

KG

11365

600

KG 11365.600



KG-11365.600



Mar. 4, 1910 (Friday)

Hally's Comet (Phot. Meas. of light of nucleus).

0 41 +6.8
6 11 W. Obs. Four Per. Phot. T
5 30 Comp. Star + 7° 75 (A.A.)

Index L + A B.

351.6 Comp. Star Dis

72.0 20.4^v

185.7

249.7 $\frac{64.2^v}{144.6^v} + 0.62^v$

5.4

63.0^v

+0.56^v

68.4

168.5

261.8 $\frac{93.3^v}{156.3^v} + 0.45^v$

Index R + B A.

258.4

351.0 92.6^v

91.0

155.0 $\frac{64.0^v}{156.6^v} + 0.45^v$

270.4

Mean +0.50^v

340.5

74.0

173.0

7 32 10

56 50.5^v

7 28 25.5^v

+5 +1 0.5^v

12 29 25.5^v

2735.5 204^v

Mar. 4, 1910.

The preceding measurement of Halley's comet is only to be regarded as approximate. Even at the first, and more especially as the observations progressed, observer was continually tempted to stop measurements. The region was very low, sky murky, comet poorly seen, and settings very difficult and more or less uncertain. The last set was of no value at all and was rejected. The field progressively became considerably brighter and on examination it was found that the telescope was probably pointing into the illuminated belfry of the building beyond the Catholic church, the comet being almost wholly invisible.

The measurements were made only in a tentative way from the first and are to be rejected. The measurements, last night were considered excellent.

4

Mar 4, 1910

R X Cassiope

2	17
7	37
5	20

+66.8

W. Obs. Power Res Phot T

9.5 in cap used

Index. L+A B.

1.0

← Comp Star Str

72.6 71.6^v

190.4

240.3 $\frac{49.9^v}{121.5^v} + 1.16^v$

11.0

63.4

72.4^v+1.10^v

177.0

252.0 $\frac{75.0^v}{127.4^v} + 1.03^v$

Index R+B A.

268.1

342.9 74.2^v

101.0

151.0 $\frac{50.0^v}{124.2^v} + 1.09^v$

278.9

333.8

74.9^v+0.90^v

85.8

165.6 $\frac{79.2^v}{134.7^v} + 0.88^v$ mean +1.04^v

8 42 35

20 20^v2 40 10^v+5 +1 0^v13 41 10^v2735.5 702^v

Mar. 4, 1910.

Same Again. II
Index R+B A.

8 44 25.

$$\begin{array}{r}
 265.6 \\
 344.6 \\
 100.0 \\
 152.3 \\
 \hline
 \end{array}
 \begin{array}{r}
 79.0^{\vee} \\
 \sqrt{2.3}^{\vee} \\
 131.3^{\vee} + 0.95^{\vee}
 \end{array}$$

$$\begin{array}{r}
 281.0 \\
 331.0 \\
 85.5 \\
 165.1 \\
 \hline
 \end{array}
 \begin{array}{r}
 \sqrt{0.0}^{\vee} \\
 79.6^{\vee} \\
 129.6^{\vee} + 0.99^{\vee}
 \end{array}
 \quad +0.97^{\vee}$$

Index L+A. B.

$$\begin{array}{r}
 176.9 \\
 253.5 \\
 9.9 \\
 58.0 \\
 \hline
 \end{array}
 \begin{array}{r}
 76.6^{\vee} \\
 42.1^{\vee} \\
 124.7^{\vee} + 1.09^{\vee}
 \end{array}$$

$$\begin{array}{r}
 191.6 \\
 240.6 \\
 358.1 \\
 72.9 \\
 \hline
 \end{array}
 \begin{array}{r}
 49.0^{\vee} \\
 74.0^{\vee} \\
 123.0^{\vee} + 1.11^{\vee}
 \end{array}
 \quad +1.10^{\vee}$$

$$\begin{array}{r}
 8 \quad 50 \quad 0 \\
 \hline
 94 \quad 25^{\vee} \\
 2 \quad 47 \quad 12^{\vee} \\
 +5 \quad +1 \quad 0.
 \end{array}$$

13 42 12. P.A. 32.2 Vernier B

$$2735.5751^{\vee}$$

$$\begin{array}{l}
 \text{mean } +1.04^{\vee} \\
 \text{Gen. } \quad \quad +1.04^{\vee}
 \end{array}$$

Mar. 4, 1910

R. 26 Monocerotis.

$$\begin{array}{r} 6 \quad 42 \\ 8 \quad 12 \\ \hline 1 \quad 30 \end{array}$$

-7.6

I

Index R + a d.

4.2 ← Comp Star Dis

66.5 62.3^v

189.2

$$\begin{array}{r} 238.9 \quad 49.7^v \\ \hline 112.0^v \end{array}$$

+1.37^v

11.0

44.2^v+1.40^v

59.2

185.5

$$\begin{array}{r} 60.7^v \\ \hline 102.9^v \end{array}$$

+1.44

Index L + B. B.

268.4

342.4

74.0^v

97.5

$$\begin{array}{r} 153.5 \quad 56.0^v \\ \hline 130.0^v \end{array}$$

+0.92^v

279.5

331.4

51.9^v+1.04^v

88.6

161.4

$$\begin{array}{r} 72.2^v \\ \hline 124.7^v \end{array}$$

+1.09^vMean +1.22^v

9 27 35

95 35^v9 23 54^v+5 +1 0^v14 24 54^v2735.6006^v

Mar. 4, 1910.

Same Again. II
Index Lt B. B.

9 31 30

270.4

341.3

70.9^v

99.7

$$150.5 \frac{50.2^v}{121.7^v} + 1.16^v$$

9 33 25

278.2

330.6

52.4^v+1.15^v

90.7

$$160.8 \frac{70.1^v}{122.5^v} + 1.14^v$$

Index Rta. A.

9 36 8

180.8

248.0

67.2^v

12.5

$$59.0 \frac{46.5^v}{113.7^v} + 1.33^v$$

193.0

237.5

44.5^v+1.42^v

5.7

$$67.8 \frac{62.1^v}{106.6^v} + 1.50^v$$
mean +1.22^v

 9 38 10
19^v9 34 46.^v+5 +1 0.^v

 14 35 46.^v

 273^v 6022^v

Mar. 4, 1910.

Same Again \overline{III}
Index R+A A.

9 42 35

$$\begin{array}{r}
 186.6 \\
 244.0 \\
 13.4 \\
 58.4 \\
 \hline
 45.0 \\
 102.4
 \end{array}
 \begin{array}{l}
 \checkmark 7.4 \\
 \checkmark \\
 \checkmark \\
 \checkmark +1.60
 \end{array}$$

9 44 35

$$\begin{array}{r}
 195.6 \\
 236.5 \\
 6.6 \\
 66.5 \\
 \hline
 59.9 \\
 100.2
 \end{array}
 \begin{array}{l}
 \checkmark 0.9 \\
 \checkmark \\
 \checkmark \\
 \checkmark +1.64
 \end{array}
 \begin{array}{l}
 +1.62 \\
 \checkmark
 \end{array}$$

Index L+B. B.

9 47 15

$$\begin{array}{r}
 90.9 \\
 159.9 \\
 281.9 \\
 329.8 \\
 \hline
 47.9 \\
 116.9
 \end{array}
 \begin{array}{l}
 \checkmark 9.0 \\
 \checkmark \\
 \checkmark \\
 \checkmark +1.26
 \end{array}$$

$$\begin{array}{r}
 9 \quad 49 \quad 0 \\
 \hline
 23 \quad 25 \quad \checkmark \\
 9 \quad 45 \quad 51 \quad \checkmark \\
 +5 \quad +1 \quad 0 \quad \checkmark \\
 \hline
 14 \quad 46 \quad 51 \quad \checkmark \\
 2735.6159 \quad \checkmark
 \end{array}$$

$$\begin{array}{r}
 101.2 \\
 154.3 \\
 270.7 \\
 338.5 \\
 \hline
 67.2 \\
 120.9
 \end{array}
 \begin{array}{l}
 \checkmark 3.1 \\
 \checkmark \\
 \checkmark \\
 \checkmark +1.17
 \end{array}
 \begin{array}{l}
 +1.22 \\
 \checkmark
 \end{array}$$

Mean +1.42 \checkmark

Mar. 4, 1910

Same again ^{IV}
Index L+B. B.

9 51 5

90.6	69.3 ^v	
159.9		
281.4	<u>49.7</u> ^v	
331.1	119.0 ^v	+1.21 ^v

9 53 20

102.0	42.3 ^v	+1.26 ^v
150.3		
271.7	<u>66.7</u> ^v	
338.4	115.0 ^v	+1.30 ^v

Index R+A. A.

9 56 20

4.5		
67.8	63.3 ^v	
195.7	<u>42.1</u> ^v	
237.8	105.4 ^v	+1.53 ^v

9 58 40

15.0	42.5 ^v	+1.56 ^v
57.5		
185.6	<u>59.7</u> ^v	
245.3	102.2 ^v	+1.60 ^v

19	25 ^v	
9	54	51 ^v
+5	+1	0 ^v
14	55	51 ^v
27	35	6221 ^v

mean +1.41^v

10

Mar. 4. 1910.

Same Again. \bar{V}
Index R+A

10 1 35

5.2

66.1 60.9^v

193.0

237.6 $\frac{44.6}{10.55}^v + 1.52^v$

10 3 20

14.4

57.3 42.9^v + 1.60^v

185.7

241.6 $\frac{55.9}{92.2}^v + 1.69^v$

Index L+B

10 5 35

270.2

340.2 70.0^v

101.8

150.5 $\frac{48.7}{112.7}^v + 1.22^v$

10 8 10

12 40.^v10 4 40.^v+5 +1 0.^v15 5 40.^v2735.6290^v P.A. 59.7 Yermine B

279.8

329.1 49.3^v + 1.24^v

91.8

160.1 $\frac{68.3}{117.6}^v + 1.25^v$ mean + 1.42^v

L. P. P.

W's watch used for times
Watch 1 min 0 sec slow.

Mar 5, 1960. (Saturday)

R. U. Monoceros

6	42
6	32
0	10
11	50

-7.6

W. Ob. Rous Rec. Plot T

Index A & A.

182.6 Comp Star Dec
247.2 64.6^v

14.2 32.6^v

52.8 103.2^v +1.52^v

Index L & B B.

271.8 67.2^v

339.6

101.2

42.4^v

149.6

116.2^v

+1.22^v

mean +1.43^v

8 51 20
21 25^v

2 40 42^v

+5 +1 2^v

13 41 44^v P.A. 59.8 Yenn B

2736.5706^v

As it was pretty cloudy, observer, in above two sets, assumed to get one set and then reverse and take a second set, ^{at once} ^{clouds} but ^{it} might prevent anything being obtained. - Afterwards, it was found that something more could be done, so a full group was taken (through some clouds) on fol. page, through clouds.

The observations were pushed hard, as something about the light curve of the variable looked peculiar.

Mar. 5, 1910.

Same Again II
Index Lt B B.

9 2 10

$$\begin{array}{r} 87.0 \\ 161.2 \\ 281.0 \\ 330.8 \end{array} \quad \begin{array}{r} 74.2^{\vee} \\ \\ 49.2^{\vee} \\ \hline 124.0^{\vee} \end{array} + 1.11^{\vee}$$

9 4 10

$$\begin{array}{r} 102.4 \\ 151.4 \\ 268.6 \\ 341.2 \end{array} \quad \begin{array}{r} 49.0^{\vee} \\ \\ 72.6^{\vee} \\ \hline 121.6^{\vee} \end{array} + 1.14^{\vee}$$

Index Rta A.

~~9 6 40~~

9 8 55

$$\begin{array}{r} \cancel{359.0} \\ \cancel{66.6} \\ 177.8 \\ 246.4 \\ 12.4 \\ 61.8 \end{array} \quad \begin{array}{r} 62.6^{\vee} \\ \\ 49.4^{\vee} \\ \hline 112.0^{\vee} \end{array} + 1.24^{\vee}$$

9 10 30

9 6 26.

+5 +1 2.

14 7 22.

4736. 5225+^v

$$\begin{array}{r} 191.6 \\ 236.2 \\ 2.9 \\ 66.2 \end{array} \quad \begin{array}{r} 44.6^{\vee} \\ \\ 63.3^{\vee} \\ \hline 107.9^{\vee} \end{array} + 1.47^{\vee}$$

Above breaks through clouds. (partly broken).

mean +1.25^v

W. watch used for time
Watch 1 min 2 sec slow

L. A. P.

Mar. 7, 1910 (Monday)

Halley's Comet (Measts of Light of Nucleus)

0	25	+6.1
6	15	W obs Four Rec. Phot T.
5	50	

Region very low, comet practically invisible in Phot. Measts. can not be made.

Mar. 7, 1910.

R. U. Monoceros

6	42
6	52
0	10

-7.6

W. Ch. Rour. Rec. Phot. T.

Index.

Mar 8, 1910 (Tuesday)

Hally's comet (Phot. Measts of Nucleus)

0	25	+6.1
6	30	
6	5	

W. Obs. Rour Rec.

Region too low to measure comet satisfactorily and sky some hazy in this region.

R. U. Monocerotis

6	42	-7.6
6	42	
0	0	

W. Obs Rour Rec Phot T

Measts on foll. page

Mar. 8, 1910.

Index R+A A. I

177.1 = Comp Star Dis

255.8 72.7^v

7.8

62.7 $\frac{54.9}{133.6}$ ^v+0.90^v

188.6

56.9^v+0.26^v

245.5

354.6

75.0

 $\frac{20.4}{137.3}$ ^v+0.23^v

Index L+B B.

