stars are close to Var.

B 25343
1875 C P D

		Magn.
a	-44° 89.81	10.0
b	-44 89.83	10.0
c	-44 89.92	9.4

			x-Var.	x x 4	sec δ
Var	fol. 2.06	V.N 1.50	8.24	1.413	
	f 0.72	V.N 4.58	2.88	1.414	
	prec 5.18	V.S 2.90	20.72	1.411	

a 18 1 46.2 -44 55.6
11.6 1.5
18 1 57.8 -44 54.1

b 18 1 53.6 -44 58.7
4.1 4.6
18 1 57.7 -44 54.1

c 18 2 26.2 -44 51.2
29.2 2.9
18 1 57.0 -44 54.1

final a 18 1 57.8 -44 54.1 +0.3
57.7 -44 54.1 +0.2
57.0 -44 54.1 -0.5
15
18 1 57.5 -44 54.1 (1875)
1 50.1 0.1
18 3 47.6 -44 54.0 (1900)

α 4.4038 110.0950
δ 0.1714 4.2850

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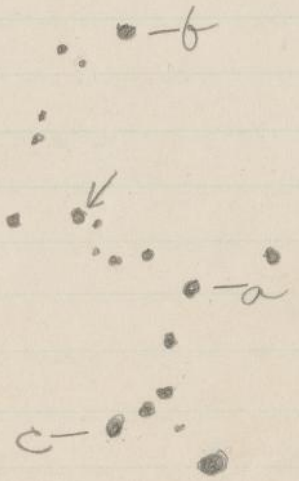
1926phae.proj.121rw

11.63488
4.07232
29.23592

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1926phae.proj.121rw

Region NGC 6541 Var. 39.
Found April 4, 1927
" on a plates, Bb. 23, f. 112



Count by:
−44° 90 27 9.4
18 5 35.2 −44 55.0
and −44 90 28 9.6
18 5 35.2 −44 34.4
which is c

a 8975
meas. July 16, 1927
Var. follows c

B 25343

	COD	Magn.	x-Var	y-Var	x × 4	sec δ	
a	−44 90.24	9.8	Var. frl. 3.20	Var N 1.30	12.80	1.402	17.9456
b	−44 90.26	10.0	" " 1.50	Var S 7.00	5.20		7.29040
c	−44 90.28	9.6	" " 0.87	Var N 5.30	6.00		8.39400
					28.00	1.399	39.172
					3.48	4	
					21.20	1.403	29.76480
							4.88592

a 18 5 23.7 −44 30.6
17.9
7.3 1.3
18 5 31.0 −44 29.3
41.6
b 18 5 31.3 −44 22.2
8.4
39.2 7.0
18 5 39.6 −44 29.2
c 18 5 35.2 −44 34.4
4.9
29.8 5.3
18 5 40.1 −44 29.1

18 5 41.6 −44 29.3 +1.2 −0.1
39.6 29.2 −0.8 00
40.1 29.1 −0.3 +0.1
13 6
18 5 40.4 −44 29.2 (1875)
1 49.6 0.2
18 7 30.0 −44 29.0 (1900

α 4.3851 109.6275
δ 0.4964 12.41

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1926phae.proj.121.tw

Regim NGC 6541 · Var. 50

Found April 5, 1927

" on b plates, Bk. 23, p. 117 Quickly:

a 12533

Meas. July 18, 1927

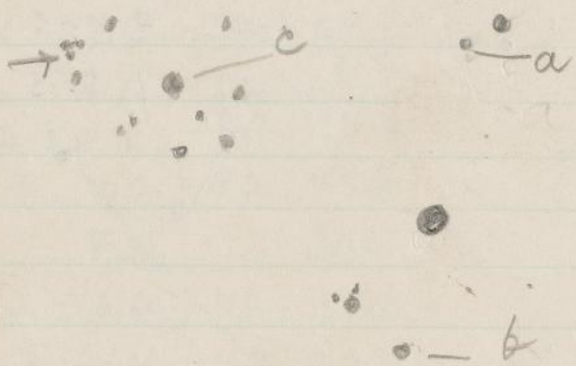
-42 8308 10.2

17 59 21.5 -42 25.4

-42 8309 9.9

17 59 21.5 -42 32.3

c Sy a



Var N of c

Var S of a

x-Var y-Var.

a	-42 8316	17 59	54.0	-42	36.8	10.2	7.90 1.00	Var f & S	31.60	1.359	42.9440
b	-42 8318	17 59	56.0	-42	44.7	10.1	7.48 7.02	Var f & N	29.92	1.362	40.7504
c	-42 8322	18 0	26.0	-42	38.3	10.2	2.02 0.74	Var f & N	8.08	1.359	10.9872

a	17	59	54.0	-42	36.8				
			42.9		1.0				
	18	0	36.9	-42	37.8	18	0	36.9	-42 37.8
b	17	59	56.0	-42	44.7			0	36.8 -42 37.7
			40.8		7.0			0	37.0 37.6
	18	0	36.8	-42	37.7				
c	18	0	26.0	-42	38.3				
			11.0		0.7				
	18	0	37.0	-42	37.6				

18	0	36.9	-42	37.8	0.0	-0.1			
	0	36.8	-42	37.7	-0.1	0.0			
	0	37.0		37.6	+0.1	+0.1			
				27	.	21			
18	0	36.9	-42	37.7			(1875)		
	1	47.6		00					
18	2	24.5	-42	37.7			(1900		

α 4.3024 107.56

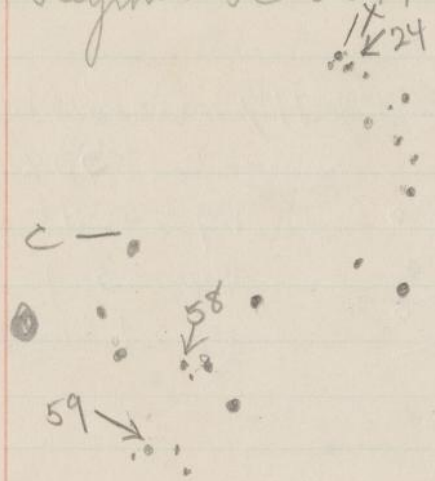
δ 0.0537 1.3425

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1926phae.proj.121rw

24 Found April 2, 1927, Bk. 23, f. 109

Regim NGC 6541 Vars. 24, 58, 59



Orient by:
-42 8308 10.2
17 59 21.5 -42 25.4
-42 8309 9.9
17 59 21.5 -42 32.3

a 12688
meas. July 18, 1927

a N of 58

24 slightly precedes b

B 25343
CPD

			Magn	X	Y	Reject sec Dec.
a -42° 8328	18 1 57.9	-42 24.6	9.4	0.96	25.10	1.354
b -42 8334	18 3 1.0	-42 48.3	9.8	11.60	0.96	1.363
c -42 8337	18 3 36.4	-42 22.7	9.8	19.50	26.50	1.358
Var. 24				10.72	31.50	
" 58				16.70	23.40	
" 59				18.50	20.75	

X, Fairly bright star fol. & N. of 24 10.92 31.88

orientation seems to be wrong. Region is on edge of circular film. Re-measure with new setting. See f 122

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1926phae.proj.121rw

59 Found April 16, 1927, Bk 23, p. 121
58 not found — 1 min. only Found April 16, 1927, Bk 23, p 121

Var. 24

	x-Var	y-Var		xx4	rec'd	repeat
	9.76	6.40	V f d N	39.04		52.86016
	0.98	30.54	V f d N	3.52		4.79776
	8.78	5.00	V f d N	35.12		47.55248

18 1 57.9 −42 24.6
52.9 6.4

18 2 50.8 −42 18.2
18 3 1.0 −42 48.3
4.8 30.5

18 2 56.2 −42 17.8
18 3 36.4 −42 22.7
47.6 5.0

18 2 48.8 −42 17.7

Var. 58

	x-Var	y-Var		xx4		
a	15.74	1.70	V f d S	62.96		85.24784
b	5.10	22.44	V f d N	20.40		27.80520
c	~~24.28~~ 7.20	3.10	V f d S	11.20		15.16480

a 18 1 57.9 −42 24.6
1 25.2

18 3 23.1

b 18 3 1.0 −42 48.3
27.8

8

c 18 3 36.4 −42 22.7
15.2

18 3 21.2

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1926phae.proj.121rw

V 59 reject

	x-Var.	y-Var		x x 4
a	17.54	4 35	V f S	70.16
b	6.90	19.79	V f S ?	27.60
c	1.00	5.75	V f S	4.00

Sketch see p 120

Use orientation:
-42 8338 9.6
18 4 0.9 -42 45.7
and -42 8339 8.4
18 4 0.9 -42 25.2

Cat stars, Coordinates

		x	y
a	see p. 120, same a, b, c.	1.08	25.50
b		13.04	1.90
c		19.50	27.80
24		10.60	32.50
58		17.00	24.50
59		18.85	22.00

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1926phae.proj.121W

Var. 24 — xx4 read ✓

a	9.52	7.00	V	N	38.08	h 120 / 1.354	51.56032
b	2.44	30.60	V	N	9.76	1.363	13.30288
c	8.90	4.70	V	N	35.60	1.354	48.20240

a 18 1 57.9 −42 24.6
5 1.6 7.0
18 2 49.5 −42 17.6

b 18 3 1.0 −42 48.3
13.3 30.6
18 2 47.7 −42 17.7

c 18 3 36.4 −42 22.7
48.2 4.7
18 2 48.2 −42 18.0

18 2 49.5 −42 17.6 +1.0 +0.2
2 47.7 17.7 −0.8 +0.1
2 48.2 18.0 −0.3 −0.2
254 23
18 2 48.5 −42 17.8 (1875)
1 47.2 0.1
18 4 35.7 −42 17.7 (1900

α 4.2883 107.2075
δ 0.2457 6.1425

Var. 58 — xx4

a	15.92	1.00	V	S	63.68		86.22272
b	3.96	22.60	V	SN	15.84		21.58992
c	2.50	3.30	V	S	10.00		13.54000

a 18 1 57.9 −42 24.6
1 26.2 1.0
18 3 24.1 −42 25.6

b 18 3 1.0 −42 48.3
21.6 22.6
18 3 22.6 −42 25.7

c 18 3 36.4 −42 22.7
13.5 3.3
18 3 22.9 −42 26.0

18 3 24.1 −42 25.6 +0.9 +0.2
22.6 25.7 −0.6 +0.1
22.9 26.0 −0.3 −0.2
9.6 2.3
18 3 23.2 −42 25.8 (1875)
47.4
1 46.9 0.1
18 5 10.16 −42 25.7 (1900

500
943 107.36 ✓
α 4.2759 106.8975
δ 0.2964 7.4100

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1926phae.proj.121rw

Var. 59 ×× 4

a	17.77	3.50	V	S	71.08	96,24232
b	5.81	20.10	V	N	23.24	31.67612
c	0.65	5.80	V	S	2.60	3.52040

a 18 1 57.9 −42 24.6
1 36.2 3.5
18 3 34.1 −42 28.1

b 18 3 1.0 −42 48.3
31.7 20.1
18 3 32.7 −42 28.2

c 18 3 36.4 −42 22.7
3.5 5.8
18 3 32.9 −42 28.5

18 3 34.1 −42 28.1 +0.9 +0.2
3 32.7 −42 28.2 −0.5 +0.1
3 32.9 28.5 −0.3 −0.2
9.7 8
18 3 33.2 −42 28.3 (1875)
1 47.4 0.8
18 5 20.6 −42 ~~27.8~~ 28.2 (1900

α 4.2957 107.3925
δ 0.3109 ~~31.0900~~ 7.8 7.7725

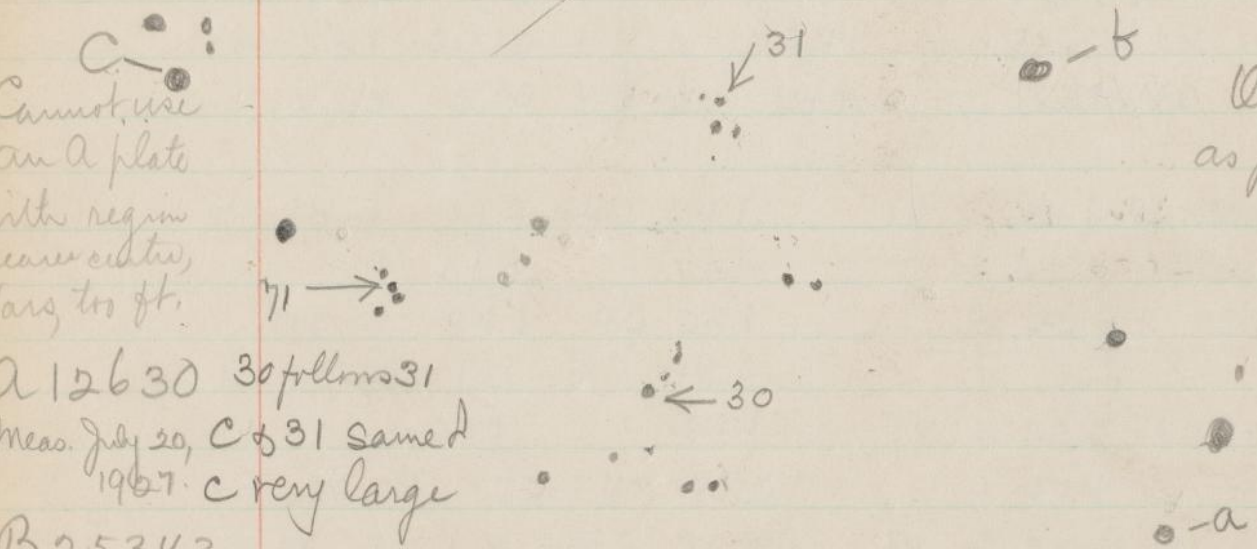
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1926phae.proj.1217W

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1926phae.proj.121TW

Regin NGC 6541. Vars. 30 & 31 ~~& 71~~ ~~Doubt 71 known?~~



Cannot use on A plate with regin near edge, Vars too ft.

Orient same as page 122

A 12630 30 follows 31
Meas. July 20, 1927 C & 31 same d
C very large

B 25343

	CPD		Magn	x	y
a	-43°	8492	10.6	4.00	2.00
b	-42	8338	9.6	7.98	16.60
c	-42	8345	9.0	30.25	14.20

a 18h 3m 38.7 -43° 0.0

Var. 30

	1m	12.7		3.9		
	18h	4m	51.4	-42°	56.1	
b	18	4	0.9	-42	45.7	
		50.8		10.4		
	18h	4m	51.7	-42°	56.4	
c	18	6	0.9	-42	48.1	
	1	10.6		8.3		
	18h	4m	50.3	-42°	56.4	

18	4	51.4	-42°	56.1	+0.3	+0.2
	4	51.7		56.4	+0.6	-0.1
	4	50.3		56.4	-0.8	-0.1
		4		9		
18h	4m	51.1	-42°	56.3	(1875)	
	1m	47.9		0.2		
18h	6m	39.0	-42°	56.1	(1900	

31	15.88	14.20
30	17.30	5.90

α	4.3152	107.8800
δ	0.4245	10.6125

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1926phae.proj.12127

30 ~~Small slight if any~~ Var, but prised (?) Found April 2, 1927, Bb.23 p.110(ap.
31 prised Found April 2, 1927, 110(ap.
71

Var. 30	x-Var	y-Var.		x×4	recd	
	13.30	3.90	V f N	53.20	1.3678	72.72440
	9.32	10.70	V f S	37.28	1.362	50.77536
	12.95	8.30	V f S	51.80	1.363	70.60340
~~a~~	~~18 3 38.7~~		~~-43 0.0~~			

Var. 31	x-Var	y-Var		x×4	
	11.88	12.20	V f N	47.52	64.95984
	7.90	2.40	V f S	31.60	43.03920
	14.37	0.00	V f = δ	57.48	78.34524

a	18 3 38.7		-43 0.0		18 4 43.7	-42 47.8 +03
	1 5.0		12.2		43.9	48.1 +05
	18 4 43.7		-42 47.8		42.6	48.1 -08
b	18 4 0.9		-42 45.7		10.2	0
	43.0		2.4		18 4 43.4	-42 48.0 (875
	18 4 43.9		-42 48.1		1 47.8	0.2
c	18 6 0.9		-42 48.1		18 6 31.2	-42 47.8 (1900
	1 18.3		0.0			
	18 4 42.6		-42 48.1			

α	4.3094	107.7600
δ	0.4133	10.3325

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1926phae.proj.121.tw

Bailey Var. prec. & N. by meas on plate,
Bailey 3.5 N,
Position given 18.0
W star about 20.0

Region NGC 6541 Vars 36
Found April 2, 1927
" on A plates, Bk 23, f 111

Meas. July 21, 1927

Orient by:
-43° 8416 10.1
18 6 30.6 -43 41.9
and -43° 8417 9.6
18 6 30.6 -43 3.9

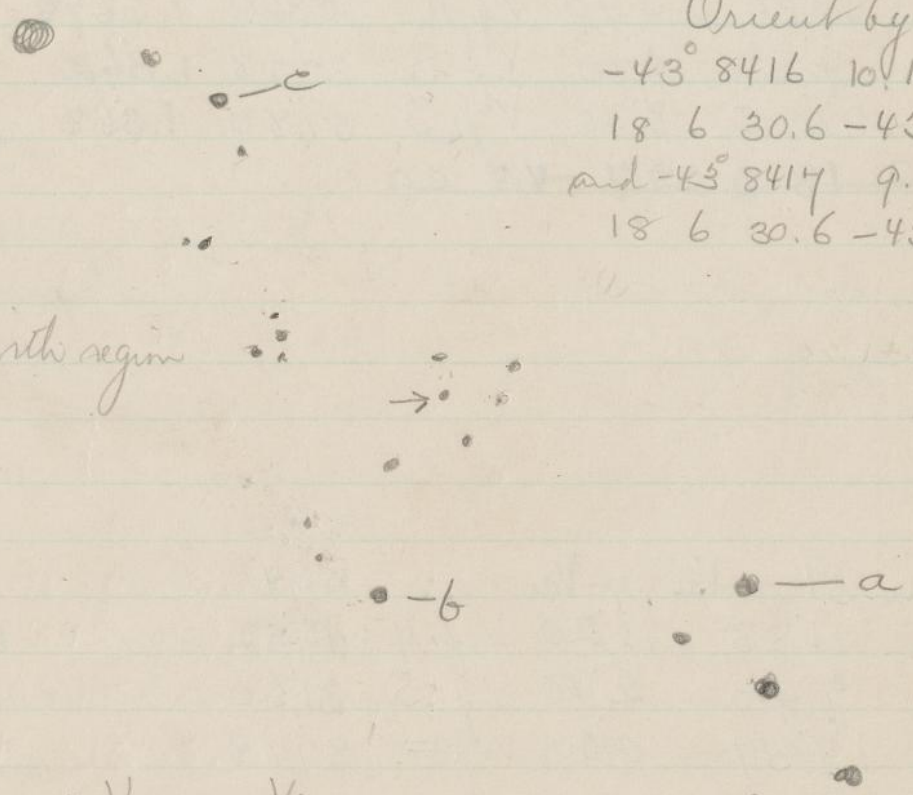
A 1982 (14x17)

a & b almost = δ

Var. very ft. but
I want 14x17 pl. with region
near center.

B 25343
CPD

a +01
b +13
c +14



			x-Var.	y-Var.		x x 4	sec δ	
a	-43° 85 01	9.6	8.96	5.70	V/S N	35.84	1.377	49.35168
b	-43 85 13	9.5	2.00	6.40	V/S N	8.00	1.377	11.016
c	-43 85 14	10.0	4.95	6.40	V/S S	23.80	1.372	32.65360

a 18 4 58.6 -43 25.2
49.4 5.7
18 5 48.0 -43 19.5

b 18 5 58.1 -43 25.9
11.0 6.4
18 5 47.1 -43 19.5

c 18 6 19.6 -43 13.3
32.7 6.4
18 5 46.9 -43 19.7

18 5 48.0 -43 19.5 +0.7 +0.1
5 47.1 19.5 -0.2 +0.1
5 46.9 19.7 -0.4 -0.1
22.0 17
18 5 47.3 -43 19.6 (1875)
1 48.3 0.2
18 7 35.6 -43 19.4 (1900

α 4.3331 108.3275
δ 0.5065 12.6625

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1926phae.proj.1217w

NGC 6541 Var. 15

Found April 1, 1927

" on A plates, Bk. 23, p. 106

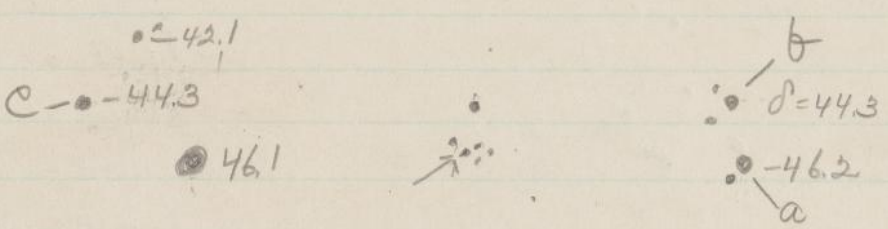
Min of δ entered

Var. is a very small image

a 12 7 6

Meas. July 21, 1924

Orient by δ of b & c



Var is slightly N of a b & c are = δ

B 25343

	CPD	Magn	x-Var	y-Var		x x 4	recd	
a	-43 8488	9.6	8.25	0.60	V/N	33.00	1.385	45.70500
b	-43 8489	9.8	8.02	1.50	V/S	32.08	1.384	44.39872
c	-43 8508	9.84	14.50	1.50	V/S	58.00	1.383	80.21400

a	18	3	18.7	-43	46.2			
			45.7		0.6			
	18	4	4.4	-43	45.6			
b	18	3	19.7	-43	44.3			
			44.4		1.5			
	18	4	4.1	-43	45.8			
c	18	5	~~28.1~~	-43	~~44.3~~			
		1	20.23		1.5			
	18	4	2.98	-43	45.8			
			4.3526		108.8150			
					8.90			
			0.3560		~~9.40~~			

18	4	4.4	-43	45.6	+0.6	+0.1		
	4	4.1		45.8	+0.3	-0.1		
	4	2.98		45.8	-0.9 (10)	-0.1		
		11.43		22				
18	4	3.8	-43	45.7			(1875)	
	1	48.8		0.1				
18	5	52.6	-43	45.6			(1900	

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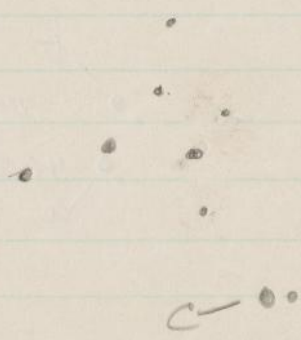
1926phae.proj.121.nw

Defect in center?

