KG
11.365
709

astro-ph/9411066 proj. 7 Feb

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KQ 11365, 709

W Centauri - completed -

T " "

RT Virgo "

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Subject.	Page.
Meas. ℓ Centauri $13^h 29.5 - 55° 48$	4-5, ~~20-21.~~ 22.
RT Virginis	6-10, 20-21
T Centauri	11-18, 23.
Nova Centauri (Z) }	19, 24-42, 96-110, 139-140.
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T Lupi	42-48.
Y Centauri	49-57, 111-112.
U Centauri	58-65, 154-155.
S Lupi }	65-80, 113-117.
Lupi. }	
R S Virginis	80-95.
– Librae $14^h 27.8^m - 17° 24'$	118-130
S Apodis	131-135.
Triang. Aust. $15^h 4.8^m - 69° 42'$	136-138.
R R Scorpii	141-153.
– Scorpii $17^h 34^m - 35° 10'$	169-173.
R V Scorpii	174-182.
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1998plac.proj..74GB

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april 9, 1898.

Measures of γ Centauri.

$13^h 29.5 - 55° 48'$

Comp Stars B 16268

$21^h 30^m$

B 18661

10.76 h = .2 10.96

mns. < 10.96

B 19988

9.56 2 4 r 9.96 10.01 10.16 = 10.04 .08 .03 .12

10.01 r 0 f 10.01

10.16 r 2 g 10.36

B 18295

12.28 n = .1

mns. < 12.38

near edge.

B 18347. Repetition of same.

11.93 m i r 12.03 12.18 = 12.10 .07 .08

12.18 r 1 n 12.28

B 18526

11.58 $\frac{l}{m}$ = .1

mns. < 11.68

near edge

B 18581

Too near edge

B 18916

12.28 n f r 12.38

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Measures rec. in bad. (cont.)

B 19828

g 10.01 / r 10.11 10.26 = 10.18 .07 .08

r 10.26 / g 10.36

B 19924 &p.

9.56 e = .1

rms < 9.66

B 20038

9.56 e 3 r 9.86 9.81 = 9.84 .02 .03

9.81 r 2 f 10.01

B 11264 &p.

9.56 e = .2 9.76

rms. < 9.76

B 6509 &p.

8.58 e = .3

rms. < 8.58

A 1826

9.08 d 3 r 9.38 9.56 9.71 = 9.55 .17 .01 .16

9.56 r o e 9.56

9.71 r 3 f 10.01

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April 9. 1898

Measures of R T Virginis

Comp. Stars I 10491

22h 15m

I 13987

8.70 C3r 9.00 9.00 = 9.00 .00 .00

9.00 r3d 9.30

I 14576

8.70 C4r 9.10 9.10 = 9.10 .00 .00

9.10 r2d 9.30

I 14792

8.70 C4r 9.10 9.30 9.60 = 9.33 .23 .03 .27

9.30 r0d 9.30

9.60 r3v 9.90

I 15123

8.70 C3r 9.00 9.20 = 9.10 .10 .10

9.20 r1d 9.30

I 15161

8.70 C3r 9.00 9.30 9.60 = 9.30 .30 .00 .30

9.30 r0d 9.30

9.60 r3v 9.90

I 15206

8.70 C3r 9.00 9.10 = 9.05 .05 .05

9.10 r2d 9.30

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Apr. 9, 1898

Measures R T Virginis.

B 16309

8.70 C 3r 9.00 9.10 = 9.05 . 05 . 05

9.10 r 2d 9.30

I 15301

8.70 C 2r 8.90 9.00 = 8.95 . 05 . 05

9.00 r 3d 9.30

B 16558

8.70 C 3r 9.00 9.00 = 9.00 . 00 . 00

9.00 r 3d 9.30

B 16671

8.70 C 1r 8.80 9.00 = 8.90 . 10 . 10

9.00 r 3d 9.30

I 16543

8.70 C 2r 8.90 9.00 = 8.95 . 05 . 05

9.00 r 3d 9.30

I 16744

8.70 C 3r 9.00 9.20 = 9.10 . 10 . 10

9.20 r 1d 9.30

II 17030

8.70 C 3r 9.00 9.10 = 9.05 . 05 . 05

9.10 r 2d 9.30

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Apr. 9, 1898

Measures R Virginis (umb.)

B 18406

8.70 c 4 r 9.10 9.10 = 9.10 .00 .00
9.10 r 2 d 9.30

I 17292

8.70 c 3 r 9.00 9.30 9.50 = 9.27 .27 .03 .23
9.30 r 0 d 9.30
9.50 r 4 e 9.90

I 17529

9.30 d 1 r 9.40 9.50 = 9.45 .05 .05
9.50 r 4 e 9.90

I 17597

8.70 c 4 r 9.10 9.30 9.50 = 9.30 .20 .00 .20
9.30 r 0 d 9.30
9.50 r 4 e 9.90

I 17833

8.70 c 3 r 9.00 9.30 9.60 = 9.30 .30 .00 .30
9.30 r 0 d 9.30
9.60 r 3 e 9.90

I 17951

8.70 c 3 r 9.00 9.20 = 9.10 .10 .10
9.20 r 1 d 9.30

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Apr. 9, 1898

Measures R Trianguli (Lamb.)

I 17986
9.30 d 1 r 9.40 9.70 = 9.55 .15 .15
9.70 r 2 e 9.90

I 18020
8.70 c 4 r 9.10 9.30 9.50 = 9.30 .20 .00 .20
9.30 r 0 d 9.30
9.50 r 4 e 9.90

I 18094
8.70 c 3 r 9.00 9.30 9.60 = 9.30 .30 .00 .30
9.30 r 0 d 9.30
9.60 r 3 e 9.90

B 19395 &c.
8.70 c 3 r 9.00 9.30 9.60 = 9.27 .27 .03 .23
9.30 r 0 d 9.30
9.50 r 4 e 9.90

I 18319
8.70 c 2 r 8.90 9.10 = 9.00 .10 .10
9.10 r 2 d 9.30

B 19555
9.30 d 1 r 9.40 9.90 10.12 = 9.81 .41 .09 .31
9.90 r 0 e 9.90
10.12 r 5 f 10.62

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Apr. 9, 1898

Measures R T Virginis (cont.)

B 19434

8.70 c 3 r 9.00 9.30 9.50 = 9.27 .27 .03 .23
9.30 r 0 d 9.30
9.50 r 4 e 9.90

B 20031

8.70 c 3 r 9.00 9.20 = 9.10 .10 .10
9.20 r 1 d 9.30

I 19551

8.70 c 3 r 9.00 9.20 = 9.10 .10 .10
9.20 r 1 d 9.30

I 18045

8.70 c 3 r 9.00 9.20 = 9.10 .10 .10
9.20 r 1 d 9.30

A 558

8.70 c 3 r 9.00 9.10 = 9.05 .05 .05
9.10 r 2 d 9.30

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1898phae.proj..710B

April 9, 1898

Measures T Centauri.

2h 0m

Comp. Star B 9721.

I 14595

6.60 r 2 r 6.80 6.95 = 6.88 .08 .07

6.95 r 4 c 7.35

I 14596 to I 15173 measured by mistake as they had already been measured by Mrs. Fleming

I 14596

6.60 r 3 r 6.90 7.05 = 6.98 .08 .07

7.05 r 3 c 7.35

I 14626

6.60 r 2 r 6.80 7.05 = 6.92 .12 .13

7.05 r 3 c 7.35

I 14627

6.60 r 1 r 6.70 7.05 = 6.88 .18 .17

7.05 r 3 c 7.35

I 14659

6.60 r 1 r 6.70 6.95 = 6.82 .12 .13

6.95 r 4 c 7.35

I 14660

6.60 r 2 r 6.80 7.05 = 6.92 .12 .13

7.05 r 3 c 7.35

I 14670

6.60 r 3 r 6.90 7.35 7.35 = 7.20 .30 .15 .15

7.35 r 0 c 7.35

7.35 r 3 c 7.15

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1898phae.proj..710B

Apr. 9, 1898

Measures T Centauri (cont.)

I 14669

6.60b & 4r 7.00 7.35 7.55 = 7.30 .30 .05 .25

7.35 r 0 & c 7.35

7.55 r 1 & d 7.65

I 14681

6.60b & 2r 6.80 7.15 = 6.98 .18 .17

7.15 r 2 & c 7.35

I 14682

6.60b & 4r 7.00 7.25 = 7.12 .12 .13

7.25 r 1 & c 7.35

I 14701

7.35 c & 2r 7.55 7.55 = 7.55 .00 .00

7.55 r 1 & d 7.65

I 14762

useless

I 14909

8.27 l & 2r 8.47 8.75 = 8.61 .14 .14

8.75 r 1 & f 8.85

I 14943

8.27 l & 2r 8.47 8.75 = 8.61 .14 .14

8.75 r 1 & f 8.85

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Measures ϕ Centauri (cont.)

I 15052
8.85 f & 2 r 9.05 9.15 = 9.10 .05 .05
9.15 r 3 & g 9.45

I 15117
nucleus

I 15173
7.35 c & 1 r 7.45 7.45 = 7.45 .00 .00
7.45 r 2 & d 7.65

B 16404
6.60 b & 4 r 7.00 7.05 = 7.02 .02 .03
7.05 r 3 & c 7.35

B 16602
6.60 b & 5 r 7.10 7.35 7.35 = 7.27 .17 .08 .08
7.35 r 0 & c 7.35
7.35 r 3 & d 7.65

B 16676
6.60 b & 5 r 7.10 7.05 = 7.08 .02 .03
7.05 r 3 & c 7.35

B 16712
7.35 c & 2 r 7.55 7.65 7.97 = 7.72 .17 .07 .25
7.65 r 0 & d 7.65
7.97 r 3 & e 8.27

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Apr. 9, 1898

Measures T Centauri (cmb.)

B 16824

8.27 e X 2 r 8.47 8.55 = 8.51 .04 .04
8.55 r 3 A f 8.85

B 16934

8.27 e X 1 r 8.37 8.65 = 8.51 .14 .14
8.65 r 2 A f 8.85

B 17111

7.35 C X 1 r 7.45 7.35 = 7.40 .05 .05
7.35 r 3 X d 7.65

B 17112

6.60 V X 5 r 7.10 7.25 = 7.18 .08 .07
7.25 r 1 A c 7.35

B 17324

6.60 V X 2 r 6.80 7.05 = 6.92 .12 .13
7.05 r 3 A c 7.35

I 17068

7.65 d X 5 r 8.15 8.07 = 8.11 .04 .04
8.07 r 2 X e 8.27

B 18350

7.65 d X 5 r 8.15 8.07 = 8.11 .04 .04
8.07 r 2 X e 8.27

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Apr. 9, 1898

Measures T Centauri (unit.)

I 17217
7.65d & 4r 8.05 8.07 = 8.06 .01 .01
8.07 r2d & e 8.27

B 18549
7.65d & 4r 8.05 8.27 8.55 = 8.29 .24 .02 .26
8.27 r0d & e 8.27
8.55 r3 & f 8.85

I 17352
6.60 b & 3r 6.90 7.25 = 7.08 .18 .17
7.25 r1 & c 7.35
very poor plate

I 17469
6.60 b & 4r 7.00 7.05 = 7.02 .02 .03
7.05 r3 & c 7.35

B 18577
6.60b & 3r 6.90 7.05 = 6.98 .08 .07
7.05 r3 & c 7.35

I 17541
6.20A 3r 6.50 6.60 6.95 = 6.68 .18 .08 .27
6.60 r0 & b 6.60
6.95 r4 & c 7.35

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Apr. 9, 1898

Measures T Tauri (cont.)

B 18659
6.60 b & 2r 6.80 7.05 = 6.92 .12 .13
7.05 r 3 b c 7.35

B 18679
7.65 d & 3r 7.95 8.07 = 8.01 .06 .06
8.07 r 2 d e 8.27

B 18782
7.65 d & 4r 8.05 8.27 8.65 = 8.32 .27 .05 .33
8.27 r o d e 8.27
8.65 r 2 A f 8.85

I 17848
7.65 d & 2r 7.85 8.07 = 7.96 .11 .11
8.07 r 2 d e 8.27
Poor plate

B 18832
8.27 e & 2r 8.47 8.75 = 8.61 .14 .14
8.75 r 1 A f 8.85

I 18017
7.65 d & 4r 8.05 8.17 = 8.11 .06 .06
8.17 r 1 d e 8.27

B 19067
7.65 d & 2r 7.85 7.97 = 7.91 .06 .06
7.97 r 3 d e 8.27

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Apr. 8, 1898

Measures ν Centauri (cont.)

I 18095
6.60 a* ** 6.60 ba 1r 6.70 7.05 = 6.88 .18 .17
x 1a 7.05 r 3 bc 7.35

B 19186
6.60 ba 1r 6.70 6.85 = 6.78 .08 .07
6.85 r 5 bc 7.35

B 19428
7.65 da 2r 7.85 8.07 = 7.96 .11 .11
8.07 r 2 da 8.27

B 19675
8.27 ea 2r 8.47 8.65 = 8.56 .09 .09
8.65 r 2 af 8.85

B 20042
6.20 A 3r 6.50 6.50 = 6.50 .00 .00
6.50 r 1 ab 6.60

B 20044
6.60 ba 5r 7.10 7.25 = 7.18 .08 .07
7.25 r 1 bc 7.35

I 20021
Burlew, not measured

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Apr. 9, 1898

Measures T Centauri (mts)

I 20120

7.65 d & 4 r 8.05 8.07 = 8.06 .01 .01
8.07 r 2 & c 8.27

I 20384

6.20 A 4 r 6.60 6.60 6.95 = 6.72 .12 .12 .23
6.60 r 0 & b 6.60
6.95 r 4 & c 7.35

A 1810

7.35 cV 2 r 7.55 7.65 7.97 = 7.72 .17 .13 .25
7.65 r 0 & d 7.65
7.97 r 3 d e 8.27

A 2494

~~7.35~~ 6.60 b & 4 r 7.00 7.35 7.55 = 7.30 .30 .05 .25
7.35 r 0 & c 7.35
7.55 r 1 & d 7.65

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April 19, 1898.

nebula) r'
Measures Z Centauri. r
0h 00m 13h 34.3m − 31.°8' (1900).
Comp. stars B 13965.

I 14681
q=.1 m/r'
r'0 m
0 ms.

I 14682
q=.1 m/r'
r'10

Found & measured nebula for Z Cent. & Z Cent. does not appear on these plates. measures used for both when no object appeared.

B 15447
l 4 r'
r'1 m

I 14702
lss 3 r'
r'0 l
r'2 m

I 14701
l=.2
r/ms (ms)

I 14762
useless

I 14763
useless.

to p. 24.

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April 18, 1898

Measures R T Virginis (cmds. fr. J. 10).

21h 15m

B15436

9.30 d1r 9.40 9.50 = 9.45 .05 .05

9.50 r4e 9.90

B16635

8.70 c3r 9.00 9.00 = 9.00 .00 .00

9.00 r3d 9.30

I15145

8.70 c3r 9.00 8.90 = 8.95 .05 .05

8.90 r4d 9.30

B18903

8.70 c3r 9.00 9.30 9.50 = 9.27 .27 .03 .23

9.30 r0d 9.30

9.50 r4e 9.90

I15068

9.30 d1r 9.40 9.70 = 9.55 .15 .15

9.70 r2e 9.90

I18132

8.70 c2r 8.90 9.00 = 8.95 .05 .05

9.00 r3d 9.30

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Apr. 18, 1898

Measures R T Originis (cont.)

I 20299

9.30 d1r 9.40 9.50 = 9.45 .05 .05
9.50 r4e 9.90

I 20115

8.70 c2r 8.90 9.00 = 8.95 .05 .05
9.00 r3d 9.30

I 20018

8.70 c3r 9.00 9.00 = 9.00 .00 .00
9.00 r3d 9.30

I 19758

8.70 c3r 9.00 9.10 = 9.05 .05 .05
9.10 r2d 9.30

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april 18, 1898

0h 0m Measures Tau in Centaurus (cont fr. p. 5)

B 17113
Does not cover.

B 16303
Does not cover.