85.0

23.2^v

168.8

275.7

60.0^v

335.7

 $\frac{60.0}{143.2}$ ^v+0.70^v

92.8

62.9^v+0.62^v

155.7

263.6

346.3 $\frac{22.7}{145.6}$ ^v+0.66^vlinear +0.78^v

7 43 50

20 35^v7 40 12^v+5 +39^v12 40 57^v2739.5225^v

Mar. 8, 1910.

Same Again. II
Index L4B. B.

8 8 45

$$\begin{array}{r}
 266.2 \\
 348.2 \\
 \hline
 94.1 \\
 156.0 \quad \frac{61.9^{\vee}}{143.9^{\vee}} + 0.70^{\vee}
 \end{array}$$

$$\begin{array}{r}
 275.1 \\
 338.0 \\
 \hline
 82.0 \quad \frac{23.6^{\vee}}{146.5^{\vee}} + 0.64^{\vee}
 \end{array}$$

Index Rta A.

$$\begin{array}{r}
 174.6 \\
 253.2 \\
 \hline
 8.0 \quad \frac{54.2^{\vee}}{133.4^{\vee}} + 0.91^{\vee}
 \end{array}$$

$$\begin{array}{r}
 189.2 \\
 242.6 \\
 357.7 \\
 \hline
 72.8 \quad \frac{75.1^{\vee}}{122.5^{\vee}} + 1.01^{\vee}
 \end{array}$$

mean + 0.82[✓]

$$\begin{array}{r}
 8 \quad 15 \quad 5 \\
 \hline
 23 \quad 50. \quad \vee \\
 2 \quad 11 \quad 55. \quad \vee \\
 +5 \quad +39. \quad \vee \\
 \hline
 13 \quad 12 \quad 34. \quad \vee \\
 2739.5504^{\vee}
 \end{array}$$

Mar 8. 1910.

Same again. III

Index R & A. A.

$$\begin{array}{r} 177.2 \\ 251.8 \end{array} \quad 74.6''$$

$$\begin{array}{r} 7.6 \\ 62.4 \end{array} \quad \frac{54.2''}{129.4''} + 0.99''$$

$$\begin{array}{r} 188.1 \\ 243.8 \\ 355.9 \end{array} \quad \begin{array}{r} 55.7'' \\ 20.7'' \\ 136.4'' \end{array} \quad \begin{array}{r} +0.92'' \\ +0.25'' \end{array}$$

Index L & B. B.

$$\begin{array}{r} 85.1 \\ 171.3 \end{array} \quad 26.2''$$

$$\begin{array}{r} 274.1 \\ 335.1 \end{array} \quad \frac{61.0''}{147.2''} + 0.63''$$

$$\begin{array}{r} 93.9 \\ 156.2 \\ 259.0 \end{array} \quad \begin{array}{r} 62.3'' \\ 25.4'' \\ 147.7'' \end{array} \quad \begin{array}{r} +0.62'' \\ +0.62'' \end{array}$$
mean $+0.77''$

$$\begin{array}{r} 8 \quad 24 \quad 0 \\ \hline \quad 42 \quad 20. \\ A \quad 21 \quad 10. \\ +5 \quad \quad +39. \\ \hline 13 \quad 21 \quad 49. \\ 2739.5562'' \end{array}$$

Mar. 8. 1910

Same Again. IV.
Index L+B B.

8 29 38

$$\begin{array}{r}
 79.8 \\
 170.2 \quad 90.4 \\
 271.7 \quad 62.5 \\
 334.2 \quad \underline{152.9} \quad +0.52
 \end{array}$$

$$\begin{array}{r}
 94.3 \quad 63.9 \quad +0.52 \\
 158.2 \\
 262.6 \quad 23.4 \\
 346.0 \quad \underline{147.3} \quad +0.63
 \end{array}$$

Index R+A A.

$$\begin{array}{r}
 354.7 \quad 79.1 \\
 73.8 \\
 184.9 \quad 56.5 \\
 241.4 \quad \underline{135.6} \quad +0.26
 \end{array}$$

$$\begin{array}{r}
 7.2 \quad 54.3 \quad +0.93 \\
 61.5 \\
 178.0 \quad 74.8 \\
 252.8 \quad \underline{129.1} \quad +1.00
 \end{array}$$

Mean +0.76

$$\begin{array}{r}
 8 \quad 36 \quad 25 \\
 \hline
 66 \quad 15 \\
 A \quad 33 \quad A. \\
 +5 \quad +39. \\
 \hline
 13 \quad 33 \quad 47. \\
 2739.5652
 \end{array}$$

Mar. 8, 1910

Same Again \bar{V}
Index R+A. A.

356.1

74.9 72.2°

186.0

241.8 $\frac{55.2^{\circ}}{134.6^{\circ}} + 0.22^{\circ}$

8.5

 55.3°

63.8

 $+0.29^{\circ}$

175.2

253.8 $\frac{72.6^{\circ}}{133.9^{\circ}} + 0.90^{\circ}$

Index L+B. B.

262.7

 24.1°

346.8

95.0

156.8 $\frac{61.2^{\circ}}{145.9^{\circ}} + 0.66^{\circ}$

274.1

 61.1° $+0.64^{\circ}$

335.2

83.9

170.6 $\frac{26.7^{\circ}}{147.2^{\circ}} + 0.62^{\circ}$ mean $+0.76^{\circ}$

8 45 40

 $25^{\circ} 30'$ A $42^{\circ} 45'$ H $+39'$

13 43 24

R.A. 60.2 Verrier B

 2739.5717°

Mar 8, 1910

R. X Cassio.

2	17
8	32
6	15

+66.8
W. Obs. Rowe Rec. Phot T
9.5 ne cap used.

Index L+a B.

9 23 15

185.2 ← Comp Star Dis

245.6 60.4^v

15.0

58.0 $\frac{43.0}{10} 3.4^v + 1.57^v$

194.1

42.6^v+1.52^v

236.7

6.6

67.2 $\frac{60.6}{10} 3.2^v + 1.52^v$

Index R+B A.

93.8

62.3^v

156.1

287.0

326.5 $\frac{39.5}{10} 1.2^v + 1.61^v$

103.7

42.4^v+1.56^v

146.1

274.0

337.2 $\frac{63.2}{10} 5.6^v + 1.52^v$ mean +1.57^v

9	30	20
	53	35 ^v
9	26	42 ^v
+5		+39 ^v
14	27	27 ^v
8739.6024 ^v		

Mar. 8, 1910.

Same Again II
Index R+B. A.

$$\begin{array}{r}
 90.8 \\
 155.9 \\
 281.4 \\
 326.9 \\
 \hline
 110.6
 \end{array}
 \begin{array}{r}
 65.1^{\vee} \\
 \\
 \\
 45.5^{\vee}
 \end{array}
 \begin{array}{r}
 \\
 \\
 \\
 +1.40^{\vee}
 \end{array}$$

$$\begin{array}{r}
 103.8 \\
 148.7 \\
 273.0 \\
 336.6 \\
 \hline
 102.5
 \end{array}
 \begin{array}{r}
 44.9^{\vee} \\
 \\
 63.6^{\vee} \\
 102.5^{\vee}
 \end{array}
 \begin{array}{r}
 +1.42^{\vee} \\
 \\
 \\
 +1.45^{\vee}
 \end{array}$$

Index L+A. B.

$$\begin{array}{r}
 40 \\
 68.3 \\
 194.8 \\
 236.1 \\
 \hline
 105.6
 \end{array}
 \begin{array}{r}
 64.3^{\vee} \\
 \\
 41.3^{\vee} \\
 105.6^{\vee}
 \end{array}
 \begin{array}{r}
 \\
 \\
 +1.52^{\vee} \\
 \\
 \end{array}$$

$$\begin{array}{r}
 15.8 \\
 56.9 \\
 182.8 \\
 246.7 \\
 \hline
 105.0
 \end{array}
 \begin{array}{r}
 41.1^{\vee} \\
 \\
 63.9^{\vee} \\
 105.0^{\vee}
 \end{array}
 \begin{array}{r}
 +1.53^{\vee} \\
 \\
 +1.54^{\vee} \\
 \text{mean } +1.42^{\vee}
 \end{array}$$

$$\begin{array}{r}
 9 \quad 42 \quad 35 \\
 \hline
 72 \quad 0. \\
 9 \quad 39 \quad 0. \\
 +5 \quad +39. \\
 \hline
 14 \quad 39 \quad 39. \\
 2739.6102^{\vee}
 \end{array}$$

Mar. 8, 1910.

Same Again III
Index L+A. B.

9 45 45

$$\begin{array}{r}
 5.4 \\
 66.6 \\
 195.3 \\
 236.3
 \end{array}
 \begin{array}{r}
 61.2^{\vee} \\
 \\
 \frac{41.0^{\vee}}{10} \\
 2.2^{\vee}
 \end{array}
 +1.60^{\vee}$$

$$\begin{array}{r}
 17.3 \\
 57.7 \\
 184.2 \\
 245.0
 \end{array}
 \begin{array}{r}
 40.4^{\vee} \\
 \\
 \frac{60.2^{\vee}}{10} \\
 1.2^{\vee}
 \end{array}
 +1.62^{\vee}$$

Index R+B A.

$$\begin{array}{r}
 273.8 \\
 335.2 \\
 103.9 \\
 146.3
 \end{array}
 \begin{array}{r}
 61.4^{\vee} \\
 \\
 \frac{42.4^{\vee}}{10} \\
 3.2^{\vee}
 \end{array}
 +1.56^{\vee}$$

$$\begin{array}{r}
 9. \quad 52 \quad 40 \\
 \hline
 9 \quad 2 \quad 25^{\vee} \\
 9 \quad 49 \quad 12^{\vee} \\
 +5 \quad \quad +39^{\vee} \\
 \hline
 14 \quad 49 \quad 51^{\vee} \\
 2739.6120^{\vee}
 \end{array}$$

$$\begin{array}{r}
 283.4 \\
 327.9 \\
 92.5 \\
 157.2
 \end{array}
 \begin{array}{r}
 44.5^{\vee} \\
 \\
 \frac{64.7^{\vee}}{10} \\
 9.2^{\vee}
 \end{array}
 +1.44^{\vee}$$

mean +1.56[∨]

Mar. 8, 1910

Same Again IV

Index R+B. A.

272.9 65.7^v

338.6

104.3

147.1

$$\frac{42.2}{104.3} + 1.45^v$$

283.2

45.1^v+1.42^v

328.3

93.5

65.6^v

159.1

$$\frac{110.7}{159.1} + 1.40^v$$

Index L+A. B.

183.8

63.0^v

246.8

14.0

43.6^v

57.6

$$\frac{106.6}{57.6} + 1.50^v$$

194.4

43.4^v+1.42^v

237.8

4.2

64.3^v

685

$$\frac{107.7}{685} + 1.47^v$$

mean +1.40^v

10 5 55

124 15.1^v10 2 2.1^v+5 +39.1^v15 2 47.1^v2739.6270^v

Mar. 8, 1910

Same Again \overline{V}
Index L+A. B.

10 8 35

$$\begin{array}{r}
 183.1 \\
 247.8 \\
 15.3 \\
 57.9 \\
 \hline
 42.6^v \\
 107.3^v \\
 +1.48^v
 \end{array}$$

$$\begin{array}{r}
 194.5 \\
 237.8 \\
 4.0 \\
 70.0 \\
 \hline
 66.0^v \\
 109.3^v \\
 +1.46^v
 \end{array}$$

Index R+B. A.

$$\begin{array}{r}
 92.7 \\
 158.6 \\
 283.6 \\
 327.5 \\
 \hline
 65.9^v \\
 43.9^v \\
 109.8^v \\
 +1.42^v
 \end{array}$$

$$\begin{array}{r}
 104.0 \\
 147.0 \\
 274.1 \\
 338.7 \\
 \hline
 43.0^v \\
 68.6^v \\
 107.6^v \\
 +1.44^v
 \end{array}$$

$$\begin{array}{r}
 10 \quad 14 \quad 50 \\
 \hline
 23 \quad 25^v \\
 10 \quad 11 \quad 42^v \\
 +5 \quad +39^v \\
 \hline
 15 \quad 12 \quad 21^v
 \end{array}$$

$$\begin{array}{r}
 15 \quad 12 \quad 21^v \\
 \hline
 2739.6336^v
 \end{array}$$

W's watch used for times
Watch 39 secs slow

L. A. P.

Mar. 9, 1910 (Wednesday).

Halley's Comet.

0 25 +6.1

6 30

6 5

W Obs. Poor Rec.

Region is so low that, although comet is seen in Phot, nothing can be done with any available Comp. Star in the way of photometric measurement. Brightest Comp. Star within reach is not over bright and not certainly seen in Phot. This above mentioned theoretical Comp. Star is the only star available so that nothing can be done tonight.

Even at the above low altitude the comet is quite bright with the ordinary eyepiece, the brightness running up rather sharply to a strong condensation and nucleus in the center.

Diameter of coma estimated in ordinary eyepiece and at this low altitude, (without any square bar in eyepiece to help estimates) as perhaps a little over 2'. This estimate of the diameter would, of course, be somewhat effected by the low altitude.

Mar 9, 1910.

R. W. Monocerotis.

6 42

-7.6

7 2

W. Obs. Pour Rec.

0 20

Index R + A A.

357.8 ← Comp Star Dis

73.4 75.6^v

179.2

247.7 $\frac{65.5^v}{141.1^v} + 0.75^v$

9.6

50.4^v+0.22^v

60.0

174.0

252.8 $\frac{72.2^v}{129.2^v} + 1.00$

Index L + B B.

265.0 23.2^v

348.8

97.2

56.5^v153.7 $\frac{140.3^v}{140.3^v} + 0.77^v$

274.2

59.0^v+0.73^v

333.2

83.2

168.6 $\frac{25.4^v}{144.4^v}$ +0.69^v

Mean +0.20

8 4 403 25^v2 1 42^v+5 +23^v13 2 5^v2740.5432^v

Mar. 9, 1910.