Regin NGC 6541 Var 16.

Found April 1, 1927
on 4 plates, BB 23, p. 106

a 12681
meas July 23, 1927



too near edge of film to use stars foll. var.

Printed C
ad -43 8516 10.1
18 6 30.6 -43 41.9

B11419
CPD

		x-Var	y-Var		x×4	sec δ	
a -43° 85 11	9.6	11.50	9.50	V/N	46.00	1.369	62.97400
b -42 8345	9.0	8.45	7.50	V/S	33.80	1.363	46.06940
c -43 85 17	9.6	3.15	8.40	V/N	12.60	1.368	17.24940

a 18 5 44.1 -43 5.0
1' 3.0 9.5
18 6 47.1 -42 55.5

b 18 6 10.9 -42 48.1
46.1 7.5
6 47.0 -42 55.6

c 18 6 30.6 -43 3.9
17.2 8.4
6 47.8 -42 55.5

18 6 47.1 -42 55.5 -0.2 00
47.0 55.6 -0.3 -0.1
47.8 55.5 +0.5 0.0
9 16
18 6 47.3 -42 55.5 (1875)
1 47.9 0.2
18 8 35.2 -42 55.3 (1900

α 4.3184 107.8575
δ 0.5940 14.85

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1926phae.proj.121rw

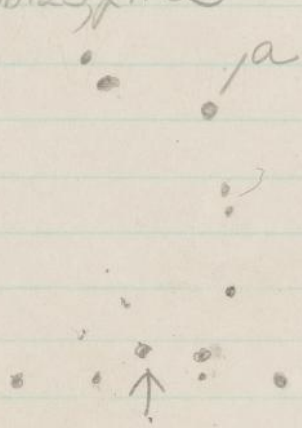
NGC 6541 Var. 6

Found March 31, 1927

4 cm a plates, Bb. 23 f. 123

a 12778

Meas. July 25, 1927.



Orient by:
-43° 8528 10.0
18 7 40.6 -43 45.0
and -43 8529 10.1
18 7 40.6 -43 19.5

Very near edge of film (following)

a precedes b
Var. very slightly follows b

8522

B 11419

	CPD		x-Var	y-Var		27	xx4	sec δ	
a	-43 8526	9.8	1.70	6.95	Vf S		6.80	1.385	9.41800
b	-43 8527	10.0	0.50	7.30	Vf N		2.00	1.390	2.78000
c	-43 8533	9.4	6.18	4.60	Vf S		24.72	1.385	34.23720

a 18 7 25.6 -43 45.7

9.4 7.0

18 7 35.0 -43 52.7

b 18 7 32.6 -43 59.9

2.8 7.3

18 7 35.4 -43 52.6

c 18 8 9.5 -43 47.9

34.2 4.6

18 7 35.3 -43 52.5

18 7 35.0 -43 52.7 -0.2 -0.1

35.4 52.6 +0.2 0.0

35.3 52.5 +0.1 +0.1

7 18

18 7 35.2 -43 52.6 (1875)

1 48.9 0.8 3v

18 9 24.1 -43 52.8 3v (1900

α 4.3571 108.9275

δ 0.6637 ~~33.1850~~ 16.59 25

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1926phae.proj.121.w

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1926phae.proj.121rw

Vars. Measured in order of position, not number

Region N.G.C. 6723 Variable No. 1

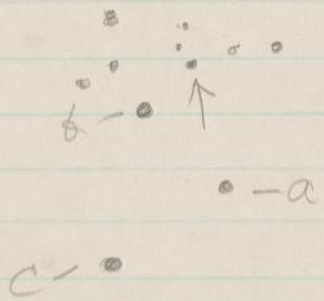
Found August 13, 1927

a 12 6 58. " on 2a plates, Bb 45, f. 98

Meas. August 29, 1927

Var. follows a

c follows t



Orient by:

b

and -36 8577 10.2

18 47 13.8 -36 4.7

B 11069

	CPD	Magn	x-Var	y-Var		x × 4	pecd	
a	-36 8576	10.1	0.80	3.20	Var follows N	3.20	1.242	3.97440
b	-36 8578	9.6	1.72	1.4	" prec. N	6.88	1.242	8.54496
c	-36 8579	9.8	2.20	5.2	" " N	8.80	1.243	10.93840

a by setting sextans slightly east in declination and in R.A. two tenths should be 23.6

Catalogue

	18 47	2.3	-36	23.4	18 47	6.3	-36	20.2 +0.6 +02
		4.0		3.2	47	5.3		20.5 -0.4 -0.1
	18 47	6.3		20.2		5.4		20.4 -0.3 0.0
						2.0		1.1
t	18 47	13.8	-36	21.9	18 47	5.7	-36	20.4 Mean (1875)
		8.5		1.4	1	40.9		1.7
	18 47	5.3		20.5	18 48	46.6	-36	18.7 (1900)

Not Imes

c	18 47	16.3	-36	25.6
		10.9		5.2
	18 47	5.4		20.4

1 yr.

ZC Pre. α 4.0353 $100^{s}.8825 = 1\ 40.9$

δ 4.0921 $102.3025 = 1\ 42.3$

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1926phae.proj.121rw

Bond

Regim 6723 Variable No. 4

Found August 13, 1927

" on 2 plates, Bk 45, p. 99

Regim 189-30 also No. 120

found Sept. 13, 1926

Bk 41, p. 70 {error neg. V

A12563

meas Aug. 29, 1927

In orienting

Var slightly preceds

Orient by

a

and

-36 8566 10.0

18 45 41.8 -36 31.9

B11069

CPD

			x-Var	y-Var		x×4	dec	
a	-36 8567	9.6	9.12	3.8	Var fol S	36.48	1.249	45.56352
b	-36 8571	10.2	0.32	4.7	" prec S	1.28	1.249	1.59872
c	-36 8580	9.4	9.78	7.6	" prec N	39.12	1.252	48.97824

✓a 18 45 41.8 -36 48.2

45.6 3.8

18 46 27.4 -36 52.0

18 46 27.4 -36 52.0 -06 -0.2

28.2 51.7 +02 +0.1

28.3 51.8 +03 00

239 55

Mean 1875

✓b 18 46 29.8 -36 47.0

1.6 4.7

18 46 28.2 -36 51.7

18 46 28.0 -36 51.8

1 41.4 1.7

18 48 9.4 -36 50.1 (1900)

Not Imus

✓c 18 47 17.3 -36 59.4

49.0 7.6

18 46 28.3 -36 51.8

4.0547 101.3675

4.0382 100.9556 = 1 41.0(-)

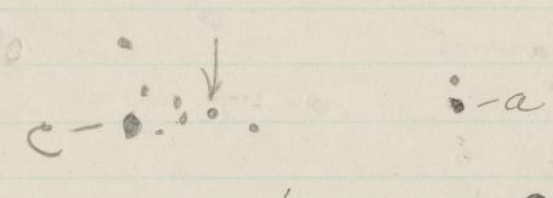
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1926phae.proj.121NW

Region NGC6723 Variable No. 3.
Found August 13, 1927
on A plates, Bb 45, f. 99

Meas. ~~A1988~~
a 12679
August 30, 1927

Var. follows t



a slightly N of c
Var " " N of c, S of a

~~Var verified as right star by~~ Reject
Var. very faint on a plate selected for measurement but no other available which shows var. near center. 8×10 plates of reg. are too close to edge for the Cat stars desired. Orient same as page 134
Stars too far off.
Orient by:
-36 8478 9.6
18 38 14.3 -36 59.1
and -36 8479 18 14.3 -36 83.0 9.0

B 11069
CPD

			x-Var	y-Var			×4	rec'd	
a	-36	8531	9.7	7.00	1.5	Var fr S	28.00	1.245	34.86000
t	-36	8536	9.4	0.92	2.6	Var fr N	3.68	1.246	4.58528
c	-36	8538	8.4	1.72	0.5	Var frc. N	6.88	1.246	8.57248

a	18	42	29.8	-36	34.2	18	43	4.7	-36	35.7 +0.1 0.0
			34.9		1.5		43	4.4		35.7 -0.2 0.0
		43	4.7	-36	35.7			4.7		35.8 +0.1 -0.1
t	18	42	59.8	-36	38.3			18		22
			4.6		2.6	18	43	4.6	-36	35.7 (1875)
	18	43	4.4		35.7			1 41.2		1.6
c	18	43	13.3	-36	36.3	18	44	45.8	-36	34.1 (1900)
			8.6		0.5					
	18	43	4.7	-36	35.8					

Not Lines

α 4.0477 101.1925
δ 3.7472 93.68 = 1 33.7

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1926phae.proj.121rw

Proof

Reject: Innes & Bády ~~but no letters~~

Regim NGC 6723 Variable No. 8 CC Sgr.

Found August 13, 1927 in Prager

" on 4 plates, Bk 45, p. 100 18 45.1 −36.2 (1875)

Meas. Aug. 30, 1927 also, No. 117, MW 18 9-30, Bk 41, p. 67 found Sept. 13, 1926

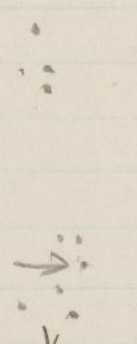
a 12563

a ft image of the Var. (about medium, as it is not seen on some plates)

Var. follows c

B 12138

CPD



Oriently:

−36 8566 10.0

18 45 41.8 −36 31.9

and −36 8567 9.6

18 45 41.8 −36 48.2

		x-Var	y-Var		4×x	sec δ	
a	−36 8557 9.6	8.90	11.0	Var fol & S	35.60	1.238	44.07280
b	−36 8558 9.4	4.88	2.9	Var fol & N	19.52	1.241	24.22432
c	−36 8560 9.6	1.20	14.0	Var fol & S	4.80	1.237	5.93760

1 a	18 44 22.5	−36 5.7		18 45 6.6	−36 16.7	+0.3	
	44.1	11.0		45 6.2	16.2	−0.1	
	18 45 6.6	−36 16.7		45 6.2	16.6	−0.1	
1 b	18 44 42.0	−36 19.1		10	15		
	24.2	2.9		18 45 6.3	−36 16.5		(1875
	18 45 6.2	−36 16.2		1 40.9	1.6		
1 c	18 45 0.3	−36 2.6		18 46 47.2	−36 14.9		(1900
	5.9	14.0					
	45 6.2	−36 16.6					

Innes (Cir 20) No. 74 18 45 2 −36 15.7 (1875

x 4.0348 100.8700

δ 3.9214 98.0350 = 1 38.0

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1926phae.proj.121rw

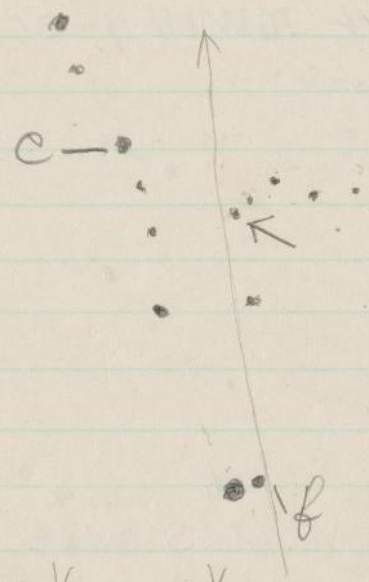
Region NGC 6723 Variable No. 13

Found August 17, 1927

" on 2 plates, Bk. 45, p. 104

A 12664

Meas. Aug. 30, 1927



Var slightly prec. b

b precedes c

a S of b

Constants as page 134

B 11069

	CPD		Magn	y-Var	y-Var		x x 4	sec δ	
a	-35	8276	9.3	7.68	9.7	Var fol N	30.72	1.234	37.90848
b	-35	8279	10.2	1.18	9.4	Var prec N	4.72	1.234	5.82448
c	-35	8281	10.0	2.60	1.7	Var prec S	10.40	1.231	12.80240

a 18 45 49.3 -35 53.3

37.9 9.7

18 46 27.2 -35 43.6

b 18 46 32.4 -35 52.9

5.8 9.4

18 46 26.6 -35 43.5

c 18 46 39.3 -35 42.0

12.8 1.7

18 46 26.5 -35 43.7

18 46 27.2 -35 43.6 +0.4

26.6 43.5 -0.2

26.5 43.7 -0.3

23 18

18 46 26.8 -35 43.6 (1875

1 40.4 1.7

18 ~~44 464~~ -35 41.9 (1900

48 07.2

4.0154 100.3850

4.0365 100.9125 = 1 40.9

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1926phae.proj.121nw

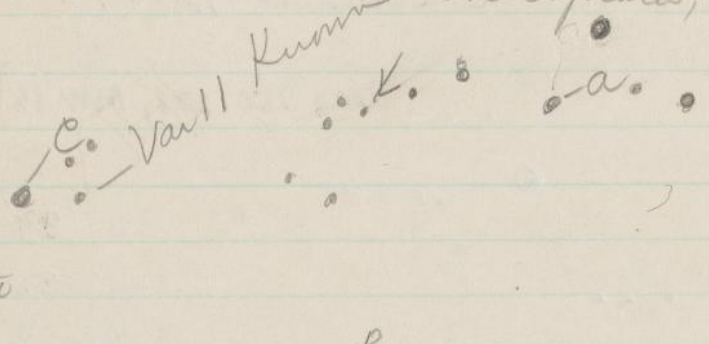
Proved Make Note of diff Bailey and Neu

Reg. NGC 6723 Variable No. 5

Found August 13, 1927

on 4 plates, Bb. 45, 1.99

Var. ft.
a 12679
chosen because
film stands
a little beyond
var. at the plate
Cat stars not
on.
a slightly N of Var



Orient by:
−37 8381 9.8
18 44 29.6 −37 32.7
and −37 8382 9.8
18 44 29.6 −37 18.7

B 11069

CPD	Magn.	x-Var	y-Var		x×4	sec δ	
a −37 8365	9.8	5.85	0.6	Var fol S	23.40	1.259	29.46060
b −37 8369	9.8	1.60	7.9	Var just N	6.40	1.262	8.07680
c −37 8374	9.2	10.30	2.6	Var just N	41.20	1.260	51.91200

a 18 42 42.1 −37 26.4
29.5 0.6
18 43 11.6 −37 27.0

b 18 43 19.1 −37 34.7
8.1 7.9
18 43 11.0 26.8

Not Lines

c 18 44 2.1 −37 29.6
51.9 2.6
18 43 10.2 −37 27.0

18 43 11.6 −37 27.0 +0.7 −0.1
11.0 26.8 +0.1 +0.1
10.2 27.0 −0.7 −0.1
18 43 10.9 −37 26.9 (1875)
1 41.9 1.6
18 44 52.8 −37 25.3 (1900)

α 4.0779 101.9475
δ 3.7562 93.9050 = 1 33.9

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1926phae.proj.121MW

140

Also 121, Bk. 41, p 71

Proved

M.W Region 189-30

Region NGC 6723 Variable 14 ~~& 15~~

No. 14 Found August 17, 1927

" on a plates, Bk. 45, p. 104

Found Sept. 13, 1926 Bk. 41, p. 71

A 12658 meas. August 31, 1927

Also No. 121, MW 189-30, Bk. 41, p. 71

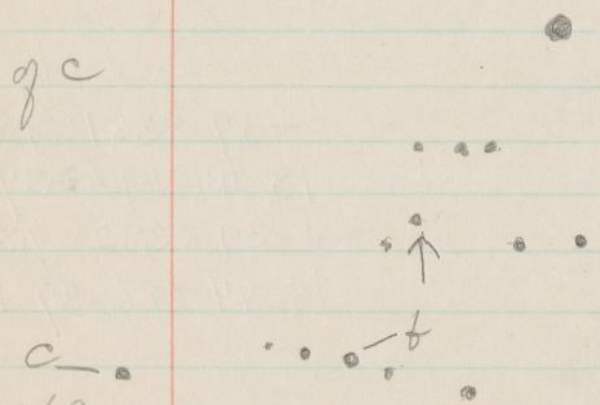
Orient by:

-37 8412 = f

and -37 8413 10.2

18 47 14.6 -37 32.5

b ngc



B11069

	CPD	Magn.	x-Var	y-Var.		x x 4		
a	-37 8400	9.8	7.50	5.2	Var for S	30.00	1.263	37.890 00
b	-37 8412	9.6	1.42	3.1	Var for N	5.68	1.265	7.18520
c	-37 8415	9.8	6.92	3.6	Var for N	27.68	1.266	35.04288

a 18 46 29.3 -37 39.4

37.9 5.2

18 47 7.2 -37 44.6

b 18 47 14.6 -37 47.8

7.2 3.1

18 47 7.4 -37 44.7

Not Lines

c 18 47 42.1 -37 48.2

35.0 3.6

18 47 7.1 44.6

18 47 7.2 -37 44.6 00 00

7.4 44.7 +0.2 +0.1

7.1 44.6 -0.1 00

7 19

18 47 7.2 -37 44.6 (1875)

1 42.1 1.7

18 48 49.3 -37 42.9 (1900

α 4.0852 102.13

δ 4.0942 102,3500 = 142.4

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1926phae.proj.121rw

Proved Confirmed ✗ Note-Variable N following of 2 close Stars
Have this checked
Variable No. 15

No. 15 Found August 17 1927
" on 2 plates, Bk 45, p. 104

a 12777
meas.
Aug. 31.

Var. slightly N of a
" " following
" Southerly C

Orient by:
-37 8399 10.0
18 46 29.3 -37 23.6
and -37 8400 9.8
18 46 29.3 -37 39.4

B 12138

	CPD	Magn	x-Var	y-Var		x×4	rec'd	
00	a -37 8389	10.2	3.10	0.1	Var fol N	12.40	1.267	15.71080
20	b -37 8391	9.8	0.48	7.1	Var fol N	1.92	1.268	2.43456
88	c -37 8394	9.7	4.40	0.7	Var prec S	17.60	1.266	22.28160

00	a	18 44 59.7	-37 51.2		18 45 15.4	-37 51.1	-0.8	-0.1
+01		15.7	0.1		16.7	50.9	+0.5	+0.1
00		18 45 15.4	-37 51.1		16.5	51.0	+0.3	00
	b	18 45 14.3	-37 58.0		6	0		
75)		2.4	7.1		18 45 16.2	-37 51.0		(1875
		18 45 16.7	-37 50.9		1 42.3	1.6		
00	c	18 45 38.8	-37 50.3		18 46 58.5	-37 49.4		(1900
	Not Lines	22.3	0.7					
		18 45 16.5	-37 51.0					

4.0906 102.2650 = 1 42.3
3.9356 98.3900 = 1 38.4

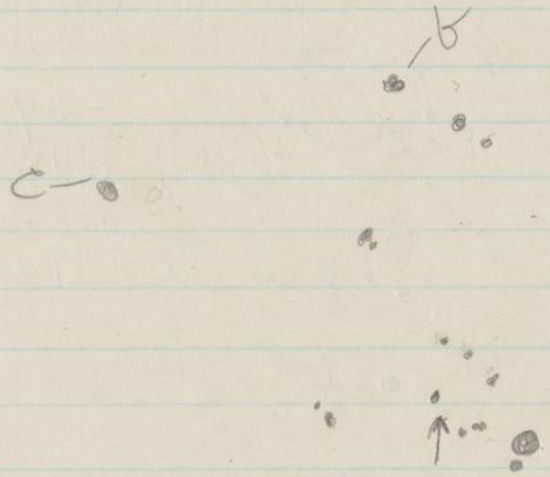
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1926phae.proj.121rw

Proof

Regin NGC 6723 Variable No. 7
Found August 13, 1927
" on A plates, Bk 45, p. 100

(14×17)
a 1988
meas Aug. 31, 1927



Orient by:

-38	7623	18	26
	7624	18	26
	7625	18	26

		x-Var	y-Var.			x×4		
a	-38 7650	10.2	5.75	6.0	Var. fol. S	23.00	1.272	29.25600
b	-38 7656	10.2	2.75	11.8	Var. prec. S	11.00	1.271	13.98100
c	-38 7658	10.2	12.18	7.2	Var. prec. S	48.72	1.272	61.97184

a	18 49 15.7	-38 11.9		18 49 45.0	-38 17.9	+0.7	-0.1	
	29.3	6.0		43.2	17.9	-1.1	-0.1	
	18 49 45.0	-38 17.9		44.7	17.7	+0.4	+0.1	
b	18 49 53.2	-38 6.1		12.9	25			
	14.0	11.8		18 49 44.3	-38 17.8			(1875)
	18 49 43.2	-38 17.9		142.6	1.8			
Not Lines c	18 50 46.7	-38 10.5		18 51 26.9	-38 16.0			(1900)
	1 2.0	7.2						
	18 49 44.7	17.7						

4.1033 102.5825 = 1 42.6
4.3182 107.9550 = 1 48.0

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1926phae.proj.121rw

Van. 16, see Bk. p.