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April 18, 1898

Measures γ Centauri (cont. fr. p. 18)

0h 10m

B 15404

6.60 h & 1 r 6.70 6.95 = 6.82 .12 .13

6.95 r 4 h & c 7.35

B 15523

7.65 d & 3 r 7.95 8.07 = 8.01 .06 .06

8.07 r 2 d & e 8.27

I 14595

6.20 a 2 r 6.40 6.60 6.95 = 6.65 .25 .05 .30

6.60 r o d & v 6.60

6.95 r 4 h & c 7.35

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April 19, 1898

Measures { Nebulae r'
Z Centauri (comb.) r

0h 15m

B 15508
l 4 r'
r' 1 m

B 15573 2f.
q = .2
r' ms (rns)

I 14909
q = .2
r' ms (rns)

I 14943
l 3 r'
r' 0 l
m ns.

I 15052
m 2 r'
r' 9 m
r' 10

B 15682
l 3 r'
r' 1 m

B 15683
l 2 r'
r' 1 l

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April 19, 1898

Measures ζ Centauri (end.) r
Nebula r'

I 15061
Too near edge

B 15726
Too poor.

B 15727
Too poor

B 15728
b 1 r'
r' 1 b

B 15810
b 3 r'
r' 1 b

B 15853
b 3 r'
r' 1 m

B 15864
b 3 r'
r' 2 m

I 15117
useless

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April 19, 1898

Measures ζ Centauri (cont.) r
Nebula r'

C 8750
Useless.

C. 8971
h=.2
r'nso (nso)

C 8706
m=.1
r'nso. (nso)

B 15914
h 3r'
nnso.

B 15924
h 2r'
r'1 hs

I 15173
h 1 r'
r'0 nw
r'1 nw

B 15978
h 3r'
r'0 nw
r'1 nw

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April 19, 1898

Measures 2 Centauri (cons.) r'
Nebula r'

B 16014
h 2 r'
r' 2 h

B 16060
m 2 r'
r' 0 m
r' 2 0

B 16061
h 1 r'
r' 2 l

B 16086
h 3 r'
r' 1 l

B 16123
h 1 r'
r' 2 h

B 16104
l 3 r'
r' 0 m
r' 1 m

B 16403
h 2 r'
r' 2 l

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1898phae.proj..710B

April 19, 1898

Measures of γ Centauri (comp.) & Nebula r'

B 16404
m 1 r'
r' 0 m
r' 1 0

B 16602
l 4 r'
r' 0 m
r' 1 m

B 16603
l 2 r'
r' 0 l
r' 2 l

B 16675
l 2 r'
r' 2 l

B 16712
l 4 r'
r' 2 m

B 16824
l 2 r'
r' 1 l

~~B 16934~~

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April 19, 1898

measures ζ Centauri (cmb) r
Nebula r'

B16934
1 r'
r' 0 0
r' 1 p

B16935
2 r'
r' 0 l
r' 2 m

B17111
3 r'
r' 0 l
r' 3 m

B17112
2 r'
r' 0 m
r' 1 m

B17196
3 r'
r' 0 l
r' 2 m

B17312
2 r'
r' 1 l

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1898phae.proj..710B

April 19, 1898

Measures { ζ Centauri (cont.) r
nebula r'

B17324
m l r'
r 0 m
r 2 0

B15295
m l r'
r 3 0

I 14342
bs l r'
r 0 l
m m0

c 8754
nseless

I 14343
l 2 r'
m m0

I 14344
l = .1
r m0 (r m0)

B15356
l 4 r'
r 0 m
r 2 m

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1898phae.proj..710B

april 19, 1898

Measures { Z. Centauri (cmb) r
Nebula r'

I 14450
l 1 r'
r' 2 m

I 14451
l 3 r'
r' 1 m

C 8844
l = .1
r no (nm)

C 8854
l = .2
r no (nm)

I 14467
l 1 r'
r' 0 m
r' 2 m

I 14469
ls 2 r'
r' 0 l
r' 1 m

I 14475
ls 2 r
r' 0 l
r' 3 m

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1898phae.proj..710B

April 19, 1898

Measures of ζ Centauri (comb.) & Nebula r'

I 14476
l 1 r'
r 1 m

I 14489
l 2 3 r'
r 0 l
m ms

I 14490
l 1 r'
r 3 m

C 8878
l = .3
r ms (ms)

C 8891
Too prov.

I 14507
l 2 3 r'
r 0 l
m ms

I 14509
l 1 r'
r 1 m

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1898phae.proj..710B

Measures ζ Centauri (comb.) r
Nebula r'

I 14508
bs 3r'
r i l

I 14552
bs 3r'
r i l

C 8907
n = .1
r i n (nn)

I 14551
l 1r'
r i m

I 14585
Too poor.

I 14584
Too poor

C 8918
n 2r'
r n 0
r i p.

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1898phae.proj..710B

April 19, 1898

Measures ζ Centauri (comb.) r
Cubula r'

I 14583
Too poor

C 8925
h = .1
r'no (rno)

C 8926
h = .1
r'no (rno)

I 14596
m 1r'
r'0m
r'20

B 15385
h 4r'
r'0h
r'3m

C 8928
h = .1
r'no. (rno)

I 14626
m 2r'
r'0m
r'20

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1898phae.proj..710B

Measures of Lacertarii (cmo). r
Nebula r'

B 14627,
m 2 r'
r' 0 m
r' 2 0

I 14659
m 2 r'
r' 0 0
r' 2 p

I 14660
m 2 r'
r' 0 0
p m

I 14669
m 1 r'
r' 1 0

I 14670
m 2 r'
r' 0 0
r' 2 p

I 14595
b 3 r'
r' 0 m
r' 1 m

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1898phae.proj..710B

April 19, 1895

Measures of ζ Centauri (comb.) & Nebula r'

B15523
b3r'
r0l
r2m

B15404
b3r'
r0m
r2m

X 7370
g3r'

X 7489
g2r'

X 7408
m1r'
r20

B20037
b1r'
r2m

B19838
1 to near edge

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1898phae.proj..710B

April 19, 1895

Measures ζ Centauri (cont.) & Nebula r'.

B 18913
b 2 r'
r' 2 b

I 17068
b 2 r'
r' 1 m

B 18350
b 3 r'
r' 1 m
Plate trail.

I 17217
m 1 r'
r' 0 m
0 m

B 18549
b 2 r'
r' 0 m
r' 2 m

I 17352
Too faint

I 17469,
m 2 r'
r' 0 m
r' 2 m

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1898phae.proj..710B

April 19, 1898

measures of ζ Centauri (comb.) r
Cubula r'

B 18577
l 8 r'
r 0 m
r 1 m

I 17541
k 4 r'
r 0 l
m m

B 18659
m 2 r'
r 10

B 18679
m 2 r'
r 0 o
r 2 p

B 18782
m 1 r'
r 20

I 17848
[illegible]

I 18095
k = 1
r m (m)

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1898phae.proj..710B

Measures { Centauri (comb.) r
Nebula r'

2h 30m B 18832
l 3r'
r' 0 m
r' 2 m

B 18017
m 1 r'
r' 1 0

B 19067
m 2 r'
r' 2 0

B 19186
l 3 r'
r' 2 m

B 19428
m 2 r'
r' 0 m
r' 2 0

B 19675
l 3 r'
r' 0 m
r' 1 m

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1898phae.proj..710B

April 19, 1898

measures ζ Eridani (comb.) r
Nebula r'

B 20044
l, 1r'
r2m

B 20021
Broken not mended

B 20120
l=.2
r'm (ms)

B 20384
Too faint

A 1873,
m2r
r0m
r'20

A 2494
g2r'

A 1810
f1r'
r'1g

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1898phae.proj..710B

April 19, 1898

2h 45m

Measures { ζ Centauri (cont'd) r
nebula r'

A 2519
ls 2r'
r'0l
r'2m

A 1888
p 2r'
r'0g

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1898phae.proj..710B

April 23, 1898

Measures of T Lupi.

0h 38m

14h 15.7m – 49° 24' (1900)

Comp. Stars B6066.

B14275

10.21 e3r 10.51 10.46 = 10.48 .03 .02

10.46 r1f 10.56

B15322

10.56 f2r 10.76 10.78 = 10.77 .01 .01

10.78 r1g 10.88

B13967

10.21 e4r 10.61 10.36 = 10.48 .13 .12

10.36 r2f 10.56

B14281

10.56 f=.1

rms. < 10.66

B15370

10.21 e4r 10.61 10.36 = 10.48 .13 .12

10.36 r2f 10.56

B15425

10.56 f2r 10.76 10.78 = 10.77 .01 .01

10.78 r1g 10.88

B15426

10.56 f=.1

rms. < 10.66

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1898phae.proj..710B

Apr 23, 1898

Measures T Lupi (cont.)

B15509

10.88 g 1r 10.98 11.18 = 11.08 .10 .10
11.18 r2h 11.38

B15640

10.56 f2r 10.76 10.78 = 10.77 .01 .01
10.78 r1g 10.88

B15695

10.56 f2r 10.76 10.78 = 10.77 .01 .01
10.78 r1g 10.88

B15774

10.56 f2r 10.76 10.88 11.08 = 10.91 .15 .03 .17
10.88 r0g 10.88
11.08 r3h 11.38

B15860

10.21 e4r 10.61 10.36 = 10.48 .13 .12
10.36 r2f 10.56

B15886

10.88 g3r 11.18 11.18 = 11.18 .00 .00
11.18 r2h 11.38

B15923

10.88 g3r 11.18 11.08 = 11.13 .05 .05
11.08 r3h 11.38

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1898phae.proj..710B

Apr. 23, 1898

Measures of Lupi (cont.)

B16062

10.88 g 4r 11.28 11.18 = 11.23 .05 .05

11.18 r 2h 11.38

B16143

10.56 f 4r 10.96 10.68 = 10.82 .14 .14

10.68 r 2g 10.88

B16406

10.88 g 5r 11.38 11.28 = 11.33 .05 .05

11.28 r 1h 11.38

B16605

10.88 g 4r 11.28 11.18 = 11.23 .05 .05

11.18 r 2h 11.38

B16714

10.88 g 3r 11.18 11.18 = 11.18 .00 .00

11.18 r 2h 11.38

B16872

10.21 e 3r 10.51 10.26 = 10.38 .13 .12

10.26 r 3f 10.56

B17114

10.21 e 4r 10.61 10.56 10.58 = 10.58 .03 .02 .00

10.56 r 0f 10.56

10.58 r 3g 10.88

Bibliography

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1898phae.proj..710B

Measures T Lupi (cont.)

B17323

10.56 f 3r 10.86 10.78 = 10.82 .04 .04
10.78 r 1g 10.88

B17528

10.56 f 2r 10.76
gns

B18296

10.56 f 3r 10.86 10.88 11.08 = 10.94 .08 .06 .14
10.88 r 0g 10.88
11.08 r 3h 11.38

B18298

10.21 e = .2
rns < 10.41

B18351

10.56 f 2r 10.76 10.78 = 10.77 .01 .01
10.78 r 1g 10.88

B18353

Too near edge

B18527

10.56 f 3r 10.86 10.88 11.08 = 10.94 .08 .06 .14
10.88 r 0g 10.88
11.08 r 3h 11.38

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1898phae.proj..710B

Apr. 23, 1898

Measures T Lupi (cont.)

B18529

10.21 e=.2

mv < 10.41

B18582

10.56 f 3r 10.86 10.78 = 10.82 .04 .04

10.78 r 1g 10.88

B18584

Iron near edge

B18681

10.21 e 3r 10.51 10.46 = 10.48 .03 .02

10.46 r 1f 10.56

B18784

10.56 f 3r 10.86 10.68 = 10.77 .09 .09

10.68 r 2g 10.88

B18835

10.88 g 1r 10.98 11.18 = 11.08 .10 .10

11.18 r 2h 11.38

B18880

10.56 f 3r 10.86 10.68 = 10.77 .09 .09

10.68 r 2g 10.88

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1898phae.proj..710B

Measures T Lupi (cont.)

B19025 Sp.
10.21 e=.2
mv < 10.41

B19050
10.56 f1r 10.66 10.68=10.67 .01 .01
10.68 r2g 10.88

B19187
10.56 f3r 10.86-10.88 11.08=10.94 .08 .06 .14
10.88 r0g 10.88
11.08 r3h 11.38

B19304
10.56 f3r 10.86 10.68=10.77 .09 .09
10.68 r2g 10.88

B19397 Sp.
10.21 e=.1
mv < 10.31

B19430
10.56 f2r 10.76 10.78=10.77 .01 .01
10.78 r1g 10.88

B19677
10.88 f2r 11.08 11.08=11.08 .00 .00
11.08 r3h 11.38

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1898phae.proj..710B

Apr. 23, 1898

Measures T Lupi (cont.)

B 19893 bfp.
10.56 f 2r 10.76
0 gno

B 19997
10.21 e 2r 10.41 10.26 = 10.34 .07 .08
10.26 r 3 f 10.56

B 20116
10.56 f 3r 10.86 10.78 = 10.82 .04 .04
10.78 r 1 g 10.88

B 20316
10.88 g 2r 11.08 11.08 = 11.08 .00 .00
11.08 r 3 h 11.38

B 13484
Does not cover region

B 15297
10.56 f = .1
no < 10.66

A 23913
10.21 e 3r 10.51 10.36 = 10.44 .07 .08
10.36 r 2 f 10.56

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1898phae.proj..710B

April 23, 1898

Measures γ Centauri.

14h 25.1m − 29°39'

Comp. Stars B 9537

2h 0m

B 19188
b 1 r
r 3 c

B 13160 bp.
a 3 r
r 2 b

B 13166 bp.
a 1 r
r 3 b

B 13662
a 3 r
r 1 b

B 14277
a 2 r
r 2 b

B 14442
a 3 r
r 2 b

B 15323
b 2 r
r 0 c

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1898phae.proj..710B

Apr. 23, 1898

Measures γ Centauri (cont.)

B 15390
a 2 r
r 1 b

B 15510
a 3 r
r 1 b

B 15521
a 4 r
r 2 b

B 15584
a 3 r
r 2 b

B 14911
a 5 r
r 2 b

B 15649
a 3 r
r 1 b

B 15694
a 3 r
r 1 b

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1898phae.proj..710B

Apr. 23, 1898

Measures γ Centauri (cont.)

B 15816
a 2 r
r 1 b

B 15858
a 5 r
r 1 b

B 15887
a 3 r
r 2 b

I 15118
γ is poor

B 15917
a 2 r
r 2 b

B 15979
a 3 r
r 1 b

B 16063
a 2 r
r 2 b

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1898phae.proj.710B

Apr. 23, 1898

Measures γ Centauri (cont.)

B16141
a 2 r
r 0 b
r 2 c

B16273
a 3 r
r 2 b

B16405
a 3 r
r 3 b

I/5303
a 5 r
r 2 b

B16606
a 3 r
r 2 b

B16713
a 3 r
r 1 b

B16873
a 4 r
r 0 b
r 3 c

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1998phae.proj..710B

Measures γ Centauri (cont.)

B 17115
b 1 r
r 2 c

B 17255
b 2 r
r 4 c

B 17325
b 3 r
r 2 c

~~B 17527~~ I 17073
a 5 r
r 2 b

B 18352
b 1 r
r 3 c

B 18528
a 4 r
r 0 b
r 4 c

~~I~~ I 17290
a 5 r
r 0 b
r 4 c

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1898phae.proj..710B

Apr. 23, 1898

Measures γ Centauri (unb.)

B18583
a 5 r
r 1 b

I 17544
a 5 r
r 1 b

B18682
a 4 r
r 1 b

B18755
a 6 r
r 1 b

B18785
a 5 r
r 0 b
r 4 c

I 17834
a 4 r
r 2 b

B18833
b 1 r
r 4 c

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Apr. 23, 1898

Measures γ Centauri (cont.)

B 18966 &p.
a 3r
bns

D 19051
b 1r
r 3c

I 18098
b 1r
r 2c

B 19306
b 2r
r 2c

B 19396 &p.
a 4r
r 0b
r 2c

B 19431
a 5r
r 0b
r 3c

I 18215
a 5r
r 0b
bns Bad plate

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Apr. 23, 1898

Measures of Centauri (cont.)

B 19635
a 2 r
r 0 b
r 3 c

B 19678
a 4 r
r 1 b

I 18365
Yerkes

B 20050
r 1 a

I 20023
a 3 r
r 1 b

I 20184
b 1 r
r 0 c
r 2 d

I 20386
b 1 r
cus.

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1898phae.proj..710B

Apr. 23, 1898

Measures γ Centauri (comb.)

B 17527
b 3 r
r 0 c
r 4 d

B 18297
a 5 r
r 0 b
r 4 c

A 2495
b 3 r
r 4 c

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1898phae.proj..710B

April - 27, 1898

Measures V Centauri -

2h 0m

12h 28m - 54° 6'

Comp. Stars B9516

B 17109

10.50 f 3r 10.80 10.62 = 10.71 .09 .09

10.62 r 2g 10.82

B 20118

8.86 b 1r 8.96 9.08 = 9.02 .06 .06

9.08 r 1c 9.18

B 10814 2p.