Same Again. π
Index Lt B. B.

264.8

347.7

94.7

154.6

22.9^v $\frac{59.9^v}{142.2^v}$ +0.72^v

273.4

335.1

83.4

168.0

61.7^v+0.62^v24.6^v $\frac{24.6^v}{146.3^v}$ +0.6v^v

Index R + a. A.

177.5

255.2

7.0

63.7

77.7^v $\frac{56.7^v}{134.4^v}$ +0.29^v

187.6

244.5

356.6

74.6

56.9^v+0.22^v72.0^v $\frac{72.0^v}{134.9^v}$ +0.22^vmean +0.72^v

8 13 50

21 0.^v2 10 30.^v+5 +23.^v13 10 53.^v2740.5492^v

P.A 240.0 Vernier B

Mar. 9, 1910.

R. X. Cassiope.

2	17
7	52
5	35

+66.8
W. Obs. Roue Rec Phot T
9.5 inch cap used

8 34 25

Index R+B A. I
91.1 ← Comp Star Dis
162.8 71.7[✓]

280.2
331.5 $\frac{51.3}{123.0}$ [✓] +1.13[✓]

199.8 $\sqrt{0.1}$ [✓] +1.18²
149.9

271.0
339.8 $\frac{68.2}{112.9}$ [✓] +1.22[✓]

Index L+A B.

0.0
71.8 71.2[✓]
190.6
239.6 $\frac{49.0}{120.2}$ [✓] +1.12[✓]

12.7 49.1[✓] +1.16[✓]
61.8

179.1
252.0 $\frac{72.9}{122.0}$ [✓] +1.15[✓]
mean +1.18⁷

8	41	30
2	75	55 [✓]
2	37	52 [✓]
+5		+23 [✓]
13	32	21 [✓]
2740.5624 [✓]		

Mar. 9, 1910.

Same again II
Index L+A. B.

8 44 0

357.9

74.8 76.9^v

190.8

240.0 $\frac{49.2}{126.1}$ ^v +1.06^v

12.2

62.1 49.9^v+1.04^v

178.0

251.8 $\frac{73.2}{123.7}$ ^v +1.11^v

Index R+B. A.

269.0

345.0 76.0^v

106.4

150.5 $\frac{50.1}{126.1}$ ^v +1.06^v

280.0

332.1 52.1^v +1.04^v

88.6

164.2 $\frac{75.6}{127.7}$ ^v +1.03^vmean +1.06^v

8 51 0

95 0. ^v2 47 30. ^v+5 +23. ^v13 47 53. ^v27 40.5 749^v

Mar. 9, 1910.

Same Again III
Index R+B A.266.8
343.9 77.1^v100.2
151.4 $\frac{51.2^v}{122.3^v} + 1.01^v$ 282.5
329.8 47.3^v +1.11^v88.8
160.8 $\frac{72.0^v}{119.3^v} + 1.21^v$

Index L+A B.

179.7
251.8 72.1^v11.4
59.1 $\frac{47.7^v}{119.2^v} + 1.20^v$ 191.6
240.1 42.5^v +1.16^v359.1
73.6 $\frac{74.5^v}{123.0^v} + 1.13^v$ mean +1.14^v

9	4	50
<hr/>		
	3	10. ^v
9	1	35. ^v
+		23. ^v
<hr/>		
14	1	52. ^v
<hr/>		
2740.5247 ^v		

Mar. 9, 1910.

Same Again. \overline{TV}
Index $L+A. A.$

9 36 50

$$\begin{array}{r}
 182.1 \\
 251.6 \quad 69.5^v \\
 10.5 \\
 58.4 \quad \frac{47.9^v}{117.4^v} \quad +1.25^v
 \end{array}$$

$$\begin{array}{r}
 191.2 \\
 240.3 \quad 49.1^v \quad +1.12^v \\
 357.2 \\
 71.8 \quad \frac{74.6^v}{123.7^v} \quad +1.11^v
 \end{array}$$

Index $R+B. A.$

$$\begin{array}{r}
 84.4 \\
 161.9 \quad 77.5^v \\
 281.4 \\
 330.4 \quad \frac{49.0^v}{126.5^v} \quad +1.05^v
 \end{array}$$

$$\begin{array}{r}
 102.3 \\
 151.6 \quad 49.3^v \quad +1.06^v \\
 266.8 \\
 342.6 \quad \frac{75.2^v}{125.1^v} \quad +1.02^v
 \end{array}$$

$$\begin{array}{r}
 9 \quad 43 \quad 20 \\
 \hline
 20 \quad 10.5^v \\
 9 \quad 49 \quad 5.5^v \\
 +5 \quad +23.5^v \\
 \hline
 14 \quad 40 \quad 22.5^v \\
 27 \quad 40.61 \quad 4.5^v
 \end{array}$$

Mean $+1.12^v$

Mar. 9. 1910.

Same Again. \bar{F}
Index R+B. A.

9 46 35

86.0		
166.4	20.4 ^v	
280.0		
329.0	$\frac{49.0}{129.4}$ ^v	+0.99 ^v

100.0		
149.9	49.9 ^v	+1.06 ^v
268.0		
341.0	$\frac{73.0}{229}$ ^v	+1.13 ^v

Index L+A. B.

358.8		
72.0	73.2 ^v	
191.4		
238.2	$\frac{46.2}{120.0}$ ^v	+1.19 ^v

9	51	45
9	4	20 ^v
9	49	10 ^v
+5		+23 ^v
14	49	33 ^v
2740.6	172 ^v	

10.2		
61.3	51.1 ^v	+1.14 ^v
178.2		
252.1	$\frac{73.9}{125.0}$ ^v	+1.02 ^v

P.A. 31.9 Vermin B
 W's watch used for times.
 Watch 23 secs slow

mean +1.10^v

L. P. A.

Mar. 9. 1910.

Fr. 3451.			B. 394.		
10	29	43.0	11	7	0.0
	30	43.2		8	0.0
	31	43.3		9	0.0

Dis. Jup. I. Phot. R. ^{prec.} obs. Bowie rec.
 Compared with set. on same side of Jupiter, and
 a little farther from planet = Sat. III.

15	59	2	10	58	35	23.2	264.9
+0	37	12			53	79.1	348.7
16	36	14		59	11	21.0 +0.3	266.9
					27		345.0
16	0	51	11	0	30	24.9	263.1
+0	37	12		0	44	79.1	348.0
16	34	3		0	59	22.0 +0.3	265.1
				1	14		344.2
16	1	49			29	21.3	265.8
+0	37	12			40	75.5	347.1
16	39	1			56	72.4 +0.4	267.5
				2	11		343.0
16	2	55			27	20.2	267.2
+0	37	12			47	74.9	348.0
16	40	7		3	0	77.2 +0.5	266.2
					13		
					27		341.1
					45		267.8

Mar. 9, 1910

16	4	10	✓	11
+0	37	11.	✓	
16	41	21.	✓	

16	5	14.	✓
+0	37	11.	✓
16	42	29.	✓

16	6	19.	✓
+0	37	11.	✓
16	43	30.	✓

16	7	25.	✓
+0	37	11.	✓
16	44	36.	✓

16	45	14.	✓
----	----	-----	---

16	45	31.	✓
----	----	-----	---

16	45	50.	✓
----	----	-----	---

16	46	1.	✓
----	----	----	---

16	46	14.	✓
----	----	-----	---

16	46	26.	✓
----	----	-----	---

16	46	41.	✓
----	----	-----	---

16	46	51.	✓
----	----	-----	---

16	47	2.	✓
----	----	----	---

16	47	19.	✓
----	----	-----	---

16	47	45.	✓
----	----	-----	---

16	47	59.	✓
----	----	-----	---

4	1	73.2	✓	341.0
"	18	74.7	✓	264.3
"	35	76.0	+0.5	343.0

4	49	26.5	✓	261.5
5	10	22.4	✓	348.0
"	32	24.4	+0.2	263.8
"	43			346.2

"	58	21.1	✓	265.1
6	8	76.0	✓	346.2
"	30	72.6	+0.4	267.5
"	41			343.5

"	56	75.7	✓	267.3
7	20	74.1	✓	343.0
"	34	76.9	+0.5	267.7
"	49			345.8

8	3	75.3	+0.6	267.5
"	20	76.2	+0.5	342.8

"	39	75.2	+0.6	266.6
---	----	------	------	-------

"	50	72.5	+0.7	341.8
---	----	------	------	-------

9	3	70.2	+0.4	269.3
---	---	------	------	-------

"	15	65.5	+1.0	339.5
---	----	------	------	-------

"	30	64.0	+1.0	274.0
---	----	------	------	-------

"	40	60.2	+1.2	338.0
---	----	------	------	-------

"	51	53.7	+1.5	277.8
---	----	------	------	-------

10	9	49.3	+1.7	331.5
----	---	------	------	-------

"	35	45.6	+1.9	282.2
---	----	------	------	-------

10	49	39.1	+2.2	327.8
----	----	------	------	-------

Mar 9, 1910.

16	42	15.5	✓	11	11	5	32.5	✓	+2.7	✓	288.7
16	42	25.5	✓		"	15	22.7	✓	+3.0	✓	321.2
16	42	39	✓		"	29	19.5	✓	+3.2	✓	292.5
16	42	54	✓		"	44					312.0
16	49	5	✓		"	55					Not seen later

Limit of Vis.

16	12	45.5	✓	11	12	19	27.0	✓			288.0
40	37	10.5	✓		"	35					315.0
16	49	55.5	✓	11	13	14	22.7	✓			288.5
							27.2	✓	+3.0		317.2
											317.5

Seeing in above eclipse, very bad and sat.
I very near Jupiter.

(3, 12, 0)
Last setting (before "not seen later") somewhat
uncertain owing to bad seeing.

Mar. 9, 1910.

Dis. Jup. III. Phot. R. H. ds. Bowie rec.
Compared with

	11	48	0		272.2	
			32			
	11	49	4	119.5	152.5	
16 49 42			25	121.5	272.0	1
+0 37 4		50	2	120.5	153.6	
17 26 46			19		275.1	
			38	119.2	155.0	
16 51 2			58	112.7	274.2	2
+0 37 4		51	15	119.6	155.2	
17 24 12			40		273.9	
		52	5	120.1	153.8	
16 52 36			26	121.4	273.9	3
+0 37 4			47	120.2	155.5	
17 29 40		53	8		276.9	
			44	121.2	153.2	
16 54 20		54	12	119.9	275.0	4
+0 37 3			33	120.4	155.1	
17 31 23			49		275.0	
		55	20	123.2	153.3	
16 55 48			35	112.7	276.5	
+0 37 3			58	121.0	158.5	
17 32 51		56	17		273.2	

Mar. 9, 1910.

16 57 14. ✓	11	56	42	120.6 ✓	154.0	
+0 37 3. ✓		57	2	112.4 ✓	274.6	6
17 34 17. ✓		"	21	119.5 ✓ -1.2 ✓	155.1	
		"	50		273.5	
16 52 44. ✓		58	10	119.9 ✓	154.2	
+0 37 3. ✓		"	29	117.5 ✓	274.1	7
17 35 47. ✓		"	51	112.7 ✓ -1.1 ✓	156.0	
	11	59	25		273.5	→
17 0 25. ✓		"	47	119.5 ✓	156.0	
+0 37 2. ✓	12	0	14	116.9 ✓	275.5	
17 37 27. ✓		"	38	112.2 ✓ -1.1 ✓	157.6	
		1	2		274.5	
17 2 7. ✓		"	34	102.0 ✓	160.0	
+0 37 2. ✓		2	3	107.6 ✓	268.0	
17 39 9. ✓		"	18	107.8 ✓ -0.7 ✓	163.2	
		"	47		270.8	
17 3 37. ✓		3	5	105.0 ✓	162.0	
+0 37 2. ✓		"	25	96.7 ✓	267.0	
17 40 39. ✓		"	51	100.2 ✓ -0.4 ✓	165.5	
		4	7		268.2	
17 5 23. ✓		"	25	94.5 ✓	165.5	
+0 37 2. ✓		5	3	24.5 ✓	260.0	
17 42 25. ✓		"	48	29.5 ✓ 0.0 ✓	170.0	
17 43 41. ✓		6	17		254.5	→
17 44 5. ✓		"	40	21.5 ✓ +0.3 ✓	172.0	
17 44 37. ✓		87	4	73.7 ✓ +0.6 ✓	253.5	
17 44 51. ✓		"	36	62.2 ✓ +0.4 ✓	179.8	
		"	50	65.9 ✓ +0.9 ✓	248.50	

Mar. 9, 1910.

17 45 17. ✓
 17 45 37. ✓
 17 46 4. ✓
 17 46 44. ✓
 17 47 34. ✓

8 17 52.5 ✓ +1.3 ✓ 182.1
 " 36 49.3 ✓ +1.7 ✓ 240.6
 9 3 47.7 ✓ +1.4 ✓ 191.3
 10 43 289.0
 10 33 Not seen later

Limits of Dis.

12 11 49. ✓
 12 42 49. ✓

11 5 51.1 ✓ 189.5
 " 34 51.3 ✓ 240.6
 " ~~46~~ 51.2 ✓ +1.6 ✓ ~~201.0~~
 12 10 189.9
 27 241.2

Fr. 3451.
 12 24 1.5
 25 1.7

Bond 394.
 13 1 0.0
 2 0.0

L. P. P.

Mar 10, 1910 (Thursday)

R.W. Monocerotis

6	42	-7.6
6	42	
0	0	W db Rous Rec

Abandoned for the present, too cloudy in this region.

R.X. Cassiope

2	17	+66.8
6	57	
4	40	

Mar 11, 1910 (Friday).

R. U. Monoceros

6	42
6	47
0	5

-7.6

W Obs Rous Rev Phot T

Index R+R A.

