



Measure of pos of Nova Sag. 1926, in
m. 10705

$$d = 14139$$
~~$$\begin{array}{r} 2.8 \\ \times 1.6 \\ \hline 168 \\ 280 \\ \hline 5-48 \end{array}$$~~
 (2×1.6)

Shura fallas	b	1.1	1, 2
	h.a.s.	1.3	1, 2

nura ~~f~~ ¹⁸ ⁷ ^{41,3} ⁻²³ ^{40.8}

~~f~~ ^{7.2} ^{7.3}

^{1.6} ^{1.7}

¹⁸ ⁸ ^{13.6} ⁻²³ ^{35.9}

more falls \times $\frac{9}{20.0}$
precedes \times
n. $\frac{-23}{404}$
 0.9
 5.26

$$\begin{array}{r} 18952.1 \\ - 10.8 \\ \hline 18941.3 \end{array} \quad \begin{array}{r} -2356.3 \\ - 15.7 \\ \hline -2340.6 \end{array}$$

Johns 1.0
7.6

$R.Q. 1875 =$

18	9	41.0	-	23	40.5
		41.3			40.8
		40.0			40.4
		<u>41.3</u>			<u>40.6</u>
		41.0			40.6

Mean 1875 18 9 41 - 23 40.6

Jan. 17, 1927

Measure for scale

R.G. 2.5 mm
Dec. 1.3Scale of M.F. plates, $1'' = 12^s$ R.G.
 $1'' = 2.8$ Dec.

Mean 1875 pos. of Horn

	18	9	41	-23	40.6
Precision		1	31	+	0.3
25 years					
(1906)	18	11	12	-23	40.3

Tuesday, Jan. 18, 1927

Nov. Sgr. 1926

Measures of Nov. M F plates 181123

1 image on each plate measured.
The sequence is rather far off, but I can get fair estimates.

	M F 10707	12.2	second image
	10705	12.4	5 th image
Sept 2 1926	10706	12.2	from 3 rd image
	B		Mean 12.3
4761	10722	12.3	3 rd image
Sept 3, 1926	10722	12.3	5 th image
4762	10724	12.4	4 th image
			Mean 12.3

B 21918 Sequence of Nov. Sgr. No. 3 181125-
H.S. L. Vol 45, 123, magnitudes also
published in H.A. 84, No. 7, p. 193
Nov. Sgr. 1899.6 181325

Monday, Jan. 24, 1927

Meas. of pos. of var at 20.8 + 54. x
 MC 9 831-
 Torpt. in a plate

a var punch 4.75
 " 6.70

b " fol 3.30
 " 7.15

c " fol 8.722
 " 5.65

d " fol 8.44
 " 17.45

e " punch 3.50
 " 14.35

No variation.
 When high, it is a
 prominent companion.
 It was in nearly same
 position in plates taken in
 different years and
 agrees (nearly) with that
 of Torpt. star in MC 9
 A plates.

Jan. 24, 1923
 Measure of scale MC 19935

C
 +54° 24' 33"

8
 + 68" dec,

4-70 R.A.

C = 20 47 58.54 +54 42 11.9
 20 48 50.69 +54 34 55.8

Tuesday, March 15, 1927

Kordylewski star near S Car
calc from Bh 15-3, 180

Measure of map Sep 128 K ^{12.2 - 15.2} MC 2934
H.S. Lib book 19, 124

ax 1681 var. n.s.

ax 1681
12.4
11.5

ay 1342 Feb. 4, 1927
var. 12.3
12.0

13.7
13.8

B38919 var. 13.7

ay 1369 Incl. 1-2, 1927
var. n.s. [12.6

B23308 var. 11.9

B 13250 var. 13.5

AC 21361 Apr 21, 1919
12.0 11.7

B21767 var. 11.4

B21593 var. 11.7

a 8857 var. 11.4

a 8838 var. 11.4

146026

13.9

146033 Aug 9, 1927

13.9

Med. Feb. 2, 1927

ax 725 sup. on D = ax 1805

1

Br. 1360
 " 725
~~1360~~

~~Fl~~
~~1805~~

~~Med~~
~~664~~

18 338

-29 10

Br. 664
 725

N.S.
 1316
 1360

Known Found by ~~sum~~

18 352 - 29 10

No letter assigned yet, although
 Lincosiris per. 276d

Feb. 2, 1927
 AX 1316 rupa - AX 1505-

1.	Br 1360	Fl.	Med
	1316	745	664
		1805-	

apparent 17 44 - 280 Range at least 1 mag.

Apparently new. If so,

Measure to get range & nature of var

Perhaps a Cepheid as it does not disappear
 on the plate at hand.

Faint on B16447 not on newer Cordoba charts.

Ident. by L.D.W.
 C.D.M. - 27° 12' 32" ✓ checked A.J.C.
 17 44.1 - 27 59.1 9.9

Feb., 1927
 AX 488 AX 1505

1 Brighten on AX 488

Machden B 29527 Bujes

M. f. Comp. of a darker or trapez
 ft. in B 26895- B 27445-

~~Probably Cepheid~~

1832 44.3 - 37 35.8

CDM - 370 12785 = H.D. Sp. Mb.