26.2 -38 29.1 10.0
26.2 -38 28.4 9.2
26.2 -38 23.7 10.2

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1926phae.proj.127w

144

Pages 144 to Regim

Variables found MW Regim 18 9 -30 and adj

MW 18 9 -30 Variable No. 118 Note ff star almost combined with 118

No. 118 found Sept. 13, 1926

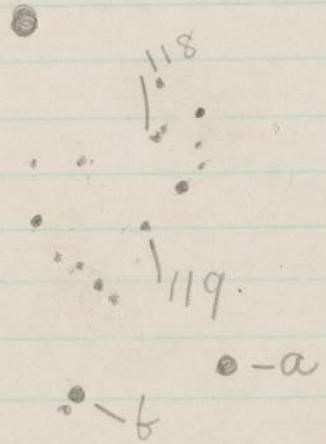
" on a plates, Bk. 41, p. 68

a 12656

Oriented by
−36 8516 = c
and
−36 8567 9.6
18 45 41.8 −36 48.2

118 precedes 119

119 almost = δ c (.1' N)



B 12138

	CPD	Magn	x-Var	y-Var	x x 4	sec δ	560
a	−36 8559	9.4	2.72	4.2	10.88	1.245	13.54 6688
b	−36 8562	10.2	1.35	5.0	5.40	1.245	6.72300
c	−36 8566	10.0	6.80	2.0	27.20	1.245	33.86400

a 18 44 54.3 −36 34.0

15.0 m a 12656

16.0 " " 12658

13.5 4.2

18 45 7.8 −36 29.8

b 18 45 14.8 −36 34.8

6.7 5.0

18 45 8.1 −36 29.8

c 18 45 41.8 −36 31.9

33.9 2.0

18 45 7.9 −36 29.9

18 45 7.8	−36 29.5	−0.1
45 8.1	29.8	+0.2
45 7.9	29.9	0.0
2.8		
18 45 7.9	−36 29.8	(1875)
1 41.1	1.7	
18 46 49.0	−36 28.1	(1900

4.0427 101.0675 = 1 41.1

4.0682 101.7050 = 1 41.7

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1926phae.proj.121rw

adj. which come in area of N.G.C. 6723

MW 18 9-30 Variable No. 119

Prov

No. 119 found Sept. 13, 1926
" on A plates, Bk. 41, p. 69

See p. 144

Var 119 follows Var 118 and is South
x y
0.35 1.9
x x .4 = 1.40

118 = (1875) 18 26 56.0 −24 13.8
1.9

15.0
15.8

119 = −24 15.7

Var	119	15.0 to 15.8 Short period

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1926phae.proj.121rw

adj. which come in area of N.G.C. 6723

MW 18 9-30 Variable No. 119

Proved No. 119 found Sept. 13, 1926
" on 4 plates, Bks. 41, p. 69

See p. 144

Var 119 follows Var 118 and is South
x y
0.35 1.9
x×.4 = 1.40

118 = (1875) 18 26 56.0 −24 13.8
1.9

119 = −24 15.7

15.0
15.8

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1926phae.proj.121MW

Regin MW 18 9-30. Variables 122 & 123

122 Found Sept. 13, 1926

" on A plates, Bb. 41, p. 72

See Luyten

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1926phae.proj.121rw

123 Found Sept. 13, 1926
" on a plates Bk. 41, f. 73

See Leyden

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1926phae.proj.121rw

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1926phae.proj.121rw

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1926phae.proj.121TW

a Nova

Not known

MW

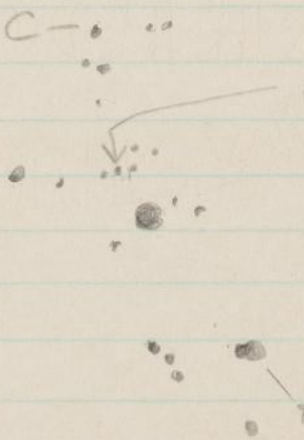
Regin 18 24-23 Object 30.

Found July 1, 1926

" on B plates, Bb. 38, f. 161

Nova of 1900-1901

H.B. 851



Assume this to be faint image of the Nova

Confirmed by Miss Cannon

a 7340

meas

Sept. 15, 1927

Difficult to adjust plate, as stars so faint.

B 1770 8

Orient by c and -21 6909 8.9

18 20 37.9 -21 25.2

	CPD	Magn.	x-Var.	y-Var.		x x 4	dec δ
a	-21 6904	9.0	10.30	50	Nova fol N	41.20	1.077 44.37240
b	-21 6906	9.6	5.00	5.5	" " N	20.00	1.077 21.54000
c	-21 6910	10.0	1.10	5.1	" prec. S	4.40	1.075 4.73000

a 18 19 49.4 -21 43.8

-21° is not in Gesell. 20 DM. positions, with Gesell, not used.

	44.4	5.0	
	18 20 33.8	-21 38.8	
b	18 20 12.4	-21 44.4	
	21.5	5.5	
	18 20 33.9	-21 38.9	
c	18 20 37.9	-21 38.9	
	4.7	5.1	
	18 20 33.2	-21 39.0	

18 20	33.8	-21	38.8	+0.2 +0.1
	33.9	-21	38.9	+0.3 00
	33.2	-21	39.0	-0.4 -0.1
	1.9		27	
18 20	33.6	-21	38.9	Mean (1875) ✓
	1' 30.0	+	0.7	✓
18 22	3.6	-21	38.2	(1900)

2C

Precession

	1 yr	25 yr
α	3.s6008	90.s0200
δ	1.''7967	44.''92

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1926phae.proj.121rw

Check from bright star close to Nova. This was not used for the meas. as image is very large.

072 fol br. star 1.0 North

−21 6908 18 20 30.4 −21 39.6 8.4

3.1 1.0

18 20 33.5 −21 38.6

0.72 × 4 = 2.88

sec −21 39.6 = 1.076

2.88 × 1.076 = 3.09888

1875

18 20 33.5 −21 38.6 fm br star

1900

18 22.0 −21 39 br. star from D. Cat.

18 22.F −21 38 Obj. fm D E W position

obj. follows & N. of Bright star

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1926phae.proj.121rw

152 H3851

a Nova ?

Regm MW 1824-23 Object No. 7

Found April 30, 1926

" on MF Plates, Bk. 37, f. 88

Fortunately erred by a fl. bright, not Nap.

Nova of 1924

a 12996

a North y e

b fuc. Var.

Meas. Sept. 16, 1927 e

B30866

Orient by

-25 6505 10.0

18 17 55.0 -25 8.0

-25 1506 9.6

18 17 55.0 -25 44.8

			x-Var.	y-Var.
a =	-25	6487 9.2	13.70	10.2
b =	-25	6493 9.0	1.02	10.7
c =	-25	6499 9.6	15.50	12.8

a 18 14 14.0 -25 48.3

1 0.9 10.2

18 15 14.9 -25 38.1

b 18 15 10.0 -25 27.7

4.5 10.4

18 15 14.5 -25 38.4

C 18 16 23.5 -25 50.9

1 8.9 12.8

18 15 14.6 -25 38.1

	x×4	sec δ	
Nafol N	54.80	1.1107	60.88280
Nafol S	4.08	1.1078	4.52064
Nfuc N	62.00	1.111	68.88200

18 15 14.9 -25 38.1 +0.2

14.5 38.4 -0.2

14.6 38.1 -0.1

20 6 Mean

18 15 14.7 -25 38.2 1875

1 32.8 + 0.6

18 16 47.5 -25 37.6 (1900)

2C Precession

	1 yr	25 yr.
α	3.7126	92.8150
δ	1.3330	33.3250

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1926phae.proj.12176

$1^{mm} = 60'' = 1''$

b large image

+0.1
−0.2
+0.1

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1926phae.proj.127w

154

Remeasured, p. 166.

MW

Regm 18 24 – 23 Object 151 ~~154~~

Found August 3, 1926 " on a plate, Bk. 40, p. 78.

these might be mistaken for Var

no other pair nearer and on a photo. reg. Orient by:

-24 6443 9.0

18 25 57.0 -24 8.2

-24 6444 9.0

18 25 57.0 -24 9.9

~~A 8370~~ A 12062 8X10

Remeasured

Meas. ~~October~~ 1927

Several faint stars not needed but on a plate showing Var. at max.

Orientation probably not as good as could be used on 14x17 plate.

Used on 14x17 plate

Orient by:

+25 6610 9.2

off edge 18 39 36.0 -25 8.2

a plate -25 6611 8.8

18 39 36.0 -25 20.7

B 17834

CPD	Magn.	~~x x 4~~ x-Var	y-Var.	x x 4 sec δ	x x 4	
a -24 6477	10.2	14.35	6.8 Varfls	1.103	57.40	63.31220
b -24 6478	9.1	9.27	13.3 Varfls	1.102	37.08	40.86216
c -25 6583	9.6	10.10	5.4 Varfrn	1.104	40.40	44.60160

a 18 30 54.7 -24 55.8

63.3 6.8

18 31 58.0 -25 2.6

b 18 31 15.5 -24 48.8

40.9 13.3

18 31 56.4 -25 2.1

c 18 32 45.4 -25 6.4

44.6 5.4

18 32 00.8 -25 1.0

18 31 58.0 -25 2.6 -0.4 -07

31 56.4 -25 2.1 -2.0 -0.2

32 0.8 -25 1.0 ~~+1.6~~ 3.4 +0.4

252 57

18 31 58.4 -25 1.9 (1875)

1 32.3 1.2

18 33 30.7 -25 0.7 (1900)

See f 166

AW Is this too much deration?

2c Prec. α 3.6905 92.2625

δ 2.7887 69.7175 = 1' 9.7"

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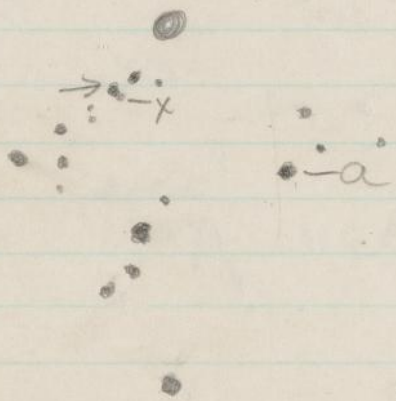
1926phae.proj.121cw

Already Estimates range & other plates
am by Dr Luyten in 1927 Bb. 46, f. 32

HB

Ft star prec. 0.8 S 0.1
Faint stars on a12597
Regim 1824 -23

Object No. 155
Found August 3 1926
" on a plates, Bb. 40, f. 77



a12657
meas. Oct. 31
1927

b slightly f/ a

Orient by
-25 6523 4.7
18 20 15.2 -25 29.2
and -25 6524 9.0
18 20 15.2 -25 45.3

Not using 2
very br. stars
that are nearer but
images very large on
a plates

Very ft star x just
prec. & S of Var.

	Magn	x-Var	y-Var		x×4	sec δ	
B 17834							
~~Cp. D~~							
a -25 6527	9.6	4.42	1.8	Var fol. N	17.68	1.105	19.53640
b -25 6528	9.5	4.40	11.9	" " N	17.60	1.107	19.48320
c -25 6536	9.6	11.85	6.7	Var prec. N	47.40	1.106	52.42440

(1875)
a 18 21 1.7 -25 11.1

		19.5	1.8	18 21	21.2	-25 9.2	-0.2 -0.2
S 0.1	18	21	21.2 -25 9.2		22.7	9.1	+1.3 -0.1
prec.					20.3	8.8	-1.1 +0.2
0.18×4	b 18	21	3.2 -25 21.0		42	1	
0.72		19.5	11.9	18	21	21.4 -25 9.0	(1875)
sec δ Var	18	21	22.7 -25 9.1		1	32.4	0.8
1.005	c 18	21	12.7 -25 15.5	18	22	53.8 -25 8.2	(1900)
= 0.7956 0		52.4	6.7				
	18	21	20.3 -25 8.8				

Var
18 21 21.4 -25 9.0
0.8 0.1

18 21 20.6 -25 9.1 (1875)
faint star.

	1 yr.	25 yr.
Prec. Z.C. α	3.6972	92.4300
δ	1.8660	46.6500

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1926phae.proj.1217w

HB855

154

Region 18 24-23 Object ~~153~~

Var. found August 3, 1926 to measure from:
" " and plates, Bb 40, p 76

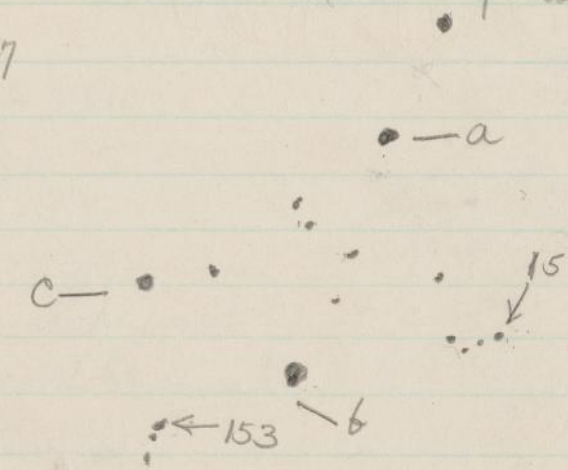
Image of 154 is better

meas. Oct 31, 1927
a 8370

153 just
perc. c

154 Nght

B 17834



Orient same as p. 155

		Magn.	x-Var	y Var		x x 4	seed	
a -25	6557	9.0	3.30	7.1	Var prec S	13.20	1.106	14.59920
b -25	6558	9.5	6.95	~~2.2~~ 0.6	Var prec N	27.80	1.107	30.77460
c -25	6563	9.4	11.92	~~3.2~~ 2.2	Var prec S	47.68	1.106	52.78176

C.P.D.

a 18 25 22.7 -25 16.2
14.6 7.1
18 25 8.1 -25 23.3

b 18 25 38.7 -25 23.8
30.8 0.6
18 25 7.9 -25 23.2

c 18 25 59.5 -25 20.9
52.8 2.2
18 25 6.7 -25 23.1

18 25 8.1 -25 23.3 +0.5 -0.1
7.9 23.2 +0.3 0.0
6.7 23.1 -0.9 +0.1
22.7 6
18 25 7.6 -25 23.2 (1875)
1 32.6 0.9
18 26 40.2 -25 22.3 (1900)

		1 yr	25 yr.
2C Prec.	α	3.7029	92.5725
	δ	2.1942	54.8530

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1926phae.proj.12176w

Object ~~154~~ 153

HB 854

Var. found August 3, 1926
" " on 4 plates, Ch. 40, p. 75

See p. 156

from 154 153 fol. 6 S of 154

11.22 3.21

xx 4	~~dec~~ δ	
44.88	1.107	49.68216

Var 154 18 25 7.6 −25 23.2 (1875)
49.7 3.1

Var 153 18 25 57.3 −25 26.3 (1875)
1 32.0 0.9
18 27 29.3 −25 25.4 (1900)

α	3.6493	91.9825
δ	2.2663	56.6575

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1926phae.proj.121rw

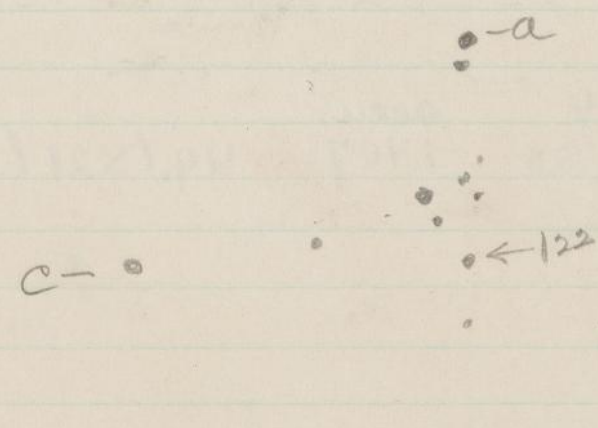
See, also, f. 83.

Region 18 24 -23
very near NGC 6656
but not in Hagfield

Var. 122
Found July 27, 1926
" on A plates, Bk. 40, f. 44

HB 854

a 12349 (8x10)
darks plate
but shows Var
best for meas
meas. Nov. 3, 1927.
Var slightly prec a
a prec b
Var only 0.1 NGC



Oriently:
-24 6433
18 24 24.8 -24 15.6

-25 6551
18 24 24.7 -25 16.8

B17834		x-Var	y-Var
a -24	6453	10.2	0.35	7.0
b -24	6454	9.8	2.27	8.8
c -24	6459	10.2	8.48	0.1

			x x 4 sec δ	
Var prec S	1.40	1.096	1.53440	
Var prec N	9.08	1.098	9.96984	
Var prec N	33.92	1.097	37.21024	

a 18 27 59.0 -24 8.0
1.5 7.0
18 27 57.5 -24 15.0

18 27 57.5 -24 15.0 +0.2 -0.1
27 57.5 14.9 +0.2 00
27 57.0 14.8 -0.3 +01
10 27

Val δ mean or from c 14.8?

b 18 28 7.5 -24 23.7
19.0 8.8
18 27 57.5 -24 14.9

18 27 57.3 -24 14.9 (1875)
1 31.8 1.0
18 29 29.1 -24 13.9 1900

c 18 28 34.2 -24 14.9
37.2 0.1
18 27 57.0 -24 14.8

		1 yr.	25 yr.
2C Prec	α	3.6700	91.75
	δ	24401	61.0050 =
			1 1.0

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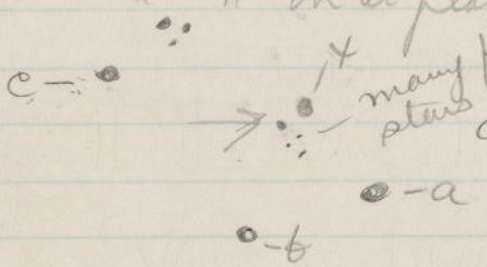
1926phae.proj.121rw

a8370 14.5
a3699 < 15.5
is probably a trifle on this plate perhaps 16.0 or 16.5

Var. 156

HB 854

Var Found August 3, 1926
" " on A plates, Bk. 40, f. 78



a 8370
meas Nov. 3, 1927.

Orient by:
-25 6523 4.7
18 20 15.2 -25 29.2

-25 6524 9.0
18 20 15.2 -25 45.3

CPD

B 1783	4	mag	x-Var	y-Var.		x×4	sec δ	
a -25 6547		8.6	2.30	1.8	Var fol N	9.20	1.110	10.21200
b -25 6550		9.1	3.80	3.9	Var prec N	15.20	1.111	16.88720
c -25 6554		9.6	8.35	1.6	Var prec S	33.40	1.110	37.07400

a 18 23 56.2 -25 46.5

		10.2	1.8		18	24	6.4	-25 44.7 +0.1 -0.1
18	24	6.4	-25 44.7			24	6.8	44.5 +0.5 +0.1
b 18	24	23.7	-25 48.4			24	5.6	44.5 -0.7 +0.1
		16.9	3.9			8	.17	
18	24	6.8	-25 44.5		18	24	6.3	-25 44.6 (1875)
c 18	24	42.7	-25 42.9			1	32.8	0.9
		37.1	1.6		18	25	39.1	-25 43.7 (1900)
18	24	5.6	-25 44.5					

		1 yr.	25 yr.
2C Prec	α	3.7136	92.84
	δ	2.1053	52.6325

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1926phae.proj.121.tw

Region 18 24 -23

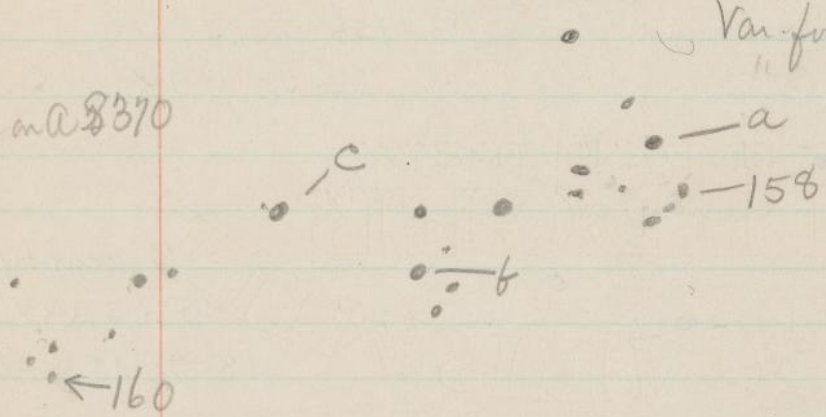
Var. 158

HB 854.

Var found August 3, 1926
on A plates, Bk. 40, f. 80

Orient by:
-26 6557 9.4
18 40 6.0 -26 6.2
-26 6558 9.5
18 40 6.0 -26 22.7

Var 158 from A 8370



A 8370
meas. Nov. 4, 1927

		Magn.	x-Var	y-Var.		x x 4	2 cc d	
a	-26 6535	9.8	1.48	2.0	Var prec S	5.92	1.115	6.600 80
b	-26 6539	9.5	9.90	4.9	Var prec N	39.60	1.116	44.193 60
c	-26 6541	9.4	16.78	1.9	Var prec N	67.12	1.116	74.905 92

a	18 35 36.8	-26 17.0		
	6.6	2.0		
	18 35 30.2	-26 19.0	18 35 30.2	-26 19.0 +0.6 00
b	18 36 13.8	-26 23.9	35 29.6	19.0 0.0 00
	44.2	4.9	35 28.9	19.1 -0.7 -0.1
	18 35 29.6	-26 19.0	28.7	
c	18 36 43.8	-26 21.0	18 35 29.6	-26 19.0 (18+75
	1 14.9	1.9	1 33.1	1.3
	18 35 28.9	-26 19.1	18 37 2.7	-26 17.7 (1900)
				1.6

		1 yr.	25 yr.
2c Prec	α	3.725 L	93.140 0
	δ	3.093 4	77.335 0 =
			1 17.3

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1926phae.proj.1217w

HB855

Van. 160

Van. found August 4, 1926
" on Astrolabe, Bk. 49, p. 82

See f. 160.