359.0 ← Comp Star Obs.

72.7 73.7^v

187.2

244.0	$\frac{56.2}{130.5}$	^v	+0.97 ^v
-------	----------------------	--------------	--------------------

8.8

54.0^v+1.00^v

62.8

177.8

74.0^v

257.8

122.0^v+1.02^v

Index L+B B.

263.7

24.0^v

347.7

93.9

159.3

65.4^v

149.4

+0.59^v

272.0

59.6^v+0.61^v

331.6

81.2

168.6

27.4^v

147.0

+0.63^vmean +0.60^v

7	44	10
	22	40 ^v

7	41	20 ^v
---	----	-----------------

15		-4 ^v
----	--	-----------------

12	41	16 ^v
----	----	-----------------

2742.5227^v

Mar. 11, 1910.

Same Again II
Index L+B. B.

7 46 15

262.0

346.0

24.5^v

91.1

157.2

 $\frac{66.1}{150.1}$ ^v+0.57^v

272.1

334.1

62.0^v+0.59^v

80.4

166.6

 $\frac{26.2}{142.2}$ ^v+0.61^v

Index R+A. A.

175.7

249.6

73.9^v

6.0

60.7

 $\frac{54.7}{122.6}$ ^v+1.01^v

186.9

241.0

54.1^v+0.94^v

353.5

74.5

 $\frac{21.0}{135.1}$ ^v+0.27^vmean +0.76^v

7	52	5
<hr/>		
92	20.	"
7	49	10.
<hr/>		
12	49	6.

2742.5341^v P.A. 239.8 Vermier B

Mar. 11, 1910.

R. E. Cassiope

2	17
7	32
5	15

+66.8
W. Obs. Bouz Rec. Phot. T
9.5 in cap. used

Index R+B A. I

268.6 ← comp standard
346.0 77.4^v
99.6
152.1 $\frac{77.4^v}{129.9^v} + 0.92^v$

277.3
329.6 $\sqrt{2.3^v} + 0.92^v$
85.8
163.2 $\frac{77.4^v}{129.7^v} + 0.99^v$

Index L+A. B.

178.0 74.6^v
252.6
9.4
58.3 $\frac{74.6^v}{123.5^v} + 1.12^v$

188.4 $\sqrt{3.2^v} + 1.06^v$
241.6
357.0 76.4^v
73.4 $\frac{76.4^v}{129.6^v} + 0.99^v$

mean +1.02

8 24 40
42 55^v
2 21 24^v
45 -4^v
13 21 24^v
2742.5565^v +

Mar. 11, 1916.

Same again II
Index L + A. B.

8 27 35

$$\begin{array}{r}
 174.2 \\
 252.6 \\
 11.6 \\
 60.0 \\
 \hline
 42.4 \\
 126.2 \\
 \hline
 +1.05
 \end{array}$$

$$\begin{array}{r}
 191.0 \\
 242.0 \\
 356.7 \\
 72.9 \\
 \hline
 76.2 \\
 127.2 \\
 \hline
 +1.04
 \end{array}$$

Index + B. A.

$$\begin{array}{r}
 87.9 \\
 152.9 \\
 279.0 \\
 331.4 \\
 \hline
 65.0 \\
 52.4 \\
 117.4 \\
 \hline
 +1.25
 \end{array}$$

$$\begin{array}{r}
 98.6 \\
 151.4 \\
 264.2 \\
 342.9 \\
 \hline
 52.2 \\
 76.7 \\
 131.5 \\
 \hline
 +0.95
 \end{array}$$

mean +1.07

$$\begin{array}{r}
 8 \quad 33 \quad 0 \\
 \hline
 60 \quad 35 \\
 2 \quad 30 \quad 12 \\
 +5 \quad -4 \\
 \hline
 13 \quad 30 \quad 14 \\
 27.42, 5626
 \end{array}$$

Mar. 11, 1910.

Same again. III
Index R+B ~~A~~

8 36 10

$$\begin{array}{r}
 85.6 \\
 166.1 \\
 278.2 \\
 331.6 \\
 \hline
 133.9
 \end{array}
 \begin{array}{l}
 \\
 A0.5^v \\
 53.4^v \\
 +0.90^v
 \end{array}$$

$$\begin{array}{r}
 100.3 \\
 152.6 \\
 264.9 \\
 343.6 \\
 \hline
 131.0
 \end{array}
 \begin{array}{l}
 \\
 52.3^v \\
 72.7^v \\
 +0.96^v
 \end{array}
 \begin{array}{l}
 \\
 \\
 +0.93^v
 \end{array}$$

Index L+A B.

$$\begin{array}{r}
 358.8 \\
 74.7 \\
 188.4 \\
 243.4 \\
 \hline
 130.9
 \end{array}
 \begin{array}{l}
 \\
 75.9^v \\
 55.0^v \\
 +0.96^v
 \end{array}$$

$$\begin{array}{r}
 9.9 \\
 60.1 \\
 175.1 \\
 254.7 \\
 \hline
 129.2
 \end{array}
 \begin{array}{l}
 \\
 50.2^v \\
 79.6^v \\
 +0.92^v
 \end{array}
 \begin{array}{l}
 \\
 +0.97^v
 \end{array}$$

$$\begin{array}{r}
 8 \quad 42 \quad 20 \\
 \hline
 72 \quad 30. \\
 2 \quad 39 \quad 15. \\
 \hline
 13 \quad 39 \quad 11. \\
 2742.5629
 \end{array}$$

P.A. 31.8 Yermier B.

mean +0.95^v

Mar. 11, 1910

D.M. +66° 242 (7.8) [Comp star for R. X Cassio]
compared with D.M. +66° 243 (9.2)

W Obs. Roux Rec. Phot T. 9.5 in cap used.

Index Left. B.

10.7 C.S. for R X Cass. dis.
59.7 49.0

9 13 55

196.0
232.4 $\frac{36.4}{25.4} \checkmark$ $\overline{2.04} \checkmark$ 18.8
53.0
188.8
242.9 $\frac{34.2}{22.3} \checkmark$ $\overline{2.00} \checkmark$
 $\frac{54.1}{22.3} \checkmark$ $\overline{1.96} \checkmark$

Index Right A.

279.0
328.3 49.3 \checkmark
106.0
143.4 $\frac{37.4}{26.7} \checkmark$ $\overline{2.00} \checkmark$ 285.5
324.6 39.1 \checkmark $\overline{1.24} \checkmark$ 95.2
155.0 $\frac{59.2}{92.9} \checkmark$ $\overline{1.62} \checkmark$

9	21	0
<hr/>		
	34	55.
9	17	22.
+		-4.
<hr/>		
14	17	24

Mean $\overline{1.92} \checkmark$ P.A. 255.5 Vermin B
2742.5953

Mar. 11, 1912

R. S. Sefner

4	35
9	5
4	30

+81.0

W. Alb. Roca Rec. Phot T

Index Above A.I.

96.6 ← Comp Star Dis.

1546 52.0^v

281.5

324.6 $\frac{43.1}{101.1}$ ^v+1.63^v

102.2

145.4 43.2^v+1.60^v

275.8

335.9 $\frac{60.1}{103.3}$ ^v+1.52^v

Index Below B.

10.0

52.0^v

62.0

195.2

233.8 $\frac{32.6}{90.6}$ ^v+1.90^v

17.0

54.0 37.0^v+1.25^v

185.1

2423 $\frac{57.2}{94.2}$ ^v+1.20^vMean +1.72^v

10 5 30

0 22^v10 0 12^v+5 -4^v15 0 2^v2742.6251^v

Mar. 11, 1910.

Same Again II
Index Below B.

10 8 0

6.2

60.7 $\sqrt{4.5}^v$

197.2

234.7 $\frac{37.5^v}{92.0^v} + 1.26^v$

16.5

32.1^v+1.7²^v

54.6

185.2

245.9 $\frac{60.7^v}{92.2^v} + 1.69^v$

Index Above A.

95.2

63.6^v

1588

282.6

322.8 $\frac{40.2^v}{103.2^v} + 1.56^v$

104.4

40.2^v+1.52^v

145.2

273.3

334.6 $\frac{61.3^v}{102.1^v} + 1.61^v$ mean +1.62^v~~10 28 20~~
10 30 1532 15^v10 19 2^v+5 -4^v15 19 4^v

2742.6323 P.A. 7.3 Remin B

L. P. P.

W. watch used for times
Watch 4 sec fast

Mar. 14, 1910 (Monday)

Q. U. Monocerotis

6	42	-7.6
6	57	
0	15	

W Obs. Four Rec. Phot. T.
Index R+A A. 1

177.6	736 ^v	
251.2	546 ^v	
6.4	128.2 ^v	+1.02
61.0		

+0.96^v

185.1	57.0 ^v	
242.1	76.2 ^v	
356.2	133.2 ^v	+0.91
72.4		

Index L+B B.

263.0	83.0 ^v	
346.0	59.0 ^v	
95.7	142.0 ^v	+0.73 ^v
154.7		

+0.68^v

272.9	61.2 ^v	
334.1	85.8 ^v	
81.5	147.0 ^v	+0.63 ^v
167.3		

Mean +0.82^v

7	35	20
61	55 ^v	
7	30	50 ^v
45	50	
12	30	2 ^v
2745.5	209 ^v	

Mar. 14, 1910.

Same Again II
Index L+B. B.

7 37 35

262.4	83.2 ^v
345.6	<u>60.3^v</u>
93.7	143.5 ^v + 0.70 ^v
154.0	

+0.66^v

272.3	60.6 ^v
332.9	<u>87.0^v</u>
82.2	147.6 ^v + 0.62 ^v
169.2	

Index R+a. A.

174.3	81.1 ^v
255.4	<u>56.3^v</u>
6.8	137.4 ^v + 0.83 ^v
63.1	

+0.84^v

186.2	58.6 ^v
244.8	<u>78.3^v</u>
354.7	136.9 ^v + 0.84 ^v
73.0	

Mean +0.75^v

7	43	35
<hr/>		
21	10.	^v
7	40	35. ^v
+5	-50.	^v
<hr/>		
12	39	45. ^v
27	45.	277 ^v

Mar. 14, 1910.

Same Again. III
Index A + a. A.

7 47 5

171.6	81.5 [✓]	
253.1	<u>52.8[✓]</u>	
8.4	134.3 [✓]	+0.89 [✓]
61.2		

+0.94[✓]

187.9	53.7 [✓]	
241.6	<u>75.9[✓]</u>	
358.2	129.6 [✓]	+0.99 [✓]
74.1		

Index L + B. B.

81.0	87.5 [✓]	
168.5	<u>58.8[✓]</u>	
274.4	145.5 [✓]	+0.66 [✓]
332.4		

+0.66[✓]

7	55	0
<hr/>		
	102	5 [✓]
7	51	2 [✓]
+5		-50 [✓]
<hr/>		
12	50	12 [✓]
<hr/>		
2745.	53	40 [✓]

96.7	59.8 [✓]	
156.5	<u>85.7[✓]</u>	
259.5	145.5 [✓]	+0.66 [✓]
345.2		

Mean +0.80[✓]

Mar 14, 1910.

Jarne Agave IV
Index Lt B. B.

8 1 5

80.6	88.3	✓
168.9	59.6	✓
273.3	147.9	✓ +0.62 ✓
332.9		

+0.64 ✓

93.0	64.1	✓
157.1	82.2	✓
261.4	146.3	✓ +0.65 ✓
343.6		

Index R. & A. A.

357.0	76.1	
73.1	55.7	✓
187.2	131.8	✓ +0.94 ✓
242.9		

+0.95 ✓

8	8	35
<hr/>		
9	40.	✓
A	4	50. ✓
+5	-50.	✓
<hr/>		
13	4	0. ✓

7.0	55.4	✓
62.4	75.7	✓
176.4	131.1	✓ +0.96 ✓
252.1		

Mean +0.80 ✓

A74v. ✓ 444 ✓

Mar. 14, 1910.

Same Again \bar{V}
Index R+A. A.

8 20 25

356.7	76.5	✓
73.2	55.4	✓
186.8	131.9	✓ +0.94
242.2		

+0.91 ✓

8.0	56.0	✓
64.0	79.0	✓
174.8	135.8	✓ +0.88
253.8		

Index L+B. B.

261.6	82.4	✓
344.0	62.6	✓
94.0	145.8	✓ +0.67
156.6		

+0.66 ✓

8	28	0
	42	25. ✓
2	24	12. ✓
+5		-50. ✓
13	23	22. ✓

272.8	61.0	✓
333.8	85.1	✓
82.6	146.1	✓ +0.65
167.7		

Mean +0.78 ✓

274.5 ✓ 79 ✓ P.A. 60.2 Verme B

Mar. 14, 1910.

R. X. Cassiope.

2	17	+66.8
8	57	W. Obs. Roue Rec Phot T.
6	40	9.5 in cap used

Index Lta B. I.

9 20 15

179.0	← Comp Star Obs.
251.5	72.5 ✓
7.3	53.5 ✓
60.8	126.0 ✓ +1.06 ✓

187.0	55.2 ✓	+0.99 ✓
242.2	77.4 ✓	
354.3	132.6 ✓	+0.92 ✓
71.7		

Index R+B A.

87.2	79.8 ✓
167.0	52.0 ✓
278.2	131.8 ✓ +0.94 ✓
330.2	

+0.95 ✓

9	26	30
<hr/>		
46	45.	✓
9	23	22. ✓
75	-50.	✓
<hr/>		
14	22	32 ✓
<hr/>		
2745.	5990	✓

100.1	50.6 ✓
150.7	80.1 ✓
264.2	130.7 ✓ +0.96 ✓
344.3	

Mean +0.97 ✓

Mar. 14, 1910.

Same Again. II
Index A+B A.