Apparently not km

Just north of U Cor. ~~Quast~~
 which is bright in AX 488

Br.	ft.	Mach.
488	1805	1360
765	1807	765
725	1807	1180
	1316	

U Cor. ~~Quast~~ - bright in 765

however, has range of 7 units to a mag.

Feb. 9, 1927
 AX 488 (emb.)

2 Run SX

3 Asteroid See AX 479
 where the object is seen N. of
 pos. in 488

0.4

4 Another asteroid, brighter than 3.

Seen in AX 479 and on
 AX 474 sup. in a bright
 stars

Moving with decreasing R.A.
 The shape of this one differs more
 than 3 from the stars.

5 on 488 not in 1805 Nova Sgr 1924 (no. 11)
 on 664 Found by J. E. W.
 Br. 535 See H. B. 851
 Feb 725
 Dec. 18 15.5 16 3-25 17.8
 Prof. H. for 18 15.5 16 3-25 17.8
 H. B. 3964. 18 15.5 16 3-25 17.8
 appears to be no. 7 in H. B. 36433 AX 1941
 1875

Friday April 22, 1927

-37012785

Exam. of sp. plates
no. 91m B39272

B48285-

Aug 13, 1889
Sp. ft. but no marked change from 39272 18440

B13830

June 26, 1895-

Br. No change in sp.

B13786

June 17, 1895

Br. Near edge

B14374

Aug 15, 1895-

Br. no change

B20183

Loop on.

B39000

Aug 25, 1908

very br. no change

B40727

Aug. 16, 1909

Br. No change

B41251

May 14, 1910

Br.

B39339

Br. July 21, 1908 No change

B39219

June 21, 1908 Br.

B20082

Aug. 17, 97 Br.

April 22, 1927

Exam. of AX plate from new van

-37° 12' 785-

AX 63 June 23, 1924 Br.

23960

765 Aug. 22 " sl. ft. Mount. Ingers trane 24020
 770 " 25 " ft. 24023
 793 Sept. 4 " " 4033

1049 Aug 14, 1925 Br. 2424285.
 1166 Aug 29 Br. 4300.
 1284 Aug. 15 sl. ft. 4378
 1360 Oct 8 " " 4432
 1571 Apr. 17 1926 Br. 4623
 1625 Aug 12 " " 4648
 1650 " 18 " " 4654
 1757 July 9 " med. 4706
 1853 Aug. 26 " Ft. 4754

Apr. 22, 1927
New, ran
Oct 19 - 45

-37° 127 85

535 May 13, 24 Br
528 May 12, 24 Br.

2423858.

601 June 10, " "

614 " 23 " "

622 " 24 " "

652 " 3 " "

689 July 2 " " 2423974

713 " 24 " slightly fl.

763 Aug. 21 " South ft.

806 Sept. 6 " very fl.

865 Oct. 17 med h.

3965
645 June 28, 24, Br 3918.
3947

664, July 2, 24 input 3960

3961

3940

725 July 26, 24 el. fl. 3993

3991

4029

4035

4076

1068 May 19, 25 1925 Br.

2424290.

1107 May 24 Br.

4300

1146 June 18 "

4317

1196 June 25 "

4320

1258 July 27 familiar

4327

1275 Aug. 11 fl. ft.

4359

1292 Aug. 20 fl.

4374

1295 Aug. 24 very fl.

4383

1368 Sept. 8 fl.

4387

1373 Oct. 15 med

4402

1578 Apr. 20 1926 Br. but not at hand

4440

1640 May 15 very h.

4626

4651

Apr. 22, 1927

-37° 12780

At 1657 May 20, 1926, Br.

2424656.

1706 June 16 "

4683.

1735 July 3 "

4700

1792 July 6 ²⁴² 4703

sl. fl. - 1805 July 30, 26 fl. 4727

1837 Aug. 11

4739

1891 Sept. 8

4767

1969 Oct. 25

4814

At 1941 Oct. 5

fl.

4794

B36895 Sept. 6, 1905
fl.

2417095

B27445 May 27, 1911
fl.

2415532

B29527 Apr. 29, 12
Bright.

2415869

B30816 June 12, 1912
sl. fl.

5913

B25389 May 22, 1900
sl. fl.?

5162

B32628 Sept. 3, 03
sl. fl.?

6361

April 23, 1927 -37° 12785

44972

44993

47214

47274

47538

47613

~~Br.~~ Br. Jan 23, 1916

18957 Apr. 23, 1897 fl - than normal

D
241
4038

19086 Increased plant

19219 Sl. fl. Aug 28, 1897

4071

19245 " " 28 "

4073

19449 nearly normal June 8

4084

19690 " " July 1

4107

Monday, June 6, 1927

Estimates of height of Var. $-37^{\circ}12785$
 Sep.

On AX plates, estimates are uncertain when star is bright, owing to the adjacent plate, some of the variable

1925

May 19

AX 1068

10.0

2424290.

Aug 29 1107

10.0

4300.

June 18 1164

10.1

2424320.