8.86 b = .1

rns < 8.96

B 13794 2p.

10.02 e 2r 10.22 10.50 = 10.36 .14 .14

10.50 r 0 f 10.50

gns

B 9080 2p.

9.18 c = .1

rns < 9.28

B 9375 2p.

9.60 d = .3

rns < 9.90

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1898phae.proj..710B

Measures ν Centauri (cont.)

B 19005 lfp.
10.50 f = .2
rms < 10.70

B 19024 lfp.
9.60 d = .2
rms < 9.80

B 19422 lfp.
10.02 2 l 1 r 10.12
fms.

B 19069
11.56 bs = .4
rms < 11.96

B 17275
10.82 9 3 r 11.12 11.24 11.36 = 11.24 .12 .00 .12
11.24 r 0 b 11.24
11.36 r 2 bs 11.56

B 18468
9.60 d 2 r 9.80 9.82 = 9.81 .01 .01
9.82 r 2 l 10.02

B 18565
9.60 d 2 r 9.80 9.72 = 9.76 .04 .04
9.72 r 3 l 10.02

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1898phae.proj..710B

Apr. 27, 1898

Measures in Centauri (cont).

B 18810

11.24 h 2 r 11.44 11.56 = 11.50 .06 .06
11.56 r 0 h 11.56

B 19973

9.60 d 1 r 9.70 9.72 = 9.71 .01 .01
9.72 r 3 d 10.02

B 19672

11.56 h 2 r 11.76

B 15368

11.56 h 4 r 11.96

B 15520

11.56 h 5 r 12.06

B 15679

10.50 f 4 r 10.90 10.62 = 10.76 .14 .14
10.62 r 2 g 10.82

B 15767

10.02 d 5 r 10.52 10.40 = 10.46 .06 .06
10.40 r 1 f 10.50

B 15882

10.02 d 1 r 10.12 10.20 = 10.16 .04 .04
10.20 r 2 f 10.50

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1898phae.proj..710B

Apr. 27, 1898

Measures α Centauri (cont.).

B19993

9.18 C 4 r 9.58 9.50 = 9.54 .04 .04

9.50 r 1 d 9.60

B19869 Bp.

10.02 l = .1

rms < 10.12

B19824

10.82 q 1 r 10.92 10.94 = 10.93 .01 .01

10.94 r 3 h 11.24

B16303

9.18 C 3 r 9.48 9.20 = 9.34 .14 .14

9.20 r 4 d 9.60

B16869

9.60 d 1 r 9.70 9.72 = 9.71 .01 .01

9.72 r 3 l 10.02

B16724 Bp.

9.18 C = .1

rms < 9.28

B15540

11.24 h = .1

rms < 11.34

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1898phae.proj..710B

Apr. 27, 1898

Measures α Centauri (cont.)

B16319

10.02 l 3 r 10.32 10.50 10.42 = 10.41 .09 .09 .01

10.50 r 0 f 10.50

10.42 r 4 g 10.82

B16599

9.18 l 2 r 9.38 9.20 = 9.29 .09 .09

9.20 r 4 d 9.60

B16382

8.86 l 2 r 9.06 8.98 = 9.02 .04 .04

8.98 r 2 c 9.18

B16082

9.60 d 1 r 9.70 9.72 = 9.71 .01 .01

9.72 r 3 l 10.02

B16046

9.18 C 3 r 9.48 9.50 = 9.49 .01 .01

9.50 r 1 d 9.60

B15354

11.56 l 0 4 r 11.96

B15423

11.56 l 0 = .4

r 0 < 11.96

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1898phae.proj..710B

Apr. 27, 1898

Measures ν Centauri (cont.)

B 15506

11.56 lc 3 r 11.86

B 15922

9.60 d 4 r 10.00 10.02 10.20 = 10.07 .07 .05 .13

10.02 r 0 c 10.02

10.20 r 3 f 10.50

B 18284

10.02 c 3 r 10.32 10.60 10.52 = 10.45 .13 .05 .07

10.50 r 0 f 10.50

10.52 r 3 g 10.82

B 16006

9.60 d 2 r 9.80 9.92 = 9.86 .06 .06

9.92 r 1 c 10.02

B 18935

11.24 h = .1

rms < 11.34

B 18637

10.02 c 1 r 10.12 10.10 = 10.11 .01 .01

10.10 r 4 f 10.50

B 19987

9.60 d 2 r 9.80 9.62 = 9.71 .09 .09

9.62 r 4 c 10.02

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1898phae.proj..710B

Apr. 29, 1898

Measures α Centauri (cont.)

B 19268

11.56 bs 6 r 12.16

B 19474

11.56 bs 7 r 12.26

B 18576

9.60 d 4 r 10.00 9.82 = 9.91 .09 .09

9.82 r 2 e 10.02

B 18675

10.02 e 5 r 10.52 10.50 10.62 = 10.55 .03 .05 .07

10.50 r 0 f 10.50

10.62 r 2 g 10.82

B 18778

10.82 g 4 r 11.32 11.14 = 11.18 .04 .04

11.14 r 1 bs 11.24

A 2360 (mr. Peterson)

11.56 bs = .3

mo. < 11.86

A 2561

10.50 f 3 r 10.80 10.72 = 10.76 .04 .04

10.72 r 1 g 10.82

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1898phae.proj..710B

Apr. 27, 1898

measures { S Lupi. r
— Lupi r'

Comp. Class B 11272.

3h 30m

B 19679

12.09 l 1r 12.19 12.32 12.20 = 12.24

12.32 r 0 m 12.32 .05 .08 .04

12.20 r 4 m 12.60

Second maje appeared.

S Lupi and sec. maje appears on some plates called r'.

B 19304

10.69 g 4r 11.09 11.23 = 11.06 .03 .03

11.03 r 1 h 11.13

Second maje?

B 18683

10.69 g 2r 10.89 11.03 = 10.96 .07 .07

11.03 r 1 h 11.13

Sec. maje.

B 16143

10.29 f 2r 10.49 10.39 = 10.44 .05 .05

10.39 r 3 g 10.69

B 15426

11.13 h 3r 11.43 11.53 = 11.48 .05 .05

11.53 r 1 h 11.63

Sec. Image

B 14281

11.63 h 1r 11.73 11.99 = 11.86 .13 .13

11.99 r 1 l 12.09

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1898phae.proj..710B

April 27, 1898

measures { S Lupi (cont.) r
← Lupi. r'

B 13967

10.69 q 1 r 10.79 10.93 = 10.86 .07 .07
10.93 r 2 h 11.13
S. Image.

B 18584

12.09 l 1 r 12.19 12.32 12.40 = 12.30 .11 .02 .08
12.32 r o m 12.32
12.40 r 2 m 12.60
S. Dm.

B 18529.

12.32 m 1 r' 12.42 12.40 = 12.41 .01 .01
12.40 r' 2 m 12.60
rms.

B 18353

12.32 m 2 r' 12.52 12.50 = 12.51 .01 .01
12.50 r' 1 m 12.60
rms.

B 18298

12.32 m 2 r' 12.52 12.50 = 12.51 .01 .01
12.50 r' 1 m 12.60
rms.

B 19410

11.13 h 3 r 11.43 11.63 11.69 = 11.58 .15 .05 .11
11.63 r o h 11.63
11.69 r 4 l 12.09
S. Dm.

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1898phae.proj..710B

Apr. 27, 1898

measures { S Lupi (comb.) r
— Lupi r'

B 18989 Lp.
9.39 d 5 r 9.89
e not clear.

B 15693
9.39 d 1 r 9.49 9.77 = 9.63 .14 .14
9.77 r 1 e 9.87

B 20115
10.69 g = .1
rns < 10.79

B 15650
9.39 d 2 r 9.59 9.67 = 9.63 .04 .04
9.67 r 2 e 9.87

B 15933
9.39 d 4 r 9.79 9.87 9.99 = 9.88 .09 .01 .11
9.87 r 0 e 9.87
9.99 r 3 f 10.29
Sec. Image

B 16051
10.29 f 3 r 10.59 10.49 = 10.54 .05 .05
10.49 r 2 g 10.69
Sec. image

B 15888
9.39 d 4 r 9.79 9.87 9.99 = 9.88 .09 .01 .11
9.87 r 0 e 9.87
9.99 r 3 f 10.29 ?

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1898phae.proj..710B

April 30, 1898

$0^{h}\ 30^{m}$ Measures { δ Lupi (comb.) r
                         − Lupi r'

B 18989 Sp.

9.39 d = .5

V' ns. < 9.89

B 16143

11.63 k = .2

V' ns. < 11.83

B 20115

10.69 g = .1

V' ns. < 10.79

B 15693

12.60 n = .1

V' ns. (may be hidden by V) < 12.70

B 15650

12.60 n = .1

V' ns. < 12.70

may be hidden by V

B 13967

12.32 n V', 12.42 12.40 = 12.41 .01 .01

12.40 V' 2 n 12.60

B 14281

11.63 k V' 11.73 11.99 = 11.86 .13 .13

11.99 V' k 12.09

V' 2 k

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1898phae.proj..710B

Measures { δ Lupi (cont.) r
{ − Lupi r'

B 15426

11.63 lu 4 r' 12.03 12.09 12.12 = 12.08 .05 .01 .04

12.09 r' o l 12.09

12.12 r' 2 m 12.32

B 15888

11.13 lu 2 r' 11.33 11.53 = 11.43 .10 .10

11.53 r' 1 lu ? 11.63

almost hidden by r

B 15933

11.13 lu 2 r' 11.33 11.63 = 11.43 .10 .10

11.53 r' 1 lu 11.63

? obscured by r

B 16051

11.63 lu 1 r' 11.73 11.79 = 11.76 .03 .03

11.79 r' 3 l 12.09

B 18584

11.63 lu 4 r' 12.03 12.09 12.12 = 12.08 .05 .01 .04

12.09 r' o l 12.09

12.12 r' 2 m 12.32

B 18683

11.63 lu 2 r' 11.83 12.09 12.12 = 12.01 .18 .08 .11

12.09 r' o l 12.09

12.12 r' 2 m 12.32

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1898phae.proj..710B

Apr. 30, 1898

Measures { δ Lupi (comb.) r
ε Lupi r'

B 19304

11.63 ls 4 r' 12.03 12.09 12.12 = 12.08 .05 .01 .04

12.09 r' 0 l 12.09

12.12 r' 2 m 12.32

Cleared by r.

B19410

11.63 ls 3 r' 11.93 11.89 = 11.91 .02 .02

11.89 r' 2 l 12.09

B19679

11.63 ls 5 r' 12.13 12.09 12.12 = 12.11 .02 .02 .01

12.09 r' 0 l 12.09

12.12 r' 3 m 12.32

B18298

12.60 m = .1

r ns < 12.70

B18353

12.60 m = .2

rns. < 12.80

B18529

12.60 m = .1

rns. < 12.70

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1898phae.proj..710B

Apr. 30, 1898

measures of Lupi (cont.) r
↳ Lupi r'

B15511

9.87 e1r 9.97 9.99 = 9.98 .01 .01
9.99 r3f 10.29

11.13 lo 3r' 11.43 11.63 11.79 = 11.62 .19 .01 .17
11.63 r'0 lo 11.63
11.79 r'3l 12.09

B16385

10.69 q 4r 11.09 11.13 11.23 = 11.15 .06 .02 .08
11.13 r0 lo 11.13
11.28 r4 lo 11.63

11.63 lo 4r' 12.03 12.09 12.22 = 12.11 .08 .02 .11
12.09 r'0 l 12.09
12122 r'1 m 12.32

B16483

11.13 lo 3r 11.43 11.53 = 11.48 .05 .05
11.53 r 1 lo 11.63

12.32 m = .1
r' ns. < 12.42

B16607

11.63 lo 2r 11.83 11.79 = 11.81 .02 .02
11.79 r3l 12.09

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1898phae.proj..710B

Apr. 30, 1898

Measures { S Lupi (comb.) r
— Lupi r'

B 16607

12.09 l r' 12.19 12.32 12.40 = 12.30 .11 .02 .08

12.32 r' 0 m 12.32

12.40 r' 2 m 12.60

B 16682

11.63 l 3 r 11.93 12.09 12.12 = 12.05 .12 .04 .07

12.09 r 0 l 12.09

12.12 r 2 m 12.32

11.63 l 3 r' 11.93 12.09 12.12 = 12.05 .12 .04 .07

12.09 r' 0 l 12.09

12.12 r' 2 m 12.32

B 17529

12.63 l = .2

r m < 12.83

r' m < 12.83

B 13705

9.87 l 1 r 9.97 9.99 = 9.98 .01 .01

9.99 r 3 f 10.29

r' obscured by r

B 11753 S/m

10.69 g = .1

r m < 10.79

r' m < 10.79

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1898phae.proj..tob

Apr. 30, 1898

Measures { δ Lupi (cont.) r
         { Lupi r'

B11678 Lp.

9.87 l = .2

r m s < 10.07

r' m s < 10.07

B13119

11.13 l 2 r 11.23 11.33 = 11.33 .00 .00

11.33 r 3 ls 11.63

11.63 ls 2 r' 11.83 11.79 = 11.81 .02 .02

11.79 r' 3 l 12.09

B13336

9.87 e 2 r 10.07 10.19 = 10.13 .06 .06

10.19 r 1 f 10.29

12.32 m = .1

r' m s. < 12.42

B11431

9.39 d 3 r 9.69 9.87 10.09 = 9.88 .19 .01 .21

9.87 r 0 e 9.87

10.09 r 2 f 10.29

11.13 l = .2

r' m s < 11.33

near edge

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1898phae.proj..710B

Apr. 30, 1896

measures { δ Lupi (comb.) r
− Lupi r'

B11412

9.39 d3r 9.69 9.77 = 9.63 .04 .04
9.77 r1d 9.87

11.63 ls = .1
r'ms < 11.73
near edge.
B13036 Lp.
9.87 d = 3
rms < 10.17
r'ms < 10.17
near edge

B12863
11.63 ls = .1
rms. < 11.73
r'ms < 11.73
Poor plate

B15552
9.87 d1r 9.97 9.97 = 9.97 .00 .00
9.97 r3f 10.29

10.29 f = .1
r'ms < 10.39

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1898phae.proj..710B

Apr. 30, 1898

Measures { δ Lupi (comb.) r
{ – Lupi r'

B15551

9.39 d 5r 9.89 9.67 = 9.78 .11 .11
9.67 r 2e 9.87

11.63 k2 =.1
r'ns. < 11.73
may be obscured by r.

B15393

10.69 g =.1
rns < 10.79
r'ns < 10.79

B14023

10.29 f 3r 10.59 10.69 10.93 = 10.74 .15 .05 .19
10.69 r 0 g 10.69
10.93 r 2 k 11.13

11.63 k2 =.1
r'ns < 11.73

B18946

9.87 e 2r 10.07 9.99 = 10.08 .04 .04
9.99 r 3 f 10.29

12.60 m =.1
r'ns < 12.70

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1898phae.proj..710B

Apr. 30, 1898

measures { δ Lupi (comb.) r
{ Lupi r'

B19936 Sp.

9.87 e1 r 9.97 10.09 = 10.03 .06 .06

10.09 r 2 f 10.29

? as confused spectra Sp.

10.69 g = .2

r' ns < 10.89

B19314

10.69 g 4 r 11.09 11.03 = 11.06 .03 .03

11.03 r 1 h 11.13

11.63 ls = .1

r' ns. < 11.73

B20057

12.32 m 1 r' 12.42 12.40 = 12.41 .01 .01

12.40 r' 2 m 12.60

12.60 m = .1

r ns. < 12.70

B16184

9.87 e 4 r 10.27 10.09 = 10.18 .09 .09

10.09 r 2 f 10.29

11.63 ls = .1

r' ns < 11.73

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1898phae.proj..710B

Apr. 30, 1898

Measures { δ Lupi (comb.) r
= Lupi r'

B17256

12.32 m 2 r' 12.52 12.50 = 12.51 .01 .01
12.50 r' 1 m 12.60

12.60 m = .1
r no < 12.70

B 17116

12.32 m 2 r' 12.52 12.50 = 12.51 .01 .01
12.50 r' 1 m 12.60

12.32 m 4 r 12.72 12.60 = 12.66 .06 .06
12.60 r 0 m 12.60

B16874

12.09 l 3 r 12.39 12.32 12.30 = 12.34 .05 .02 .04
12.32 r 0 m 12.32
12.30 r 3 m 12.60

12.09 l 3 r' 12.39 12.32 12.30 = 12.34 .05 .02 .04
12.32 r' 0 m 12.32
12.30 r' 3 m 12.60

B 19029 bp.