9 31 20

88.0	73.5
161.5	<u>56.6</u>
275.4	130.1 + 0.98 ✓
332.0	

+0.97 ✓

95.8	52.1
147.9	<u>78.9</u>
265.0	131.0 + 0.96 ✓
343.9	

Index L+a. B.

356.4	77.6
74.0	<u>54.3</u>
188.2	131.9 + 0.94 ✓
242.5	

+0.92 ✓

9	37	55
	69	15 ✓
9	34	32 ✓
+5		-50. ✓
14	33	42 ✓
2745.6060 ✓		

7.2	55.6
62.2	<u>78.1</u>
174.7	133.1 + 0.91 ✓
252.8	

Mean +0.94 ✓

Mar. 14, 1910.

Same Again III
Index L+A B.

353.4 78.6

72.0 55.7

186.5 134.3 +0.89 ✓

242.2

+0.94 ✓

7.5 54.0

61.5 76.1

177.1 130.1 +0.98 ✓

253.2

Index A+B. A.

264.6 76.7

341.3 58.1

95.6 134.8 +0.88 ✓

153.7

+0.88 ✓

275.0 57.8

332.8 77.3

86.3 135.1 +0.87 ✓

163.6

Mean +0.91 ✓

9 41 25

9 46 50

22 15. ✓

9 44 2. ✓

+5 -50. ✓

14 43 10. ✓

274.6 134. ✓

Mar. 14, 1910.

Same again ~~TD~~
Index B+B. A.

9 49 50

262.1	79.3	✓
341.4	52.6	✓
100.9	131.9	+0.94 ✓
153.5		

+0.92 ✓

276.5	55.1	✓
331.6	79.4	✓
85.0	134.5	+0.89 ✓
164.4		

Index Lta B.

174.6	78.9	✓
253.5	54.2	✓
5.8	133.1	+0.91 ✓
60.0		

+0.89 ✓

9	55	0
<hr/>		
104	✓	✓
9	✓	2 ✓
+	✓	-✓
<hr/>		
14	✓	3 ✓
<hr/>		
274	✓	6191 ✓

186.2	57.6	✓
243.8	77.5	✓
357.6	135.1	+0.87 ✓
75.1		

Mean +0.90 ✓

Mar. 14, 1910

D.M. + 66° 242 (7.8) [Comp star for R.E. Cassiope]
 compared with D.M. 66° 243 (9.2)
 W Obs Roue Rec. Phot T. P. 5 in caps used
 7

Index Left B.

189.8 Comp star for R.E. Cass. Dis
 239.8 50.0 ✓
 15.9 37.1 ✓
 53.0 87.1 ✓ - 1.99 ✓

194.7 41.5 ✓ - 1.96 ✓
 236.2 52.8 ✓
 8.4 94.3 ✓ - 1.80 ✓
 61.2

Index Right A.

96.0 58.8 ✓
 154.8 37.8 ✓
 285.2 96.6 ✓ - 1.74 ✓
 323.0

- 1.78 ✓

106.5 38.5 ✓
 145.0 54.8 ✓
 276.9 93.3 ✓ - 1.83 ✓
 331.7

Mean - 1.84 ✓

L. P. P.

10 5 0
 4 ✓ ✓
 10 2 2 ✓
 +5 -50. ✓
 15 1 1

P.A. 255.8 Termier B

2745.62 r A ✓

W's watch used for times.
 Watch 50 secs fast.

Mar. 15, 1910 (Tuesday).

R.U. Monoceros

6	42
7	7
0	25

-7.6

U. Obs. Pour Rec. Phot T

Index Rta. A. I

176.9 ← Comp. Star Obs

254.0 77.1^v6.9 53.9^v60.8 131.0^v +0.96^v187.0 52.8^v +0.98^v239.8 76.4^v357.0 129.2^v +1.00^v

73.4

Index L+B. B.

77.8 92.2^v170.0 59.2^v273.1 151.4^v +0.55^v

332.3

+0.66^v97.0 56.2^v153.2 84.4^v260.6 140.6^v +0.76^v

345.0

Mean +0.82^v

7	39	5
7	71	5 ^v
7	35	32 ^v
+	5	59 ^v
12	34	33 ^v
2746.5240 ^v		

Mar. 15, 1910.

Same Again. II
Index L+B. B.

7 43 0

82.4	84.8 ✓
167.2	<u>56.9</u> ✓
276.0	141.7 ✓ +0.74 ✓
332.9	

+0.66 ✓

96.2	59.3 ✓
155.5	<u>90.1</u> ✓
257.6	149.4 ✓ +0.59 ✓
347.7	

Index R+a A.

351.9	80.7 ✓
72.6	<u>55.8</u> ✓
185.9	136.5 ✓ +0.84 ✓
241.7	

+0.98 ✓

7 50 0

93 0. ✓
7 46 30. ✓
+5 -59. ✓

12 45 31 P.A. 240.0 Vermier B.

2746.5317 ✓

8.4	52.9 ✓
61.3	<u>77.6</u> ✓
176.5	130.5 ✓ +0.97 ✓
254.1	

Mean +0.78 ✓

General +0.80 ✓

Mar. 15, 1910.

R. X Cassiop.

2	17
8	17
6	0

+66.8

W. Obs. Pour Rec. Phot T.

9.5 in cap. used

Index L+A B.

357.9 ← Comp Star Dis.

76.0 78.1 ✓

186.6 544 ✓

241.0 132.5 ✓ +0.93 ✓

7.4 53.6 ✓

+0.90 ✓

61.0 81.7 ✓

172.1 135.3 ✓ +0.87 ✓

253.8

Index R+B. A.

263.4 79.2 ✓

342.6 548 ✓

96.7 134.8 ✓ +0.90 ✓

151.5

+0.89 ✓

275.4 57.4 ✓

332.8 77.3 ✓

85.3 134.7 ✓ +0.88 ✓

162.6

Mean +0.90 ✓

8	44	5
2	2	5
A	41	2
45		59
13	40	3
2746	5694	

Mar 15, 1910.

Same Again. II
Index R+B. A.

8 46 30

261.8	84.0 ✓
345.8	53.4 ✓
99.2	137.4 ✓ +0.83 ✓
152.6	

+0.86 ✓

276.9	54.9 ✓
331.8	79.0 ✓
85.2	133.9 ✓ +0.90 ✓
164.2	

Index L+A. B.

173.2	81.0 ✓
254.2	51.8 ✓
10.2	132.8 ✓ +0.94 ✓
61.2	

+0.86 ✓

188.1	55.7 ✓
243.8	83.4 ✓
353.0	139.1 ✓ +0.79 ✓
76.4	

Mean +0.86 ✓

8	52	40
<hr/>		
99	10.	✓
49	35.	✓
+5	-59.	✓
<hr/>		
13	42	36 ✓
2746.5754 ✓		

Mar. 15, 1910.

Same Again III

Index L+A. A.

8 57 50

173.0 80.8[✓]253.8 51.7[✓]10.3 132.5[✓] +0.93[✓]

62.0

+0.88[✓]188.3 54.5[✓]242.8 83.2[✓]351.8 137.7[✓] +0.82[✓]

75.0

Index B+B. A.

83.0 83.4[✓]166.4 55.9[✓]275.9 139.3[✓] +0.79[✓]

331.8

+0.85[✓]

9 4 15

2 ✓

9 1 2 ✓

+5 -59 ✓

14 0 3 ✓

2746.5A33[✓]99.0 50.8[✓]149.8 82.4[✓]262.0 133.2[✓] +0.91[✓]

344.4

Mean +0.86[✓]

Mar. 15, 1910

Same Again. IV
Index B+B. A.

9 11 25

80.2	84.3 ✓
164.5	56.9 ✓
275.4	141.2 ✓ +0.75 ✓
332.3	

+0.84 ✓

98.9	52.9 ✓
151.8	79.6 ✓
262.2	132.5 ✓ +0.93 ✓
341.8	

Index L+A. B.

353.9	82.3 ✓
76.2	54.6 ✓
186.9	136.9 ✓ +0.84 ✓
241.5	

+0.90 ✓

9.9	49.1 ✓
59.0	81.4 ✓
174.0	130.5 ✓ +0.97 ✓
255.4	

Mean +0.87 ✓

9	19	35
<hr/>		
31	0.	✓
9	15	30. ✓
+5	-59.	✓
<hr/>		
14	14	31. ✓
2746.5935 - ✓		

Mar. 15, 1910

Same Again Σ
Index I + A. B.

9 25 15

357.3	78.6	
75.9	51.6	
188.2	130.2	+0.97
239.8		

+1.00

9.2	49.9	
59.1	77.7	
177.0	127.6	+1.03
254.7		

Index B + B. A.

262.6	80.4	
343.0	53.1	
99.2	133.5	+0.91
152.3		

+0.87

9	31	30
	56	45
9	22	22
15		59
14	27	23
27	46.602	

277.5	53.9	
331.4	83.4	
82.6	137.3	+0.83
166.0		

Mean +0.94

Mar. 15, 1910.

D.M. +66° 242 (7.8) [comp. star for R_X Cassiope]
compared with D.M. +66° 243 (9.2)

W. obs. Ross Rec. Phot. T. 9.5 in cap. used.

Index Right. A.

275.6 ← comp. star for R_X Cass. Dis.

331.6 56.0 ✓

105.8 35.4 ✓

141.2 91.4 ✓ ~~1.88~~ ✓

284.2 40.1 ✓ -1.85 ✓

324.3 53.4 ✓

96.4 93.5 ✓ -1.82 ✓

149.8

Index Left. B.

186.5 42.5 ✓

239.0 36.3 ✓

15.8 78.8 ✓ -2.23 ✓

52.1

-2.12 ✓

196.7 36.7 ✓

233.4 49.4 ✓

9.0 86.1 ✓ -2.02 ✓

58.4

mean -1.98 ✓

9 44 0

21 0. ✓

9 40 30. ✓

+5 -59. ✓

14 39 31. P.A. 74.3 Vernier B

2746.6102 ✓

Mar. 15, 1910.

Same Again. II.
Index Left. B.

10 4 10

192.8	445 [✓]	
237.3	351 [✓]	
16.5	79.6 [✓]	-2.21 [✓]
51.6		

-2.10[✓]

198.3	34.4 [✓]	
232.7	52.5 [✓]	
7.3	86.9 [✓]	-2.00 [✓]
59.8		

Index Right. A.

98.5	51.3 [✓]	
149.9	38.9 [✓]	
284.5	90.2 [✓]	-1.91 [✓]
323.4		

-1.88[✓]

10.71	50	
16	0.	[✓]
10	2	0. [✓]
+5	-59.	[✓]
15	7	1. [✓]
2746.6299		[✓]

105.3	38.1 [✓]	
143.4	54.0 [✓]	
277.0	92.1 [✓]	-1.86 [✓]
331.0		

Mean -1.99[✓]

Mar. 15, 1910

I chrons

5 22

- 0.4

10 12

W Obs Roue Rec.

4 50

Phot R, One prism removed

Index R+B. A.

302.4 15.9 ✓

318.3 11.9 ✓

125.5 27.8 ✓ - 4.57 ✓

137.4

- 4.62 ✓

305.4 11.3 ✓

316.7 15.1 ✓

123.8 26.4 ✓ - 4.68 ✓

138.9

Index Lta B.

213.7 14.4 ✓

228.1 13.1 ✓

34.1 27.5 ✓ - 4.59 ✓

47.2

- 4.58 ✓

214.8 12.6 ✓

227.4 15.2 ✓

33.4 27.8 ✓ - 4.57 ✓

48.6

Mean - 4.60 ✓

10 40 25

74 0. ✓

10 37 0. ✓

+5 -59. ✓

15 36 1 ✓

2746.6500 ✓

9.5 in cap. used
Remark on foll. page.

L. P. P.

Mar 15, 1910.

Altitude low, seeing a little poor, troublesome bars of light across field (possible due to interference of eye stop with eye) and shutter interfering very slightly at end of observations.

9.5 in. cap. accidentally left on telescope, after observations of R. X. Bassiop so that δ Quins was observed with cap on.

W's watch used for times

Watch 59 sec fast.

L. P. P.

Mar. 16, 1910 (Wednesday)

R. U. Monocerotis

6	42	-7.6
7	22	U. Obs Rous Rec. Phot T
0	40	

Index R+a A. I

355.4 ← Comp. Star Dis

72.2	76.8 ✓
186.2	55.0 ✓
241.2	131.8 ✓ +0.94 ✓

9.0	53.2 ✓	+0.97 ✓
62.2	76.0 ✓	
175.6	129.2 ✓	+1.00 ✓
251.6		

Index L+B. B.

260.7	86.3 ✓
347.0	57.2 ✓
96.6	143.5 ✓ +0.70 ✓
153.8	

+0.64 ✓

7	52	35
96	15	✓
7	42	2. ✓
45	-7.	✓
12	42	1. ✓

272.4	61.6 ✓
334.0	87.5 ✓
79.8	149.1 ✓ +0.59 ✓
167.3	

Mean +0.80 ✓

2747.5333 ✓

Mar. 16, 1910.

Same Again II
Index L+B

7 57 50

257.4

88.7 ✓

346.1

61.6 ✓

91.7

150.3 ✓ + 0.57 ✓

153.3

clouds.

+ 0.62 ✓

271.0

62.0 ✓

333.0

83.6 ✓

81.1

145.6 ✓ + 0.66 ✓

164.7

Index R+A A.

177.4

76.6 ✓

254.0

54.0 ✓

6.0

130.6 ✓ + 0.97 ✓

60.0

+ 0.93 ✓

186.3

56.7 ✓

243.0

77.8 ✓

355.3

134.5 ✓ + 0.89 ✓

73.1

8 5 35

3 25. ✓

A 1 42. ✓

+ 5 -7. ✓

13 1 35. P. A. 239.8 Kernier B

Mean + 0.78 ✓

2747.542A ✓

Mar. 16, 1910.