June 25 1196

10.0

1735 July 3 10.6 2424327 - 4335

July 27 1250

10.5

4359

Aug. 11 1275

10.6

4364

Aug. 20 1272

11.0

4386

" 24 1293

11.2

4390

" 24 1308

11.8

4404

Sept. 10 1316

11.8

1373

10.8

-37°12785

Plates of 1928
AX

Apr. 20, '26	1578	10.6	2424626.
May 15	1640	10.1	4651.
May 20	1657	10.1	4656.
June 16	1706	10.0	4677.
July 16	1792	10.5	4713.
Aug. 11, 1926	1837	10.8	4739.
Sept. 8	1891	11.0	4767.
Oct. 25	1969	10.9	4814.

1923 Tuesday, June 7, 1927

Am 16230 -37° 12785

Apr. 25, 1923

Very bright.

2423535.

9.9

Marked in red

May 21

16262

10.4

3561.

June 5

16296

10.6

3576.

Aug. 7

16351

11.0

3639

1922

May 6

15767

10.3⁴

2423181.

19

15795

10.2

3194.

31

15826

10.3

3206.

June 16

15869

10.7

3222.

29

15909

10.8

3235.

July 11

15931

10.9

3247

20

1923

-37° 12' 78"

June 7, 1927

July 11

15931

10.9

2423612.

12

15934

10.9

3613.

29

15980

10.9

3630

Aug. 8

16014

10.9

3640

10

16017

10.9

3642

Sept. 8

16059

10.8

3671.

Sept. 13

16068

10.7

3676

Oct. 18

16120

10.7

3711

Wed. June 8, 1927

Var. found in $\alpha \times 1316$ (see p. 9)

CDM - $27^{\circ}12032$

ident. by L.D.W.

Sequence 17 44.1 - 27 59.1 9.9
 40 Rs. Rh. 48, 118 marked B 44676
 Bright.

Magnitudes

Corrected to 1922 scale

3 = 10.61 +22	10.83
4 = 10.84 +23	11.07
5 = 10.98 +24	11.22
6 = 11.39 +24	11.63
7 = 11.58 +24	11.82
8 = 11.58	
9 = 11.96	
10 = 12.51	
11 = 12.96	
12 = 13.16	
13 = 13.59	
14 = 13.75	

See next page
 mag magns expand here

June 8, 1927

40 Ks

B44576

Bl. 48, 135

3 = 10.65	+22	10.87
4 = 10.83	+23	11.06
5 = 10.96	+24	11.20
6 = 11.48	+24	11.72
7 = 11.60	+24	11.84
8 = 11.71	+24	11.95
9 = 11.93	+24	12.17
10 = 12.48	+25	12.73
11 = 13.06	+26	13.32
12 = 13.26	+26	13.52
13 = <u>13.54</u>	+26	13.80
14 = <u>13.71</u>	+26	13.97

~~ex 677 July 4, 24 Boyer~~

June 8, 1927

-27° 12032

ax 770

12.3

2425040.

Sept. 25

1316

10.9

5149.

ax

1924

ax

Apr 29 488

11.2 ✓ 3905.

Apr. 28

474

11.2

May 13 ax 535

11.3 3919

May 3

504

Bright horizon.

3909.

608

med. horizon.

June 23

613

12.1

3960.

27

640

faint horizon.

3964.

28

645

11.7

3965.

July 26

712

faint *

3987.

Aug. 21

725

faint

3992.

762

faint

4019.

770

faint 12.3

Apparently ft. higher than bright.

June 8, 1927

CDm - 27° 12032

1926

July 30	1805	ft.	12.8	4727.
---------	------	-----	------	-------

Sept 28	1919	ft.	12.9	4787.
---------	------	-----	------	-------

Oct 5	1941	ft.	13.0	4794
-------	------	-----	------	------

Apparently a Cepheid. See also
 May and Walcott. Pl. 2, 157 for measuring
 M_F and B_F photos. Perhaps of cluster
 upper as it is fainter than bright.

June

Mora Spz. 1924 J. E. W

Star Nov on the AX & ff

Not on 1805 - July 30, 1926

D 242

Br. on well seen

4727.

5-35 May 13, 25

1941 Oct. 5, 1926

4794.

1919 Sept. 28, "

4787.

1360 Oct. 8, 1925 -

4797.

Tot

770

725 July 26, 1924

3993.

613 June 23 "

3960

Saturday, Aug. 13, 1927

Goel's morphologist reported on post card
Dr. Chapley, as 9th magn. in
July 30-31, 1927.

of AX & AI plates
from him

AX 1647 May 17-18, 27
m.s. [13

2425018.

Seq. 46 Rs marked in plate

June 8-9. AY 1485 m.s. <11

2425040.

AI 25545

m.s.

~~June 18-19~~ AY 1499 where

June 21-22 AY 1503

2425043.

June 24-25 AY 1507 7.9

5048

8 very poor image.

June 27-8 AY 1507 8.10

5051

Wolfs nova cont.