9.39 d 4 r 9.79 9.87 9.99 = 9.88 .09 .01 .11
9.87 r 0 d 9.87
9.99 r 3 f 10.29
10.29 f = .1
r no < 10.39

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1898phae.proj..710B

Apr. 30, 1898

Measures (S Lupi (cont). r
(– Lupi r'

B19189

10.69 g 2r 10.89 11.13 11.33 = 11.12 .23 .01 .21
11.13 r 0 h 11.13
11.33 r 3 h 11.63

12.32 m 2 r' 12.52 12.40 = 12.46 .06 .06
12.40 r' 2 m 12.60

B19052

10.29 f 2r 10.49 10.59 = 10.54 .05 .05
10.59 r 1 g 10.69

11.63 h 1 r' 11.73 11.79 = 11.76 .03 .03
11.79 r' 3 l 12.09

B18836

10.29 f 3r 10.59 10.49 = 10.54 .05 .05
10.49 r 2 g 10.69

11.63 h 2 r' 11.83 11.99 = 11.91 .08 .08
11.99 r' 1 l 12.09

B18786

9.87 p 3 r 10.17 10.29 10.39 = 10.28 .11 .01 .11
10.29 r 0 f 10.29
10.39 r 3 g 10.69

11.13 h 2 r' 11.33 11.63 11.89 = 11.62 .29 .01 .27
11.63 r' 0 h 11.63
11.89 r' 2 l 12.09

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1898phae.proj..710B

Apr. 30, 1898

measures δ Lupi (comb.) r
[– Lupi r'

B 15297.

12.32 m 1 r' 12.42 12.40 = 12.41 .01 .01

12.40 r' 2 m 12.60

12.60 m = .1

r no < 12.70

B13484

9.39 d 3 r 9.69 9.67 = 9.68 .01 .01

9.67 r 2 l 9.87

12.60 m = .2

r' no < 12.80

may be obscured by r

A 2394

10.69 q 3 r 10.99 11.13 11.23 = 11.12 .13 .01 .11

11.13 r o h 11.13

11.23 r 4 h 11.63 ~~12.09~~

12.32 m 3 r' 12.62 12.40 = 12.51 .11 .11

12.40 r' 2 m 12.62

m > h. ? (not more than accounted for by dif. in magis etc.

A 2645

12.32 m 3 r' 12.62 12.40 = 12.51 = 11 .11

12.40 r' 2 m 12.60

12.60 m 5 r 13.10

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1898phae.proj..710B

May 2, 1898.

2h 0m

Measures R Z Virginis

14h 22.3m +5° 7'

Comp. Stars I 6288.
I 6625

B16270 ? Remeas p. 94.

10.71 h4r 11.11 10.81 = 10.96 .15 .15

10.81 r2h 11.01

B16138 ? Remeas. p. 94

10.71 h3r 11.01 10.71 = 10.86 .15 .15

10.71 r3h 11.01

B 15769

10.33 g4r 10.73 10.51 = 10.62 .11 .11

10.51 r2h 10.71

I 6433

8.82 d2r 9.02 9.16 = 9.09 .07 .07

9.16 r2k 9.36

I 6445

8.82 d1r 8.92 9.16 = 9.04 .12 .12

9.16 r2k 9.36

I 6340

8.21 c4r 8.61 8.82 9.16 = 8.86 .25 .04 .30

8.82 r0d 8.82

9.16 r2k 9.36

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1898phae.proj..710B

May 2, 1898

Measures RS Virginis (cont.)

I
~~A~~ 6353
8.82 d 3 r 9.12 9.16 = 9.14 = .02 .02
9.16 r 2 e 9.36

I 6360
8.82 d 2 r 9.02 9.06 = 9.04 . 02 .02
9.06 r 3 e 9.36

I 6395
9.36 e 1 r 9.46 9.54 = 9.50 . 04 . 04
9.54 r 3 f 9.84

I 1459
9.36 e 3 r 9.66 9.84 10.13 = 9.88 .22 .04 .25
9.84 r 0 f 9.84
10.13 r 2 g 10.33

I 12603
8.82 d 4 r 9.22 9.36 9.44 = 9.34 .12 .02 .10
9.36 r 0 e 9.86
9.44 r 4 f 9.84
Poor plate

I 20562
9.36 e 4 r 9.76 9.64 = 9.70 .06 . 06
9.64 r 2 f 9.84

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1898phae.proj..710B

May, 12, 1898

Measures R S Virginis (cont.)

I 16925

12.02 m = .3

rms < 12.32

I 16618

12.02 m = .1

rms < 12.12

I 15162

10.71 h2r 10.91 10.91 = 10.91 .00 .00

10.91 r1h 11.01

I 15302

11.32 h3r 11.62 11.69 11.82 = 11.71 .09 .02 .11

11.69 r0m 11.69

11.82 r2m 12.02

I 15207

11.01 h3r 11.31 11.12 = 11.82 .09 .10

11.12 r2h 11.32

I 15521

12.02 m2r 12.22

I 15479

11.69 m = .1

rms < 11.79

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1898phae.proj..710B

May 2, 1898

Measures R.S Virginis (cont.)

I 14704

9.36 e 3 r 9.66 9.84 10.03 = 9.84 .18 .00 .19

9.84 r 0 f 9.84

10.03 r 3 g 10.33

I 14662

9.36 e 3 r 9.66 9.64 = 9.65 .01 .01

9.64 r 2 f 9.84

Poor plate

I 14581

10.33 g 2 r 10.53 10.61 = 10.57 .04 .04

10.61 r 1 h 10.71

Very poor plate

I 14970

9.84 f 3 r 10.14 10.33 10.41 = 10.29 .15 .04 .12

10.33 r 0 g 10.33

10.41 r 3 h 10.71

I 12777

8.82 d 3 r 9.12 9.36 9.54 = 9.34 .22 .02 .20

9.36 r 0 e 9.36

9.54 r 3 f 9.84

I 12579

8.82 d 2 r 9.02 9.26 = 9.14 .12 .12

9.26 r 1 e 9.36

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1898phae.proj..710B

May 2, 1898

Measures R & Virginis (cont.)

I 12426

9.86 e 4r 9.76 9.64 = 9.70 .06 .06

9.64 r 2f 9.84

I 13296

Too faint

I 11193

9.86 e 2r 9.56 9.54 = 9.55 .01 .01

9.54 r 3f 9.84

very faint.

I 12975

10.71 b 3r 11.01 11.01 11.12 = 11.05 .04 .04 .07

11.01 r 0b 11.01

11.12 r 2b 11.32

I 10995

8.21 c 3r 8.51 8.72 = 8.62 .11 .10

8.72 r 1d 8.82

I 10964 Sp.

7.82 b 3r 8.12 8.11 = 8.12 .00 .01

8.11 r 1c 8.21

I 10913

7.82 b 4r 8.22 8.01 = 8.12 .10 .11

8.01 r 2c 8.21

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1898phae.proj..710B

Measures R S Virginis (cont.)

I 10836

8.21 c1r 8.31 8.42 = 8.36 .05 .06

8.43 r4d 8.82

I 10783

9.36 e1r 9.46

fus

Pon plate

I 11112

8.82 d1r 8.92 9.16 = 9.04 .12 .12

9.16 r2e 9.36

I 11024 Sp.

8.21 c2r 8.41 8.72 = 8.56 .15 .16

8.72 r1d 8.82

I 14952

9.36 e4r 9.76 9.84 10.13 = 9.91 .15 .07 .22

9.84 r0f 9.84

10.13 r2g 10.33

I 14548

10.33 g2r 10.53 10.41 = 10.47 .06 .06

10.41 r3h 10.71

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1898phae.proj..710B

May 2, 1898

measures R Z Virginis (cmb.)

I 15365

12.02 n o r 12.02

I 15151

10.71 h 2 r 10.91 10.81 = 10.86 .05 .05

10.81 r 2 h 11.01

I 16954 Sp.

10.33 g = .1

h m o < 10.33

I 17165

10.71 h 3 r 11.01 10.81 = 10.91 .10 .10

10.81 r 2 h 11.01

I 17364

8.21 c 5 r 8.71 8.82 9.06 = 8.86 .15 .04 .20

8.82 r o d 8.82

9.06 r 3 l 9.36

I 17568

7.82 h 2 r 8.02 8.21 8.52 = 8.25 .23 .04 .27

8.21 r o c 8.21

8.52 r 3 d 8.82

I 18177

10.33 g 1 r 10.43 10.41 = 10.42 .01 .01

10.41 r 3 h 10.71

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1898phae.proj..710B

May 2, 1898

Measures R S Virginis (cmb)

I 18207

10.33 q 3r 10.63 10.71 10.71 = 10.68 .05 .03 .03
10.71 r 0h 10.71
10.71 r 3h 11.01

I 20300

9.36 e 1r 9.46 9.54 = 9.50 .04 .04
9.54 r 3f 9.84

I 18327

11.32 h 1r 11.42 11.59 = 11.50 .08 .09
11.59 r 1m 11.69

I 18443

12.02 m 2r 12.22

I 20654

9.36 e 3r 9.66 9.74 = 9.70 .04 .04
9.74 r 1f 9.84

I 19737

12.02 m = 3
rms < 12.32

I 18097

9.36 e 3r 9.66 9.64 = 9.65 .01 .01
9.64 r 2f 9.84

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1898phae.proj..710B

May 2, 1898

3h. 0m Measures R S Virginis (cont.)

I 20020

11.32 l 2 r 11.52 11.69 11.82 = 11.68 .16 .01 .14

11.69 r 0 m 11.69

11.82 r 2 m 12.02

I 20117

9.36 l 3 r 9.66 9.74 = 9.70 .04 .04

9.74 r 1 f 9.84

I 17835

9.36 l 2 r 9.56 9.44 = 9.50 .06 .06

9.44 r 4 f 9.84 Reject as must have made mistake in putting down letters see p. 94.

I 17530

8.82 d 2 r 9.02 9.06 = 9.04 .02 .02

9.06 r 3 l 9.36

I 17291

9.36 l 3 r 9.66 9.34 = 9.50 .16 .16

9.34 r 5 f 9.84

I 17211

9.84 f 1 r 9.94 10.13 = 10.04 .10 .09

16.13 r 2 g 10.33

I 17034

12.02 m 1 r 12.12

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1898phae.proj..710B

May 2, 1898

Measures R S Virginis (cont.)

B 15392

9.36 e 2r 9.56 9.84 10.03 = 9.81 .25 .03 .22

9.84 r 0 f 9.84

10.03 r 3 g 10.33

I 16745

11.32 l = .1

rms < 11.42

B 15394

9.36 e 5r 9.86 9.64 = 9.75 .11 .11

9.64 r 2 f 9.84

Nearedge

B 16484

11.69 m 2r 11.89 11.92 = 11.90 .01 .02

11.92 r 1 w 12.02

B 16533

11.32 l = .1

rms < 11.42

B 16717

11.69 m 3r 11.99 11.92 = ~~11.96~~ ~~.03~~ .04

11.92 r 1 w 12.02

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1898phae.proj..710B

May 2, 1898

Measures R Z Virginis (cont.)

B18876

7.82 b 4r 8.22 8.21 8.52 = 8.32 .10 .11 .30

8.21 r 0 c 8.21

8.52 r 3 d 8.82

B18751

7.82 b 5r 8.32 8.11 = 8.22 .10 .11

8.11 r 1 c 8.21

B18411

9.84 f 4r 10.24 10.33 10.41 = 10.33 .09 .00 .08

10.33 r 0 g 10.33

10.41 r 3 h 10.71

near edge

B19631

10.33 g 4r 10.73 10.71 10.81 = 10.75 .02 .04 .06

10.71 r 0 h 10.71

10.81 r 2 h 11.01

B19309

9.84 f 1r 9.94 10.13 = 10.04 .10 .09

10.13 r 2 g 10.33

B17168

12.02 h 2r 12.22

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1898phae.proj..710B

May 2, 1898

Measures R & Virginis (cont.)

B 20047

12.02 n 3 r 12.32

B 20088

12.02 n=.2

rms < 12.22

B 7435

7.24 a 7 r 7.94 9.44 = 8.69 .75 .75

9.44 r 4 f 9.84

c-d-e-not on plate

B 6427

8.82 d 2 r 9.02 9.06 = 9.04 .02 .02

9.06 r 3 e 9.36

B 6426

8.82 d 3 r 9.12 9.26 = 9.19 .07 .07

9.36 r 1 e 9.36

B 7802

8.82 d 3 r 9.12 9.16 = 9.14 .02 .02

9.16 r 2 e 9.36

B 7801

8.21 C 4 r 8.61 8.82 9.06 = 8.83 .22 .01 .23

8.82 r 0 d 8.82

9.06 r 3 e 9.36

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1898phae.proj..710B

May 2, 1898

Measures R & Virginis (cont.)

B9763 bfp.

10.33 g = .1

r no < 10.43

B9906

11.01 b3r 11.31 11.22 = 11.27 .04 .05

11.22 r1l 11.32

B9907

11.01 b3r 11.31 11.32 11.49 = 11.37 .06 .05 .12

11.32 r0l 11.32

11.49 r2m 11.69

B1446 bfp.

8.82 d = .1

r no < 8.92

Pos. Plate

B11496 bfp.

9.84 f3r 10.14 10.23 = 10.18 .04 .05

10.23 r1g 10.23

B11385 bfp.

9.36 e3r 9.66 9.64 = 9.65 .01 .01

9.64 r2f 9.84

A560

8.21 r0k 8.21 8.52 = 8.36 .15 .16

8.52 r3d 8.82

Position Plate

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1898phae.proj..710B

May 2, 1898

Measures R S Virginis (cont.)

B 11268

8.82 d 3r 9.12 9.26 9.44 = 9.31 .19 .05 .13
9.36 r o e 9.36
9.44 r 4 f 9.84

B13260

8.82 d 4r 9.22 9.36 9.64 = 9.41 .19 .05 .23
9.36 r o e 9.36
9.64 r 2 f 9.84

B13262

9.36 d 2r 9.56 9.54 = 9.55 .01 .01
9.54 r 3 f 9.84

B13329

9.36 e 3r 9.66 9.64 = 9.65 .01 .01
9.64 r 2 f 9.84

B13364 Sp.

9.36 e 3r 9.66 9.84 = 9.75 .09 .09
9.84 r 0 f 9.84
gns

B13624

10.33 f 2r 10.53 10.71 10.71 = 10.65 .12 .06 .06
10.71 r o h 10.71
10.71 r 3 h 11.01

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1898phae.proj..710B

May 5, 1898

2h. 0m Measures RS Virginis (cmb.)

B16138.

11.32 l3r 11.62 11.39 = 11.50 .12 .11
11.39 r3m ~~12.02~~ 11.69

B16270

11.32 l4r 11.72 11.49 = 11.60 .12 .11
11.49 r2m ~~12.02~~ 11.69

I 15365

~~12.02~~ 11.69 m2r 11.89 12.02 = 11.96 .07 .06
12.02 r0m 12.02
near edge.

I 17835

7.82 l4r 8.22 8.11 = 8.16 .06 .05
8.11 r1c 8.21

I 17530

8.21 c2r 8.41 8.52 = 8.46 .05 .06
8.52 r3d 8.82

I 17364

8.82 d4r 9.22 9.16 = 9.19 .03 .03
9.16 r2l 9.36
near edge.

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1898phae.proj. 710B

May 6. 1898

2 h 0 m Measures R. 8. Virginis (cont.)

I6685

10.71 h 2 r 10.91 10.81 = 10.86 .05 .05
10.81 r 2 h 11.01

I8492

9.36 h 3 r 9.66 9.64 = 9.65 .01 .01
9.64 r 2 f 9.84

I9019

11.69 m 2 r 11.89 11.92 = 11.90 .01 .02
11.92 r 1 m 12.02

I8573

9.84 f 2 r 10.04 10.23 = 10.13 .09 .10
10.23 r 1 g 10.33

I8598

10.33 g 2 r 10.53 10.51 = 10.52 .01 .01
10.51 r 2 h 10.71

I8681

10.71 h 1 r 10.81 10.81 = 10.81 .00 .00
10.81 r 2 h 11.01

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1898phae.proj..710B

May 6, 1898

Measures { z Centauri - called r
Nebula near Nova Centauri. called r'
Comp. Stars B13965

B13965
m 1r'
r'0 w
r'2 0
nova visible

B14072
b 3r
r'0 w
r'4 w
Nova visible

B15523
Nova n. s.
q = .4
B15447
Nova n. s.
p = .2

B15508
q = .3
rus

B17111
0 = .1
rus

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1898phae.proj..710B

May 6, 1898

measures { Z Cent. / Nebulæ (comb.)