Van 160 fol 158 & S

x	y	x x 4	sec d	
24.95	8.0	99.80	1.116	111.37680

Van 158	18 35	29.6	-26	19.0	1875
	1	51.4		8.0	
Van. 160	18 37	21.0	-26	27.0	(1875)
	1	33.2		1.4	
	18 38	54.2	-26	25.6	(1900)

z.c.

Prec.	1 yr.	25 yr.
α	3.7286	93.2150
δ	3.2538	81.3450 =
		1 21.3

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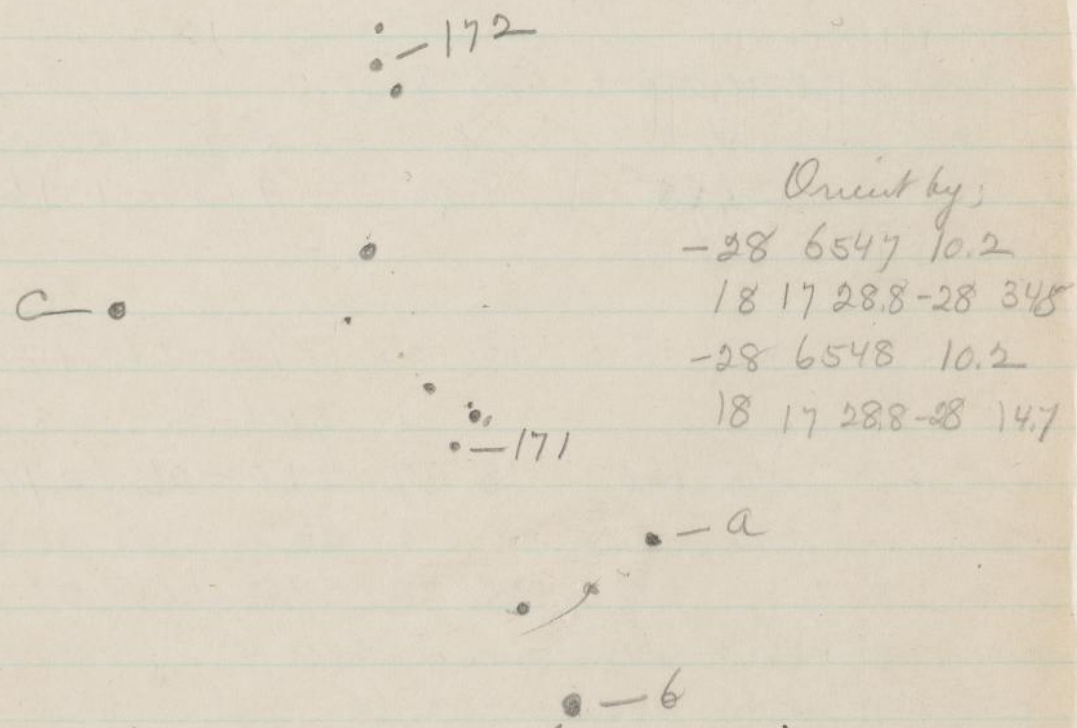
1926phae.proj.121rw

Reg. 18 24-23

A 2752
Meas.
Nov. 7, 1927

Var. 171 HB 854

171 found August 4, 1926
on a plates, Bk. 40, p. 93



B 11761

CPD	Magn	x-Var	y-Var.
a -28°65'66	9.6	8.30	2.0
b -28 6568	8.3	4.00	8.6
c -28 6573	9.6	14.30	4.9
a	18 19	51.8	-28 20.9
		37.7	2.0
	18 20	29.5	-28 18.9
b	18 20	10.3	-28 27.3
		18.2	8.6
	18 20	28.5	-28 18.7
c	18 21	31.8	-28 14.0
	1	4.9	4.9
	18 20	26.9	-28 18.9
	1 yr	25 yr	
Zc Rec.	α 3.7896	94.74	
	δ 1.7889	44.7225	

xx4 recd

Var fol N	33.20	1.136	37.71520
Var fol N	16.00	1.137(46)	18.19200
Var rec S	57.20	1.135(04)	64.92200

18 20	29.5	-28 18.9	+1.2	-0.1
20	28.5	18.7	+0.2	+0.1
	26.9	18.9	-1.4	-0.1
	24.9	25		
18 20	28.3	-28 18.8		(1875)
	1' 34.7	0.7		
18 22	3.0	-28 18.1		(1900)

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1926phae.proj.1217w

Var. 172 a little far off from 171 but meas. with same Catalogue Stars.

Sketch, See p. 162

172 found August 4, 1926 on 2 pl., Bk. 40, p. 94

172 fols. 171 "

	x-Var.	y-Var	xx4	sec 171	
	1.65	19.2	6.60	1.136	7.49760

171 = 18 20 28.3 −28 18.8 (1875)
7.5 19.2

172 = 18 20 35.8 −27 59.6 (1875)
1 34.5 +0.7

18 22 10.3 −27 58.9 (1900)

α	3.7799	94.4975
δ	1.7999	44.9975

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1926phae.proj.1217w

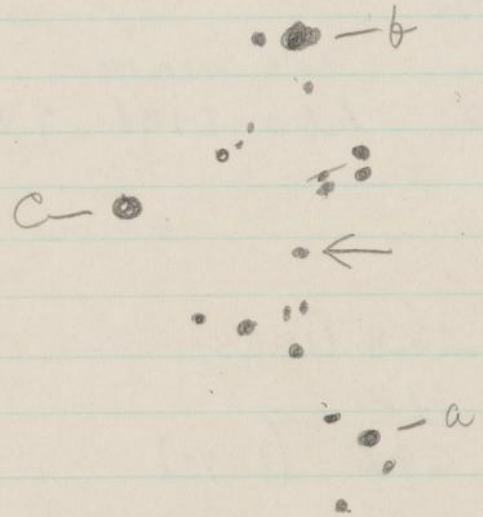
HB 859

Var 253

This is probably Innes' Variable. See Note, Bk 40, p. 186.

Found (intentionally) November 7, 1927.

a 2605 14.0
a 2752 [17.0



Orient by
-27 6403 9.2
18 18 2.8 -27 55.2
-27 6404 10.2
18 18 2.8 -27 17.2

B 11761
CPD

	Magn	x-Var	y-Var
a -27 6417	10.2	1.35	4.7
b -27 6419	9.9	0.77	7.4
c -27 6421	8.8	6.55	2.5

a 18 20 2.8 -27 49.5
6.1 4.7
18 20 8.9 -27 44.8

b 18 20 12.3 -27 37.4
3.5 7.4
18 20 8.8 -27 44.8

c 18 20 38.3 -27 42.4
29.6 2.5
18 20 8.7 -27 44.9

xx4 rec'd

Var fol. N	5.40	1.131	6.10740
" prec S	3.08	1.129	3.47732
" " S	26.20	1.129	29.57980

18 20 8.9 -27 44.8 +0.1 00
20 8.8 -27 44.8 0.0 06
20 8.7 -27 44.9 -0.1 -0.1
24
18 20 8.8 -27 44.8 (1875)
1 34.3 0.7
18 21 43.1 -27 44.1 (1900)

Innes No. 8

2C Prec. α 37733 94.3325
δ 1.7606 44.0150

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1926phae.proj.121rw

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1926phae.proj.121.nw

Reg
18 24 23

HB 854

Object 151 remeasured on 14x17 plate

Sketch, etc., f. 154

a 8370
14x17

Probably reject f. 154.

Using ommitation of nearer stars, see f. 154.

	x-Var	y-Var	x x 4	rec'd	
a	14.80 f	5.8 s	59.20	1.103	65.29760
b	10.20 f	12.7 s	40.80	1.102	44.96160
c	10.28 f	4.8 N	41.12	1.104	45.39648

a 18 30 54.7 −24 55.8
1 5.3 5.8

18 32 00.0 −25 1.6

b 18 31 15.5 −24 48.8
45.0 12.7

18 32 00.5 −25 1.5

c 18 32 45.4 −25 6.4
45.4 4.8

18 32 00.0 −25 1.6

18 32 0.0 −25 1.6 −0.2 00
32 0.5 −25 1.5 +0.3 +0.1
32 0.0 −25 1.6 −0.2 00

0.5

18 32 0.2 −25 1.6 (1875)
1 32.3 1.2

18 33 32.5 −25 0.4 (1900)

(43)

1 1 32.6 1.0

ZC Prec. α 3.6903 92.2575
δ 2.7913 69.7825 = 1' 9".8

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1926phae.proj.121rw

Var. 173

HB 854

Var. found August 4, 1926

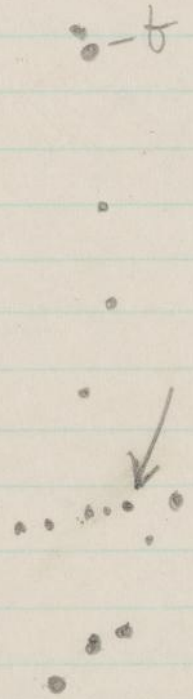
" " on a plates, Bk. 40, p. 95

a 8370

meas. Nov. 12, 1927.

Var pric. b

b pric. c



Orient by:

−28 6596 9.4

18 26 53.6 −28 43.1

−28 6597 9.4

18 26 53.6 −28 45.6

not enough difference in δ but these are nearest stars for orientation

B 11761

	CPD	Mag	x-Var.	y-Var		x × 4	Rec δ		
a	−27 6441	9.6	13.30	3.7	Var. fols. N	53.20	1.132	60.22240	
b	−27 6448	10.0	0.78	20.0	Var pric S	3.12	1.128	3.51936	
c	−28 6585	9.0	4.60	20.1	Var pric S	18.40	1.124	20.68160	
a	18 23	29.8	−27	56.0					
		1	0.2	3.7		18 24	30.0	−27 52.3	0.0 0.0
	18	24	30.0	−27	52.3		30.0	52.6	0.0 −0.3
b	18	24	33.5	−27	32.6		29.9	51.9	+0.1 +0.4
			3.5		20.0			8	
1 yr.	20 yr.	25					29.9		
α 3.7757	94.39		18 24	30.0	−27 52.6	18	24 30.0	−27	52.3 (1875)
δ 2.1397	53.4925	c	18 24	50.1	−28 12.0		1 34.4		0.9
				20.1					
			18 24	29.8	−27 51.9	18	26 4.4	−27	51.4 (1900)

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1926phae.proj.121TW

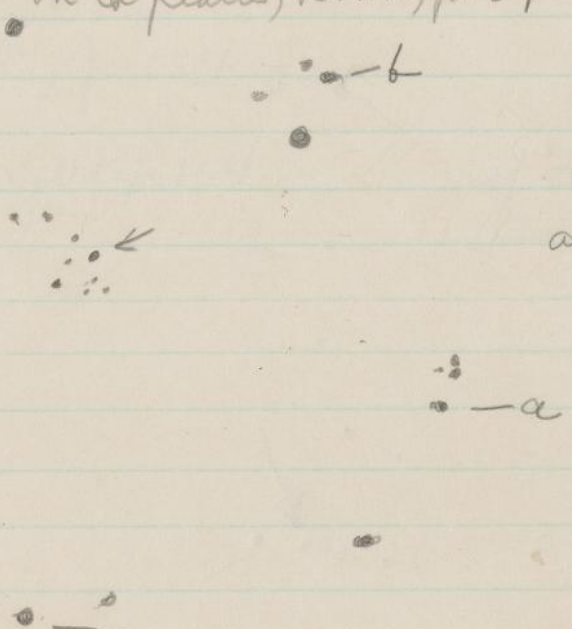
~~Note of faint stars near?~~ ✓

Reg. 18 24-23 Var. 165 HB 854

Found Aug 4, 1926

" on 2 plates, Bk. 40, p. 87

a 2752



Orient by
-26 6488 9.5
18 24 24.4 -26 54.7
and -26 6489
= b

B 23665 CPD	Magn	x-Var.	y-Var.		xx4	recd	
a -26 6486	9.1	16.52	5.8	Var fol N	66.08	1.120	74.00960
b -26 6489	10.2	11.97	8.8	Var fol S	47.88	1.118	53.52984
c -26 6498	8.8	5.82	17.1	Var pre N	23.28	1.122	26.12016

a 18 24 3.4 -26 46.1
1 14.0 5.8
18 25 17.4 -26 40.3

b 18 24 24.4 -26 31.6
53.5 8.8
18 25 17.9 -26 40.4

c 18 25 43.7 -26 57.6
26.1 17.1
18 25 17.6 -26 40.5

18 25 17.4 -26 40.3 -0.2 +0.1
25 17.9 40.4 +0.3 0.0
25 17.6 40.5 0.0 -0.1
19 12
18 25 17.6 -26 40.4 (1875)
1 33.5 0.9
18 26 51.1 -26 39.5 (1900)

133.3

	1 yr.	25 yr.
Z.C. Prec.	α 3.7405	93.5125
	δ 2.2087	55.2175

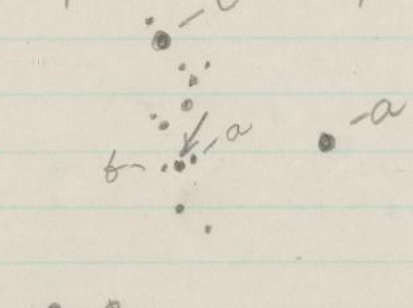
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1926phae.proj.121rw

*"slightly" = about 0.05 or less

Note 2 ft stars
a prec. 0.05 slightly N 0.20 S 0.22
b fol 0.08 slightly S 0.32 0.348
Sec Var = 1.088

Var. 111
Found July 27, 1926
" on 2 plates, Bk 40, p. 33.



A 12061
Meas.
Dec. 5, 1927

Var. prec b

Orient by:
-23 7156 10.4
18 29 46.5 -23 22.0
-23 7157 8.4
18 29 46.5 -23 42.9

CPD -23 B23665 Magn x-Var y-Var

a	-23 7145	9.1	5.55	0.8	Var fol. S	2.220	1.088	24.15360
b	-23 7150	9.2	0.50	2.7	Var prec S	2.00	1.088	2.17400
c	-23 7152	10.0	2.95	5.0	Var prec. N	11.80	1.088	12.83840

a 18 28 23.5 -23 9.9
24.2 0.8
18 28 47.7 -23 10.7

b 18 28 50.0 -23 8.1
2.2 2.7
18 28 47.8 -23 10.8

c 18 28 59.5 -23 15.4
12.8 5.0
18 28 46.7 -23 10.4

	xx4	sec δ	
	18 28 47.7	-23 10.7	+03 -01
	47.8	10.8	+04 -0.2
	46.7	10.4	-0.7 +0.2
	42	19	
2c	18 28 47.4	-23 10.6	(1875)
CPD Prec	31.2	1.0	
	18 30 18.4	-23 9.6	(1900

1 yr 25 yr
α 3.6402 91.0050
2C δ 2.5126 62.8150
Prec. 12.8

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1926phae.proj.1217w

Note

Var. 169

HB 854

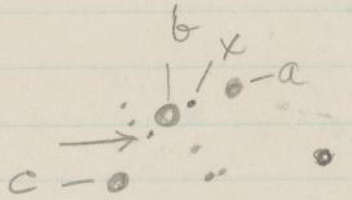
Region 18 24 -23

Found August 4, 1926

" on A plates, Bk. 40, f. 91

A8370

meas. Nov. 29, 1927



Var follows
" S of b

Orient by:
-27 6403 9.2
18 18 2.8 -27 55.2
-27 6404 10.2
18 18 2.8 -27 17.2

***

Make note of diff
of b and perhaps
of x

B 19580

*Image of b
rather large

	C.P.D.	Magn.	x-Var.	y-Var.		x x 4	sec δ	
a	-27 6396	10.2	2.56	1.1	Var fol S	10.24	1.127	11.54048
b	-27 6397	8.6	0.32	0.4 or 0.5 *	Var fol S	1.28	1.127	1.44256
c	-27 6398	8.8	1.32	1.7	Var prec N	5.28	1.127	5.95056

a 18 17 37.4 -27 27.7

11.5 1.1

18 17 48.9 -27 28.8

b 18 17 46.9 -27 28.3

1.4 0.5

18 17 48.3 -27 28.8

c 18 17 54.4 -27 30.3

6.0 1.7

18 17 48.4 -27 28.6

18 17 48.9 -27 28.8 +0.4 -0.1

17 48.3 28.8 -0.2 -0.1

17 48.4 28.6 -0.1 +0.1

16 22

18 17 48.5 -27 28.7 (1875)

1 34.1 0.6

18 19 22.6 -27 28.1 (1900)

	1 yr.	25 yr.
Z.C. Prec. α =	3.7658	94.1450
δ =	1.5567	38.9175

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1926phae.proj.121rw

Var. 103 H13854

Found July 24, 1926

" on plates, Bk. 40, p. 25

Oriently

-21 6964 = c

and

-21 6965 8.6

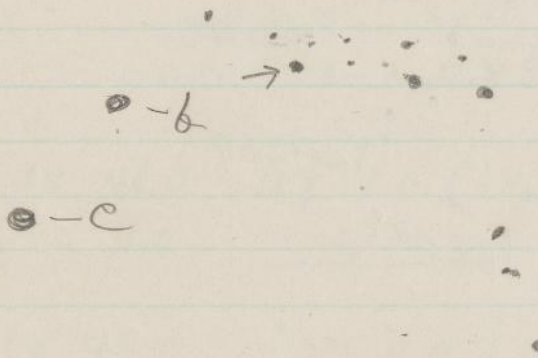
18 29 32.1 -21 45.1

a

a 1837

meas. Nov. 30

b n q a



B17834

CPD		x-Var	y-Var
a -21 6953	9.8	11.32	2.9
b -21 6962	9.6	3.72	0.9
c -21 6964	9.6	6.65	3.6

	x×4	sec δ	
Var fr plate N	45.28	1.072	48.54016
Var prec N	14.88	1.072	15.95136
Var prec N	26.60	1.072	28.51520

a 18 28 15.5 -21 7.9

48.5 2.9

18 29 4.0 -21 5.0

b 18 29 19.1 -21 6.1

16.0 0.9

18 29 3.1 -21 5.2

c 18 29 32.1 -21 8.8

28.5 3.6

18 29 3.6 -21 5.2

18	29	4.0	-21	5.0	+0.4 +0.1
	29	3.1		5.2	-0.5 -0.1
	29	3.6		5.2	0.0 -0.1
18	29	3.6	-21	5.1	(1875)
	1	29.6		1.1	
18	30	33.2	-21	4.0 ✓	(1900)

		1 yr	25 yr.
2C Pre.	α	3.5836	89.59
	δ	2.5360	63.40

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1926phae.proj.1217w

Var 168 HB 857

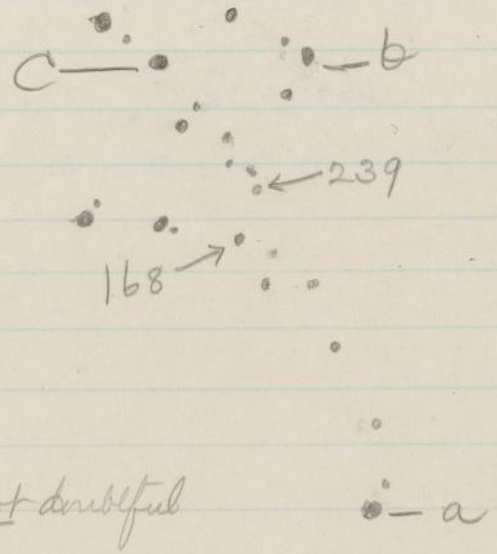
Regim 18 24 -23

Found August 4, 1926
" on A plate of Bb. 40, f. 90

a 8370
meas. Nov. 30, 1927.

Many more faint stars close to Vars.
a slightly prec. b
239 is very ft on this A pl. but I wished to meas. both Vars on one setting. Marking not doubtful

Quint pair as page 170



B 19580

C.P.D.	Magn.	x-Var	y-Var	168	x x 4	sec δ	
a -27 6409	10.0	3.78	7.1	Var fol N	15.12	1.124	16.99488
b -26 6447	9.6	3.50	5.0	Var fol S	14.00	1.122	15.70800
c -26 6451	10.2	3.00	4.3	Var prec. S	12.00	1.122	13.46400

a	18 18 28.8	-27 8.0		18 18 45.8	-27 0.9	-0.2	+0.1
	17.0	7.1		46.2	1.1	+0.2	-0.1
	18 18 45.8	-27 0.9		46.0	1.0	0.0	0.0
b	18 18 30.5	-26 56.1		18 18 46.0	-27 1.0		(1875)
	15.7	5.0		1 33.8	0.7		
	18 18 46.2	-27 1.1		18 20 19.8	-27 0.3		(1900)
c	18 18 59.5	-26 56.7					
	13.5-	4.3					
	18 18 46.0	-27 1.0					

		1 yr.	25 yr.
Z.C. Prec.	α	3.7517	93.7925
	δ	1.6403	41.0075

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1926phae.proj.121rw

HR 854

Var 239

Found September 4, 1926 – or 1927?

" on A plates, Bk. 40, p. 161

239 is North, preceding 168

x-Var	y-Var	xx4		
0.22	1.0	0.88	1.122	(1.1225)
				0.98736

168 = 18 18 46.0 −27 1.0 (1875

1.0 1.0

239 = 18 18 45.0 −27 0.0 (1875)

1 33.8 0.7

18 20 18.8 −26 59.3 (1900)

1 yr. 25 yr.

α 3.7512 93.7806

δ 1.6388 40.9700

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1926phae.proj.121rw

Reg. 1824 −23

Var. 113

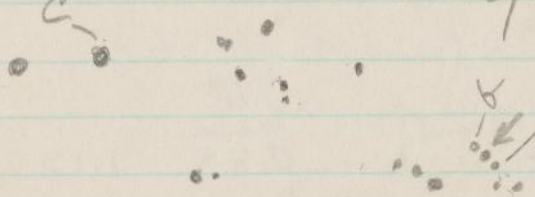
Found July 27, 1926

" 2 plates, Bk. 40, f 35

HB 854

a 12532

meas. Dec 5, 1927



Setting difficult as Var is very ft. of Cat. ● −b stars are far from field.