Q July 5-6	Aug 1577 8.X2	Parr 1st seg.	2425067
			5070
July 8-9	Aug 1522 9.1		
July 25-26	Aug 1529 9.8		5087.
Aug 5-6	Aug 1547 9.7	1st 6th seg.	5098

Monday, Aug. 15, 1927
 Wrote more
 old plates

June 17, '23	Ax 125 m.s. $\angle 13$	2423588.
July 12,	Ax 144 m.s. $\angle 12$	3618.
Aug. 9	Ax 181 m.s. $\angle 13$	3641
Sept. 4	210 m.s. $\angle 12$	3667.
Oct. 6	Ax 260 $\angle 13$ m.s.	3699
May 26, 1924	Ax 556 m.s. $\angle 13$	3932
June 26	Ax 633 m.s. $\angle 13$	3968
Sept. 3	Ax 790 m.s. $\angle 12$	4032

Aug. 15, 1927

1925
May 14

AX 1050

m.s. 213

2424285.

June 17

AX 1158

m.s. $\angle 13.5$

4319.

July 11

AX 1216

m.s. $\angle 13$

4343.

Oct. 7

AX 1355

m.s. $\angle 13$

4431.

1926

(May 11)

AX 1620

m.s. $\angle 13.5$

4647.

June 14

AX 1698

m.s. $\angle 13.5$

4681.

July 17

AX 1795

m.s. $\angle 13$

4684.

Aug. 2

AX 1812

m.s. $\angle 13.5$

4730

Sept. 13

AX 1905

m.s. $\angle 13$

4772

Oct. 2

AX 1924

m.s. $\angle 13.5$

4791

Aug. 15 1927
Am plating No. 10

July 25, 1899 Am 10
July 29 " Am 28 " n.s. < 10.5

1900 Mar. 31 Am 403 2425110.
n.s. < 9.5

" May 22 473 n.s. < 10 5162.

July 25 536 < 9 5226
Sept. 3 622 < 10.5 5266

1901 Aug 22 800 n.s. < 9 5527

28 818 " < 10 5536

July 5 897 " < 9 5571

Sept. 3 1021 " < 9.5 5631

1902 May 2	Am 1237	m.s.	< 10	2415872.
May 28	1287	a.s.	"	5898.
July 10	1448	m.s.	< 10	5941
Sept. 22	1583	m.s.	< 9.5	6015

1903 May 6	Am 1918			6241
June 12	2110			6278.
July 14	2119			6310.
Sept. 1	2245-			6359.
18	2279			6376

not seen

1904 Apr. 22	2573			6593.
May 19	2660			6620
June 20	2769			6652
July 21	2857-			6683
Aug. 4	2915-			6697

Aug. 15, 1927
 briefs from

1906 Sept 5 Am 4540

2417459.

1907 May 3 Am 4501

June 28 4941

Wt seen

7699

7755

1907 July 2 4962

19 5021

7759

7786

Aug. 19 5087

7807

Sept. 18 5764

28 5775

7837

7847

August 15, 1927

1908 Apr. 22

Am 5398

2418054.

May 27

57899

8089

July 2

5721

8125

Aug. 6

5741

8160

not seen

Sept. 13

5814

8198

1909 May 13

6126

8440

May 27

6172

8454.

1912

8309
N.S.

August 16, 1927.

Sequences for Walfs Hora.

46 125

Bh. 7, 188
48, 144

Wed., Aug. 24, 1927

Measure of Wolf's hour, ^{avg.} sep. of Port Lk.
region from file.

Seq. marked as Ay 1545

Ay 1545

10.0

Ay 1477 June 3, 2425035
n.s. K12

Ay 1507

7.9, 8.1, 8.2

Ay 1510 June 30, 5062
8.3

1522

9.3

Ay 1512 July 3, 5065
8.2
8.5

1529

10.1

very poor images

1489

1545

10.8

6.4

1547

10.2

1564

9.5

1517

8.7

images much distorted

Aug 1503 briefs lava (cont.)
7.9 near edge & images distorted

1563 9.6

1485
just 9 m.s. very poor.

1571 9.3
Aug 17

1570 9.4

1562 Lorpore

1535- 10.4

MR 22619 10.5-
Aug 3

Aug 1592 9.9

	Aug. 24, 1927	normal
June 24	AI 25571	2425056.
AI 25571	7.9	
✓ 25617	8	
July 28	10.4	5090.
✓ 25655	(17 ^h + 15). For near edge of sun to short ft. lens.	
AI 25663	9. 4 ⁴	
Aug. 17		5110.
✓ 25824	10.3	
Aug. 3		5096
AI 25545	n.s.	
June 8		5040
AI 25656	dash from plate.	
✓	9.6	
AI 25629	10.5 - difficult.	
✓ 25834		
Aug. 5	10.2	5098
I 46224	9.5	
Aug. 17		5110.
AI 25604	9.8	
July 24		5086.