Same Again III
Index Rta A.

8 16 15

173.9

83.1 ✓

257.0

543 ✓

8.7

137.4 ✓ + 8.83 ✓

63.0

+ 6.92 ✓

188.0

50.2 ✓

238.2

783 ✓

354.0

128.5 ✓ + 1.01 ✓

72.3

Index L+B B.

79.2

87.6 ✓

166.8

57.2 ✓

276.0

144.8 ✓ + 0.68 ✓

333.2

+ 0.78 ✓

94.6

61.8 ✓

156.4

81.6 ✓

264.8

143.4 ✓ + 0.71 ✓

346.4

Mean + 0.81 ✓

8 22 25

32 40. ✓

A 19 20. ✓

+5 -7. ✓

13 19 13. ✓

2747.5550 ✓

Mar. 16, 1910.

D. M. +66° 242(7.8) (Comp star for R.T. bassarp)
 compared with D. M. +66° 243 (9.2)

2	17	+66.8
8	22	W. Obs Pour Rec. Plot T
6	5	

Index Left B.

9.6 ← Comp star for R.T. bassarp
 63.6 54.0 ✓
 197.2 33.8 ✓
 231.0 87.8 -1.97 ✓

18.5 35.1 ✓ -1.95 ✓
 53.6 54.2 ✓
 185.8 89.3 -1.93 ✓
 240.0

Index Right A.

277.1 54.7 ✓
 331.8 36.8 ✓
 106.2 91.5 -1.87 ✓
 143.0

-1.83 ✓

286.0 38.6 ✓
 324.6 56.0 ✓
 96.5 94.6 -1.79 ✓
 152.5

Mean -1.89 ✓

8 44 50
 22 10. ✓
 2 41 5. ✓
 +5 -7. ✓
 13 40 52. ✓
 2747.5701 ✓

Mar 16, 1910

Same again II
Index Right A.

8 47 55

276.9	54.1	✓
331.0	<u>36.2</u>	✓
105.8	90.3	-1.91 ✓
142.0		

-1.88 ✓

286.0	37.2	✓
323.2	<u>55.4</u>	✓
96.6	92.6	-1.84 ✓
152.0		

Index Left. B.

183.7	57.5	✓
241.2	<u>33.8</u>	✓
17.9	91.3	-1.88 ✓
51.7		

-1.92 ✓

196.8	34.4	✓
231.2	<u>54.1</u>	✓
8.1	88.5	-1.95 ✓
62.2		

8	54	20
<hr/>		
102	15.	✓
2	✓-1	A. ✓
tr	-7.	✓
<hr/>		
13	✓1	1 ✓

2747.5771 ✓

Mean -1.90 ✓
General " -1.90. ✓

Mar. 16, 1910.

R. X. Cassiope.

26 lbs. Roue Ree Phot T. 9.5 in cap used.

Index. Lta B.I

355.5 ← Comp Star Dis

9 28 10

70.2 74.7 ✓

183.5 58.9 ✓

242.4 133.6 ✓ +0.90 ✓

8.8 53.5 ✓ +0.91 ✓

62.3 79.5 ✓

172.8 133.0 ✓ +0.92 ✓

252.3

Index Rta B A.

265.6 76.8 ✓

342.4 55.1 ✓

99.2 131.9 ✓ +0.94 ✓

154.3

277.5 53.3 ✓

330.8 82.0 ✓

84.0 135.3 ✓ +0.87 ✓

166.0

+0.90 ✓

9 35 50

64 0. ✓

9 32 0. ✓

+5 -7. ✓

14 31 53. ✓

4747.6055+ ✓

Mean +0.90 ✓

Mar. 16 1910

Same again II
Index R+B A.

261.5	84.5 ✓	
346.0	52.1 ✓	
96.6	136.6 ✓	+0.84 ✓
148.7		

+0.84 ✓

276.6	55.6 ✓	
332.2	80.5 ✓	
84.9	136.1 ✓	+0.85 ✓
165.4		

Index L+A, B.

175.6	75.6 ✓	
251.2	55.8 ✓	
4.9	131.4 ✓	+0.94 ✓
60.7		

+0.92 ✓

185.6	57.8 ✓	
243.4	75.9 ✓	
356.4	133.7 ✓	+0.90 ✓
72.3		

Mean +0.88 ✓

9	44	55	
	23	✓	✓
9	41	32	✓
+		7	✓
14	41	25	✓
2747.6121 ✓			

Mar. 16, 1910

Same Again III
Index L+A

1773

252.9

8.5

62.4

186.6

241.9

353.3

72.0

Index R+B

83.0

162.5

276.2

330.4

Stopped by increasing cloudiness

P.A. 212.5 Vernier B

Impossible to finish this last group.
This last group, also, seriously affected
by clouds and some of the settings
especially uncertain! Repeat last partial
group.

W's watch used for time
Watch 7 sec fast.

L. P. P.

Mon. 17, 1910 (Thursday)

R U. Monocrotas

6	42
7	22
0	40

-7.6

W. Obs. Pour Rec. Phot T

Index Rta A.

355.7 ← Comp Star Dis

71.2 75.5 ✓

188.4 52.9 ✓

241.3 128.4 ✓ +1.01 ✓

7.1 53.9 ✓

+0.97 ✓

61.0 78.5 ✓

175.0 132.4 ✓ +0.93 ✓

253.5

Index Lt B. B.

257.4 91.1 ✓

348.5 57.0 ✓

96.5 148.1 ✓ +0.61 ✓

153.5

+0.62 ✓

273.4 58.9 ✓

332.3 88.0 ✓

79.3 146.9 ✓ +0.64 ✓

167.3

Mean +0.80 ✓

7 45 35
24 25. ✓

7 42 12. ✓

tr 0.

12 42 12.

2742.5293 ✓

Mar. 17, 1910.

Same Again II
Index L+B. A.

7 47 5

260.3	86.9 ✓
347.2	57.6 ✓
96.5	144.5 ✓ + 0.68 ✓
154.1	

+0.72 ✓

277.1	56.6 ✓
333.7	84.0 ✓
82.8	140.6 ✓ + 0.76 ✓
166.8	

Index R+A. A.

174.9	76.7 ✓
251.6	52.3 ✓
7.1	129.0 ✓ + 1.00 ✓
59.4	

+0.90 ✓

7	54	50
<hr/>		
	101	55. ✓
7	50	52. ✓
+		0. ✓

185.4	57.4 ✓
242.8	81.5 ✓
352.5	138.9 ✓ + 0.80 ✓
74.0	

mean + 0.81 ✓

12	50	52. ✓
<hr/>		
2742.5	354	

P.A. 240.1 Verner B

Mar. 17, 1910.

D.M. +66° 242 (7.8) [comp star for R X Cassiope] compared with D.M. +66° 243 (9.2)

$\begin{array}{r} 2 \\ 8 \\ \hline 5 \end{array}$ $\begin{array}{r} 17 \\ 7 \\ \hline 50 \end{array}$

+66.8

Wals Roue Rec Phot T

Index Left. B.

5.8 = comp. star for R X Cassiope.

$\begin{array}{r} 61.0 \\ 198.1 \\ 231.0 \end{array}$ $\begin{array}{r} 55.2 \\ 32.9 \\ \hline 88.1 \end{array}$ -1.96 ✓

$\begin{array}{r} 17.2 \\ 32.7 \\ 187.0 \\ 242.3 \end{array}$ $\begin{array}{r} 35.5 \\ 55.3 \\ \hline 90.8 \end{array}$ -1.92 ✓
-1.89 ✓

Index Right. it.

$\begin{array}{r} 273.2 \\ 333.4 \\ 106.9 \\ 142.9 \end{array}$ $\begin{array}{r} 60.2 \\ 36.0 \\ \hline 96.2 \end{array}$ -1.75 ✓

$\begin{array}{r} 286.0 \\ 322.2 \\ 94.8 \\ 156.5 \end{array}$ $\begin{array}{r} 36.2 \\ 61.7 \\ \hline 97.9 \end{array}$ -1.71 ✓

-1.73 ✓

Mean -1.82 ✓

$\begin{array}{r} 8 \quad 27 \quad 20 \\ \hline 42 \quad 45. \\ 2 \quad 24 \quad 22. \\ +5 \quad 0. \\ \hline 13 \quad 24 \quad 22. \\ 2742, 5526 \end{array}$

Mar. 17, 1910.

Same Again II
Index Right. A.

8 41 50

276.0	52.8	
328.8	38.3	
106.5	91.1	-1.88
144.8		

-1.84

284.8	38.0	
322.8	56.2	
96.5	94.2	-1.80
152.7		

Index Left B.

188.2	48.6	
236.8	36.6	
16.0	85.2	-2.05
52.6		

-2.01

196.3	35.8	
232.1	52.2	
6.3	88.0	-1.97
58.5		

Mean -1.92

8	48	5
	29	55
2	44	52
45		0
13	44	52
2742.5729		

P.A. 255.0 Vernier B.

Mar 17, 1910.

R. I. Cassins

W. O. Rouse Rec. Phot T 9.5 in caps used

Index Ltd B. 1

357.2 ← Comp Star Dis.

72.4 75.2 ✓

186.4 541 ✓

240.5 129.3 ✓ +0.99 ✓

6.6

54.6 ✓

+0.96 ✓

61.2

77.3 ✓

175.0

131.9 ✓ +0.94 ✓

252.3

Index R+B. A.

263.4 78.0 ✓

341.4 54.2 ✓

94.8 132.2 ✓ +0.93 ✓

149.0

274.7

57.8 ✓

+0.90 ✓

332.5

77.0 ✓

86.8

134.8 ✓ +0.88 ✓

163.8

Mean +0.93 ✓

9 2 40

9 8 40

11 20. ✓

9 ✓ 40. ✓

+5 0. ✓

14 ✓ 40. ✓

274.5 ✓ 273

Mar. 17, 1910.

Same Again π
Index R+B A.

9 10 35

265.8	76.8 ✓
342.6	56.2 ✓
95.8	133.0 ✓ +0.92 ✓
152.0	

+0.82 ✓

273.0	59.8 ✓
332.8	82.2 ✓
81.8	142.0 ✓ +0.73 ✓
164.0	

Index L+a B.

173.2	81.1 ✓
254.3	54.5 ✓
6.4	135.6 ✓ +0.86 ✓
60.9	

+0.90 ✓

9	15	55
26	30	✓
9	13	15 ✓
+5	0	✓
14	13	15 ✓

2740.5 925+

186.8	53.2 ✓
240.0	78.9 ✓
355.7	132.1 ✓ +0.94 ✓
74.6	

Mean +0.86 ✓

P.A. 32.0 Verrier B

Mar 17, 1910

Fourth Type Star +61° 667

3	45
9	45
6	0

+62.7

W. O. Rowe Rec Plot T

9.5 in cap used

Index Above A.

177.8

Fourth Type Dis.

250.4

72.6 ✓

9.0

49.6 ✓

58.6

122.2 ✓ -1.14 ✓

189.0

52.4 ✓

-1.12 ✓

241.4

71.2 ✓

358.2

123.6 ✓ -1.11 ✓

69.4

Index Below B.

81.5

80.9 ✓

162.4

55.6 ✓

274.8

136.3 ✓ -0.84 ✓

330.4

-0.87 ✓

95.0

55.4 ✓

150.4

78.6 ✓

264.4

134.0 ✓ -0.90 ✓

343.8

Mean -1.00 ✓

9	53	20
<hr/>		
10	2	30 ✓
9	51	15 ✓
+	✓	0 ✓

14 51 15 P.A. 185.2 Yermier B

274.6 61.22 ✓

W's watch used for times
Watch 0 sec. fast

L. P. P.

Mar. 18, 1910 (Friday).

B. 394

7 30 0.0

7 31 0.0

Fr. 3451

7 29 6.0

7 30 6.1

Dis. Jup. I. Phot R. W. Obs. Rom. Rec.
compared with most remote of three Sats.
on same preceding side = Sat IV (the
order of the Sats. from the planet on the
preceding side being I, II, IV).

7 51 36 239.0

52 3 5.2

7 52 35 112.0 ✓ 67.0

12 53 24 " 58 109.6 ✓ 179.0

+50.5 ✓ 53 52 110.8 ✓ -0.8 ✓ 70.5

12 54 14. ✓ 54 10 180.1

7 55 4 116.3 ✓ 63.8

12 55 40 " 29 120.7 ✓ 182.1

+50. ✓ " 54 119.5 ✓ -1.2 ✓ 62.9

12 56 30. ✓ 56 12 183.6

Mar. 18, 1910

12 57 2.1	7	56	27	119.7 [✓]	63.1
<u>+49.1</u>	"	"	50	119.7 [✓]	182.8
12 57 52.1	57	19	119.7 [✓]	-1.2 [✓]	64.2
	"	34			183.9
12 58 47.1	58	4	117.4 [✓]		66.0
<u>+49.7</u>	"	21	119.1 [✓]		183.8
12 59 36.1	59	12	112.4 [✓]	-1.1 [✓]	63.9
	"	32			183.0
13 0 32.1	0	1	121.4 [✓]		63.0
<u>+49.1</u>	"	24	119.2 [✓]		184.4
13 1 27.8	1	56	120.3 [✓]	-1.2 [✓]	65.1
	"	13			184.3
13 2 2.1	"	32	119.7 [✓]		65.2
<u>+49.1</u>	"	49	119.5 [✓]		184.9
13 2 51.1	2	15	119.6 [✓]	-1.2 [✓]	64.4
	"	34			183.9
13 3 23.1	"	53	115.2 [✓]		65.2
<u>+49.1</u>	3	11	117.0 [✓]		184.0
13 4 11.2	"	32	117.9 [✓]	-1.1 [✓]	66.5
	"	57			183.5
13 5 16.8	4	39	115.2 [✓]		67.7
<u>+49.1</u>	5	0	116.2 [✓]	-1.0 [✓]	182.9
13 6 4.1	"	32	115.7 [✓]		66.0
	"	48			182.2
13 7 14.1	6	26	119.0 [✓]	-1.1 [✓]	63.5
13 7 39.1	"	51	114.5 [✓]	-1.0 [✓]	182.5
13 8 26.8	7	38	99.2 [✓]	-0.4 [✓]	68.0

Mar. 18, 1910

13	8	56.8	8	8	26.2	+0.1	167.2
13	9	16	"	28	72.4	+0.7	81.0
13	9	34	"	46	55.2	+1.4	153.8
13	9	55	9	7	53.6	+1.5	98.6
13	10	16	"	28			152.2
13	10	53.8	10	6			Not seen later

Limit of Visibility

	8	10	17	50.2	0	98.8	
13	10	49.8	"	35	56.5	149.0	
		47.8	11.	1	53.4	+1.5	97.5
13	11	36.8	11	22			154.0

Owing to the fact that Jupiter was somewhat low, also that the limb of Jupiter was unsteady, also that there was rather bright moonlight, and also that Sat. I disappeared quite close to limb of planet, the settings had to be made very slowly and, owing to the unfavorable conditions, the Sat. disappeared a little earlier probably than it otherwise would.