Cat. stars are few at this portion

b follows a

PD 17834

Orient by

−23 7090 7.6

18 20 33.3 −23 4.4

−23 7091 9.2

18 20 33.3 −23 24.0

not an 8×10 pl.

Use

−24 6410 9.0

18 21 36.0 −24 41.2

−24 6411 9.4

18 21 36.0 −24 31.9

Far from region

			x-Var	y-Var			Dec δ.		
a	−23	7081	8.6	7.12	16.0	Var proc S	28.48	1.095 (1.09049)	31.07168
b	−24	6390	9.8	7.92	~~13.1~~ 3.9	Var proc N	3168	1.095	34.68960
c	−23	7082	9.2	10.72	~~13.1~~ 3.9	Var proc S	4288	1.092 (1.09250)	46.82496

a 18 18 28.4 −23 83.0

31.1 16.0

18 ~~18 59.5~~ 17 57.3 −23 49.0

Var. proceeds all 3 Cat stars

b 18 18 32.3 −24 ~~2.1~~ 13.1

34.7 ~~3.9~~

18 ~~19 7.0~~ 17 57.6 −23 ~~58.2~~ 49.0

c 18 18 44.9 −23 45.0

3.9

46.8 ~~13.1~~

18 ~~19 31.7~~ 17 58.1 −23 ~~58.1~~ 48.9

18 17 58.1

18 17 57.3 −23 49.0 −0.4

17 57.6 49.0 −0.1

17 58.1 48.9 +0.4

20

18 17 57.7 −23 49.0 (1875)

1 31.5 0.7

18 19 29.2 −23 48.3 (1900)

	1 yr.	25 yr.
2C Prec. α	3.6605	91.5125
δ =	1.5601	39.″247 ~~0025~~

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1926phae.proj.121rw

a

x		
0.15	~~0.1 — 0.2~~	ft star prec. S
x x 4	sec. Var	
0.60	1.093	0.66

b

0.12	0.1	ft star fol. N
x x 4 =	0.48	0.52

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1926phae.proj.121rw

v

Region 1824-23

Var 256

HB 854

6 —•

Found Nov. 17, 1927 on a pl. Bk. 40, f. 189.

255 —:•

•

: : :-256 :

•

•-a

Close to 1180, 119

f, 80, 81

a 7340 measured Dec 7, 1927.

c —•

•

B 18772	Magn.	x-Var	y-Var.		x x 4 sec$^\delta$						
a -25 6557	9.0	3.28	2.7	Var prec N	13.12	1.106	14.5107	2			
b -25 6559	9.9	8.94	6.0	" prec S	35.76	1.105	39.5148	0			
c -25 6563	9.4	11.52	7.6	" prec N	46.08	1.106	50.9644	8			
a	18 25	2~~8~~.7	-25 16.2								
		14.5	2.7		18 25 6.2	-25	13.5	-1.3	-0.1		
Orientation, Identifications, positions, & elements taken from page 80					25 7.7		13.4	+0.2	0.0		
b	18 25	47.2	-25 7.4		25 8.5		13.3	+1.0	+0.1		
		39.5	6.0		224		12				
	18 25	7.7	-25 13.4		18 25 7.5	-25	13.4	(1875)			
c	18 25	59.5	-25 20.9		1 32.5 (-)		0.9				
		51.0	7.6		18 26 40.0	-25	12.5	(1900			
	18 25	8.5	-25 13.3								

Z.C. Prec. α 3.6983 92.4575

δ 2.1899 1941 54.74 75 ~~85 25~~

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1926phae.proj.121rw

Var. 255 HB 854
Found Nov. 17, 1927 on A pl. Bk. 40, p. 188
See p 176

255 follows N of 256
following N
8.30 1.9

To check δ
255 is 4.1 S of b

256 = 18 25 ~~7.5~~ 8.1 -25 13.4 (1875)
36.7 1.9
18 25 44.2 -25 11.5 (1875)
1 32.4 0.9
18 27 ~~16.6~~ 17.2 -25 10.6 (1900)

cc δ 1.105
×4 = 33.20
36.68600

b = δ -25 7.4 check
4.1
-25 11.5

07 2
45 0
44 8

0.1
0.0
+0.1

75)

900

3.6972 92.4300
2.2473 56.1825

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1926phae.proj.121rw

178

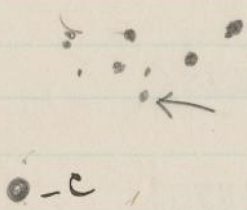
Not Proved X

Begin 18 24 -23

Var. 164
Found August 4, 1926 on
" " a plates, Bk. 40, p. 86

Orient by
-26 6508 = a
and
-26 6501 9.8
18 26 11.4 -26 13.0

a 2752
meas. Dec. 22



B 17834

	C.P.D.	Magn.	x-Var	y-Var		x × 4	rec'd	
a	-26° 6500	8.6	18.60	3.5	Var fol N	74.40	1.121	83.40240
b	-26 6504	8.6	6.65	15.8	Var fol S	26.60	1.118	29.73880
c	-26 6508	9.2	5.50	4.5	Var prec N	22.00	1.121	24.66200

a 18 26 11.4 -26 53.2
1 23.4 3.5
18 27 34.8 -26 49.7

b 18 27 4.4 -26 34.1
29.7 15.8
18 27 34.1 -26 49.9

c 18 27 57.4 -26 54.7
24.7 4.5
18 27 32.7 -26 50.2

18 27 34.8 -26 49.7 +0.9 +0.2
34.1 49.9 +0.2 0.0
32.7 50.2 -1.2 -0.3
11.6 28
18 27 33.9 -26 49.9 (1875)
1 33.6 1.0
18 29 7.5 -26 48.9 (1900)

		1 yr.	25 yr
ZC Prec	α	3.7435	93.5875
	δ	2.4062	60.1550

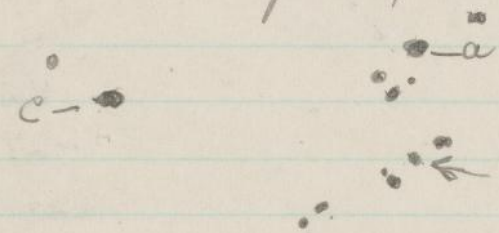
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1926phae.proj.121rw

Var. 61

HB 857

Found July 17, 1926
" on a plates, Bk. 38, f. 195



A 2736
near Dec. 30, 1927.

Var very slightly follows a.
a is large image.
Difficult to meas. exact center.

Orient by:
-27 6609 10.2
18 58 16.0 -27 44.0
* -27 6608 9.8
18 58 16.0 -27 31.8
* HB. Brightest star, α -27° 6606, δ -27° 32.5, to 18 58 14.5

B 33494
CPD

		Magn	x-Var.	y-Var.		x x 4	sec δ	
a	-27 6599	9.0	0.12	4.1	Var. fol. S	0.48	1.131	0.54288
b	-28 6758	9.8	3.92	25.6	Var. prec N	15.60	1.137	17.73720
c	-27 6601	10.2	10.55	1.2	Var. prec S	42.20	1.132	47.77040

a 18 55 57.7 -27 53.8
0.5 4.1
18 55 58.2 -27 57.9
b 18 56 14.6 -28 23.1
17.7 25.6
18 55 56.9 -27 57.5
c 18 56 46.0 -27 56.6
47.8 1.2
18 55 58.2 -27 57.8

18 55 58.2 -27 57.9 +0.4 -0.2
55 56.9 57.5 -0.9 +0.2
55 58.2 57.8 +0.4 -0.1
233 22
18 55 57.8 -27 57.7 (1875)
1 34.0 2.0
18 57 31.8 -27 55.7 (1900)

	1 yr.	25 yr.
ZC Prec. α	3.7609	94.0225
δ	4.8485	121.2125

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1926phae.proj.121rw

Regin 1824 -23

Vars. No. 57 & 58

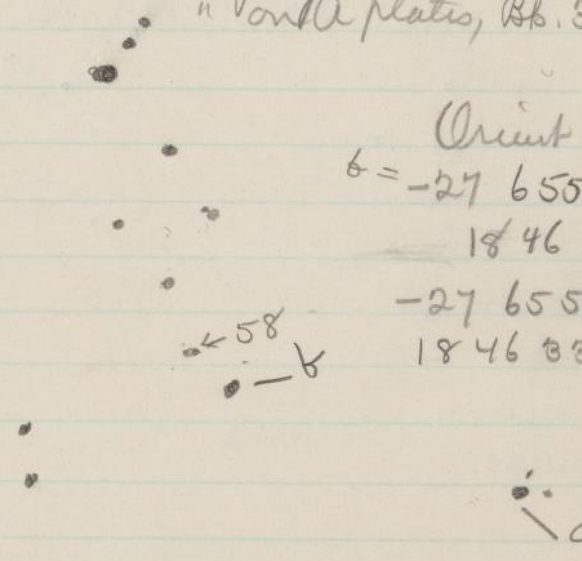
Var 58 Found July 17, 1926.

" on A Plates, Bk. 38, f. 192.

a 8986
meas Jan. 3, 1928

Orient by
b = -27 6555 9.8
18 46 33.0 -27 12.8
-27 6556 9.2
18 46 33.0 -27 36.3

56 not meas.
with 57 & 58
because N Star
a 8986



B 33494
CPD

		Mags	x-Var	y-Var.		x	x4	seed
a -27	6551	9.6	14.65	3.8	Var fol. N	58.60	1.125	65.92500
b	6555	9.8	1.40	1.0	Var fol. N	5.60	1.124	6.29840
c	6561	10.0	8.45	10.3	Var prec. N	33.80	1.126	38.05880

a 18 45 33.0 -27 15.6
1 5.9 3.8
18 46 38.9 -27 11.8

b 18 46 33.0 -27 12.8
6.3 1.0
18 46 39.3 -27 11.8

c 18 47 17.0 -27 21.9
38.1 10.3
18 46 38.9 -27 11.6

18 46 38.9 -27 11.8 -0.1 -0.1
39.3 -27 11.8 +0.3 -0.1
38.9 -27 11.6 -0.1 +0.1
1 22
18 46 39.0 -27 11.7 (1875)
CPD 1 33.9 1.7
18 48 12.9 -27 10.0 (1900

A very ft Star close to Var. slightly S

Not CPM

ZC Prec
α
δ 4.0539 101.3475
1 41.3

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1926phae.proj.1217w

HB855

Very fr star close to 57

Var 57

See fr. 180

Found July 17, 1926

" on a plates Bk. 38, f. 191

~~fr 56~~

		x-Var.	y-Var.
a ~~6552~~	Same as f 180, but reset.		
b ~~6553~~	a	11.10	8.5
c ~~6556~~	b	2.20	11.3
	c	12.00	2.0

a 18 45 33.0 −27 15.6
50.0 8.5
18 46 23.0 −27 24.1

b 18 46 33.0 −27 12.8
9.9 11.3
18 46 23.1 −27 24.1

c 18 47 17.0 −27 21.9
54.0 2.0
18 46 23.0 −27 23.9

	x	y	x×4	sec δ	
Var fr 180	44.40	1.125	49.95000		
Var prec	8.80	1.124	9.89120		
Var. prec	48.00	1.126	54.04800		

18 46 23.0 −27 24.1 00 −0.1
23.1 24.1 +0.1 −0.1
23.0 23.9 0.0 +0.1
1 1
18 46 23.0 −27 24.0 (1875)
1 33.9 1.7
18 47 56.9 −27 22.3 (1900

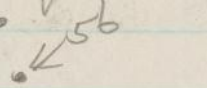
	x	y	x×4	sec Var	✓
Y near 57	0.04	0.1 less than	0.16	1.126	0.18

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1926phae.proj.121NW

Region 18 24-23 Var. 56

Var found July 17, 1926, on a pl., Bk. 38, p. 190.

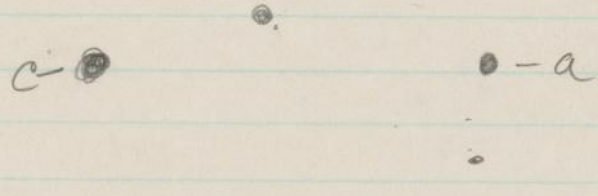


a 27 36
Jan 3, 1928

Orient as p. 180

t slightly fol. a

c Sq a



B 3 3494
CPD



		x-Var	y-Var		xx 4	sec δ	
a	-27 6552	9.8	3.48	5.6	Var fol N	13.92	1.128	15.70176
b	-27 6553	10.0	3.30	16.2	Var fol X	13.20	1.130	14.91600
c	-27 6556	9.2	7.48	6.6	Var prec N	29.92	1.128	33.74976

a 18 45 43.5 -27 35.4
15.7 5.6
18 45 59.2 -27 ~~41.8~~ 29.8

b 18 45 44.5 -27 45.8
14.9 16.2
18 45 59.4 -27 29.6

c 18 46 33.0 -27 36.3
33.7 6.6
18 45 59.3 -27 29.7

18 45 59.2 -27 29.8 -0.1 -0.1
59.4 29.6 +0.1 +0.1
59.3 29.7 0.0 0.0
.9 21
18 45 59.3 -27 29.7 (1875)
1 33.9 1.7
18 47 33.2 -27 28.0 (1900

Not CDM

2C Prec α

δ 3.9972 99.93
39.9

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1926phae.proj.121rw

Several ft stars quite close

Reject — Var. 82 & 184 (Mkd 184 on A8370)
See page 186 — Found July 19, 1926 " on D plates, Bk. 38, f. 216.

A8370 C—
Meas Jan. 5 1928

Measures may be poor as field is so spread out
Orient by
−28

b very large image.



These are too close together and too far from Var. but no others bound

COD

B 20359	Magn	x-Var	y-Var		x×4		
a −28° 6630	9.0	3.00	16.5	Var for N	12.00	1.139	13.66800
b −28 6631	7.9	2.30	3.6	Var for S	9.20	1.136	10.45120
c −28 6633	10.1	13.18	18.0	Var prec S	52.72	1.133	59.73176

a 18 31 20.4 −28 37.2
13.7 16.5
18 31 33.7 −28 20.7

b 18 31 21.2 −28 17.2
10.5 3.6
18 31 31.7 −28 20.8

c 18 32 27.0 −28 2.4
59.7 18.0
18 31 27.3 −28 20.4

18 31 33.7 −28 20.7 +2.8 −0.1
31 31.7 20.8 +0.8 −0.2
31 27.3 20.4 −3.6 +0.2
27 19
18 31 30.9 −28 20.6 (1875)

Reject
See page 186

See if RA can be better

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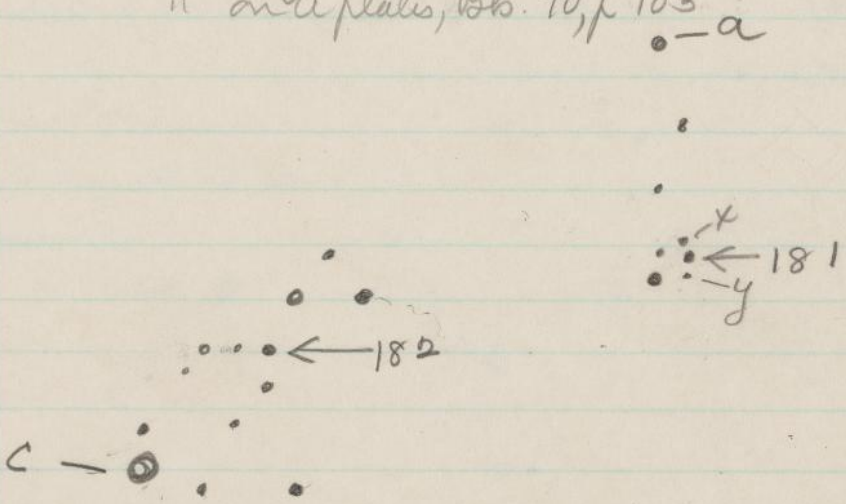
1926phae.proj.121NW

H13855

Regim 18 24-23 Var. 181 Note of x & y

Found Aug. 4, 1926
" on a plates, Bk. 40, p 103

a 2752
Jan 5



20359
CPD

		Magn	x-Var.	y-Var.
a	-28. 6633	10.1	1.58	6.4
b	-28 6636	8.6	11.05	13.8
c	-28 6639	8.8	16.05	5.0

a 18 32 27.0 -28 2.4

x fol Var 0.02
n 0.3

7.2 6.4

18 32 ~~34.2~~ 19.8 -28 8.8

y prec Var 0.02 & 18 33 11.2 -28 22.0
S 0.2

50.2 13.8

0.2 x 4 = 0.08 sec Var 1.134

18 32 21.0 -28 8.2

0.09 c 18 33 32.7 -28 13.4

1 12.9 5.0

Note:
y slightly prec. 0.2S
x slightly fol 0.3n
both very ff

18 32 19.8 -28 8.4

	x	y	x x 4	sec Var	
a	3.7802	94.5050	y 0.05	0.2	.20	1.134	.22680
	2.8202	70.5050	x 0.10	0.3	.40		.45360
	1	10.5+					

Var prec S	6.32	1.133	7.16056	a
Var prec n	44.20	1.136	50.21120	b
Var prec n	64.20	1.135	72.86700	c

18 32 19.8 -28 8.8 -0.5 -03
21.0 8.2 +0.8 +03
19.8 8.4 -0.5 +01
06 14

18 32 20.3 -28 8.5 - (1875)
1 34.5 (8.467)
18 33 54.7 -28 7.3 (1900

8.467
1.2
7.3

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1926phae.proj.121rw

Var. 182 NB 859

Found Aug 4, 1926

See page 184 on A plates Bk 40, f. 104

181 to 182

x 13 27 y 2.0

181 prec. N

xx4 sec δ

a		11.68	8.4	Var fol S	467 2	1.133	52.93376
b		2.12	11.8	Var fol N	448	1.136	5.08928
c		2.98	3.0	Var prec N	1192	1.135	13.52920

a 18 32 27.0 −28 2.4

52.9 8.4

18 33 19.9 −28 10.8

b 18 33 11.2 −28 22.0

2.6 11.8

18 33 16.3 −28 10.2

c 18 33 32.7 −28 13.4

13.5 3.0

18 33 19.2 −28 10.4

18 33 19.9 −28 10.8 +1.4 −03

10.2 −3.2 +03

19.2 10.4 +0.1

14

18 33 18.56 −28 10.5 (1875

(18.467) (10.467)

1 34.8 +1.2

18 34 53.3 −28 9.3 (1900

54.1

18.467

34.8

53.267

α 3.7807 94.5175

72.6625

δ 2.9043 72.6075

12.6

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1926phae.proj.121TW

Several stars (faint) quite close

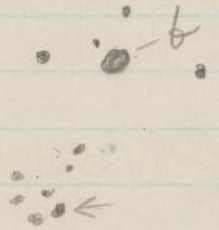
HB 855

Regim 18 24 -23 Var. 82 & 184 Mkd 184 on 8370

82 found July 19, 1926 Same star 184 found Aug 4

" on B plates, Bk. 38, p. 216 Bk 40:106

a 8370
meas. Jan 7



b very large image

B 20359

	CPD	Magn	x-Var	y-Var
a	-28 6630	9.0	3.05	16.7
b	-28 6631	7.9	2.30	3.4
c	-28 6634	10.1	13.15	7.9

a	18 31	20.4	-28	37.2
		13.9		16.7
	18 31	34.3	-28	20.5
b	18 31	21.2	-28	17.2
		10.5		3.4
	18 31	31.7	-28	20.6
c	18 32	31.2	-28	27.8
		59.8		7.9
	18 31	31.4	-28	19.9

	x-Var	y-Var		
•–a				
Var fol N	12.20	1.139	13.895	80
Var fol S	9.20	1.136	10.451	0
Var prec. N.	52.60	1.137	59.806	20

18 31	34.3	-28	20.5	+18	-02
	31.7		20.6	-08	-03
	31.4		19.9	-11	+04
	74		10		
18 31	32.5	-28	20.3	(1875)	
	1 34.8		+1.1		
18 33	7.3	-28	19.2	(1900	

I.C. Prec. α

δ 2.7513 68.7825

18.78

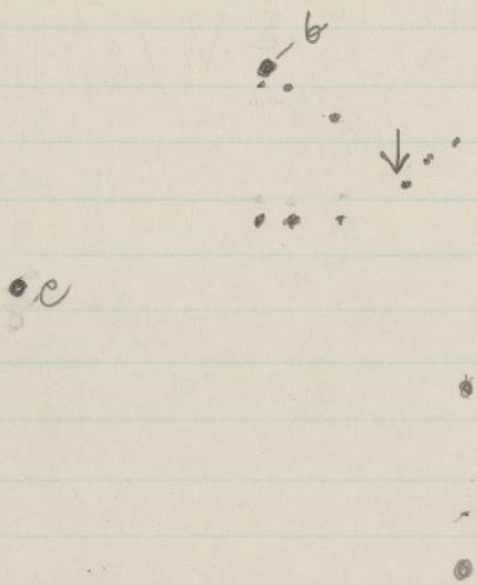
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1926phae.proj.121rw

HB 855

Var 78

Var found July 19, 1926 on B plates
BD 38, f. 212.



A 2752
meas. Jan. 7

Orient by
−26 6557 9.4
18 40 6.0 −26 6.2
−26 6558 9.5
18 40 6.0 −26 22.7

CPD

B 20359 Magn. x-Var. y-Var.