Thursday, Aug. 25, 1927

Nova

Nova

MC 22544 May 28

2425029.796

ms. L16

Sept. 9, 1927
List of plates showing info from Agl

Plate	Date	J.O.	
Mc 22558	June 5, 1927	25037	when
ay 1485	June 8, 27	25047	u.s. 511
ay 1489	June 15, 27		.718 ✓
ay 1503	June 21, 1927	25053	.740 ✓
ay 25571	June 24, 1927	25056	.730 ✓
ay 1507	June 27, 1927	25059	.689 ✓
ay 1510	June 30, 1927	25062	.2730 ✓
ay 1512	July 3, 1927	25065	.8711 ✓
ay 1517	July 5, 1927	25067	.8757 ✓
ay 1522	July 8, 1927	25070	.672 - .713 ✓
ay 25604	July 14	25086	.674 ✓
ay 1529	July 25, 1927	25087	.577 ✓
ay 25617	July 28, 1927	25090	.692 ✓
ay 1535	Aug. 2, 1927	25095	.665 ✓
Mc 22619	Aug. 3, 1927	25096	.691 ✓
ay 25624	Aug 3, 1927	25096	.655 ✓
ay 25629	Aug. 4, 1927	25097	.631 ✓
ay 25634	Aug. 5, 1927	25098	.636 ✓
ay 1547	Aug. 5, 1927	25098	.715 ✓
ay 1562	Aug. 13, 1927	25106	.594 ✓
ay 1563	Aug. 15, 1927	25108	For prom. .617 ✓
ay 25656	Aug. 15, 1927	25108	.559 ✓
ay 1564	Aug. 15, 1927	25108	.647 ✓
ay 25663	Aug. 17, 1927	25110	.608 ✓
ay 46226	Aug. 17, 1927	25110	.627 ✓
ay 1570	Aug. 17, 1927	25110	.543 ✓
ay 1571	Aug. 17, 1927	25110	.613 ✓
			9.4
			9.5
			9.4

Plate Date J.D.
 Ay 1572 Aug 19 '27 25112.616 ✓
 Ay 1576 Aug 24 '27 25117.628 ✓
 Ay 1582 Aug 25 '27 25118.563 ✓
 Ay 1583 Aug 25 '27 25118.608 ✓

ay 1588 Aug. 29 25122.557
 ay 1591 Sept. 3 25127.595
 ay 1593 Sept. 4 25128.608
 ay 1619 Sept. 12 25136.558
 ay 1623 Sept. 15 '27 25139.563
 ay 1603 Sept. 8 25132.533
 ay 1618 Sept. 12 25136.519
 ay 1622 Sept. 15 25139.519

1

Tuesday, Sept. 13, 1927

No. 1588 (cont.)

Aug 1588 10.1, 10.2 1564 9.5

Aug 1591 10.7, 10.7 1570 9.5

Aug 1593 10.4, 10.5 1571 9.4

1545 10.2 1572 9.7

146224 9.4 elongated 1576 10.3 10.3

1582 10.3 10.3

1583 10.3 10.3

Aug 1489 6.4

1517 8.7

1503 8.0

1510 8.5

Sept. 13, 1927

Moralyl

A 25371
7.9MC 226, 9 too difficult
near edge, near the 6.4 in lightA 1522
9.5MC 22538 out of
June 5, 1927 2425037.A 1507
7.9A 25620 very poor, 10.2
25629 " 10.1 from
25659 " brightA 25634
10.2

25656 9.6

A 25634 10.1

A 1512
8.1

1529

1603

10.0 bad shape

1535

10.3

1547 10.2

1563 9.6

1562 too poor

Sept. 13, 1927 Nova Aql

MC 6276 shows a ft. star near
pos. of Nova but ^{following} ~~from the~~ p 12 or so.
to magn. about 15.6
Compare with Novam MC 22619
and it seen that they do not correspond

MC 22544 May 28, 1927
m.s. $< 15^-$

2425029.

Nov. 21, 1927

Observation of Nova Tauri
 $5-15+16$

Spectrum on Nov. 20 shows
 H β , H γ , H δ , H ϵ & 4640 line
 4640 is 5 times as bright as
 the hydrogen lines

Sep. C3. Magnitude from Miss Walker's chart

Sep. C3

Corrected this for 1922 scale

Sep. to stars AC 1615

AI 25746 Sept 25
 8.1

2425149.

AI 25765 Sept. 30

5154.

Brighter than star 1, 6.6 - 6.0

AI 25792 3+15

no eff

AI 25793 Oct. 6

5160

AI 25839^{6.4} Oct. 20
 7.5

5174

Nov. 21, 1921

AT 25809
when1922
Scale

Sept 25 8.1 8.2

AI 25906 Nov. 4 2422998.

29 6.2 ✓

30 6.9 ✓

8.4

Oct 5 6.4 ✓

Oct 6 6.4 ✓

Ay 1805
when

9 7.2 ✓

10 7.2 ✓

16 7.4 ✓

ay 1793 Oct. 29 2422992.
8.3~~20~~ 7.6 { 7.5 ✓ 7.6

26 8.1 8.2

29 8.3 8.4

ay 1742 Oct. 16 2979.
7.4

Nov 4 8.4 8.5

19 9.3 9.4

20 9.6 9.7

Sept. 11 [11.5] [11.7]

ay 1701 Oct. 9
7.2

1912 Oct 19 [15] [15]

ay 1669 Sept. 29
6.2

AY 1777 Oct 26

8.1

AY 1709 Oct 10

7.2

Janis
Nova Comb.