Last one or two settings in eclipse a little uncertain.

Mar 18, 1910

B. 394

8	36	0.0
8	37.	0.0

Fr. 3451

8	35	16.5
8	36	16.7

Obs. Jup. II, Phot R, Wdbs, Rows Rec
compared with somewhat remote Sat on
same preceding side = Sat IV,

13	53	29	125.9 ^v	59.2	
		2	117.2 ^v	185.1	1
		2	121.2 ^v -1.3 ^v	66.2	
13	54	22		184.0	
		43	112.3 ^v	66.2	
13	55	8	120.5 ^v	184.5	2
		34	119.4 ^v -1.2 ^v	65.0	
13	55	46		185.5	
		46	119.0 ^v	64.0	
13	57	2	117.9 ^v	183.0	3
		18	112.4 ^v -1.1 ^v	66.1	
13	57	31		184.0	
		0	112.0 ^v	65.5	
13	58	14	112.3 ^v -1.1 ^v	183.5	
			112.2		
13	59	1			

Mar. 18, 1910

8	58	26	66.7	4
	"	43	185.0	
8	59	4 123.0 ✓	63.1	
13 59 27 ✓	"	18 120.5 ✓	186.1	✓
+40. ✓	"	34 121.7 ✓ -1.3 ✓	65.1	
14 0 7. ✓	"	52	185.5	
9	0	12 121.2 ✓	64.9	
14 0 40. ✓	"	28 121.6 ✓	186.7	6
+39. ✓	"	51 121.7 ✓ -1.3 ✓	62.9	
14 1 19. ✓	1	9	184.5	
	"	28 121.9 ✓	65.2	
14 1 51. ✓	"	41 121.3 ✓	187.1	7
+39. ✓	"	58 121.6 ✓ -1.3 ✓	64.2	
14 2 30. ✓	2	18	185.5	
	"	32 114.3 ✓	66.0	
14 2 54. ✓	"	46 120.3 ✓	184.3	
+39. ✓	3	0 119.3 ✓ -1.2 ✓	64.8	
14 3 33. ✓	"	19	185.1	
	"	36 119.9 ✓	64.2	
14 4 14. ✓	4	6 117.5 ✓	184.1	
+39. ✓	"	28 114.9 ✓ -1.1 ✓	67.5	9
14 4 53. ✓	"	47	185.0	
9	5	1 120.2 ✓	64.9	
14 5 29. ✓	"	22 114.0 ✓	185.1	10
+39. ✓	"	36 117.1 ✓ -1.1 ✓	66.5	
14 6 2. ✓	"	58	180.5	

Mar. 18, 1910.

14 6 41. ✓	9	6	114.1 ✓	69.3	
+32. ✓		"	33 114.6 ✓	183.4	11
14 7 19. ✓		"	49 114.4 ✓	-1.0 ✓	67.9
		7	5	182.5	
14 7 40 ✓		"	17 113.0 ✓	68.5	
+32. ✓		"	32 104.4 ✓	181.5	12
14 8 12. ✓		"	48 102.7 ✓	-0.7 ✓	70.6
		8	1	175.0	
14 8 52. ✓		"	14 101.0 ✓	-0.4 ✓	72.1
14 9 34. ✓		"	56 96.3 ✓	-0.2 ✓	173.1
14 9 54. ✓		9	16 93.7 ✓	-0.1 ✓	76.8
14 10 10. ✓		"	32 90.5 ✓	0.0 ✓	170.5
14 10 22. ✓		"	50 87.1 ✓	+0.1 ✓	80.0
14 10 39. ✓	9	10	1 82.6 ✓	+0.3 ✓	167.1
14 10 51. ✓		"	13 76.4 ✓	+0.5 ✓	84.5
14 11 3. ✓		"	25 73.2 ✓	+0.6 ✓	160.9
14 11 15. ✓		"	37 65.3 ✓	+1.0 ✓	87.7
14 11 30. ✓		"	52 62.9 ✓	+1.1 ✓	153.0
14 11 53. ✓		11	15 54.7 ✓	+1.4 ✓	90.1
14 12 5. ✓		"	27 36.4 ✓	+2.4 ✓	144.8
14 12 12. ✓		"	40 39.0 ✓	+2.3 ✓	108.0
14 12 37. ✓		"	59	147.0	
14 12 43. ✓		12	5	Not seen later	

Limit of Visibility

14 13 15. ✓	9	12	58 39.0 ✓	106.5	
+37. ✓		13	11 39.6 ✓	145.5	
14 13 52. ✓		13	21 39.3 ✓	+2.2 ✓	107.2
		13	30	146.8	

Remark on foll page.

Mar. 18, 1910.

Sat. II did not disappear quite as close to limb of Jupiter as Sat. I but as it approached the limb to disappear, this somewhat blurry limb gave some trouble. Last one or two settings were a little uncertain.

B. 394			Fr. 3451.		
9	21	0.0	9	20	23.7
9	22	0.0	9	21	23.8

Jupiter was higher up in this last eclipse, and the seeing rather better than in the former eclipse. Sat. II was also a little farther from the planet at disappearance. This eclipse considered pretty good.

R & base up 3-18-10

Index L+a

			356.8	← 65.010	
9	51	10	72.8	760	I
			187.3	519	
			239.2	127.9	1.02

			8.8	49.6	1.03
			58.4	774	
			175.6	1270	1.04
			253.0		

Index R+B

			265.0	78.3	
			343.3	551	
			96.8	133.4	0.91
			151.9		

					0.92
			277.5	50.9	
9	57	50	328.4	820	
			825	1329	0.92
			164.5		

Mean 0.98

Mar 18, 1910

R. I. Bassiop

2	17
9	42
7	25

+66.8

W. Obs. Ross Rec Phot T
9.5 in cap. used.

Index

L. P. R.

Mar. 19, 1910 (Saturday)

Fourth Type +49041

0 12
7 47
7 35

+48.1

W Olo Rowe Rec Phot T.

Index Right A

342.0 ← Fourth Type Dis.

83.4 101.4"

175.6 62.4"

244.0 169.0" - 0.19"

358.2

76.1

77.9"

-0.12"

165.0

264.1

99.1"
177.0"

-0.06"

Index Left

250.6

357.4

85.5

158.1

263.8

344.0

68.9

180.8

P.A. 78.7 Vermin B

See next page. For last half of group.

Mar. 19, 1910

Same Again
Index Left B.

250.6

356.5 105.9"

84.0

162.5

72.5"

124.4"

175.6"

+0.02"

265.8

339.0

73.2"

+0.10"

66.6

180.0

112.4"

126.6"

173.4"

+0.13

Mean = 0.01"

8	26	10.
<hr/>		
	27	50. ✓
A	13	55. ✓
+5		+14. ✓
<hr/>		
13	14	9. ✓
27 50.55 15.4		

Observations difficult throughout, the moon is bright, region low, and sky murky. As fourth set disagreed radically with third set, both these sets were retaken slowly and with the greatest possible care. Third & fourth sets rejected, so that the group will be composed of sets one, two, five, and six.

Mar. 19. 1910.

D.M. +66° 242 (7.8) [Comp Star for R.X. Cassiope]
compared with D.M. +66° 243 (9.2)

2	17	+66.8
8	47	W. Obs. Pour Rec Plot T.
6	30	

Index left. B.

189.2 \times b S. for R.X. Cassiope Obs.237.4 \times 42.2"

19.2

50.4 $\frac{31.2}{79.4}$ " $\bar{\ast} 2.21$ "

198.4

227.9 \times 29.5" $\bar{\ast} 2.12$ "

6.9

59.4 $\frac{52.5}{22.0}$ " $\bar{\ast} 2.14$ "

Index Right A.

950

153.2 \times 52.2"

285.0

321.1 $\frac{36.1}{94.3}$ " $\bar{\ast} 1.20$ "

107.4

143.5 \times 36.1" $\bar{\ast} 1.79$ "

272.2

331.1 $\frac{54.9}{95.0}$ " $\bar{\ast} 1.72$ "Mean $\bar{\ast} 1.92$ "

8	56	20
105	15	"
52	32	"
15	14	"

13 \times 2 \times 2 P.A. 254.5 Verrier B.2750.5 \times 744 Above group a little difficult on account of bright moonlight

Mar. 19, 1910

Fourth Type Star +38° 2389

120	49
9	25
3	25
8	35

+391

W. Alb. Ross Rec Phot T

Color 1 with ordinary exposure
Index above A.

356.7

← Fourth Type Dis

72.6

75.9^v

185.9

239.4

$$\frac{53.5^v}{129.4^v}$$
-0.99^v

4.0

52.4^v-0.07^v

62.4

170.9

253.9

$$\frac{23.0^v}{141.4^v}$$
-0.75^v

Index Below B.

260.4

25.6^v

346.0

95.2

155.8

$$\frac{60.6^v}{146.2^v}$$
-0.65^v

273.0

60.7^v-0.63^v

333.7

80.3

167.6

$$\frac{27.3^v}{142.0^v}$$
-0.61^vmean -0.75^v

9	44	45
23	0.	

9	41	30.
---	----	-----

+14 P.A. 203.5 Terminals

14 41 44 Color 1 in Phot.

6750.6123^vObservations a little difficult on account of
bright moonlight.

Mar. 19. 1910.

Fourth Type Star +46° 1817

12	38
10	3
<u>2</u>	<u>35</u>
9	25

+46.3

Wells River Rec. Phot T.
Color 6 in Phot. Color 5 in Finder

Index. L+A B,

291.6 ← Fourth Type Star

318.6	27.0	✓
113.4		
133.0	<u>19.6</u>	✓
	46.6	✓ - 3.43 ✓

293.8	20.9	✓	-3.30 ✓
314.7			
108.9	<u>22.1</u>	✓	
137.0	49.0	✓	-3.32 ✓

Index R+B. A.

196.8		
229.3	32.5	✓
24.4		
46.4	<u>22.0</u>	✓
	54.5	✓ - 3.02 ✓

201.4	22.5	✓	-3.02 ✓
223.9			

19.2		
51.1	<u>31.9</u>	✓
	54.4	✓ - 3.02 ✓

Mean -3.23 ✓

10	11	40
	17	10. ✓
10	2	35. ✓
+5		+14. ✓
15	2	49. ✓
2750.6311		

P.A. 259.2 Vermin B

Watch used for times
Watch 14 sec slow

L. P. P.

Mar 21, 1910 (Monday)

D.M. +66° 242 (7.8) [Comp Star for R & Cassio] compared with D.M. +66° 243 (9.2)

2	17	+66.8
7	47	W. Alb. P. Rec. Phot T
5	30	Full aperture

Index Right. A.

92.5	6.8	B.S. for R & Cassio
153.8	61.3	
286.0	346	
320.6	95.9	1.76

8 1 50

107.0	36.0	1.80
143.0	56.7	
274.1	92.7	1.84
330.8		

Index Left. B.

6.3	52.5	
58.8	31.7	
198.2	84.2	2.07
229.9		

2.04

17.6	32.8	
50.4	53.2	
185.4	86.0	2.02
238.6		

Mean 1.92

8	9	40
<hr/>		
11	30	
A	✓	45
45		
<hr/>		
13	6	27
27	52	5461

Mar. 21, 1910

R. X Cassiope.

Full aperture

Index L + A B.

8 19 35

358.8

comp star disc

F

69.6

76.8

189.6

47.1

236.7

117.9 + 1.24

+ 1.14

8.9

49.6

58.5

77.4

171.5

127.0 + 1.04

248.9

Index R + B A.

266.0

71.6

337.6

46.5

100.1

118.1 + 1.23

146.6

+ 1.18

279.4

47.9

327.3

74.5

86.3

122.4 + 1.14

160.8

Mean + 1.16

8 25 55

- 45 30.

A - 22 45.

+ 5 + 42.

13 23 27.

2752.5579

Mar. 21, 1910

Same Agave. II
 9.5 in caps. used.
 Index R+B. A.

8 39 0

87.0	73.4	✓
160.4	49.8	✓
277.2	123.2	+1.12 ✓
327.0		

+1.15 ✓

99.2	48.4	✓
147.6	72.0	✓
267.8	120.4	+1.18 ✓
339.8		

Index L+A B.

357.3	71.9	✓
69.2	47.3	✓
190.9	119.2	+1.21 ✓
238.2		

+1.20 ✓

8	45	50
<hr/>		
	24	50. ✓
2	42	25. ✓
+5		+42. ✓
<hr/>		
13	43	7. ✓
<hr/>		
2752.5	716	

9.1	48.6	✓
57.7	71.0	✓
177.6	119.6	+1.20 ✓
248.6		

mean +1.18 ✓

Mar 21. 1910

9.5 in cap. used.