.80	a	−26 6525	10.1	1.70	14.0	Var fol N	6.80	1.118	7.60240	*W16502
0	b	−26 6526	9.5	5.28	3.8	Var prec S	21.12	1.116	23.56992	
20	c	−26 6530	8.8	15.85	2.8	Var foll N	63.40	1.117*	70.81780	

						xx4	sec δ		
a	18 32 45.3	−26 35.5							
	7.6	14.0	18 32 52.9	−26 21.5	+0.2	+0.2			
	18 32 52.9	−26 21.5	32 53.2	21.8	+0.5	−0.1			
b	18 33 16.8	−26 18.0	32 52.0	21.8	−0.7	−0.1			
	23.6	3.8	8.1	21					
	18 32 53.2	−26 21.8	18 32 52.7	−26 21.7			(1875)		
c	18 34 2.8	−26 24.6	1 33.3	1.2					
	1 10.8	2.8	18 34 26.0	−26 20.5			(1900		
	18 32 52.0	−26 21.8							

ZC

δ 2.8671 71.6775
b 11.7

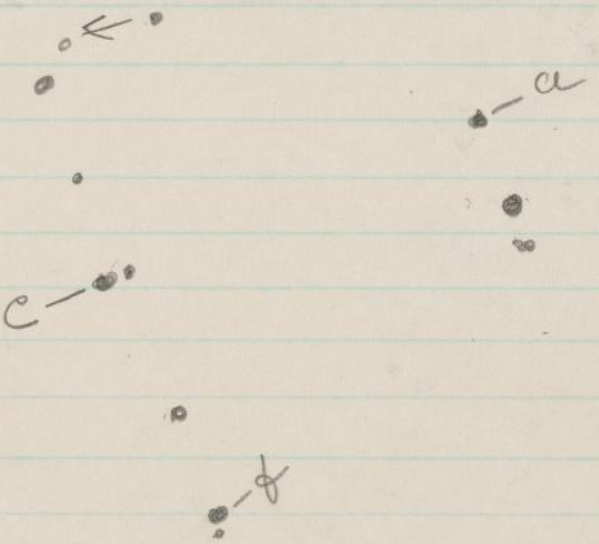
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1926phae.proj.121rw

HB855

Region 18 24 -23 Var. 133

Found July 29, 1926 on A plates, Bk. 40, f. 55



a 6124
Meas Jan 11 1928

near extreme corner but ~~only~~ best A plate for Magn.

Omitted:
-30 5714 8.4
18 42 57.0 -38 56.2
-30 5715 9.7
18 42 57.0 -38 4.9
These are off plate
Use -30 5719 10.0
18 43 25.0 -30 22.3
-30 5720 10.3
18 43 25.0 -30 20.8
Too close together until more others, if seen

B 33494
C.P.D.

		Magn.	x-Var.	y-Var.		x x 4	Rec'd	
a	-30 5680	9.9	11.00	1.7	Var for N	44.00	1.155	50.82000
b	-30 5683	9.8	3.80	14.1	Var for N	15.20	1.158	17.60160
c	-30 5684	9.9	1.15	7.9	Var for N	4.60	1.156	5.31760

a 18 39 6.9 -30 2.7
50.8 1.7
18 39 57.7 -30 1.0

b 18 39 38.3 -30 15.2
17.6 14.1
18 39 55.9 -30 1.1

c 18 39 51.3 -30 9.0
5.3 7.9
18 39 56.6 -30 1.1

18 39 57.7 -30 1.0 +1.0 +01
55.9 1.1 -0.8 0.0
56.6 1.1 -0.1 0.0
202
18 39 56.7 -30 1.1 (1875)
1 35.8 1.4
18 41 32.5 -29 59.7 (1900

ZC Prec. α 3.8331 95.8275
δ 3.4776 86.94 =
1.269

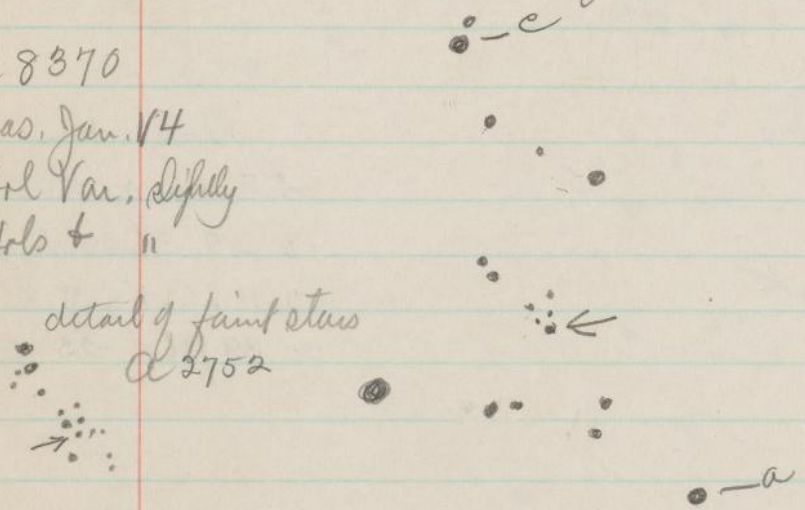
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1926phae.proj.121rw

HB 855

Var. 175

Found August 4, 1926, on A plates, Bk. 40, p. 97



A 8370

Meas. Jan. V4

& fol Var. Diffly

c fols & n

detail of faint stars

A 2752

Oriented (not close but can be placed nearly correctly) No others near

−27 6472 9.5

18 29 0.8 −27 59.5

−27 6492 9.8

18 33 31.6 −27 59.2

B 83494

	CPD	Magn	x-Var.	y-Var.	x x 4			
a	−27 6491	9.6	3.42	4.5	13.68	1.128	15.43104	Var fol n
b	−27 6493	9.8	1.00	12.9	4.00	1.130	4.52000	Var fol n
c	−27 6494	9.6	1.50	9.8	6.00	1.126	6.75600	Var precS

a 18 33 16.0 −27 35.8

+0.1 15.4 4.5

0.0 18 33 31.4 −27 31.3

b 18 33 34.5 −27 44.0

0.0 4.5 12.9

18 33 30.0 −27 31.1

c 18 33 39.5 −27 21.6

6.8 9.8

18 33 32.7 −27 31.4

18 33 31.4 −27 31.3 00 00

30.0 31.1 −1.4 +0.2

32.7 31.4 +1.3 −0.1

41 8

18 33 31.4 −27 31.3 (c) (1875

CPD 1 34.1 1.2

18 35 5.5 −27 30.1 (1900

L.C. α

δ 2.9229 73.0725

1 13.1

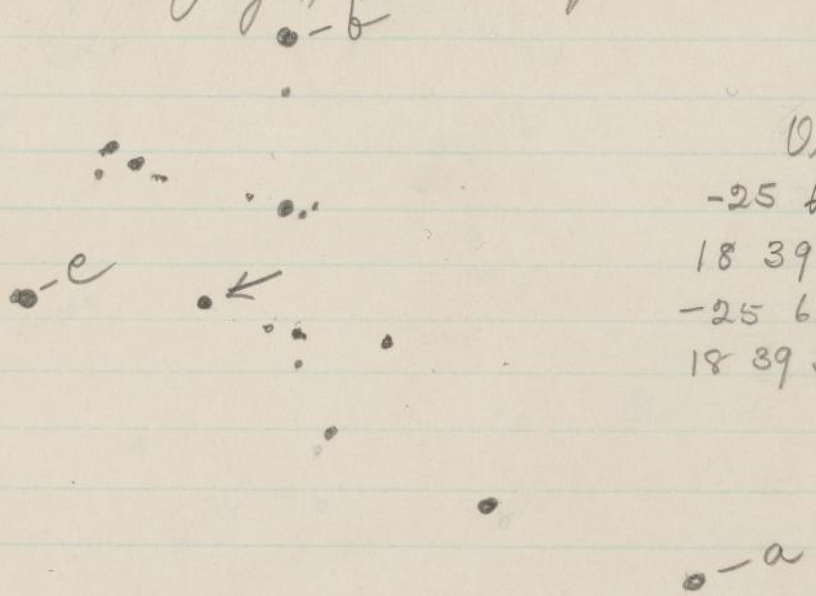
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1926phae.proj.121rw

HB855

Regim 18 24-23 Var. 46

Found July 17, 1926 on A plates Bk. 38, f. 180



a 8986
Meas. Jan. 12, 1928

Orient by
-25 6610 9.2
18 39 36.0 -25 8.2
-25 6611 8.8
18 39 36.0 -25 20.7

B 33494

	CPD	Magn	x-Var	y Var		x x 4	dec δ			
a -25	6828	10.2	18.55	9.0	Var fol N	74.20	1.110	82.36	200	a
b -25	6831	9.0	2.35	9.0	Var fol S	9.40	1.107	10.40	580	b
c -25	6833	10.2	6.05	0.0	Var prec.*	24.20	1.109	26.83	780	c

* As plate is set, α & Var are exactly same δ

a 18 45 53.0 -25 44.9
1 22.4 9.0
18 47 15.4 -25 35.9
b 18 47 2.9 -25 26.5
10.4 9.0
18 47 13.3 -25 35.5
c 18 47 37.0 -25 35.6
26.8 0.0
18 47 10.2 -25 35.6

18 47 15.4 -25 35.9 +2.4 -0.2
47 13.3 35.5 +0.3 +0.2
47 10.2 35.6 -2.8 +0.1
89 2.0
18 47 13.0 -25 35.7 (1875
2c CPD 1 32.4 32.48 +1.7
is 48 45.5 -25 34.0 (1900
4548

Not CDM -25 13535
18 47 36.6 -25 35.6 (1875)
Iden. on B 39136, fols Var.

2c Prec α 3.6993 92.4825
δ 4.1025 102.5625
1 42.6

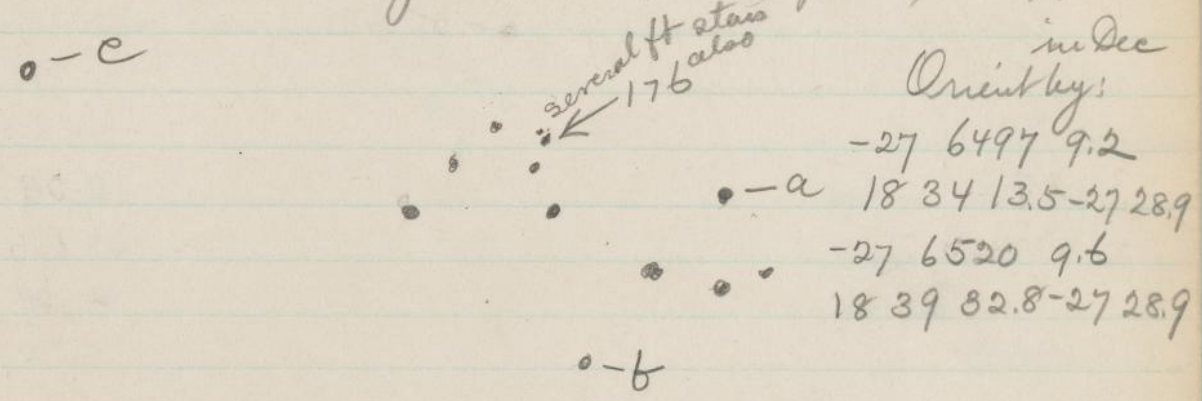
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1926phae.proj.121rw

HB 855

Var. 176

Found August 4, 1926, on A plates, Bds. 49 & 98



in Dec Orient by:
-27 6497 9.2
18 34 13.5 -27 28.9
-27 6520 9.6
18 39 32.8 -27 28.9

A 8370
Meas Jun 20 1928

B 33494

	CPD	Magn.	x-Var.	y-Var.		x	x	dec δ
a	-27 6492	9.8	9.05	2.0	Var fol N	36.20	1.135	40.97840
b	-28 6643	10.1	1.68	9.5	Var fol N	6.72	1.134	7.62048
c	-27 6504	10.0	17.00	2.3	Var prec S	68.00	1.132	76.976

a 18 33 31.6 -27 59.2

-0.2			41.0	2.0	18 34	12.6	-27 57.2	-0.5 +0.1
+0.2		18 34	12.6	-27 57.2		12.7	57.5	-0.4 -0.2
+0.1	b	18 34	5.1	-28 7.0		14.0	57.3	+0.9 0.0
			7.6	9.5		9 3	10	
		18 34	12.7	-27 57.5	18 34	13.1	-27 57.3	(1875
	c	18 35	31.0	-27 55.0		1 34.3	1 14.8	
			1 17.6	2.3	18 35	47.4	-27 56.1	(1900
		18 34	14.0	-27 57.3				

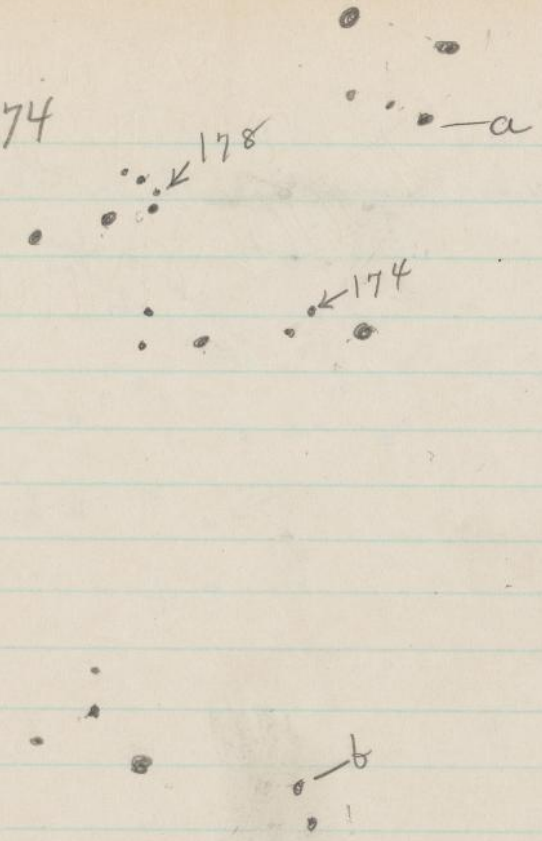
α 37739 94.3475
δ 2.9831 74.5775

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1926phae.proj.121mw

HB3855

Begin 18 24-23 Var. 174



Found August 4, 1926
" on A plates, Bk. 40, f. 96.

A8370
meas Jan. 16, 1928

Orient in δ
-27 6477 9.8
18 29 32.5 -27 18.7
-27 6478 9.0
18 29 39.5 -27 18.7

174 slightly fol. b.

B38385
C PD

			x-Var.	y-Var.		sec δ	x x 4	
a	-27	6465	10.2	6.48	15.5	Var fol S	1.128	25.92	29.23776
b	-28	6606	10.2	0.50	18.0	Var fol N	1.133	2.00	2.26600
c	-27	6472	9.5	15.58	12.8	Var prec N	1.133 (1.13242)	62.32	70.54624

a 18 27 25.0 -27 30.8
29.2 15.5
18 27 54.2 -27 46.3

b 18 27 48.6 -28 4.3
2.3 18.0
18 27 50.9 -27 46.3

c 18 29 0.8 -27 59.5
1 10.5 12.8
18 27 50.3 -27 46.7

18 27 54.2 -27 46.3 +2.4 +0.1
50.9 46.3 -0.9 +0.1
50.3 46.7 -1.5 -0.3
54 13
18 27 51.8 -27 46.4 (1875
C PD 1 34.1 1.1 -ZC
18 29 25.9 -27 45.3 (1900 ✓

Z.C. α
δ 2.4321 60.8025
1 0.8

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1926phae.proj.121rw

HB 855

Var. 178

Found August 4, 1926, on A plates, Bk 40, p. 100

Sketch, see p. 192

A 2752

Same setting, same Catal. stars, as p. 192.

		x-Var	y-Var		x x 4	sec δ	
b	a	~~12.70~~ 13.70	11.0	Var. fol S	~~50.80~~ ~~52.80~~	1.128	57.39240 ~~58.65600~~
	b	6.10	22.8	Var fol N	24.40	1.133	27.64520
	c	9.55	17.2	Var prec N	38.20	1.132	43.24240

a 18 27 25.0 −27 30.8

~~57.3~~ ~~58.7~~ 11.0

18 28 ~~23.7~~ 22.3 −27 41.8

b 18 27 48.6 −28 4.3

27.6 22.8

18 28 16.2 −27 41.5

c 18 29 0.8 −27 59.5

43.2 17.2

18 28 17.6 −27 42.3

18 28 22.3 −27 41.8 +3.6 +0.1

28 16.2 41.5 −2.5 +0.4

28 17.6 42.3 −1.1 −0.4

26.1 26

18 28 18.7 −27 41.9 (1875

1 34.1 1.0

18 29 52.8 −27 40.9 (1900

α

from 1926.4

α

δ 2.4710 61.7750

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1926phae.proj.121rw

HB 855 f.196

Regim 18 24-23

Var. 68 a Could have been meas with 132 39:88, if ready.

Found July 19, 1926 on A plates, Bk 38, f. 202

a 2736 meas Jan. 18 1928

Orcutt by

-28 6764 10.3
18 57 25.4 -28 55.0
-28 6765 8.6
18 57 25.5 -28 17.8

B 33494 C.P.D.

			x-Var.	y-Var.		x×4	sec δ	
a	-28	6748 9.8	4.56	8.3	Var fol S.	18.14	1.135	20.70240
b	-28	6750 9.5	3.05	7 7/8	Var prec N	12.20	1.138	13.88360
c	-28	6751 10.0	5.48	4.0	Var prec S	21.92	1.136	24.90112

a 18 53 35.3 -28 14.6
20.7 8.3
18 53 56.0 -28 22.9

Plate not set correctly. Reject — Use meas. f. 196

b 18 54 2.6 -28 31.1
13.9 7.8
18 53 48.7 -28 23.3

c 18 54 18.1 -28 19.6
24.9 4.0
18 53 53.2 -28 23.6

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1926phae.proj.121nw

Var. 69
Found July 19, 1926, on A plates, Bb. 38, p. 203

b

a 2752
meas Jan. 18

Var. follows b slightly

a

c

B 33494
CPD

a	-29	5843	8.4	9.00	7.0	Var. fol. S.	36.00	1.149	41.36400
b	-29	5846	8.8	1.00	18.9	Var. fol. S.	4.00	1.147	4.58800
c	-29	5847	8.4	6,80	9.8	Var. prec. N.	27.20	1.152	31.33440

Corrected by
-29 5847 8.4
= c
ad -29 5848 10.3
18 55 36.9 -29 10.2
not exactly same δ
(allow in setting)

sec δ

a 18 54 24.4 -29 30.8
41.4 7.0

These stars too bright but best for position.

18 55 5.8 -29 37.8 +0.3 +0.1
5.5 38.0 +0.0 -0.1
b 18 55 0.9 -29 19.1 5.1 37.8 -0.4 +0.1
4.6 18.9
14 2.6

18 55 5.5 -29 38.0 18 55 5.5 -29 37.9 (1875
c 18 55 36.4 -29 47.6 1 34.4 2.6
31.3 9.8
18 56 39.9 -29 35.9 (1900
18 55 5.1 -29 37.8 40.7

ZC

α
δ 4.7744 119.36
1.594

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1926phae.proj.121.tw

HB855

Regim 18 24 -23 Var. 68.

See f. 194.