Nov. 21 1921

AY 1691 Oct 5

~~7.7~~ 6.4

AI 25839 Oct 20

7.7

mean 7.6

AY 1610

AY 1860 Nov 19

9.3

AY 1863 Nov 20

9.6

AI 25957

9.4

} not in HAC 37

AY 1617 Sept 11

10.5

AI 25795 Oct 9

7.3

Nov. 23, 1927

add. plates Nova Lonsi

AT 25813 Oct 11
7.1 Plate scratched
 $\begin{array}{r} 7.1 \\ - .04 \\ \hline 7.06 \end{array}$

AT 25778 Oct. 4

6.5
 $\begin{array}{r} 6.5 \\ - .02 \\ \hline 6.48 \end{array}$

J46323 Oct. 4, 1927 mag. plate
46324 5-4-21.0

One edge of plates very bright,
but bad shape & sep. off plates

Dec 5, 1927

Additional obs. of Nova Sami ⁰⁵¹³¹⁶ ~~051714~~

246454 11.2 Nov 29
 $\frac{22}{11.44}$

MC 22943 ~~Nov 29~~ Dec. 1
 11.4 11.62

ay 1867 Nov. 23

10.0
 21
 10.2

Feb. 6, 1928

Obs. Inra Lami cont. from Dec. 1,

0518³-16

Plates coming again

ac 26871 5-45-0
26873 5-22-0

~~18 46454~~
~~1 46472~~
~~1 46497~~
~~1 46527~~

at 25978 6 +15-
26039 5 +15-
26042 6 0.0
26087 5 +30
26053 5 0.0
26064 5 +15-
26109 6 +30
26114 5 +5-

af 1909 5 +15-
1919 6 +30
1925 6 0
1936 6 +30
1956 6 +30

Feb. 6, 1928
Obs. Nova Lami (cont)

I plates

I 46472 Dec. 17, '27 12.8 13.1

I 46497 Dec. 24, '27 12.7 12.7 mm

I 46527 Jan. 17, 1928 12.1 11.9 mm. 12.6 12.3
Certainly brighter than in Dec.

RH 44 ~~Jan. 17, 1928~~ Jan. 27, 1928

11.9 $\frac{12.4}{12.1}$ Image somewhat elongated

MC 23107 Jan. 25, 1928

11.9

11.8 $\frac{12.4}{12.1}$ 11.7 mm

Feb. 6, 1928

AI 26138 Jan. 25, 1928
Tropopause

AI 26039 Dec. 19 Tropopause
does not show stars ft. enough

af 1925 Dec. 14, 1927
n.s. stars fall. seen

af 1919 Dec. 12, 1927
n.s. < 11.2

Mar. 7
Mar. 8
Mar. 12

AI 25914
25918
25931

all Tropopause to show stars

Nova Lani

Friday, Feb. 10, 1928

J46579

11.9

$$\begin{array}{r} 11.9 \\ + 0.23 \\ \hline 12.13 \end{array}$$

J46578

11.9

12.1

Tuesday, Feb. 21, 1928

Nova Lani

AI 26067 Dec. 29 ^{6 + 30}

Nova pub. seen but image too poor

AI 26064 Dec. 27
not found

1 - + 15

AI 26868

Nova barely seen (on standardizing mask)
Too poor to measure.

Tuesday, Feb. 28, 1928

Mora Lam:

A I 26207 Feb. 20, 1928
 n.s. does not show ft. sunspots

AC 26914 Feb. 21

Mora barely glimpsed, in part
 to measure

246586

12.1

reduces to 12.3

Wed. Feb. 29, 1928

B22862, new var. found
while looking for W. Corbin

H_γ, H_δ highest

Feb. in B30312

n.s.

335885 mag. 3, 190K

Br. B16157 June 5, 1896.

Jan. 26, 1932

Rec. objects picked up while examining recent plate from Bloemfontein.

MJ 15482 $17^h 55^m - 43.0$

MJ 18, 1931 J.D.

1. Faint sp. $17^h 34 - 47^m 5^s$ (amp 895)
as it appears to have a narrow dark line
on edge of shorter transverse.

The region has been examined by Miss Boyd,
who looked up the star & confirms variability
with of Nova type.

New

measured
for. Get

range.

CC Area

14.13.891

H γ 45 bright. H β not well seen in last
a faint sp.
H γ = 10 H β = 8

measured by Miss Boyd on 300 plates.

2 In Fire 82 Jan. 26, 1932
P Cyg + neb?

H γ	10	
H δ	7	
H ϵ	1	
H ζ	1	
8727	3	out of focus
{ 5007	2	Superfumer another spectrum
{ 4929		

R.D. 161044 17 38.2-46 3
Pec. P. Cyg. type

Earlier plates do not show the nebular lines, or perhaps there is a P Cyg type star surrounded by a nebula.

H.C. 224 states that nebular lines are seen in this sp.

State A 4411 60^m No neb. seen

that object B 9811 122

is a planetary nebula? Evidently the object is a "planetary neb." for the shape does not differ from that of other stars.

P. Cyg. type

Jan. 26, 1932
M. F. 15482

me

Hr = 10

H5 = 11

Sp. hazz. I. b. bands not very strong.