B 16824
q = .5
rns

I
~~A~~ B 17217
n = .1
rns

B 16014
n = .1
rns

B 15924
l = .1
rns

B 15810
l = .1
rns

B 15682
q = .3
rns

I
~~A~~ 14701
l = .2
rns.

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1898phae.proj..710B

May 7, 1898

0h 30m ζ Centauri } (cont.) r
nebula } r'

B 15683
m=.1
r'ms.

I 14255
h2 r'
r'1 h2

I 14215
l=.1
r'ms

I 14214
h=.1
r'ms

I 14112
l=.1
r'ms

I 14099
h=.1
r'ms

I 14076
l'1r'
r'2 m

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1898phae.proj..710B

May 7, 1898

Z centauri } (comb) r
nebula } r'

I 14170
l l r'
r' l nv

I 14173
l = .1
r' ns

I 14172
l = .2
r' ns

I 14171
l s 2 r'
r' 2 l

I 12808
useless

I 12837
useless

I 12836
useless

I 12973
l 2 r'
r' 0 m

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1898phae.proj..710B

May 7, 1898

Measures Z (comb.) / Nebulæ Z (comb.) r / r'

I 12972
q = .2
r' ns

I 11170
nseless

I 12424
l = .1
r' ns

I 12423
l 1r'
r' 0 m
n ns

I 12578
l 2 1r'
r' 2 l

I 12577
l 2 3r'
r' 0 l
m ns

I 12757
l 2 2r'
r' l

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1898phae.proj..710B

May 7, 1898

Measures Z Cent. } (Cont) r
nebulæ } r'

I 12756
m l r'
r' l m

I 8291 Sp.
Zoo from

I 8451
l l r'
r' 2 m

I 6504
Too near edge

B 11454
l 2 3 r'
r' l l

B 11449
l 2 r'
r' 3 l 2
r' 2 l
Near edge

B 11326 Sp
f = .2
r m 3

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1898phae.proj..710B

May 7, 1898

Measures ζ Centauri r ζ(cont.)
Nebula r'

B 11236
b 2 r'
r' 1 m

B 11198
b 1 r'
r' 3 m

B 10860
b 3 r'
r' 0 m
r' 2 m

B 12841
m 2 r'
r' 0 m
0 ms

B 12804
b = .1
r' ms

B 13524
m 2 r'
r' 0 o
r' 1 p

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1898phae.proj..710B

May 7, 1898

Measures of Comb. r & (cont.)
Nebula r' &

B13482
L4r'
r'/m

B13390 Lp.
g=.1
r'ns
nearedge

B13298
bs3r'
r'/L

B13234
m2r'
r'/m

B13165 Lp.
b=.1
r'ns

B13159 Lp
f=.1
r'ns
nearedge

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1898phae.proj..710B

May 7, 1898

measures ζ Centauri r } (comb.)
nebula r' }

B 13067 2p.
f=.2
r' ns

B 13058 2p.
Jos near edge

B 15270
l 3 r'
r' 0 nw
r' 4 w

B 15295
w 2 r'
r' 1 0

B 5136
l 1 r'
r' 3 nw

B 3635 2p.
Jos pos

B 3542
l 2 r'
r' 1 nw

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1898phae.proj..710B

May 7, 1898

measures ζ Centauri & Comp.
nebula &

B3331
bn.1
r'ns

B6433
bs1r'
bns
Por plate

B6432
n2r'
r'on
ons
Por plate

B7625
bn3r'
r'obs
r'3b
Por plate

B7379
Too near edge

B7378
bn2r'
r'2b
bs not on plate
near edge

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1898phae.proj.710B

May 7, 1898

measures ζ Cephei { r / nebula } r1 (comb.)

B9975
hs 3r'
r'0l
r'3nw

B9721
nlr'
r'0o
r'2p

B9525
h 4r'
r'1l
hs nb nr plate
near edge

B9524
h 3r'
r'2l
hs. n. nr pl. near edge

B9401 ep.
h = 1.
r'ns

B 3558
too confused
D plate

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1898phae.proj..710B

May 7, 1898

Measures of Cent. of Nebulæ (cont'd)

B9976
Poor plate Defect in region.

B 7989 Lp.
q=.1
r ns

B 5086 Lp.
Too poor

B 4878 Lp.
Too near edge

I 15173
n=.1
r ns

B 13932
Does not cover

B 14069
Does not cover

B 3606 Lp.
Too near edge

I 6236 Lp.
Too poor

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1898phae.proj..710B

May 7, 1898

measures Z Cent r
nebula r' } Knott

I 6459
g = .1
r' no
~~f no~~ Too near edge

I 5975
bri r'
r' 1 f

I 3788
e = .2
r' no

I 3677
g = .1
r' no

I 3552
~~f no f no~~.
f = .3
r' no

I 6551
h = .1
r' no
Poor pl.

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1898phae.proj..710B

May 7, 1898

Measures Z Cent. r) (comb.)
Nebula r')

I 8597
g = .2
r' no
near edge

I 8679
Too near edge

I 8602 Sp.
Too near edge

I 8460 Sp.
Too near edge

B 3557
Too confused
Bad plate

B 5981
l 3 r'
r' 1 m

B 5307
l 1 r'
r' 3 m

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1898phae.proj..710B

May 7, 1898

Measures Z Cent. v } Cent.
Nebulæ r' } Cent.

B 5305
l 2 r'
r' 0 m
r' 1 m

B 5241
l 3 r'
r' 0 l
r' 4 m

B 5191 Sp.
Irregular edge

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1898phae.proj..710B

May 10, 1898

2h 0m. Scale Measures ν Centauri.

B 9537.
a = 5.0
b = 5.5
c = 6.0
d = 6.4
e = 7.1
f = 7.5
g = 8.1
h = 8.5
rav. = 5.2

B 9536
a = 5.5
b = 6.1
c = 6.7
d = 7.1
e = 7.6
f = 8.1
g = 8.5
h = 8.9
rav. = 5.9

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1898phae.proj..710B

May 10, 1898

Measures ζ Centauri (cont.)

B 16405
a = 5.8
b = 6.4
c = 7.0
d = 7.4
e = 7.9
f = 8.4
g = 8.9
h = 9.3
rav = 6.1

B 15649
a = 5.1
b = 5.6
c = 6.3
d = 6.8
e = 7.3
f = 7.8
g = 8.3
h = 8.9
rav = 5.5

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1898phae.proj..710B

May 10, 1898

2h 30m Measures { S Lupi r
— Lupi r' } cont. fr. p. 79.

B 6404
11.63 bs=1
r'ns > 11.73

B 14072 (11272)
12.32 m 2r' 12.52 12.50 = 12.51 .01 .01
12.50 r' 1w 12.60

B 9196
11.63 bs 3r' 11.93 11.89 = 11.91 .02 .02
11.89 r' 2 l 12.09

B 9390
9.87 e=.2
r'ns > 10.07

B 9391 (538)
12.32 m 2r 12.52 12.60 = 12.56 .04 .04
12.60 r 0w 12.60
? indistinct

B 9671
10.69 g 3r 10.99 11.13 11.43 = 11.18 .19 .06 .25
11.13 r 0 b 11.13
11.43 r 2 bs 11.63
? obscured by r

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1898phae.proj..710B

May 10, 1898

Measures { S Lupi r
{ Lupi r' (contd.)

B 10893

12.60 m = .1

r' no < 12.70

B 10955

12.32 m | r' 12.42 12.50 = 12.46 .04 .04

12.50 r' | m 12.60

B 11298 Sp.

10.69 g = .1

r' no < 10.79

B 7646

11.63 kz = .1

r' no < 11.73

B 7642

10.69 g = .1

r' no < 10.79

B 7358

10.69 g = .1

r' no < 10.79

B 7464

12.60 m = .1

r' no < 12.70

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1898phae.proj..710B

May 10, 1898

measures of δ Lupi r
– Lupi r' (cont.)

B 9146
11.63 ks = .2
r'ns < 11.83

B 6876
12.60 ns = .1
r'ns < 12.70

B 5979
11.63 ks = .1
r'ns < 11.73

B 5908
11.63 ks = .1
r'ns < 11.73

B 6403
12.60 ns r' 12.70

B 9391
11.63 ks = .1
r'ns < 11.73
near edge

B 5068
11.63 ks = .2
r'ns < 11.83

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1898phae.proj..710B

May 10, 1898

Measures { δ Lupi r
– Lupi r' (contd.)

B3522
12.09 l = .1
r'no < 12.19

B3523
12.09 l = .1
r'no < 12.19

B3703
12.32 no = 3 r' 12.62 12.40 = 12.51 .11 .11
12.40 r' 2 no 12.60

B5237
12.32 no 1 r' 12.42 12.50 = 12.46 .04 .04
12.50 r' 1 no 12.60

B6242
11.13 l = .3
r'no < 11.43

B6243
10.29 l = .4
r'no < 10.69

B6261
12.60 no 1 r' 12.70

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1898phae.proj.710B

May 10, 1898

measures { δ Lupi r
{ – Lupi r' (cont'd)

B 6514
11.63 hs = .2
r' no < 11.83

B 6515
11.63 hs = .1
r' no < 11.73

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1898phae.proj.7410B

May 11, 1898

Measures Librae B.D. -17° 4122.
14h. 27s -17° 24'
Comp. Stars B 11459

1h 45m

B3658 Sp.
Too poor

B3674 Sp.
Too poor.

B7385
Does not cover. Corner broken

B10817 Sp.
Does not cover.

B15771
Does not cover.

I 17426
8.57 b-2 r 8.77 9.25 = 9.01 .24 .24
9.25 r 2 c 9.45

B18943
Too near edge

I 17125
8.57 b-2 r 8.77 9.15 = 8.96 .19 .19
9.15 r 3 c 9.45

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1898phae.proj..710B

May 11, 1898

measures Librae (imb.)

I 17001
8.57 b3r 8.87 9.05 = 8.96 .09 .09
9.05 r4c 9.45

I 18196
8.57 b1r 8.67 9.15 = 8.91 .24 .24
9.15 r3c 9.45

I 18151
8.57 b5r 9.07 9.35 = 9.21 .14 .14
9.35 r1c 9.45

I 18139
8.28 a4r 8.62 8.57 9.05 = 8.75 .13 .18 .30
8.57 r o b 8.57
9.05 r4c 9.45

I 18179
8.22 a4r 8.62 8.57 9.15 = 8.78 .16 .21 .37
8.57 r o b 8.57
9.15 r3c 9.45

I 18119
8.57 b1r 8.67 9.15 = 8.91 .24 .24
9.15 r3c 9.45

I 18108
Im prov

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1898phae.proj..710B

May 11, 1898.

Measures Lihau (cont.)

I 18243
8.57 b 4 r 8.97 9.25 = 9.11 .14 .14
9.25 r 2 c 9.45

I 18264
8.57 b 1 r 8.67 9.15 = 8.91 .14 .14
9.15 r 3 c 9.45

I 18269
8.22 a 4 r 8.62 8.47 = 8.54 .08 .07
8.47 r 1 b 8.67

I 18276
8.57 b 2 r 8.77 9.15 = 8.96 .19 .19
9.15 r 3 c 9.45

I 18278
8.57 b 1 r 8.67 9.15 = 8.91 .14 .14
9.15 r 3 c 9.45

I 18286
8.22 a 4 r 8.62 8.57 9.15 = 8.78 .16 .21 .37
8.57 r o b 8.57
9.15 r 3 c 9.45

I 18294
8.22 a 4 r 8.62 8.57 8.95 = 8.71 .09 .14 .24
8.57 r o b 8.57
8.95 r 5 c 9.45

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1898phae.proj...710B

May 11, 1898

Measures Lihae (cont.)

I 18295
9.45 c 1r 9.55 9.40 = 9.48 .07 .08
9.40 r 3d 9.70

I 17984
8.57 b 1r 8.67 9.25 = 9.46 .21 .21
9.25 r 2c 9.45

I 17922
8.22 a 4r 8.62 8.57 9.15 = 8.78 .16 .21 .37
8.57 r 0b 8.57
9.15 r 3c 9.45

I 17861
8.57 b 2r 8.77 9.05 = 9.91 .14 .14
9.05 r 4c 9.45

I 17785
8.22 a 4r 8.62 8.47 = 8.54 .08 .07
8.47 r 1b 8.67

I 17764
8.22 a 4r 8.62 8.47 = 8.54 .08 .07
8.47 r 1b 8.57

I 18366
8.22 a 3r 8.62 8.57 8.95 = 8.68 .16 .11 .27
8.57 r 0b 8.57
8.95 r 5c 9.45

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1898phae.proj..710B

may 11, 1898

measures Librae (cont.)

I 18234
8.57 b2r 8.77 9.25 = 9.51 .26 .26
9.25 r2c 9.45

I 18018
8.57 b1r 8.67 9.15 = 8.91 .24 .24
9.15 r3c 9.45

I 18040
8.57 b1r 8.67 9.15 = 8.91 .24 .24
9.15 r3c 9.45

I 20276
8.57 b2r 8.77 9.15 = 8.96 .19 .19
9.15 r3c 9.45

I 20106
8.57 b3r 8.87 9.25 = 9.06 .19 .19
9.25 r2c 9.45

I 17998
8.57 b4r 8.97 9.25 = 9.11 .14 .14
9.25 r2c 9.45

I 17994
8.57 b2r 8.77 9.05 = 8.91 .14 .14
9.05 r4c 9.45

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1898phae.proj..710B

May 11, 1898

Measures Lilias (cont.)

I 17967
8.57 b2v 8.77 9.15 = 8.96 .19 .19
9.15 v3c 9.45

I 17956
8.57 b1v 8.67 9.15 = 8.91 .24 .24
9.15 v3c 9.45

I 17930
8.22 a4v 8.62 8.57 9.15 = 8.78 .16 .21 .37
8.57 vob 8.57
9.15 v3c 9.45

I 17831
8.22 a3v 8.52 8.57 9.15 = 8.75 .23 .18 .30
8.57 vob 8.57
9.15 v3c 9.45

I 17755
8.22 a3v 8.52 8.47 = 8.50 .02 .03
8.47 v1b 8.57

I 17780
8.57 b2v 8.77 9.25 = 9.51 .26 .26
9.25 v2c 9.45

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1898phae.proj.710B

May 11, 1898

Measures Lihae (cont.)

I 17800
8.22 a4r 8.62 8.57 9.25 = 8.81 .19 .24 .44
8.57 r0b 8.57
9.25 r2c 9.45

I 17804
1 on plate.

I 17806
8.57 b3r 8.87 9.25 = 9.06 .19 .19
9.25 r2c 9.45

I 17816
8.57 b3r 8.87 9.25 = 9.06 .19 .19
9.25 r2c 9.45

B 20049
8.57 b5r 9.07 9.25 = 9.16 .09 .09
9.25 r2c 9.45
near edge

B 20054
1 on near edge

B 20090
8.57 a9r 9.47
b+c n. on pl.
near edge.

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1898phae.proj..710B

May 11, 1898

Measures Libræ (cont.)

B18653 dp.

8.57 b1r 8.67 9.25 = 9.46 .21 .21
9.25r2c 9.45

B18877

Too near edge

B19634

8.57 b2r 8.77 9.05 = 8.91 .14 .14
9.05r4c 9.45

B19307

8.57 b3r 8.87 9.15 = 9.01 .14 .14
9.15r3c 9.45

B19212 dp.

8.57 b=.1
rms < 8.67

I17690

8.57 b3r 8.87 9.25 = 9.06 .19 .19
9.25r2c 9.45

I17606

8.57 b4r 8.97 9.25 = 9.11 .14 .14
9.25r2c 9.45

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1898phae.proj.710B

May 11, 1898

Measures Zikrae (cont.)