					4×X	sec δ	
a	3.98	8.5	Var fol S	15.92	1.135	18.06920	
b	2.20	8.0	Var prec N	8.80	1.138	10.01440	
c	5.95	3.2	Var prec S	23.80	1.136	~~28.05920~~ 27.03680	

a 18 53 35.3 −28 14.6 — 18 53 53.4 −28 23.1 +14

18.1 8.5 — 53 52.6 23.1 +06

18 53 53.4 −28 23.1 — 50.0 22.8 −20

9.0

b 18 54 2.6 −28 31.1 — 18 53 52.0 −28 22.0 (1875

10.0 8.0 — 1 34.4 2.6

18 53 52.6 −28 23.1 — 18 55 26.4 −28 21.1 (1900

c 18 54 18.1 −28 19.6

~~28.1~~ 3.2

18 53 ~~50.0~~ 51.1 −28 22.8

2c α

δ 4.6702 116.7550

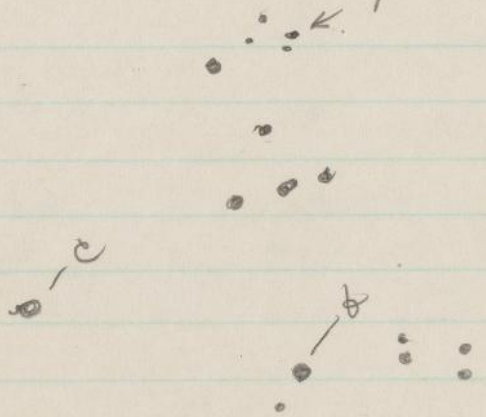
1568

1926phae.proj.12:TW

Var. 189 HB 857

Var. found August 4, 1926
" " on 2a plates, Bk 40, p. 111a

a 8986
meas. Jan. 31, 1928
b precedes Var
a north of Var



Quint by
-28 6666 8.1
18 37 45.4 -28 54.2
-28 6671 10.1
18 38 11.4 -28 54.3
-28 6677 10.0
18 38 47.9 -28 54.4

B 33494

			x	y	z		xx4	recd	
a	-28 6663	9.1	17.55	3.1	Var fol S		70.20	1.138	79.88760
b	-28 6675	10.1	1.40	9.9	Var fol N		5.60	1.140	6.38400
c	-28 78	10.0	8.30	8.9	Var prec N		33.20	1.140	37.84800

a 18 37 21.4 -28 29.2

14	+1-01		79.9	3.1		
06	+1-0.1	18 38 41.3	-28	32.3	18 38 41.3 -28 32.3	+1.6 0.0
20	+0.2	b 18 38 32.4	-28	42.2	38.8 32.3	-0.9 0.0
			6.4	9.9	39.1 32.2	-0.6 +0.1
1875		18 38 38.8	-28	32.3	29.2 8	
		c 18 39 16.9	-28	41.1	18 38 39.7 -28 32.3	(1875)
			37.8	8.9	1 34.7 1.4	1.5 CP D
1900		18 38 39.1	-28	32.2	18 40 14.4 -28 30.9	(1900)

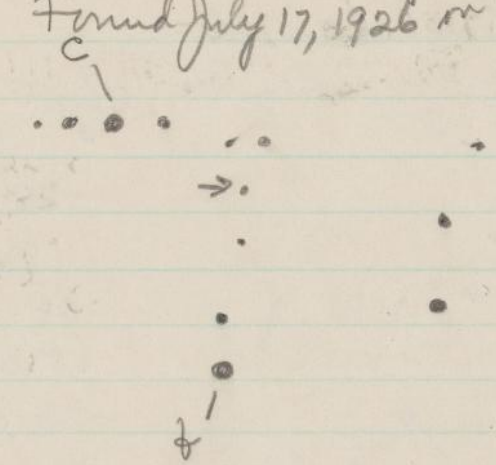
α
δ 3.3670 84.1750 =
1 24.2

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1926phae.proj.121rw

Region 18 24-23 Var. 59 a plates, Bb. 38, p. 193

Found July 17, 1926 on a plates



A 8986
meas Feb 4
b follows Var

Orient by
-27 6555 9.8
18 46 33.0 -27 12.8
and -27 6556 = a

B 20359

				x-Var	y-Var	x×4	sec δ	
a	-27	6556	9.2	11.00	6.4	44.00	1.128	49.6 3200 Var fol S
b	-27	6562	10.1	~~4.92~~ 0.48	6.5	1.92	1.131	2.17 152 Var prec N
c	-27	6564	9.0	4.92	2.1	19.68	1.129	22.21872 Var prec S

a 18 46 33.0 -27 36.3
49.6 6.4
18 47 22.6 -27 42.7

b 18 47 24.0 -27 48.8
2.2 6.5
18 47 21.8 -27 42.3

c 18 47 44.0 -27 40.2
22.2 2.1
18 47 21.8 -27 42.3

18 47 22.6 -27 42.7 +0.5 -0.3
47 21.8 42.3 -0.3 +0.1
47 21.8 42.3 -0.3 +0.1
3 2 1 3
18 47 22.1 -27 42.4 (1875)
1 33.8 + 1.7 (2C)
18 48 55.9 -27 40.7 (1900)

Not in C Dm

2C Prec. α
δ 4.1154 102.8850
1 42.9

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1926phae.proj.:121rw

Var. 60
Found July 17, 1926
" on A plates, Bk. 38, f. 194

A 2736

-27 6607 10.2
18 58 16.0 -27 44.0
-27 6608 9.8
18 58 16.0 -27 31.8

See page 200.

a
b
c

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1926phae.proj.121.tw

HB 859

Regim 18 24 -23

Var 60

Var found July 17, 1926, on a plates, Bds. 38, f 194

Orient by

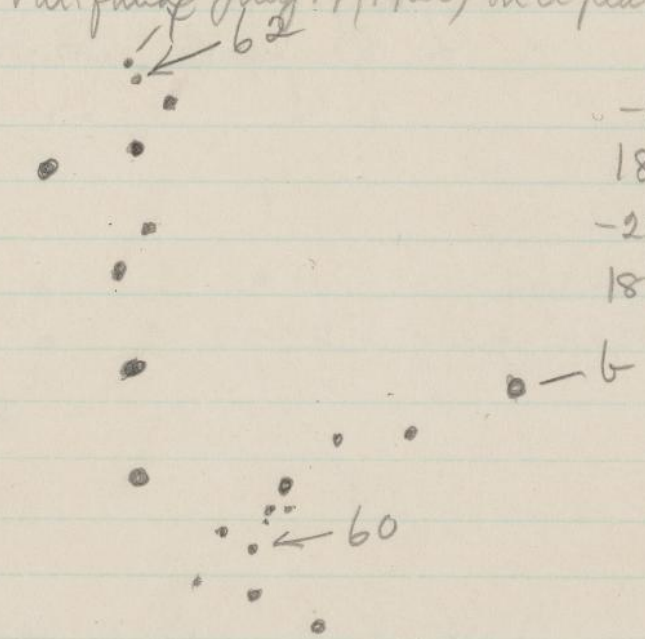
-27 6607 10.2

18 58 16.0 -27 44.0

-27 6608 9.8

18 58 16.0 -27 31.8

62 is faint on 2736 but can be meas, while 60 is n.S on 8986 which shows 62 fr.



a 2736
meas Feb. 4, 1928

B 20359

	CPD					x-Var	y-Var			xx4		
a	-27	6596	8.6	8.04	9.4	Var fol N				32.16	1.128	36.27648
b	-27	6597	8.8	7.90	4.4	Var fol S				31.60	1.125	35.55000
c	-27	6600	10.4	8.05	7.1	Var prec S				32.20	1.125	36.22500

a 18 55 12.5 -27 31.8

36.3 9.4

18 55 48.8 -27 22.4

b 18 55 14.2 -27 18.2

35.6 4.4

18 55 49.8 -27 22.6

c 18 56 26.0 -27 15.9

36.2 7.1

18 56 49.8 -27 23.0

18 55 48.8 -27 22.4 -0.7 +0.3

55 49.8 22.6 +0.3 +0.1

55 49.8 23.0 +0.3 -0.3

14 20

18 55 49.5 -27 22.7 (1875)

1 33.6 2.0

18 57 23.1 -27 20.7 (1900)

Lowes No. 89

zc

CPD 1 337 α 3.7442 93.6050

2.0 δ 4.8367 120.9175 =

2.0

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1926phae..proj..121W

Innes star?

NB 859

Var 62
Var. found July 17, 1926
" " on A plates, Bk. 38, p. 196.
See p 200

May NB
CPD R.A. fr
prec
Note diff.

a 2736
Feb. 4.

x 0.20
fols 62 N.O. 2

		x-Var	y-Var
Same		11.00	22.8
Cat. stars		1050	8.9
		540	6.2 ✓
a	18 55	12.5	-27 31.8
		49.6	22.8
	18 56	02.1	-27 9.0
b	18 55	14.2	-27 18.2
		47.2	8.9
	18 56	1.4	-27 9.3
c	18 56	26.0	-27 15.9
		24.3	6.2 ✓
	18 56	1.7	-27 9.7

	x×4	sec d	
Var fol N	44.00	1.128	49.63200
Var fol N	42.00	1.125	47.25000
Var prec N	21.60	1.125	24.30000

18 56	2.1	-27	9.0	+0.4	~~00~~ +03
56	1.4		9.3	-0.3	~~-0.3~~ 0.0
56	1.7		~~8.7~~ 9	00	~~+0.3~~ 0.4
	52		10		
18 56	1.7	-27	9.8		(1875)
	1 334		2.0		
18 57	35.1	-27	7.8		(1900)

Innes No. 90

CPD 1337
ZC α 3.7375 93.4375
δ 4.8540 121.3500

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1926phae.proj.121nw

Regin 18 24-23

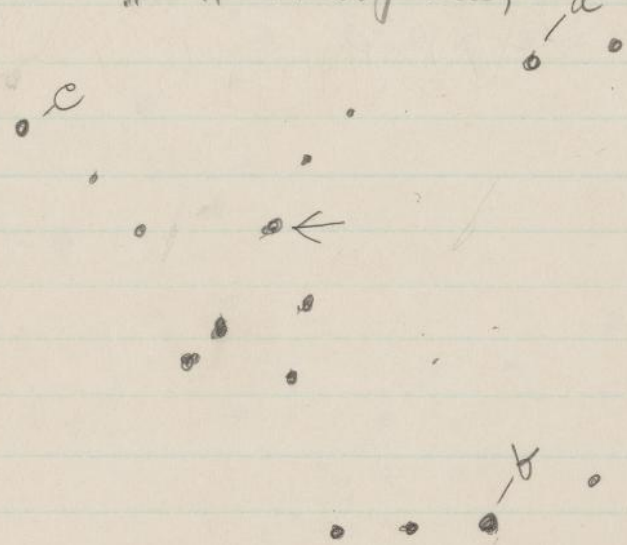
Var 222

Var found August 5, 1926

" " on Aflatis, Bb. 40, p. 144.

A 7494

meas. Feb. 7, 1928



Orient by

-21 7230 9.3

19 2 16.0 -21 37.1

-21 7231 10.4

19 2 16.0 -21 16.3

B 19581

	CPD	Magn	x-Var	y-Var		x×4	sec δ		
a	-21 7220	10.4	10.18	6.5	Var fr S	40.72	1.078	43.89616	a
b	-22 7353	9.5	7.28	12.1	Var fr N	29.12	1.081	31.47872	b
c	-22 7357	10.0	10.65	3.3	Var free S	42.60	1.079	45.96540	c

a 19 1 25.8 -21 57.3

43.9 6.5

19 2 9.7 -22 3.8

b 19 1 36.8 -22 15.9

31.5 12.1

19 2 8.3 -22 3.8

c 19 2 54.3 -22 0.7

46.0 3.3

19 2 8.3 -22 4.0

19 2 9.7 -22 3.8 +0.9 +0.1

2 8.3 3.8 -0.5 +0.1

2 8.3 4.0 -0.5 -0.1

23 26

19 2 8.8 -22 3.9 (1875)

1 29.9 2.2

19 3 38.7 -22 1.7 (1900)

α 3.5945 89.8625

δ 5.3716 134.2900

3 14.3

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1926phate.proj.121nw

See obj = Var 258 found on B 20359

HB 857

Var. 55

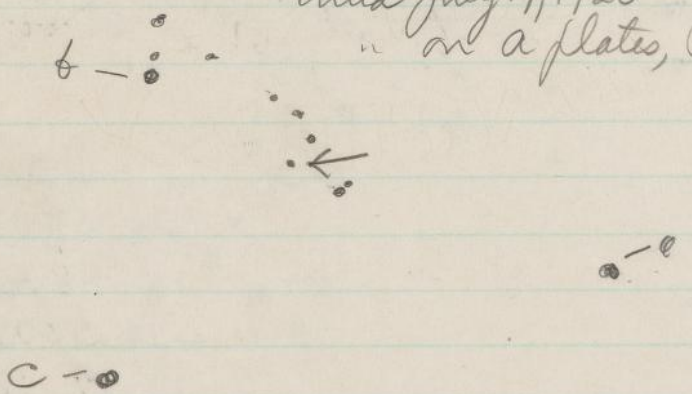
Found July 17, 1926

" on a plates, Bb. 38, d. 189

a 8986

meas

Feb. 7, 1928



Orient by:

-27 6555 9.8

18 46 33.0 -27 12.8

-27 6556 9.2

18 46 33.0 -27 36.3

B 20359	Magn.	x-Var.	y-Var.		x x 4	sec δ		
a -27 6533	9.5	14.95	2.8	Var fol N	59.80	1.130	67.57400	
b -27 6541	9.6	~~5.82~~ 3.80	2.2	Var prec S	15.20	1.129	17.16080	
c -27 6542	9.0	5.82	9.7	Var prec N	23.28	1.131	26.32968	

a 18 41 47.8 -27 44.4

1 7.6 2.8

18 42 55.4 -27 41.6

b 18 43 13.0 -27 39.5

17.2 2.2

18 42 55.8 -27 41.7

c 18 43 22.0 -27 51.3

26.3 9.7

18 42 55.7 -27 41.6

18 42 55.4 -27 41.6 -0.2 0.0

55.8 41.7 +0.2 -0.1

55.7 41.6 +0.1 0.0

19

18 42 55.6 -27 41.6 (1875)

34.0 1.6

18 43 29.6 -27 40.0 (1900

2c α

δ 3.7343 93.3575

1.3334

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1926phae.proj.121rw

Var δ = 22'.2 by reading as plate is set
reduced mean = 22'.20 by a and b, star.

Region 18 24 -23

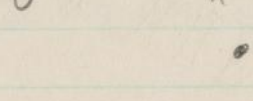
Var. 71

Found July 19, 1926
" 24 of plates, 57 58

8.0

38
13h. 40, 1.205

1H13 857

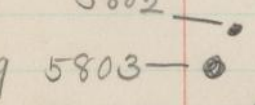


a 8986
meas Feb. 8, 1928

Var in δ
let -29 5788
and a

in Dec.
Orient by
-29 5803 8.8
18 48 41.4 -29 33.2
-29 5808 9.6
18 49 5.4 -29 33.3
in α -29 5786 = a
and -29 5787
not diff. enough in δ
but good check

B2744 b



	CPD	mags.	x-Var.	y-Var.
a	-29° 57 86	10.0	3.78	0.3
b	-29 5796	10.3	6.45	3.0
c	-29 5802	9.9 4	12.80	10.4

		sec δ	
Var fol N	15.12	1.148	17.35776
Var prec S	25.80	1.147	29.59260
Var prec N	51.20	1.150	58.88000

a 18 47 23.1 -29 22.6
17.4 0.3
18 47 40.5 -29 22.3

b 18 48 8.4 -29 19.1
29.6 3.0
18 47 38.8 +29 22.1

c 18 48 39.4 -29 32.5
58.9 10.4
18 47 4 0.5 -29 22.1

18 47 40.5 -29 22.3 +0.6 -0.1
38.8 22.1 -1.1 +0.1
40.5 22.1 +0.6 +0.1
119.8 5
18 47 39.9 -29 22.2 (1875)
1 35.2 2c 1.7
18 49 15.1 -29 20.5 (1900)

3 cPD

2c Prec. 3.8084 95.21
4.1409 103.5225

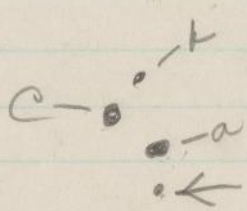
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1926phae.proj.121rw

Not proved — 1 Min only

Var 86
Found July 19, 1926
" on Bplates, Bk. 40, p. 8.

a 8986
Meas Feb 8, 1928
Var very
slightly fr. a



Orbit as
page 204

B 27446

	C	PD	Magn	x-Var	y-Var					
a	-29°	5801	9.9	0.02	1.0	Var fr S	0.08	1.150	.09	200
b		5802	9.9	0.95	3.0	Var prec S	3.80	1.~~149~~ 150	4.37	000
c		5803	8.8	1.32	2.1	Var prec S	5.28	1.150	6.07	200

a	18	48	35.9	-29	34.4			
			0.1		1.0			
	18	48	36.0	-29	35.4	18 48 36.0	-29 35.4	+0.6 0.0
b	18	48	39.4	-29	32.5	35.0	35.5	-0.4 -0.1
			4.4		3.0	35.3	35.3	-0.1 +0.1
	18	48	35.0	-29	35.5	163	12	
c	18	48	41.4	-29	33.2	18 48 35.4	-29 35.4	(1875
			6.1		2.1			
	18	48	35.3	-29	35.3			

Use mean or meas fm a.

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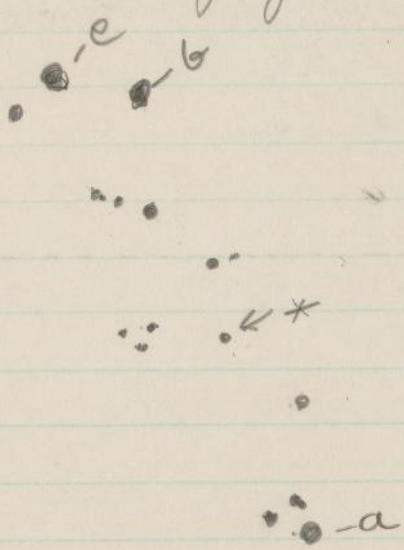
1926phae.proj.1217w

206

Regim 1824-23

Var. 85
Found July 19, 1926 on B plates, Bb 38, f. 219

HB 857



a 2736
Meas Feb 9, 1928

*See detail below

Orientas
page 204

CPD

		Magn.	x-Var.	y-Var.	x×4	seed	
B 27446							
a	−29° 5796	10.3	1.70	5.9	6.80	1.147	Var fol N 7.79960
b	−29 5799	9.6	2.50	7.8	10.00	1.144	Var prec S 11.44006
c	−29 5804	9.1	5.80	8.2	23.20	1.144	Var prec S 26.54080

a 18 48 8.4 −29 19.1

7.8 5.9

Meas of 11 stars diffuse, elongated faint star

b 18 48 28.4 −29 5.4

11.4 7.8

0.05 × 4
0.20 1.146
0.2 fol.
Same δ
0.15×4 0.60 1.146 0.687 60
0.7

c 18 48 42.4 −29 5.0

26.5 8.2

18 48 15.9 −29 13.2

y + and probably faintest stars also

18 48 16.2 −29 13.2 −0.2
48 17.0 13.2 +0.6
48 15.9 13.2 −0.5
19.1

18 48 16.4 −29 13.2 (1875)
1 353 1.7 20
18 49 51.7 −29 11.5 (1900)

135.1 dist C.P.D

? Note — double star which image.

x fols 0.2 Same δ
y fols 0.7 less than 0.1 S

2C Prec. x
δ 4.1929 104.8225

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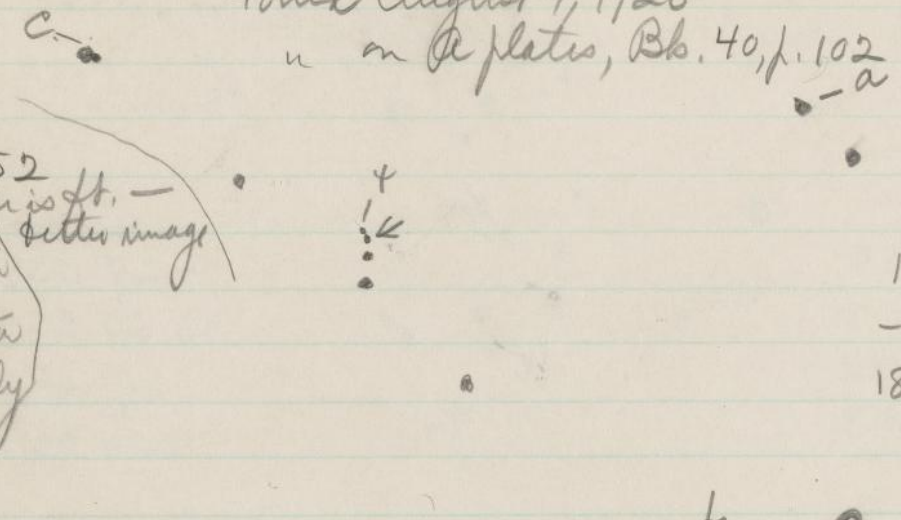
1926phae.proj.121rw

HB857

Var. 180

Found August 4, 1926

" on A plates, Bk. 40, f. 102



B 27446

	CPD	Magn.	x-Var	y-Var		x x 4		
a	-27° 6479	9.9	21.40	4.5	Var fol S	85.60	1.131	96.81360
b	-28 6623	9.8	11.65	10.8	Var fol N	46.60	1.134	52.84440
c	-27 6487	10.0	9.15	7.0	Var pre S	36.60	1.131	41.39460

a 18 29 54.5 -27 51.3

1 36.8 4.5

18 31 31.3 -27 55.8 +1.1 +0.1

31 29.9 55.9 -0.3 00

b 18 30 37.1 -28 6.7

29.4 56.0 -0.8 -0.1

52.8 10.8

06 27

18 31 29.9 -27 55.9 18 31 30.2 -27 55.9 (1875)

c 18 32 10.8 -27 49.0

1 34.4 1.1 C.T. 0.1.2

41.4 7.0

18 33 4.6 -27 54.8 (1900)

18 31 29.4 -27 56.0

0.05 fol x4 = 0.20 acc Var 1.132 0.22640

x ff stars about 12

Nebl (about 0.15) nearly

CPD

1 34.0

2C α 3.7750 9 4.3750

Pres δ 2.7480 68.70

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1926phae.proj.1217w

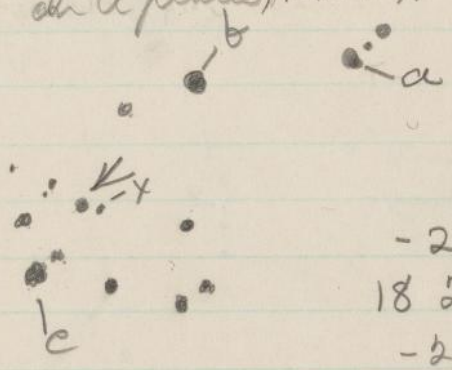
208

Regin 18 24-23

Van 210

Found August 4, 1926 on A plates, Bk. 40, p. 132

HB857



A 2752

Meas. Feb. 11, 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

B 2744 6

	CPD	Magn.	x-Var	y-Var		x×4	rec'd	
a	-29 5607	10.3	8.50	3.0	Var fol. S	34.00	1.154 (1.15452)	39.2 3600
b	5609	9.9	3.12	2.7	Var fol. S	12.48	1.155 (1.15544)	14.4 1440
c	-30 5568	10.0	1.02	1 7/8	Var prec N	4.08	1.155	4.7 1240

a 18 26 29.5 -29 58.9

39.2 3.0

18 27 8.7 -30 1.9

b 18 26 54.5 -29 59.1

14.4 2.7

18 27 8.9 -30 1.8

c 18 27 14.0 -30 3.8

4.7 1.8

18 27 9.3 -30 2.0

18 27 8.7 -30 1.9 -0.3 0.0

8.9 1.8 -0.1 +0.1

9.3 2.0 +0.3 -0.1

29 57

18 27 9.0 -30 1.9 (1875)

1 36.0 1.0

18 28 45.0 -30 0.9 (1900

X ×4 rec Var

0.30 1.20 1.155

same (very slightly S)

1.38600

CPD

1 364 3.8396 95.9900

2 370 1 59.2525

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1926phae.proj.121rw

Probably not Dunes? Dunes?
See position Bk. 46, p. 112

Var. 192

Found August 4, 1926, on a plates, Bk. 40, p. 114

a 8370
Meas Feb. 16, 1928

Orientation:
-28 6644 10.4
18 34 12.4 -28 57.8
-28 6645 10.0
18 34 12.6 -28 40.8

ft stars not near enough for note

B 27446

		Magn.	Var-x	Var-y		x×4	sec δ	
a	-28° 6624	10.2	9.30	3.9	Var fols S	37.20	1.143	42.51960
b	-28 6629	9.4	1.35	10.9	Var fols S	5.40	1.141	6.16140
c	-29 5637	9.9	7.95	3.9	Var prec N	31.80	1.144	36.37920

a 18 30 40.6 -28 56.0
42.5 3.9
18 31 23.1 -28 59.9

b 18 31 16.1 -28 48.9
6.2 10.9
18 31 22.3 -28 59.8

c 18 31 54.5 -29 3.7
36.4 3.9
18 31 21.1 -29 8 59.8

Not cDm

18 31 23.1 -28 59.9 +0.9 -0.1
22.3 59.8 +0.1 0.0
21.1 59.8 -1.1 0.0
65
18 31 22.2 -28 59.8 (1875)
1 35.2 1.1
18 32 57.4 -28 58.7 (1900)

α 3.8063 95.1575
δ 2.7364 68.41
1 8.4

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1926phae.proj.121TW

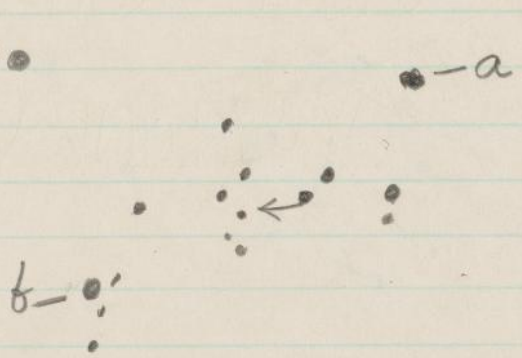
210 Same star as 185 Lunes 18 38.7 -27 45

NB 3.859

Regin 1824-23 Var. 54

Found July 17, 1926, on A plates, Bk. 38, p. 188

A 8986



Orient by:
-27 6495 8.5
18 33 57.0 -27 7.0
-27 6496 8.0
18 33 57.5 -27 33.5

See A 2736 for ff stars close to Var.