KS Sec

Ann. in

H. B. 891

Miss Boyd reports that this was found
by Miss Woods, that the per. is 429^d, range
11.4 - 16.3

Jan 26, 1932
M F 15442

4. Var?

Def. Sp. appears to have a br. line but does
not within same way as actin line
so probably a defect.

M F 12007 shows 2 sp. superimposed.

5 Br. line

Known H. D. 160205

6 N or R

Known R5- H. D. 164889

W.F. 5462 Jan. 26, 1932
18 45 - 36.0

1. Per. sp. Perhaps very late M. Per. line?

Rough 1875 18 17.0 - 39 30

2. Br. with

$H\gamma = 1.0$ $H\delta = 1.5$ $H\epsilon = 2$

Known
RV Sp.

3. A slight appearance of br. lines
not confirmed.

4.

R5
H.D. 170282 R5

Known

Shows dark H γ K

MF 15462 Jan. 26, 1932

5. Me $H\gamma = 10$ $H\delta = 4$

James star of 18 20.4 - 34 46 (1900)

Within 1932 Praeger

Sp. faint, brightest bel. $H\beta$ & $H\gamma$

Period given by James.

Why not named?

No name yet. 1936, name 1937 after

6 Dark bands strong bel. $H\gamma$ & $H\delta$.
One is perhaps 4227 broadened
The others - near $H\delta$.

7. Me

183233

$H\gamma = 10$ $H\delta = 5$

James star 18 32.1 - 33 53 (1900)

Within 1932 Praeger

Period given by James.

Why not named?

v 444 Sp

M J 5462 Jan. 26, 1932

8 Gas. neb.

Known H. D. 173283 Pl.

Known 9. R 0 H. D. 173409

10 Sp. Me
H_r = 10 H_δ = 8

Messier pos.
~~set~~ 18 43.5 - 41 20 (1875)
11.5 - 11.45
P = 220[±] m L m

CN C₂
H. B. 891

Sp. also in M J 15503

Mo₂ H_r = 10 H_δ = 7

Mr. F. 15462 June 26, 1932

11 Feb. H. D. 175194 Pol
Known

H. D. 897

12 Me $H\gamma = 1.0$ $H\delta = 1.0^2$

Kummer Van. $u \times CrA$
sp. with known 18 50.7 - 37 58

~~H. B. 897~~ sp. Mo fl. Feb. $H\gamma$ & $H\delta$
H. B. 897

Jan 26, 1932

M F 15384

17 20 -50.0

1
KnownH.
H.D. 153432 Neb. var.

2.

Apparent h. lines. Two or three sp. superimposed.
Look up on actual plates

✓

17 24 - 55 0 (rough 1875)

no variation seen on 85 plates

3.

1 h. line

✓

Probably a defect. Inclined differently

4

Known

Gas. neb

H.D. 156131 P.D.

5

Known

Neb.

H.D. 161044 P.D. P.Cy. type - H.D.

Same object as No. 2 on 15482. see p. 59

3727 short. 5007 m.s.

Does P.Cy. type ever have 3727?

Corrected in
H.C. 224

MF15384 Jan 26, 1932

G M?

H. D. 156294 hb van

7 R?

H. D. 156837 Ro

Bright Class O star near

Jan. 26, 1932

In F. 5484

18 30 - 29.0

1 Gas. neb

H.D. 166449.

Known

2 Gas neb

H.D. 166468

Known

3. 18 9.7 - 30 54

H.D. 167365 Pic, H.C. 224 states it is the nebulae

Known

4. Neb ~~2 or N? or something else, towards edge,~~

H.D. 170839

Known

5 Neb

H.D. 173283

Known

Jan. 26, 1932

M 715483 18 15 - 22.0 May 18, 1931

R or S?

1 H.D. 166129 R,

Known

2 Gas neb.

Known H.D. 169460 Pd

3. Gas neb.

Known H.D. 170839 Pd

4 In? or something else;

Look up

18 26 - 22 50

Smith.

~~Unknown H.D.~~

See B 40616

H.D. 171131

Plan neb.

5. N. -19° 4805 17 53.9 - 19 10 R?

Unknown H.D.

See if announced in Circulars later than H.D.

Look up. M.S. in M 71020

N? on 8691 (near 69)

m 12210

M F 15483 Jan. 26, 1932

6 Br. Lincis? ref. 17 59. - 18 30 (1875)
 H.D. Confirm if possible.

✓
 Too indefinite

✓ 7. Red Clam 17 59.8 - 18 10
 M F 8891 2199 K7

8 Gas neb.
 H.D. 166935 Pd
 Known

2 Bright Class O star ~~(near D)~~ not numbered

Jan. 28, 1932

In F12007 17^h 20^m - 43.0 July 13, 1928

✓ 1 Hy h.
Same as No. 1 in M.F. 0482
New A.C. Allen

2 Neb. Same as 2 in 15782
17 34 - 46
Known 3727 strong
5007 fainter H.D. 161044

3. Neb. Hy strongest
17 17 - 44 angle, (1900) 17 19 - 44 10
Known? here? HD 157595 Pc

4 Neb.
17 11.5 - 45 50 (1900)
Known HD 156294 Nb

Jan. 28, 1932
M 712 37 incl.