±17652
8.57 b2r 8.77 9.15 = 8.96 .19 .19
9.15 r3c 9.45

I17661 9.85 16 .19 .19
8.57 b4r 8.97 = 9.27 .24 .24
9.35 r1c 9.45

I17672
8.57 b5r 9.07 9.25 = 9.16 .09 .09
9.25 r2c 9.45

I17674
8.57 b2r 8.77 9.15 = 8.96 .19 .19
9.15 r3c 9.45

I17679
8.57 b1r 8.67 9.15 = 8.91 .24 .24
9.15 r3c 9.45

±17632
8.22a3r 8.52 8.57 9.15 = 8.75 .23 .18 .40
8.57 r0b 8.57
9.15 r3c 9.45
Poor plate

I17470
9.45c1r 9.55 9.30 = 9.42 .13 .12
9.30 r4d 9.70

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1898phae.proj..710B

May 11, 1898

Measures Librae (cont.)

I17252

8.22 a5r 8.72 8.57 9.05 = 8.78 .06 .21 .27
8.57 rob 8.57
9.05 r4c 9.45

I17074

8.22 a3r 8.52 8.57 9.15 = 8.75 .23 .18 .40
8.57 rob 8.57
9.15 r3c 9.45

I17598

8.57 b3r 8.87 9.35 = 9.11 .24 .24
9.35 r1c 9.45

I17576

8.57 b4r 8.97 9.15 = 9.06 .09 .09
9.15 r3c 9.45

I17563

8.22 a4r 8.62 8.57 9.95 = 8.71 .09 .14 .24
8.57 rob 8.57
9.95 r5c 9.45

I17535

8.22 a4r 8.62 8.57 9.15 = 8.78 .16 .21 .37
8.57 rob 8.67
9.15 r3c 9.45

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1898phae.proj.710B

May 11, 1898

Measures Libræ (cont.)

I 17353
X=X
8.57 b 3 r 8.87
cus

I 18033
8.57 b 1 r 8.67 9.15 = 8.91 .24 .24
9.15 r 3 c 9.45

I 16900
8.57 b 2 r 8.77 9.15 = 8.96 .19 .19
9.15 r 3 c 9.45

I 18053
Too faint

I 18063
8.22 a 3 r 8.52 8.57 = 8.54 .02 .03
8.57 r 0 b 8.57
cus
Poor plate

I 18066
9.45 c 1 r 9.35 9.40 = 9.38 .03 .02
9.40 r 3 d 9.70

I 18096
9.45 c 1 r 9.55 9.40 = 9.48 .07 .08
9.40 r 3 d 9.70

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1898phae.proj..710B

Measures Zikar (cont.).

I17895
8.57 b3r 8.87 9.25 = 9.06 .19 .19
9.25 r2c 9.45

I17846
8.57 b2r 8.77 9.05 = 8.91 .14 .14
9.05 r4c 9.45

I17847
8.57 b2r 8.77 9.15 = 8.96 .19 .19
9.15 r3c 9.45

I17738
8.57 b2r 8.77 9.25 = 9.01 .24 .24
9.25 r2c 9.45

I17729
8.57 b3r 8.87 9.25 = 9.06 .19 .19
9.25 r2c 9.45

I17707
Too confused. Trail plate

I17908
8.57 b1r 8.67 9.15 = 8.91 .24 .24
9.15 r3c 9.45

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1898phae.proj.710B

May 11, 1898

Measures Lihae (cont.).

I 17694
8.57 b 1r 8.67 9.15 = 8.91 .24 .24
9.15 r 3c 9.45

I 18317
8.22 a 4r 8.62 8.47 = 8.54 .08 .07
8.47 r 1b 8.67

I 18517
8.57 b 4r 8.97 9.35 = 9.16 .19 .19
9.35 r 1c 9.45

I 19738
8.57 b 2r 8.77 9.15 = 8.96 .19 .19
9.15 r 3c 9.45

I 20714
8.57 b 2r 8.77 9.15 = 8.96 .19 .19
9.15 r 3c 9.45

I 20604
8.57 b 3r 8.87 9.25 = 9.06 .19 .19
9.25 r 2c 9.45

I 20496
9.45 c 1r 9.55 9.40 = 9.48 .07 .08
9.40 r 3d 9.70

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1898phae.proj..710B

May 13, 1898

Measures δ. Apodis

14 59.4 -71° 40'

Comp. Stars B 6341

1h 45m B16876

9.08 h1r 9.18 9.40 9.42 = 9.33 .15 .07 .09

9.40 r o h 9.40

9.42 r 3 h 9.72

B19432

8.60 g 2r 8.80 8.78 = 8.79 .01 .01

8.78 r 3 h 9.08

B19680

8.60 g 1r 8.70 8.88 = 8.79 .09 .09

8.88 r 2 h 9.08

B19999

9.08 h 2r 9.28 9.30 = 9.29 .01 .01

9.30 r 1 h 9.40

B20278

9.08 h 2r 9.28 9.30 = 9.29 .01 .01

9.30 r 1 h 9.40

B20269 8p.

8.60 g 2r 8.80 8.98 = 8.89 .09 .09

8.98 r 1 h 9.08

B 19287

8.60 g 5r 9.10 9.08 9.00 = 9.06 .04 .02 .06

9.08 r 0 h 9.08

9.26 r 4 h 9.40

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1898phae.proj..710B

May. 13, 1898

Measures & Apodis (cont.)

B 20117
9.08 h 3 r 9.38 ~~9.30~~ = 9.34. .04 .04
9.30 r 1 h 9.40

B 19190
8.48 f 2 r 8.68 8.60 ~~9.20~~ 8.88 = 8.72 .04 .12 .16
8.60 r 0 g 8.60
~~9.20~~ 8.88 r 2 h 9.~~48~~08

B 19056
8.60 g 1 r 8.70 ~~9.20~~ 8.88 = 8.79 .09 .09
~~9.20~~ 8.88 r 2 h 9.~~48~~08

B 18949
8.60 g 4 r 9.00 ~~9.30~~ 8.98 = 8.99 .01 .01
~~9.30~~ 8.98 r 1 h 9.~~48~~08

B 18837
8.60 g 4 r 9.00 ~~9.20~~ 8.88 = ~~9.10~~ 8.94 .06 .06
~~9.20~~ 8.88 r 2 h 9.~~48~~08

B 18787
8.16 e 4 r 8.56 8.48 8.50 = 8.51 .05 .03 .02
8.48 r 0 f 8.48
8.50 r 1 g 8.60

B 18299
8.60 g 3 r 8.90 ~~9.20~~ 8.88 = 8.89 .01 .01
~~9.20~~ 8.88 r 2 h 9.~~48~~08

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1898phae.proj..710B

May 13, 1898

Measures & Aprodis (cont.)

B 18585

8.60 q 5 r 9.10 9.08 9.20 = 9.13 .03 .05 .07
9.08 9.08
9.40 r 0 b 9.42
9.20 r 2 b 9.40

B 18633

8.60 q 4 r 9.00 8.98 = 8.99 .01 .01
8.98 r 1 b 9.08

B 18684

8.60 q 4 r 9.00 9.08 9.20 = 9.09 .09 .01 .11
9.08 r 0 b 9.08
9.20 r 2 b 9.40

B 17313

9.08 b 2 r 9.28 9.30 = 9.29 .01 .01
9.30 r 1 b 9.40

B 16053

9.08 b 3 r 9.38 9.40 9.42 = 9.40 .02 .00 .02
9.40 r 0 b 9.40
9.42 r 3 b 9.72

B 15926

9.08 b 3 r 9.38 9.40 9.52 = 9.43 .05 .03 .09
9.40 r 0 b 9.40
9.52 r 2 b 9.72

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1898phae.proj.710B

April 13, 1898

measures δ Aprodis (cont.)

B 15730

9.40 h≈1r 9.50 9.62 = 9.56 .06 .06
9.62 r1l 9.72

B 15691

9.40 h≈2r 9.60 9.62 = 9.61 .01 .01
9.62 r1l 9.72

B 15644

9.40 h≈1r 9.50 9.52 = 9.51 .01 .01
9.52 r2l 9.72

B 16106

9.08 h4r 9.48 9.30 = 9.39 .09 .09
9.30 r1h≈ 9.40

B 16225

9.08 h5r 9.58 9.30 = 9.44 .14 .14
9.30 r1h≈ 9.40
near edge

B 16320

9.08 h4r 9.48 9.30 = 9.39 .09 .09
9.30 r1h≈ 9.40
near edge

B 16387

9.08 h1r 9.18 9.20 = 9.19 .01 .01
9.20 r2h≈ 9.40

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1898phae.proj..710B

Measures δ Aprodis (cont.)

B 16352

9.08 b1v 9.18 9.20 = 9.19 .01 .01

9.20 v2b 9.40

B 16226

9.08 b4v 9.48 9.40 9.42 = 9.48 .05 .03 .01

9.40 v1b 9.40

9.42 v3b 9.72

B 16609

8.60 g5v 9.10 9.08 9.20 = 9.13 .03 .05 .07

9.08 v1b 9.08

9.20 v2b 9.40

B 17117

9.40 b1v 9.50 9.42 = 9.46 .04 .04

9.42 v3b 9.72

A 2449

8.60 g1v 8.70 8.88 = 8.79 .09 .09

8.88 v2b 9.08

A 2666

9.08 b2v 9.28 9.30 = 9.29 .01 .01

9.30 v1b 9.40

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1898phae.proj.710B

May 13, 1898

Measures · Triang. Aust.
$15^h 4.8^m - 69° 42' (1901)$ Abs C 20554.
Comp. Stars B16876

$2^h 15^m$

B18684
8.04 h 2 r 8.24 8.36 8.48 = 8.36 .12 .00 .12
8.36 r 0 c 8.36
8.48 r 2 d 8.68

B18633
8.36 c 1 r 8.46 8.48 = 8.47 .01 .01
8.48 r 2 d 8.68

B18585
8.36 c 3 r 8.66 8.58 = 8.62 .04 .04
8.58 r 1 d 8.68

B18299
8.36 c 1 r 8.46 8.38 = 8.42 .04 .04
8.38 r 3 d 8.68

B18787
8.36 c 3 r 8.66 8.48 = 8.57 .09 .09
8.48 r 2 d 8.68

B18827
8.68 d 2 r 8.88 8.68 = 8.78 .10 .10
8.68 r 4 e 9.08

A. 1968
9.53 r 0 f 9.53 9.55 = 9.54 .01 .01
9.55 r 3 g 9.85

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1898phae.proj..710B

May 13, 1898

Measures Triang. Ausb. (cont.)

B18949

8.36 c3r 8.66 8.68 8.98 = 8.77 .11 .09 .21

8.68 r0d 8.68

8.98 r1e 9.08

B19056

8.36 c2r 8.56 8.68 8.78 = 8.67 .11 .01 .11

8.68 r0d 8.68

8.78 r3e 9.08

B19190

8.68 d1r 8.78 8.78 = 8.78 .00 .00

8.78 r3e 9.08

B20117

9.08 e1r 9.18 9.33 = 9.26 .08 .07

9.38 r2f 9.53

B19287

9.08 e4r 9.48 9.23 = 9.20 .02 .03

9.23 r3f 9.53

B20269 Lp.

9.08 e3r 9.38 9.53 9.65 = 9.52 .14 .01 .14

9.53 r0f 9.53

9.65 r2g 9.86

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1898phae.proj...710B

May 13, 1898

Measures Triang. Quad. (cont'd.)

B 20278
8.68 d 3r 8.98 8.68 = 8.83 .15 .15
8.68 r 4e 9.08

B 19999
8.68 d 4r 9.08 8.88 = 8.98 .10 .10
8.88 r 2e 9.08

B 19680
8.36 c 2r 8.56 8.88 = 8.72 .16 .16
8.88 r 2 d 9.08
4 8.6

B 19432
8.36 c 3r 8.66 8.98 = 8.82 .16 .16
8.98 r 1d 9.08

B 8191 Sp.
9.08 e 2r 9.28 9.33 = 9.30 .02 .03
9.33 r 2 f 9.53

B 12906
9.85 q = .2
rms < 10.05

A 2666
9.08 e 2 r 9.28
Read comp stars w. comp. near edge.

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1898phae.proj..710B

May 19, 1898.

Measures. Nova Centauri r } contd.
Nebulæ " r' }

2h 0m B 11199.
b2r'
ril

I 14256
n1r'
ons.

C 8644
~~1 obs~~.
q=.2
rins

C 8643
q=.1
bins

C 8687
q=.2
rins

C 8686
q=.3
bins

C 8684
l=.1
r'ins

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1898phae.proj.710B

May 19, 1898

Measures Nova Centauri r } (cmb.)
Nebula " r' }

C 8631
f = .3
r' ns

C 8630
g = .3
r' ns

C 8624
g = .2
r' ns

C 8601
l = .2
r' ns

C 8586
l = .1
r' ns
r ns.

C 8585
l = .2
r' ns

C 8584
l = .1
r' ns.

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1898phae.proj..710B

May 19, 1898

Measures R R Leonis

$16^h 50.2^m - 30°25'$ (1900) C Dm $-30°$ 13626

Comp. Stars - B 5989

$2^h 30^m$

B11029

8.73 d 4 r 9.13 9.28 = 9.20 .07 .08

9.28 r 1 e 9.38

B11035

9.58 r 3 f 9.88

near edge.

e not on pl.

~~B~~ I 12429

8.21 c 2 r 8.41 8.63 = 8.52 .11 .11

8.63 r 1 d 8.73

I 12463

6.98a 3 r 7.38 7.56 = 7.42 .14 .14

7.56 r 1 b 7.66

B11285

Too near edge.

B11900

8.73 d 4 r 9.13 9.28 = 9.20 .07 .08

9.28 r 1 e 9.38

~~B 12886~~ 2

6.98 a 3 r 7.28 7.66 8.01 = 7.65 .37 .01 .36

7.66 r 0 b 7.66

8.01 r 2 d 8.21

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1898phae.proj.710B

May 19, 1898

Measures R R Scorpii (cont).

I 12611

6.98 a 2r 7.18 7.56 = 7.37 .19 .19
7.56 r 1b 7.66

B 12917

7.66 b 2r 7.86 8.11 = 7.98 .12 .13
8.11 r 1c 8.21

B 13161 lp.

7.66 b 3r 7.96 8.11 = 7.04 .08 .07
8.11 r 1c 8.21

B 13162 lp.

8.21 c 1r 8.31 8.33 = 8.32 .01 .01
8.33 r 4d 8.73

I 12781

8.21 c 2r 8.41 8.63 = 8.52 .11 .11
8.63 r 1d 8.73

B 13311

8.73 d 4r 9.13 9.08 = 9.10 .03 .02
9.08 r 3e 9.38

B 13312

8.73 d 4r 9.13 9.08 = 9.10 .03 .02
9.08 r 3e 9.38

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1898phae.proj..7408

May 19, 1898

Measures R.R Scorpii (cont.)

B13490

8.73 d5r 9.23 9.38 9.58 = 9.40 .17 .02 .18

9.38 r0e 9.38

9.58 r3f 9.88

B13532

9.38 e2r 9.58 9.78 = 9.68 .10 .10

9.78 r1f 9.88

near edge

B13740

9.88 f4r 10.28 10.20 = 10.24 .04 .04

10.20 r1g 10.30

B13867

10.65 h3r 10.95 10.93 = 10.94 .01 .01

10.93 r1h 11.03

B13987

10.65 h4r 11.05 11.05 11.05 = 11.04 .01 .01 .01

11.03 r0k 11.03

11.05 r3l 11.35

B13983

10.65 h3r 10.95 10.93 = 10.94 .01 .01

10.93 r1k 11.03

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

I 13042

10.65 h=.1

rus < 10.75

I 13070

10.65 h=.1

rus < 10.75

B 14542

11.75 m 2r 11.95 11.87 = 11.91 .04 .04

11.87 r 3m 12.17

I 13472

useless

I 14521

8.73 d 4r 9.13 9.38 9.58 = 9.36 .23 .02 .22

9.38 r 0 2 9.38

9.58 r 3 f 9.88

B 15373

9.88 f 3 r 10.18 10.20 = 10.19 .01 .01

10.20 r 1 g 10.30

B 15428

10.30 g 3 r 10.60 10.45 = 10.52 .08 .07

10.45 r 2 h 10.65

remedge

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1898phae.proj..710B

May 19, 1898

Measures RR Scorpii (cont.)

B15431

10.30 q 3r 10.60 10.45 = 10.52 .08 .07
10.45 r 2 h 10.65

I 14740

10.65 h 1 r 10.75 10.83 = 10.79 .04 .04
10.83 r 2 h 11.03

B15525

10.65 h 4 r 11.05 11.03 11.15 = 11.08 .03 .05 .07
11.03 r 0 h 11.03
11.15 r 2 l 11.35

B15528

10.65 h 4 r 11.05 10.93 = 10.99 .06 .06
10.93 r 1 h 11.03

I 14973-8

11.03 h 1 r 11.13 11.25 = 11.19 .06 .06
11.25 r 1 l 11.85

B15656

11.35 l 1 r 11.45 11.35 = 11.40 .05 .05
11.35 r 4 m 11.75

B17365

Broken too badly
to be minded.