Orientation is uncertain as regin is near edge and stars are large and distorted.

B 39151

CPD

		Magn.	x-Var	y-Var		x×4	sec δ	
a	-27 6506	10.1	5.18	4.2	Var fol S	20.72	1.129	23.39288
b	-27 6509	8.8	3.97	2.4	Var prec N	15.88	1.131	17.96028
c	-27 6510	10.0	3.92	5.3	Var prec S	27.68	1.129	31.25072

a 18 36 43.0 -27 41.7

23.4 4.2

18 37 6.4 -27 45.9

b 18 37 25.3 -27 48.1

18.0 2.4

18 37 7.3 -27 45.7

c 18 37 38.2 -27 40.8

31.3 5.3

18 37 6.9 -27 46.1

18 37 6.4 -27 45.9 -0.5 0.0

37 7.3 -27 45.7 +0.4 +0.2

37 6.9 -27 46.1 0.0 -0.2

26 27

18 37 6.9 -27 46.0 (1875)

1 34.2 1.3

18 38 41.1 -27 44.6 (1900)

2C. α 3.7675 94.1875

δ 3.2335 80.8375

1.20.8

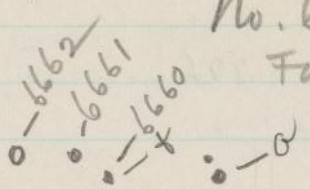
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1926phae.proj.121:w

Innes HB 859

ft stars near

No. 64 and 190 Bh 40, p. ?
Found July 19, 1926 " " 198
" in 4 plates, Bh. 38 Centers of



a 2752	-28 6657 -28 21.9
	-28 6660 -28 21.8
	-28 6661 -28 20.9
a is slightly N of V	-28 6662 -28 20.7

B 27446

CPD	Magn.	x-Var	y-Var		xx 4	sec δ	
a -28 6657	10.0	7.52	7 4	Var fol S	30.08	1.136	34.17088
b -28 6660	9.8	3.00	7.5	Var fol S	12.00	1.136	13.63200
c -28 6663	9.1	1.55	0 ½	Var prec S	6.20	1.138	7.05560

a 18 36 40.0 -28 21.9

34.2 7.4

18 37 14.2 -28 29.3

b 18 37 1.0 -28 21.8

13.6 7.5

18 37 14.6 -28 29.3

c 18 37 21.4 -28 29.2

7.1 0.1

18 37 14.3 -28 29.3

18 37 14.2 -28 29.3 -0.2
37 14.6 29.3 +0.2
37 14.3 29.3 -0.1
18 37 14.4 -28 29.3 (1875)
1 34.7 1.5
18 38 49.1 -28 27.8 (1900)

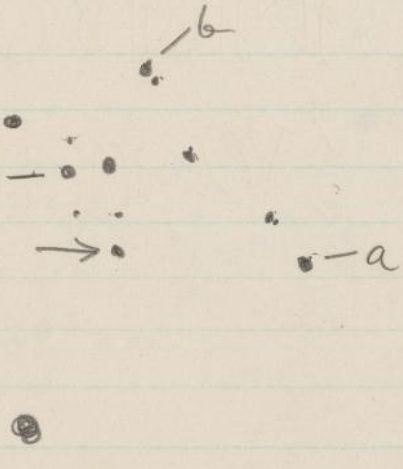
ZC α 3.7883 94.7075
δ 3.2443 81.1075
1 31.1

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1926phae.proj.121rw

Var. 241
Found Sept. 8, 1926, on A plates, Bk. 40, f. 173.

A 4714
meas Feb. 27, 1928
Orientation ill
doubtless be from
extreme N edge —
No other A plate
found with Var. bright.
and images are very
distorted.



Oriented
by c and
-29 59 94 9.0
19 13 29.6 -29 42.1

B 28628
CPD

			Magn	x-Var.	y-Var	xx4	sec δ		
a	-29	59 83	10.2	6.50	0.4	26 32.00	1.152	29.952 36.864 00	Var. fol. slightly
b	-29	59 92	9.6	1.05	6.0	4.20	1.151	4.83420	Var fol. S
c	-29	59 95	9.4	1.55	2 2/3	6.20	1.151	7.13620	Var pre S

a	19 12	58.6	-29	45.0
	30.0	36.9		0.4
	28.6	35.5	-29	44.6
b	19 13	24.3	-29	38.7
		4.8		6.0
	19 13	29.1	-29	44.7
c	19 13	35.8	-29	42.2
		7.1		2.3
Not CPD	19 13	28.7	-29	44.5

19 13	28.6	-29	44.6	-0.2	0.0
	29.1		44.7	+0.3	-0.1
	28.7		44.5	-0.1	+0.1
19 13	28.8	-29	44.6	(1875)	
	1 34.9		2.6		
19 15	3.7	-29	42.0	(1900)	

α 3.7978 94.9450
δ 6.3201 158.0025
2 38

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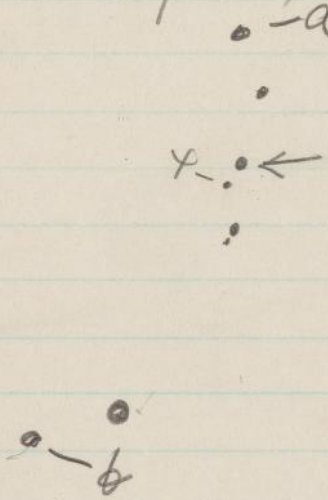
1926phae.proj.121rw

HB 859

Var. 242

Var. found Sept. 8, 1926

" on A plates, Bh. 49, f. 174



A 6137

Meas. Feb. 28, 1928

a very slightly follows Var if any diff.

B 28628

	CPD	Magn.	x-Var.	y-Var.	
a	-31 5957	9.1	0.05	5.0	Var. prec. S
b	-31 5962	9.0	7.55	9.2	Var. prec. N
c	-31 5964	9.5	10.87	4.0	Var. prec. N

a 19 8 12.2 -31 24.6

0.2 5.0

19 8 12.0 -31 29.6

b 19 8 45.7 -31 38.7

35.5 9.2

19 8 10.2 -31 29.5

c 19 9 2.7 -31 33.6

51.0 4.0

19 8 11.7 -31 29.6

x follows 0.20

S 0.15

3.8550 96.3750

5.8790 146.9750

2 [illegible]69750

xx4 recd

a	0.20	1.172	0.23440
b	30.20	1.174	35.48500
c	4.348	1.174	51.04552

Omit by

-31 5976 9.8

19 11 1.2 -31 18.8

-31 5977 9.4

19 11 1.2 -31 17.4

and -31 5983 10.3

19 11 32.5 -31 54.9

-31 5984 10.3

19 11 32.6 -31 59.0

Both These pairs are too close for usual selection but as there are two pairs, they ought to be all right.

19 8 12.0 -31 29.6 +0.7

10.2 29.5 -1.1

11.7 29.6 +0.4

39

19 8 11.3 -31 29.6 (1875)

1 36.4 2.4

19 9 47.7 -31 27.2 (1900)

Innes No. 101

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1926phae.proj.121NW

Regim 18 24 -23

No. 243 also, same star, No. 251

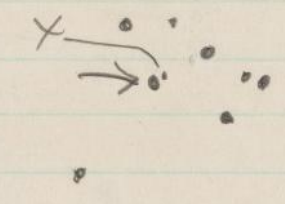
Var. found Sept. 8, 1926, on a plates, Bk. 40, p. 175

251 found Sept 9, on a plates, Bk. 40, p. 183

a 4714
meas. Feb. 28, 1928
c Sq a

Orient by:
-31 5898 9.9
19 0 33.2 -31 27.4
-31 5899 8.4
19 0 33.2 -31 17.1

mended plate, is black and thick. more difficult
Very large images



CPD -28628

		Magn.	x-Var.	y-Var.		x×4	sec δ	
a	-31° 5889	9.1	13.40	6.0	Var fol N	53.60	1.177	63.08720
b	-31 5893	9.4	9.00	9.5	Var fol S	36.00	1.174	42.26400
c	-31 5904	9.5	8.55	7.6	Var prec N	34.20	1.178	40.28760

a 18 59 33.2 -31 51.7
1 3.1 6.0
19 0 36.3 -31 45.7

b 18 59 53.2 -31 36.3
42.3 9.6
19 0 35.5 -31 45.9

Not CPM

c 19 1 13.7 -31 53.1
40.3 7.5
19 0 33.4 -31 45.6

19 0 36.3 -31 45.7 +1.2 0.0
0 35.5 45.9 +0.4 -0.2
0 33.4 45.6 -1.7 +0.1
152 22
19 0 35.1 -31 45.7 (1875)
1 36.8 2.2
19 2 11.9 -31 43.5 (1900)

x proceeds 0.20 mm
a little less than .1 m

0.80 1.164 0.93120 94080

α 3.8714 96.7850
δ 5.2398 130.9950 =
2 11.9

1926phae.proj.121NW

Innes Bb. 46 : 118

HB859

Var. 245

Var. found Sept. 8, 1926, on A plates, Bb. 40, p. 177

b

c

a

A 10, 149
Meas
March 1, 1928

Orient by
-33 5574 10.3
19 10 25.9 -33 10.4
-33 5575 9.2
19 10 25.9 -33 22.7

B 28628
CPD

	Magn.	x-Var.	y-Var.		x×4	dec'l	
a -33 5590	10.3	3.45	7.8	Var fol N	13.80	1.203	16.60 140
b -33 5594	9.1	1.00	7.8	Var prec S	4.00	1.199	4.79 600
c -33 5598	8.8	8.50	3.7	Var prec S	34.00	1.196	40.664

a 19 11 55.9 -33 46.4
16.6 7.8
19 12 12.5 -33 38.6

b 19 12 17.4 -33 31.1
4.8 7.8
19 12 12.6 -33 38.9

c 19 12 53.9 -33 34.9
40.7 3.7
19 12 13.1 -33 38.6

19 12 12.5 -33 38.6 +0.1 +0.1
12 12.6 38.9 +0.2 -0.2
12 12.2 38.6 -0.2 +0.1
13 21
19 12 12.7 -33 38.7 (1875
1 37.9 2.6
19 13 50.6 -33 36.1 (1900

Innes No. 105

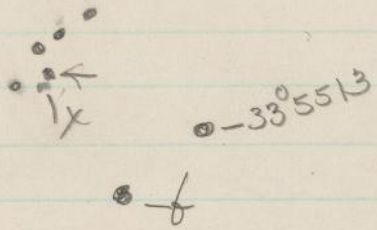
α 3.9171 97.9275
δ 6.2143 155.3575

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1926phae.proj.12TW

Var. 246
Found Sept. 8, 1926, on a plates, Bo. 40, f. 178

c — • • a
-32 5797



Orient by:
-33 5519 9.7
19 4 46.1 -33 31.9
-33 5520 10.2
19 4 46.1 -33 26.1

a 4914
Meas. March 1, 1928
More difficult because a mended plate

B 28 626
CPD

		Magn.	x-Var.	y-Var.		x x 4	sec δ	
a	-32 5795	9.4	8.22	14.6	Var follms S	32.88	1.190	39.12720
b	-33 5516	10.2	3.62	4.8	" fol. N	14.48	1.194	17.28912
c	-32 5800	9.4	9.70	9.2	" fwc. S	38.80	1.191 (1.205)	46.21080

a 19 3 50.7 -32 48.5
39.1 14.6
19 4 29.8 -33 3.1

b 19 4 10.3 -33 8.0
17.3 4.8
19 4 27.6 -33 3.2

not CPD c 19 5 14.2 -32 54.3
46.2 9.2
x follms Var 19 4 28.0 -33 3.5

.15 mm
0.20 0.80 1.193 0.95440 .71580 v

Smith ~~2.3~~ 0.3
(0.25)

19 4 29.8 -33 3.1 +1.3 +0.2
27.6 3.2 -0.9 +0.1
28.0 3.5 -0.5 -0.2
25.4 8
19 4 28.5 -33 3.3 (1875)
137.7 2.3
19 6 06.2 -33 1.0 (1900)

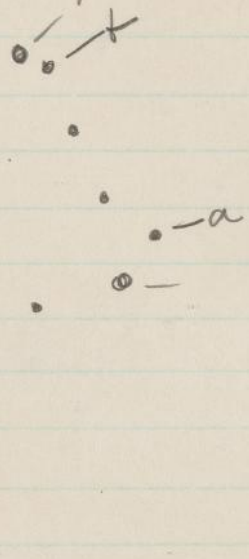
α 3.9081 97.7025
δ 5.5676 139.1900 =
3 19.2

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1926phae.proj.121TW

Var. 247

Var found Sept 8, 1926, on A plates, Bb. 40, f. 179



A 9058
Meas March 1
1928

Orient by
−33 5474 10.2
18 59 13.5 −33 5.1
−33 5475 9.4
18 59 13.5 −33 42.3

B 28 b
CPD

	Magn.	x-Var.	y-Var.		x×4	rec δ	
a −33 5451	9.8	10.00	3 2/3	Var fol S	40.00	1.198	47.88000
b −33 5456	9.4	4.75	10.3	Var fol S	19.00	1.195	22.70500
c −33 5461	9.2	5.92	4.9	Var prec N	23.68	1.199	28.39232

a	18 56 38.7	−33 19.5					
	47.9	3.3					
	18 57 26.6	−33 22.8		18 57 26.6	−33 22.8	+0.2 0.0	
				26.9	22.9	+0.5 −0.1	
b	18 57 4.2	−33 12.6		25.7	22.6	−0.7 +0.2	
	22.7	10.3		1 2	23		
	18 57 26.9	−33 22.9		18 57 26.4	−33 22.8		(1875)
c	18 57 54.1	−33 27.5		1 38.1	2.1		
	28.4	4.9		18 59 04.5	−33 20.7		(1900)
	18 57 25.7	−33 22.6					

α	3.9256	98.1400
δ	4.9737	124.3425

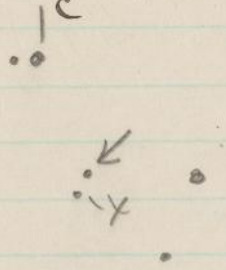
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1926phae.proj.121TW

218

Regim
18 24 -23

Var. 248
Found Sept. 8, 1926 on a plates, Bb. 40, p. 180



Oriently
-34 8344 10.2
19 5 54.4 -34 56.1
-34 8345 10.2
19 5 54.9 -34 39.3
Also end of t and
-34 8347 -34 45.6

a 11524
8X10
near Edge

-34 8348

B 28628
CPD

	Magn	x-Var.	y-Var.	x x 4	sec δ	
a -34 8345	10.2	5.06	5.6	20.24	1.216	24.61184
b -34 8350	10.0	1.75	12.2	7.00	1.217	8.51900
c -34 8352	9.9	1.05	4.4	4.20	1.213	~~3.89460~~ 5.0946

a 19 5 54.9 -34 39.3
24.6 5.6
19 6 19.5 -34 33.7

b 19 6 11.9 -34 45.9
8.5 12.2
19 6 20.4 -34 33.7

-34 8347
3.0 mm, pand

c 19 6 24.8 -34 29.2
5.9 4.4
19 6 ~~18.9~~ 19.7 -34 ~~38.6~~ 33.7

x follows
0.18
0.5 S

19 6 19.5 -34 33.7 -0.1
20.4 33.7 +0.8
~~18.9~~ 19.7 ~~33.6~~ 33.3 -0.7
288
19 6 19.6 -34 33.7 (1875)
1 38.9 2.4
19 7 58.5 -34 31.3 (1900)

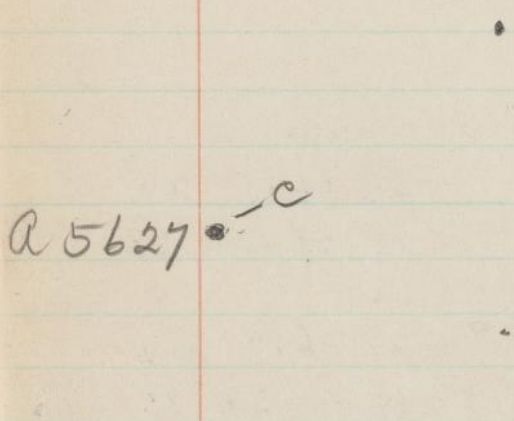
Not CPM
α 3.9550 98.8750
δ 5.9045 142.6125=
2 33.6

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1926phae..proj..121W

Is this CDM ?

Var. 249
Found Sept. 8, 1926, on a plates, Bk. 40, p. 181



Oriented by
−32 5951 10.0
19 21 56.8 −32 27.9
32 5952 10.2
19 21 56.8 −32 35.9

B 28628

CPD	Magn.	X-Var.	y-Var.		x×4	rec'd	
a −32 5960	9.8	11.65	2.0	Var. fr. S	46.60	1.185	55.22100
b −32 5963	9.2	1.00	16.8	Var. fr. S	4.00	1.182	4.728
c −32 5965	9.6	14.50	7.9	Var. prec. S	58.00	1.184	68.672

a 19 23 47.9 −32 27.7
552 2.0
19 24 43.1 −32 29.7

b 19 24 39.9 −32 13.5
4.7 16.8
19 24 44.6 −32 30.3

c 19 25 52.8 −32 22.8
1 8.7 7.9
19 24 44.1 −32 30.7

19 24 43.1 −32 29.7 −08 +0.5
44.6 30.3 +07 −0.1
44.1 30.7 +02 −0.5
28 .7
19 24 43.9 −32 30.2 (1875)
1 36.7 3.0
19 26 20.6 −32 27.2 (1900)

α 3.8614 96.66
δ 7.2465 181.1625

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1926phae.proj.121.TW

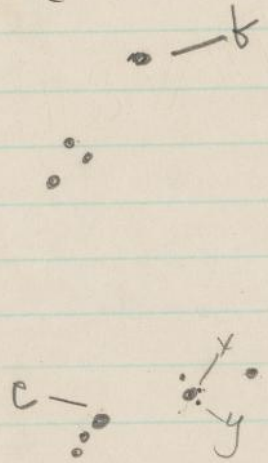
220 del

Serial ✱ stars ~~current~~ this year

Regm 1824-23

Note ✱ stars, if announced

{ No. 83 found July 19 1926 on B plates, Bk. 38, f. 217
" 191 " Aug. 4 1926 " A plates, 40, f. 113



Oriently:

-28 6645 10.0
18 34 12.6 -28 40.8

-28 6644 10.4
18 34 12.4 -28 57.8

a 2752
meas. March 5, 1928

B 36385

		Magn	x-Var	y-Var		x×4	sec	
a -28	6630	9.0	15.00	4.0	Var frl S	60.00	1.139	68.340
b -28	6634	10.1	0.78	13.8	Var free S	3.12	1.137	3.5505
c -28	6635	9.8	3.80	1.2	Var free N	15.20	1.140	17.3280

a 18 31 20.4 -28 37.2
1' 8.3 4.0
18 32 28.7 -28 41.2

b 18 32 31.2 -28 27.8
3.6 13.8
18 32 27.6 -28 41.6

c 18 32 44.2 -28 42.8
17.3 1.2
18 32 26.9 -28 41.6

18 32 28.7 -28 41.2 +1.0 +0.3
27.6 41.6 -0.1 -0.1
26.9 41.6 -0.8 -0.1
22 14
18 32 27.7 -28 41.5 (1875)
1' 34.9 1.2
18 34 02.6 -28 40.3 (1900

Art CDM

α 3.7967 94.9175
β 2.8310 70.7750

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1926phae.proj.121?

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1926phae.proj.121W

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1926phae.proj..121W

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1926phae.proj.121rw

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1926phae.proj.1217w

Milky Way Variables, near Ammonid

Region 17 12 -22 50 Vars. in H.B. 834
18 24 -23 25 " " 838
17 52 -36 10 " " 854 with mag.

	25	"	"		838
	30	"	"	"	854
	40	"	"	"	855
18 24 -23	12	"	"	"	857
	20	"	"	"	858?

16 53 -28.2 D.E.W. 21 Vars 857
Mira Surpe, including ^

1926phae.proj.1217W

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