5. Van. M 4
125 bzjeb.

Known

17 35.8 - 43 35

HD 160496 17 35.1 - 43 42 Md R 21 Sco

6 Bzjeb band. Neb. or defect.

Known

M star No. 5 on 15782

Known HD 160205 17 17 Sco

7 Neb.

Known

H. D. 061028.

17 38.1 - 44 52

Jan. 28, 1932

M F 15503 18 RU - 36 May 20, 1931

1 Gas neb.
Known Known HD 173283 Pd

2 Var. RV Sgr.
Known 18 19.7 - 33 24 (1875) RV Sgr.

3. H3? very banded
Known HD 170282 R5
H+K seen clearly.

4 Bright band.
Probably a defect
18 382 - 37 30 (Rough 1875)

74

MF 16101 April 12, 1932
20 42 + 35.0

Known

1.

DM +36° 4028 20 16 45 + 36 27.5 9.5
HD 193928 Oa

Known

2.

DM +39° 4223 20 26 18.6 + 39 23.2 9.2
HD 195728 Mc

Known

3.

DM +32° 3850 20 25 48.3 + 32 50 9.1
HD 195665 η var. AD Cyg

Known

4.

20 38.1 + 37 35 (app. 1855)

var. DR Cyg 20 38.2 + 37 38 (1855)
M3c $H_p = 10$ $H_s = 9$

per 320 days

5.

DM +34° 4134 20 37 57.9 + 34 32.8 9.3
HD 197604 R

Known

October 6, 1932

m. F. 1932

The spectrum marked some time ago,
Approx pos. 16 7 - 32.0 1895

Spectrum No 3 $H\gamma = 10$ $H\delta = 25$

21 chart B plates examined. ✓ Star generally m.s.

KR₂ Brightest in B 48044 July 24, 1916

Seen but faint in B 27077, 29277, 44098, 18887

H.B.

891 Probably hard to get a period due to faintness,
and invisible in many plates.
RB plates might do for later years.

Measured later by M.L.M. who gets elements
J.D. 2426140 + 357² E. 11.6 - 14.4

Oct. 6, 1936

M_F 20972

Aug. 26, 1935

Pec. sp. marked on this plate

1.

Moe $H\delta = 2 H\gamma$ $H\gamma, H\delta$ largestfr. m_F 16347

Br. B27, 524

S R Seo

1875 po.

17 39

56.6

- 35

39.2

(R.E.S.)

2.

 $H\gamma, H\delta, H\epsilon$ L.

P Cygni class?

17 51 31.2 - ³28 49.3 (R.E.S.)K_{norm}

HD 163872

17 53.3 - 38 49

P_c

Oct. 6, 1936

M 120972 (cont.)

3. M32 HJ-414

var.

Fullons H.D. 162982-17^h 48.1 - 37.5-

Jr. B27112

V438 Baulean M 16307

Sco H.S. B 3157, 3585, 35712, 40484, 45771
medium B 60130 July 4, 1935-

Hr 7037

Sunfe H.A. 90, No. 7 Dec. 1935-

17 50.5-37 28 (1900)

Oct. 6, 1936
MF 20972 (cont.)

4. H.D. 158860 Ob

Looks like a double star. Shape slightly elongated in MF 6347
Bright lines correspond to s.f. part of chart
Known image

5. Bright band in fr. spectrum
Near Class O

Conf. in MF 21083
marked in B 49861

6. Bright band in very fr. spectrum
Near Class O

Conf. in 21083

marked in B 49861

Oct. 6, 1936
 M F 20972 (cmh)

7. Class N. Fit.

conf. on 21083, where it is more clearly defined

Known H. D. 16059,

8 Class R

near apex 17 58 -32 42

9 Class R

Known R5 WCA

Oct. 6, 1936
m f 20972 (unk)

~~G R faintly bright~~

10 R? very h. band at red
HD 160205
TT Sco

Rome

Mar 24, 1936

~~AP~~ Ann.
 AP marked in 17410 chart
 MF 10016 A₃

also MF 10030
 10072
 10069

Nov. 26, 1937

M^F 23270 18^h 15^m - 29^s

1. Faint neb. probably not known
 seen also on M^F 12048 July 18, 28
 M^F 15484 May 18, 31

Other objects marked are defective or known

marked on edge of ^{M^F} 10142, check, and is the position of the
 neb.
 On ^{M^F} 12048, looks like a neb. as 4955 and 5007 appear
 when seen on 23270, not H₂, H₂S etc.
 Check image then later, so if a neb., it is planetary

Feb. 11, 1938

M F 23657

1. Van. H_γ, H_δ h.
2. Neb.
Known
3. H_γ h.
B R Sgr?
4. Very bright Class O
Known
5. Neb.
In H. D.
6. Neb. jct. in new list
7. P Cyg. in new list
8. n in new list

Wf 23657 (cont.)

9. Miss Bunnell's Horn
1936.

10. H. In new test

11. neb. In H. D.

12. R. In H. D.

13. Flamh. Probably an M. S. star