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B15703

11.35 l 4 r 11.75 11.55 = 11.65 .10 .10

11.55 r 2 m 11.75

B15869

11.35 l 3 r 11.65 11.55 = 11.60 .05 .05

11.55 r 2 m 11.75

B15943

11.75 m 2 r 11.95 11.87 = 11.91 .04 .04

11.87 r 3 m 12.17

B15945

11.75 m 1 r 11.85 11.77 = 11.81 .04 .04

11.77 r 4 m 12.17

B15988

11.75 m 1 r 11.85 11.87 = 11.86 .01 .01

11.87 r 3 m 12.17

B16030

11.75 m 1 r 11.85 11.97 = 11.91 .06 .06

11.97 r 2 m 12.17

near edge

B16095

11.75 m 2 r 11.95 11.67 = 11.81 .14 .14

11.67 r 5 m 12.17

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B 16282
Too near edge

B 16393
12.17 m = .1
rms < 12.27

I B 15307
~~11.35~~ 11.65 l 4 r 11.75 11.65 = 11.70 .05 .05
~~m~~ 11.65 r 1 m 11.75

B 16442
11.03 l 4 r 11.43 11.25 = 11.34 .09 .09
11.25 r 1 l 11.35

B 16539
10.65 l 4 r 11.05 10.93 = 10.99 .06 .06
10.93 r 1 l 11.03

B 16615
10.65 l 3 r 10.95 10.83 = 10.89 .06 .06
10.83 r 2 l 11.03

B 16638
10.65 l 3 r 10.95 10.83 = 10.89 .06 .06
10.83 r 2 l 11.03

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B16780

10.30 g5r 10.80 10.65 10.63 = 10.69 .11 .04 .06
10.65 r6b 10.65
10.63 r4b 11.03

I 15474

9.88 f3r 10.18 10.10 = 10.14 .04 .04
10.10 r2g 10.30

B16981

9.88 f2r 10.08 10.10 = 10.09 .01 .01
10.10 r2g 10.30
Near edge

B17036 Sh.

8.73 d4r 9.13 9.18 = 9.16 .03 .02
9.18 r2b 9.38

B17076

8.73 d3r 9.03 9.18 = 9.10 .07 .08
9.18 r2b 9.38

B17233

7.66 b3r 7.96 8.11 = 8.04 .08 .07
8.11 r1c 8.21

B17433

6.98 a4r 7.38 7.46 = 7.42 .04 .04
7.46 r2b 7.66

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B17503

6.98 a2r 7.18 7.46 = 7.32 .14 .14
7.46 r2b 7.66

B17505

6.98 a3r 7.28 7.56 = 7.42 .14 .14
7.56 r1b 7.66

B17723

7.66 b4r 8.06 8.11 = 8.08 .02 .03
8.11 r1c 8.21

B18489

11.35 b2r 11.55 11.55 = 11.55 .00 .00
11.55 r2m 11.75

I17432

10.65 b = .1
r m0 < 10.75

B18592

11.75 m2r 11.95 11.77 = 11.86 .09 .09
11.77 r4m 12.17

I17508

11.75 m4r 12.25 11.97 = 12.11 .14 .14
11.97 r2m 12.17

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1898phae.proj..710B

May 19, 1898

Measures R. R. Scorpii (cmb.)

I 17643
useless

B 18713
10.65 h 4r 11.05 11.03 11.05 = 11.04 .01 .01 .01
11.03 r 0 h 11.03
11.05 r 3 h 11.35

B 18722
10.65 h 5r 11.15 11.03 11.05 = 11.08 .07 .05 .03
11.03 r 0 h 11.03
11.05 r 3 h 11.35

B 18771
10.65 h 3r 10.95 10.83 = 10.89 .06 .06
10.83 r 2 h 11.03

I 17852
10.65 h 1r 10.75 10.93 = 10.84 .09 .09
10.93 r 1 h 11.03
Poor plate.

B 18919
10.30 g 4r 10.70 10.35 = 10.52 .18 .17
10.35 r 3 h 10.65

B 19062
8.73 d 3r 9.03 9.28 = 9.16 .13 .12
9.28 r 1 h 9.38

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B19080
9.38 r 5 f 9.88
near edge
Blod. & not on plate.

I18123
8.73 d 2 r 8.93 9.18 = 9.06 .13 .12
9.18 r 2 e 9.38
Poor plate

B19162
8.73 d 3 r 9.03 9.08 = 9.06 -.03 .02
9.08 r 3 e 9.38

B19195
8.21 c 4 r 8.61 8.73 9.08 = 8.81 .20 .08 .27
8.73 r o d 8.73
9.08 r 3 e 9.38

B19198
8.21 c 2 r 8.41 8.73 8.98 = 8.71 .30 .02 .27
8.73 r o d 8.73
8.98 r 4 e 9.38

B19442
7.66 b 1 r 7.76 7.91 = 7.84 .08 .07
7.91 r 3 c 8.21

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B19439
7.66 b2r 7.86 8.01 = 7.94 .08 .07
8.01 r2c 8.21

B19481
8.73 d5r 9.23 9.18 = 9.20 .03 .02
9.18 r2e 9.38

B19506
d2r 8.21 c3r 8.51 8.63 = 8.57 .06 .06
d4r 8.63 r1d 8.76

B19684
6.98 a3r 7.38 7.46 = 7.37 .09 .09
7.46 r2 b 7.66

B19718
6.98 a4r 7.38 7.66 7.91 = 7.65 .27 .01 .26
7.66 r0b 7.66
7.91 r3c 8.21

B19725
8.21 c2r 8.41 8.46 = 8.44 .03 .02
8.46 r3d 8.76
nan edge

I18315
6.98 a4r 7.38 7.66 7.91 = 7.65 .27 .01 .26
7.66 r0b 7.66
7.91 r3c 8.21

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1898phae.proj..710B

May 19, 1898

Measures R R Scorpii (cont.)

B19841

7.66 b2 r 7.86 7.91 = 7.88 .02 .03
7.91 r3c 8.21

I18343

7.66 b1r 7.76 8.01 = 7.88 .12 .13
8.01 r2c 8.21
? Trail plate

B20284

8.73 d4r 9.13 9.38 9.48 = 9.33 .20 .05 .15
9.38 r0e 9.38
9.48 r4f 9.88
near edge

B20446

8.73 d3r 9.03 9.18 = 9.10 .07 .08
9.18 r2e 9.38

B20475

9.88 f2r 10.08 10.10 = 10.09 .01 .01
10.10 r2g 10.30

I20990

8.73 d 3r 9.03 9.18 = 9.10 .07 .08
9.18 r2e 9.38

I20242

9.88 f2r 10.08 10.10 = 10.09 .01 .09
10.10 r2g 10.30

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1898phae.proj..710B

May 26, 1898

Measures α Centauri (cont.) fr. fr. 64)

2h 0m B18810

11.24 h 2 r 11.44 11.56 11.58 = 11.53 .09 .03 .05
11.56 r 0 h 11.56
11.58 r 3 h 11.88

B. ~~16599~~ 15612 bf.
10.50 f = .1
rms < 10.60

B20038
Does not concur.

B18794 bf.
10.50 f = .1
rms. < 10.60

B11408
11.24 h = .1
rms < 11.34

B19268
12.16 m 4 r 12.56

B19474
12.16 m 3 r 12.46

B15423
11.88 h = .2 12.08
rms < 12.08

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1898phae.proj..710B

May 26, 1898

Measures N. Centauri (cont.)

B 15354

11.56 ls 4r 11.96 11.88 = 11.92 .04 .04
11.88 r ol 11.88
m ns

B 15368

11.88 l 2r 12.08 12.06 = 12.07 .01 .01
12.06 r 1m 12.16

B 19069

12.16 m 1r 12.26

B 15520

11.56 ls 4r 11.96 11.88 11.96 = 11.93 .08 .05 .03
11.88 r ol 11.88
11.96 r 2m 12.16

B 15506

11.88 l 1r 11.98 12.16 = 12.07 .09 .09
12.16 r om 12.16

A 2360

11.56 ls .4
l ns. <
r ns. < 11.96

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1898phae.proj..710B

May - 26, 1898

2h 30m Measures Nova Centauri (cmb.) fr. p. 110

C 8706
m = .1
rms

C 8971
l = .1
rms

C 8925
h = .1
rms

C 8926
l = .1
rms

C 8928
m = .1
rms

B 15385
p = .1
rms

B 15404
q t. W
~~rms~~

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1898phae.proj..710B

May 26, 1898

Measures Alpha Centauri (cont.)

B 15683
m = .1
rno

B 15728
l = .1
rno

B 15853
p = .2
rno

B 15884
q = .3
rno

B 19067
q = .3
rno

B 20037
p = .1
rno

B 20044
q = .1
rno

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1898phae.proj.710B

May 26, 1898

Measures Nova Centauri (cmb.)

B 19186
q = .1
rms

B 19428
q = .3
rms

B 19675
q = .1
rms

B 18913
w = .1
rms

B 18832
q = .4
rms

B 18782
q = .2
rms

B 17112
q = .1
rms

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1898phae.proj..710B

May 26, 1898

Measures of α Centauri (contd.)

B17196
p = .2
rus

B17312
m = .1
rus

B17324
g = .1
rus

B18350
Too confused trail plate -

B18549
g = .3
rus

B18577
g = .3
rus

B18659
g = .1
rus

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1898phae.proj.710B

May 26, 1898

Measures Nova Centauri (cont.)

B 18679
q = .2
rms

B 16934
q = .3
rms

B 16935
q = .1
rms

B 16712
q = .1
rms

B 16675
l = .1
rms

B 16613
l = .1
rms

B 16602
n = .2
rms

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1898phae.proj..710B

Measures Nova Centauri (cont.)

B 16403
m = .1
rns

B 16404
g = .3
rns

B 15914
l = .2
rns

B 15978
g = .4
rns

B 16060
g = .2
rns

B 16061
m = .1
rns

B 16086
l = .1
rns

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1898phae.proj.710B

May 26, 1898

Measures Nova Centauri (cont.)

I 18017
0 = .1
rms

I 14943
m = .1
rms

I 15052
m = .1
rms

I 17068
0 = .1
rms

I 17469
p = .1
rms

I 17541
b = .1
rms

I 14626
q = .1
rms

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1898phae.proj..710B

May 26, 1898

Measures of 20 Tauri (cont.)

I 14627
g =.1
rno

I 14659
o =.1
rno

I 14660
o =.1
rno

I 14669
g =.1
rno

I 14670
g =.1
rno

I 14682
o =.1
rno

I 14057
m =.1
rno

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1898phae.proj.710B

May 26, 1898

Measures Nova Centauri (cont'd)

I 14552
0 = .1
rms

I 14595
g = .1
rms

I 14596
g = .1
rms

I 14489
l = .1
rms

I 14490
m = .1
rms

I 14507
m = .1
rms

I 14508
f = .1
rms

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1898phae.proj..710B

measures Nova Tauri (cont.)

I 14509
m=.1
mo

I 14342
h=.2
mo

I 14343
h=.2
mo

I 14450
g=.1
mo

I 14457
g=.1
mo

I 14467
p=.1
mo

I 14469
m=.1
mo

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1898phae.proj.710B

May 26, 1898

Measures Nova Centauri (cont'd)

I 14475
p=.1
mo

I 14476
p=.2
mo

I 14076
l=.1
mo

B 5981
p=.1
mo

I 3677
Tr pm

B 15295
pvlr
r3q

B 15270
m3r
r1m

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1898phae.proj..7106

May 26, 1898

Measures Nova Centauri (cont.)

B 14072
a 4 r
r 2 b

B 16104
g = .3
r m

B 16123
b = .1
r m

May 28, 1898

22h 0m

B 13965
a 3 r
r 0 b
r 3 c

B 15265
Does not coincide

X 7370
g 4 r

X 7408
g = .1
r m

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1898phae.proj..710B

May 28, 1898

Measures Nova Centauri (cont.).

X 7409
g 4 r

A 2494
g = .4
one

A 1810
g 6 r

A 1873
g 10 r

A 2519
g too bright to estimate

A 1888
g 10 r.

new comparison stars have to be added

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1998phae.proj..710B

May 28, 1898

Measures Scorpii - CDm -35° 11829

17h 34m 10s - 35° 10'

Comp Stars B 13501

23h 0m

~~B 18921~~ A. 1876

11.23 h 3r 11.53 11.45 = 11.49 .04 .04

11.45 r 1 h 11.55

B3842

Tos near edge

B5952

Tos near edge

B6489

Tos near edge

B9164

Tos near edge

B9546 Sp.

10.63 f = .1

ms < 10.73

B 6638 Sp.

Broken in region

B 15824

10.63 f = .1

ms < 10.73

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1898phae.proj..710B

May 28, 1898

Mecasures CD-M-35 11829 (cont.)

B16037

11.23 h1r 11.33 11.35 = 11.34 .01 .01

11.35 r2h2 11.55

B16448

11.55 h2r 11.75 11.77 = 11.76 .01 .01

11.77 r1l 11.87

B16518

11.55 h2r 11.75 11.87 11.95 = 11.86 .11 .01 .09

11.87 r0l 11.87

11.95 r2m 12.15

B16748 dfr.

10.93 g=.2

m0 < 11.13

B17120

11.55 h2r 11.75 11.77 = 11.76 .01 .01

11.77 r1l 11.87

B17327

11.55 h2r 11.75 11.87 11.85 = 11.82 .07 .05 .03

11.87 r0l 11.87

11.85 r3m 12.75

B17443

10.63 f=.1

m0 < 10.73

Trifle.

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1898phae.proj..710B

May 28, 1898

Measures 62 m – 35° 11829 (cont.)

B17444

11.55 b 2 r 11.75 11.87 11.95 = 11.86 .11 .01 .09

11.87 r o l 11.87

11.95 r 2 m 12.15

B17534

11.55 b 2 r 11.75 11.87 11.85 = 11.82 .07 .05 .03

11.87 r o l 11.87

11.85 r 3 m 12.15

B18492

11.87 l 2 r 12.07 12.05 = 12.06 .01 .01

12.05 r 1 m 12.15

B18724

11.55 b 3 r 11.85 11.77 = 11.81 .04 .04

11.77 r 1 l 11.87

B19082

11.87 l 1 r 11.97 11.95 = 11.96 .01 .01

11.95 r 2 m 12.15

B19113

10.93 9 3 r 11.23 11.23 11.35 = 11.27 .04 .04 .08

11.23 r o b 11.23

11.35 r 2 b 11.55

A

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1898phae.proj..710B

May 26, 1898

Measures of Dm −35° 11829 (cont.)

B 18921

11.23 lv 3 r 11.53 11.55 11.67 = 11.58 .05 .03 .09

11.55 r o lv 11.55

11.67 r 2 l 11.87

B 19170

10.63 f 1 r 10.73 10.83 = 10.78 .05 .05

10.83 r 1 f 10.93

? image of r. defective

B 19217

11.55 lv 1 r 11.65 11.67 = 11.66 .01 .01

11.67 r 2 l 11.87

B 19719

11.23 lv 3 r 11.53 11.55 11.57 = 11.55 .02 .00 .02

11.55 r o lv 11.55

11.57 r 3 l 11.87

B 20081 Sp.

10.63 f = .1

Dms < 10.73'

B 19771

10.93 g 3 r 11.23 11.23 11.35 = 11.27 .04 .04 .08

11.23 r o l 11.23

11.35 r 2 l 11.55

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1898phae.proj..710B

May 28, 1898

Measures 60 m - 35°11829 (cont)

B20123 Gp.
9.51 C=.1
rno < 9.61

B20285
10.93 g 2r 11.13 11.23 11.35 = 11.24 .11 .01 .11
11.23 r0h 11.23
11.35 r2h 11.55

B20465
10.93 g 1r 11.03 11.03 = 11.03 .00 .00
11.03 r2h 11.23

B20487
11.23 h 2r 11.43 11.55 11.57 = 11.52 .09 .03 .05
11.55 r0h 11.55
11.57 r3h 11.87

B20502
10.63 f 1r 10.73 10.93 10.93 = 10.86 .13 .07 .07
10.93 r0g 10.93
10.93 r3h 11.23
? Image of r diffuse

B20509 Gp.
10.63 f=.1
rno < 10.73

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1898phae.proj..710B

May 28, 1898

Measures RV Scorpii

$17^h 35^m - 43° 42'$

Comp.-Stars B5394

$23^h 30^m$

B13790 Sp.

10.94 h = .1

rms < 11.04

B13062 Sp.

10.41 g = .1

rms < 10.51

B13004

12.64 m 1 r 12.74 12.94 = 12.84 .10 .10

12.94 r 2 0 13.14

B13089 Sp.

9.42 e = .1

rms < 9.52

B13353

12.64 m = .1

rms < 12.74

B13451 Sp.

10.41 g = .1

rms < 10.51

B13502

12.64 m 3 r 12.94 13.04 = 12.99 .05 .05

13.04 r 1 0 13.14

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1898phae.proj..710B

May 28, 1898

Measures R U Scupii (cont.)

B13521

12.64 m 2r 12.84 13.14 = 12.99 .15 .15

13.14 r o o 13.14

Hardge

B13570

12.22 m = .1

r w o < 12.32

B13575

12.64 m 3r 12.94 13.14 = 13.04 .10 .10

13.14 r o o 13.14

B13750

12.22 m = .1

r w o < 12.32

B13972

12.22 m 3r 12.52 12.44 = 12.48 .04 .04

12.44 r 2 m 12.64

B13994

12.22 m = .1

r w o < 12.32

B14040

11.87 l = .1

r w o < 11.97

Hardge

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1898phae.proj..710B

May 28, 1898

Measures R V Scorpii (cmb.)

B14134 bp.

11.87 l = .1

rms < 11.97

B14292

10.94 h 4 r 11.34 11.42 = 11.38 .04 .04

11.42 r 1 h 11.52

B14546

10.41 g 4 r 10.51 10.84 = 10.68 .17 .16

10.84 r 1 h 10.94

14582 bp.

10.41 g = .1

rms < 10.51

B14851

9.42 l 4 r 9.82 9.69 = 9.76 .06 .07

9.69 r 2 f 9.89

B15998

12.64 w = .1

rms < 12.74

B15141

9.42 l 2 r 9.62 9.69 = 9.66 .04 .08

9.69 r 2 f 9.89

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1898phae.proj..710B

May 28, 1898

Measures R V Scorpii (cont.)

B15435

12.22 m3v 12.52 12.44 = 12.48 .04 .04

12.44 v2 m 12.64

B15529

12.22 m4v 12.62 12.54 = 12.58 .04 .04

12.54 v1 m 12.64.

B15704

12.64 m2v 12.84 13.14 = 12.99 .15 .15

13.14 v0 r 13.14

B15825

12.22 m = .1

rms < 12.32

B16082

11.87 l = .2

rms < 12.07

B16097

13.14 0 1v 13.24

B16364

11.87 l = .1

rms < 11.97

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1898phae.proj..710B

May 28, 1898

Measures R U Lacertæ (cont.)

B 16449

12.22 m = .1

rms < 12.32

B 16451

12.64 m 3 r 12.94 13.14 = 13.04 .10 .10

13.14 r 0 v 13.14

B 16637

11.87 l = .1

rms < 11.97

near edge

B 16654

12.64 m 1 r 12.74

0 rms

B 16894

12.32 m 4 r 12.72 12.44 = 12.58 .14 .14

12.44 r 2 m 12.64

A 20255 ℓ.

10.41 g = .1

rms < 10.51

A 1926

12.32 m 3 r 12.62 12.44 = 12.53 .09 .09

12.44 r 2 m 12.64

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1898phae.proj..710B

May 28, 1898

Measures RU Scorpii (cont.)

B 17078

10.94 h 5 v 11.44 11.32 = 11.38 .06 .06

11.32 v 2 h 11.52

B 17084 8p.

10.94 h = .2

v no < 11.14

B 17085 8p.

10.94 h 2 v 11.14

h's not distinguished

B 17259

10.94 h 3 v 11.24 11.32 = 11.28 .04 .04

11.32 v 2 h 11.52

B 17366

10.94 h 2 v 11.14

h's no

near edge

B 17432

9.89 f 2 v 10.19 10.41 10.64 = 10.41 .22 .00 .23

10.41 v 0 g 10.41

10.64 v 3 h 10.94

B 17445

10.41 g 2 v 10.61 10.74 = 10.68 .07 .06

10.74 v 2 h 10.94

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1898phae.proj..710B

May 28, 1898

Measures R U Lacertae (cont.)

B 17535

10.41 g 4r 10.81 10.74 = 10.78 .03 .04

10.74 r 2h 10.94

B 18606

11.52 h, 2r 11.72 11.87 12.12 = 11.90 .18 .03 .22

11.87 r 0h 11.87

12.12 r 1m 12.22

B 18725

12.22 m 3r 12.52 12.44 = 12.48 .04 .04

12.44 r 2m 12.64

B 18922

12.64 m 1r 12.74 12.94 = 12.84 .10 .10

12.94 r 2 0 13.14

B 19083

12.64 m 3r 12.94 13.04 = 12.99 .05 .05

13.04 r 1 0 13.14

B 19112

12.64 m = .2

rms < 12.84

B 19119

12.22 m = .1

rms < 12.32

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1898phae.proj..710B

May 28, 1898

Measures R V Scorpii (cont.)

B19218
12.64 m = .2
vis < 12.84

B19414
11.87 l = .1
vis < 11.97

B19445
12.64 m = .2
vis < 12.84

B19483
13.14 0 = .1
vis < 13.24

B19720
13.14 0 1 r 13.24

B19927 bf.
10.41 g = .1
vis < 10.51

38
B19927 bf.
10.94 h = .1
vis < 11.04

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1898phae.proj..710B

May 28, 1898

Measures R V Scorpii (cont.)

B 20286

10.94 h 4 r 11.34 11.32 = 11.33 .01 -.01
11.32 r 2 h 11.52

B 20425

10.94 h 5 r 11.44 11.22 = 11.33 .11 .11
11.22 r 3 h 11.52

B 20447

10.94 h 2 r 11.14
bins
nearedge

B 20356

10.94 h 4 r 11.34 11.22 = 11.28 .06 .06
11.22 r 3 h 11.52

A 2679

12.22 m 2 r 12.42 12.24 = 12.33 .09 .09
12.24 r 4 m 12.64

~~A 2672~~

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1898phae.proj..710B

May 28, 1898.

Measures RW Scorpii.

17h 8.3m − 33° 19' (1900)

Comp. Stars B 8728

0h 30m

B 15656

10.67 f = .1

rms < 10.77

B 18921

Does not come

B 19771

11.15 g = .2

rms < 11.35

very near edge

B 12429

10.07 e = .1

rms < 10.17

I 12455

11.93 ls = .1

rms < 12.03

I 12611

10.07 e = .1

rms < 10.17

I 12612

9.55 d = .1

rms < 9.65

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1898phae.proj..710B

May 28, 1898

Measures R W Scorpii (cont.)

I 12672
10.67 f = .1
rms < 10.77

I 12782
10.67 f = .1
rms < 10.77

I 12781
10.67 f = .1
rms < 10.77

I 13042
10.07 e = .1
rms < 10.17

I 13070
9.55 d = .2
rms < 9.75

B 14368 Sp.
10.67 f = .1
rms < 10.77

B 14543
11.93 h = .1
rms < 12.03

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1898phae.proj..710B

May 28, 1898

Measures R W Sco psi (unb.)

B14542
11.57 b 2r 11.77 11.73 = 11.75 .02 .02
11.73 r 2 b 11.93
near edge

13472
useless

B14739
12.25 b 1 r 12.35 12.59 = 12.47 .12 .12
12.59 r 1 m 12.69

I 14521
11.93 b = .1
m < 12.03

B15372
12.69 m = .1
m < 12.79

B15428
12.69 m = .1
m < 12.79

B15431
10.67 f = .1
m < 10.77

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1898phae.proj..710B

May 28, 1898

Measures R W Scorpii (cont.)

I 14740
10.67 f = .1
rms < 10.77

B 15526
12.69 m = .1
rms < 12.79

B 15528
12.69 m = .1
rms < 12.79

B 15525
10.07 e = .1
rms < 10.17

B 15589
11.15 g = .1
rms < 11.25

B 15588
12.25 h = .1
rms < 12.35

B 15607
11.57 h = .1
rms < 11.67

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1898phae.proj..710B

May 28, 1898

Nebulæ near R Scorpii (cont.)

I 14978
11.57 h = .1
nno < 11.67

B 15632
12.69 m = .2
nno < 12.89

B 15686
13.11 m = .1
nno < 13.21

B 15687
13.11 m 2 r 13.31
o nno

B 15703
10.67 f = .1
nno < 10.77
near edge

B 15869
11.57 h = .1
nno < 11.67

B 15893
12.69 m = .1 < 12.79
nno

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1898phae.proj..710B

May 28, 1898.

Measures R W Scorpii (cont.)

B15944

13.11 w 2 r 13.31

0 ns

B15943

11.57 h = .1

ns < 11.67

nearedge

B15824

11.57 h = .1

ns < 11.67

nearedge

B15945 13.79 58 .17 .04 .21

13.11 w 3 r 13.41 13.54 = 13.48 .07 .06

13.54 r 0 0 13.54

13.79 r 1 p 13.89

B15988

11.57 h = .1

ns < 11.67

B16031

12.25 l 2 r 12.45 12.59 = 12.52 .07 .07

12.59 r 1 w 12.69

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Measures R W Scorpii (cont.)

B16071

12.25 l 3 r 12.55 12.49 = 12.52 .03 .03

12.49 r 2 m 12.69

B16095

10.07 l = .1

rns < 10.17

near edge

B16096

13.25 l 1 r 12.35 12.59 = 12.47 .12 .12

12.59 r 1 m 12.69

B16229

11.93 l 2 1 r 12.03

l ns

B16393

9.55 d = .2

rns < 9.75

B16394

11.57 l 2 r 11.77 11.83 = 11.80 .03 .03

11.83 r 1 l 2 11.93

B16409

11.57 l 2 r 11.77 11.73 = 11.75 .02 .02

11.73 r 2 l 2 11.93

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Measures R W Scorpii (cont.)

B16498

11.15 q 3r 11.45 11.47 = 11.46 .01 .01

11.47 r 1h 11.57

B16539

11.15 q 3r 11.45 11.47 = 11.46 .01 .01

11.47 r 1h 11.57

B16615

10.07 l = .1

rms < 10.17

near edge

B16448

12.25 l = .1

rms < 12.35

near edge

B16617

11.15 q 4r 11.55 11.47 = 11.51 .04 .04

11.47 r 1h 11.57

B16779

11.15 q 4r 11.55 11.37 = 11.46 .09 .09

11.37 r 2h 11.57

B16780

11.15 q 5r 11.65 11.57 11.53 = 11.58 .07 .01 .05

11.57 r 0h 11.57

11.53 r 4h 11.93

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Measures R Nr S corpii (cont.)

B16879

10.67 f=.1

rms <10.77

B16881

11.15 g4r 11.55 11.47 = 11.51 .04 .04

11.47 r1h 11.57

B16981

11.57 h3r 11.87 11.93 = 11.90 .03 .03

11.93 r0h3 11.93

B17077

11.57 h3r 11.87 11.93 12.05 = 11.95 .08 .02 .10

11.93 r0h3 11.93

12.05 r2h 12.25

B17087

11.57 h4r 11.97 11.93 11.95 = 11.95 .02 .02 .00

11.93 r0h3 11.93

11.95 r3h 12.25

B16748

11.15 g=.1

rms <11.25

B17178

11.57 h3r 11.87 11.93 12.05 = 11.95 .08 .02 .10

11.93 r0h3 11.93

12.25 r2h 12.25

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Measures R Nr Scorpii (cont.)

B17233

12.25 l = .1

rms < 12.37

B17234

11.57 l 3 r 11.87 11.93 12.05 = 11.95 .08 .02 .10

11.93 r o l 11.93

12.05 r 2 l 12.25

B17236

11.57 l 4 r 11.97 11.93 12.15 = 12.02 .05 .08 .13

11.93 r o l 11.93

12.15 r 1 l 12.25

B17433

12.25 l 2 r 12.45 12.59 = 12.52 .07 .07

12.59 r 1 m 12.69

B17503

11.57 l = .1

rms < 11.67

B17505

12.69 m 3 r 12.99 13.01 = 13.00 .01 .01

13.01 r 1 n 13.11

B17713

13.11 n 2 r 13.31 13.54 = 13.42 .11 .12

13.54 r o o 13.54

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Measures R W Sculpii (cont.)

B17723
11.15 g =.1
rns < 11.25

B18492
12.11 i =.2
rns < 13.31

B19170
12.25 k =.2
rns < 12.45

B20489
11.93 k =.1
rns < 12.03
near edge

B20509 4p.
too near edge

I20242
10.67 f =.1
rns < 10.77

I20390
10.67 f =.1
rns < 10.77

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Measures R W Scorpii (cont.)

B 18438

13.11 m2r 13.31 / 13.44 = 13.38 .07 .06

13.44 r10 13.54

B 18489

11.93 ls = .1

rns < 12.03

I 17432

9.05 c = .1

rns < 9.15

B 18592

13.11 m3r 13.41

0 ns

I 17643

hazeless

~~c = .2~~

B 18713

10.07 c = .2

rns < 10.27

B 18712

11.93 ls = .1

rns < 12.03

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Measures R N Sculpii (cont.)

B18722

12.69 m 2 r 12.89 12.91 = 12.90 .01 .01
12.91 r 2 m 13.11

B18771

11.15 q = .1
m v < 11.25

B18773

12.25 l = .1
m v < 12.35

I17852

10.67 f = .1
m v < 10.77

B18882

12.25 l = .1
m v < 12.35

B18919

13.11 m 3 r 13.41 13.54 13.69 = 13.55 .14 .01 .14
13.54 r o o 13.54
13.69 r 2 f 13.89

B18917

13.11 w = .1
m v < 13.21

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Measures R W Scorpii (cont.)

B19063
12.25 l = .1
rms < 12.35

B19062
11.57 l = .1
rms < 11.67

B19080
13.11 m2r 13.31 13.34 = 13.33 .02 .01
13.34 r20 13.54

B18123
9.55 d = .1
rms < 9.65

B19162
12.25 l = .1
rms < 12.35

B19198
13.54 0 = .1
rms < 13.64

B19195
11.57 l = .1
rms < 11.67

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1998phae.proj..710B

May 28, 1898.

Measures R. N. Scorpii (cont.)

B19196

12.25 l = .1

nn < 12.35

B19415

13.54 0 1 r 13.64 13.79 = 13.72 .08 .07

13.79 r 1 p 13.89

B19442

13.54 0 1 r 13.64

p nn

B19439

12.25 l = .1

nn < 12.35

B19440

13.11 n 3 r 13.41 13.54 = 13.47 .06 .07

13.54 r 0 0 13.54

p nn

B19482

13.11 n 1 r 13.21

0 nn

B19506

13.11 n = .1

nn < 13.21

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Measures R W Scorpii (cont.)

B19684

11.57 h = .1

rms < 11.67

B19686

11.57 h 3r 11.87 11.83 = 11.85 . 02 . 02

11.83 r 1h 11.93

B19718

11.57 h 1r 11.67 11.63 = 11.65 . 02 . 02

11.63 r 3h 11.93

B19726

11.15 q 5r 11.65 11.63 11.57 = 11.62 . 03 . 05 . 01

11.57 r 0h 11.57

11.63 r 3h 11.93

B20089

11.15 q 4r 11.55 11.47 = 11.51 . 04 . 04

11.47 r 1h 11.67

I 18315

11.15 q = .1

rms < 11.25

I 18343

9.05 c = .1

rms < 9.15

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Measures R. H. Sinpii (cont.)

B 20153 Sp.
Trapezium

B 20281
11.93 bs =.1
rms <12.03

B 20284
11.57 b3r 11.87 11.93 12.05 = 12.95 .08 .02 .10
11.93 r0bs 11.93
12.05 r2b 12.25

B 20282
11.57 b3r 011.87 11.93 12.05 = 12.95 .08 .02 .10
11.93 r0bs 11.93
12.05 r2b 12.25

B 20446
11.57 b3r 11.87 11.87 11.95 = 11.92 .05 .01 .03
11.93 r0bs 11.93
11.95 r3b 12.25

B 20486
11.57 b=.1
rms < 11.67

A 2672
11.57 b2r 11.77 11.63 = 11.70 .07 .07
11.63 r3b 11.93

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