Same again

III.

Index L+A. B.

8 55 35

356.8	71.6	✓
68.4	47.4	✓
190.9	119.0	✓ +1.21
238.3		

+1.18

10.0	48.8	✓
58.8	72.7	✓
176.9	121.5	✓ +1.16
249.6		

Index R+B A.

266.4	74.7	✓
341.1	50.9	✓
98.4	125.6	✓ +1.07
149.3		

+1.08

277.2	52.8	✓
330.0	72.2	✓
87.4	125.0	✓ +1.08
159.6		

9	2	40
11.2	14.5	✓
2.59	2.5	✓
+5	+42.	✓

13 59 50 P.A. 2121 Yennin B

2752.5 232

mean +1.13

Mar. 21, 1910

Fourth type star +38° 1539

6	27	+38.6
9	47	W. Obs. Ross Rec. Phot T.
3	20	color 5 in Finders color 6 in Phot

Index. LTA B:

9 45 50

19.2 ← Fourth Type Div
 48.8 29.6[✓]
 201.6 22.5[✓]
 224.1 52.1[✓] - 3.18[✓]

22.6 22.5[✓] - 3.16
 48.1 30.5[✓]
 197.9 53.0[✓] - 3.14
 228.4

Index R+B. A.

287.1 33.7[✓]
 320.8 21.6[✓]
 112.2 55.3[✓] - 3.04[✓]
 133.8

- 3.02[✓]

292.0 25.0[✓]
 317.0 31.2[✓]
 107.0 56.2[✓] - 3.01[✓]
 138.2

Mean 3.09[✓]

9 51 40[✓]
 97 30.[✓]
 9 42 45.[✓]
 +5 +42.[✓]
 14 49 27.[✓]
 2752.6177[✓]

P.A. 191.3 Kernan B

Mar 21, 1910

Fourth Type star +140 1283

6	17	+14.8
10	22	W Obs. Rous Rec. Phot. T.
4	5	Color 4 in Finder; Color 4 in Phot.

Index LHA B.

2.6

← Fourth Type Dec

64.0

61.4

183.9

59.0

242.9

120.4 -1.18

3.2

62.8

-1.14

66.0

60.9

182.8

123.7 -1.11

243.7

Index RHA A.

270.9

65.0

335.9

59.0

92.8

124.0 -1.11

151.8

-1.10

269.2

62.9

332.1

62.1

93.0

125.0 -1.08

155.1

Mean -1.12

15	24	10
43	0.	✓
10	21	30. ✓
+5	+42	✓
15	22	12. ✓

2752.6484

P.A. 203.0 Yermier B

Full aperture used.

W. watch used for times

Watch 42 sec slow.

L. P. P.

Mar. 22, 1910 (Tuesday).

R. I. Cassiop.

2 17
8 17
6 0

+66.8
W. Obs. Rous Rec. Phot T
Full Aperture Used.

Index. Lta B.

179.9 ← Comp Star Dis
245.0 65.1"

12.0
59.4 $\frac{47.4}{112.5}$ +1.36"

191.0
236.4 45.4" +1.34"
358.7
67.5 $\frac{64.2}{114.2}$ +1.32"

Index R+B A.

90.3
155.0 64.7"

280.2
325.5 $\frac{45.3}{110.0}$ +1.42"

99.5
144.8 45.3" +1.34"
267.2
338.4 $\frac{71.2}{116.5}$ +1.27"

mean +1.34"

8 16 20
25 15.5"
A 12 30.5"
+47.5"
13 13 25.5"
2753.55/10"

Mar. 22. 1910

Same Again ^{II}
Index R+B A.

8 22 50

86.5	72.7"	
159.2		
279.8	46.5"	
326.3	<u>119.2"</u>	+1.21"

101.2	45.0"	+1.24"
146.2		
265.8	71.2"	
337.0	<u>116.2"</u>	+1.22"

Index L+a B.

1.4	64.4"	
65.8		
188.4	46.6"	
235.0	<u>111.0"</u>	+1.39"

12.0	44.6"	+1.40"
56.6		

179.4	65.2"	
245.2	<u>110.4"</u>	+1.41"

8	29	33
<hr/>		
52	45.	

2	26	22.
---	----	-----

+5	+47.
----	------

13	27	9 P.A. 31.3	Varian B.
----	----	-------------	-----------

27	53.5	60.5	+
----	------	------	---

mean +1.32"

W. watch used for times. L. P. A.
Watch 47 sec slow.

Mar. 23, 1910 (Wednesday).

R. X. Cassiop.

2	17
7	42
5	25

+66.8
16 lbs Power Rec. Phot T

Full aperture used

Index L+A B. I
- Comp Star Co

7 48 40

1817
243.1 61.4"11.0
56.5 $\frac{45.5}{106.9}$ +1.49"191.4
232.8 41.4" +1.44"0.2
70.2 $\frac{70.0}{111.4}$ +1.39"

Index R+B A.

88.0
157.9 69.9"282.3
324.4 $\frac{42.1}{112.0}$ +1.37"102.7
147.0 44.3" +1.32"269.9
336.3 $\frac{66.4}{110.7}$ +1.40"

mean +1.41"

7	57	40
<hr/>		
	10.6	20.
7	53	10.
+		3.
<hr/>		
12	53	13.
<hr/>		
27	54.5	369"

Mon. 23, 1910.

Same Again. II
Index Rth B. A.

$$\begin{array}{r}
 88.9 \\
 159.6 \quad 70.7^{\circ} \\
 279.2 \\
 326.7 \quad \frac{47.5^{\circ}}{112.2^{\circ}} \quad +1.23^{\circ}
 \end{array}$$

$$\begin{array}{r}
 101.7 \quad 44.2^{\circ} \quad +1.22^{\circ} \\
 146.5 \\
 268.0 \\
 336.6 \quad \frac{68.6^{\circ}}{113.4^{\circ}} \quad +1.34^{\circ}
 \end{array}$$

Index Lt A. B.

$$\begin{array}{r}
 178.6 \\
 246.5 \quad 67.9^{\circ} \\
 120 \\
 566 \quad \frac{44.6^{\circ}}{112.5^{\circ}} \quad +1.36^{\circ}
 \end{array}$$

$$\begin{array}{r}
 190.6 \\
 235.4 \quad 44.2^{\circ} \quad +1.32^{\circ} \\
 1.4 \\
 67.3 \quad \frac{65.9^{\circ}}{110.7^{\circ}} \quad +1.40^{\circ}
 \end{array}$$

mean +1.33°

$$\begin{array}{r}
 8 \quad 9 \quad 55 \\
 \hline
 11 \quad 30. \\
 2 \quad \checkmark \quad 45. \\
 +5 \quad +3. \\
 \hline
 13 \quad 5 \quad 40. \\
 2754.5457^{\circ}
 \end{array}$$

Mar. 23, 1910.

Same Again III
Index L+A. B.

8 21 35

$$\begin{array}{r}
 181.9 \\
 245.8 \\
 10.5 \\
 55.8 \\
 \hline
 45.3 \\
 109.2
 \end{array}
 \begin{array}{l}
 63.9^{\vee} \\
 \\
 \\
 +1.44^{\vee}
 \end{array}$$

$$\begin{array}{r}
 189.7 \\
 237.0 \\
 0.8 \\
 67.0 \\
 \hline
 66.2 \\
 113.5
 \end{array}
 \begin{array}{l}
 47.3^{\vee} \\
 \\
 \\
 +1.34^{\vee}
 \end{array}
 \begin{array}{l}
 +1.29^{\vee}
 \end{array}$$

Index R+B A.

$$\begin{array}{r}
 90.0 \\
 158.9 \\
 279.2 \\
 326.6 \\
 \hline
 62.9^{\vee} \\
 47.4^{\vee} \\
 116.3^{\vee}
 \end{array}
 \begin{array}{l}
 \\
 \\
 +1.27^{\vee}
 \end{array}$$

$$\begin{array}{r}
 100.5 \\
 147.6 \\
 269.0 \\
 336.2 \\
 \hline
 67.2^{\vee} \\
 114.3^{\vee}
 \end{array}
 \begin{array}{l}
 47.1^{\vee} \\
 \\
 +1.32^{\vee}
 \end{array}
 \begin{array}{l}
 +1.30^{\vee} \\
 \\
 \text{mean } +1.34^{\vee}
 \end{array}$$

$$\begin{array}{r}
 8 \quad 30 \quad 20 \\
 \hline
 51 \quad 55. \\
 2 \quad 25 \quad 54. \\
 +5 \quad +3. \\
 \hline
 13 \quad 26 \quad 1. \\
 2754.5597^{\vee}
 \end{array}$$

Mar 23, 1910.

Same Again \overline{IV}
Index R+B A.

8 45 0

92.3
156.0 63.7^v
281.0
327.8 $\frac{46.2}{110.5}$ ^v +1.41^v

100.5
148.2 47.7^v +1.35^v
269.0
336.8 $\frac{67.2}{115.5}$ ^v +1.29^v

Index L+A B.

0.4
66.2 65.2^v
190.0
235.4 $\frac{45.4}{111.2}$ ^v +1.39^v

10.2
56.4 46.2^v +1.37^v
178.9
245.6 $\frac{66.7}{112.9}$ ^v +1.35^v
mean +1.36^v

8 53 0
92 0.^v
A 49 0.^v
+5 +3.^v
13 49 3.^v
2754.5757^v

Mar 23, 1910.

Same Again - E
Index L+A. B.

9 3 5

$$\begin{array}{r}
 1.6 \\
 65.1 \quad 63.5^{\vee} \\
 189.2 \\
 236.0 \quad \frac{46.2^{\vee}}{110.3^{\vee}} \quad +1.41^{\vee}
 \end{array}$$

$$\begin{array}{r}
 10.3 \\
 57.5 \quad 47.2^{\vee} \quad +1.40^{\vee} \\
 181.8 \\
 245.6 \quad \frac{63.2^{\vee}}{111.0^{\vee}} \quad +1.39^{\vee}
 \end{array}$$

Index R+B A.

$$\begin{array}{r}
 269.4 \quad 67.3^{\vee} \\
 336.7 \\
 101.6 \\
 145.9 \quad \frac{44.3^{\vee}}{111.6^{\vee}} \quad +1.32^{\vee}
 \end{array}$$

$$\begin{array}{r}
 279.2 \quad 42.2^{\vee} \quad +1.34^{\vee} \\
 327.4 \\
 91.2 \\
 158.8 \quad \frac{67.6^{\vee}}{115.2^{\vee}} \quad +1.29^{\vee}
 \end{array}$$

$$\begin{array}{r}
 9 \quad 9 \quad 0 \\
 \hline
 12 \quad 5. \\
 9 \quad 6 \quad 2. \\
 +5 \quad +3.
 \end{array}$$

$$\begin{array}{r}
 14 \quad 6 \quad 5. \\
 2754.5276^{\vee}
 \end{array}$$

P.A. 212.1 Kern B

mean +1.37[✓]

Mar. 23, 1910

R. W. Tanni

3	58	+ 27.2
<u>9</u>	<u>33</u>	
5	35	

20s watch used for times.
Watch 3sec slow.

L. P. P.

Mar. 25. 1910. (Friday).

R X Cassiop. Phot. J. W. obs. Rowa rge.

2 17
8 27
6 10

+66.2

Full Aperture Used.
Index L+A B.I

8 7 30

0.6 ← Comp Star Dis
67.2 66.6"
189.6 48.6"
238.2 115.2" +1.30"

9.6 47.6" +1.28"
57.2 68.8"
179.3 116.4" +1.27"
248.1

Index R+B A.
267.4 69.4"
336.8 47.7"
99.3 117.1" +1.26"
147.0

+1.22"

278.2 50.0"
328.2 70.8"
87.8 120.8" +1.18"
158.6

mean +1.25"

8 14 30
22 0."
11 0."
+5 +11."
13 11 11."
2756.5494"

Mar 25, 1910

Same Again \overline{II}
Index R+B $\checkmark A$

8 16 50

268.6	68.2 [✓]	
336.8	48.4 [✓]	
99.5	116.6 [✓]	+1.27 [✓]
147.9		

+1.22[✓]

279.0	48.2 [✓]	
327.2	72.3 [✓]	
86.2	120.5 [✓]	+1.18 [✓]
158.5		

Index L+A $\checkmark B$

178.0	70.3 [✓]	
248.3	50.4 [✓]	
7.8	120.7 [✓]	+1.18 [✓]
58.2		

+1.20[✓]

189.8	47.2 [✓]	
237.0	72.2 [✓]	
356.8	119.4 [✓]	+1.21 [✓]
69.0		

Mean +1.21[✓]

8	22	0
-	32	50 [✓]
8	19	20 [✓]
+5		+11 [✓]
13	19	36 [✓]
27	56	5553 [✓]

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Same Again. III

Index L+A B.

8 24 10

178.6

70.4 ✓

249.0

46.3 ✓

10.0

116.7 ✓

1.27

56.3

1.22

188.5

50.4 ✓

238.9

70.9 ✓

356.6

121.3 ✓

1.16

67.5

Index R+B A.

89.0

68.7 ✓

157.7

46.7 ✓

280.0

115.4 ✓

1.29

326.7

1.28

99.9

46.8 ✓

146.7

70.2 ✓

267.0

117.0 ✓

1.26

337.2

8 29 30

✓3 40. ✓

A 26 ✓0. ✓

✓ ✓11. ✓

13 27 1. P.A. 212.5 Kern B

A 756. ✓604 ✓

Mean 1.25

W's watch used for time

Watch 11 sec slow

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B 394

9 27 0.0

9. 28 0.0

Fr. 34 51

9 27 38.5

9 28 38.6

Srs. Jup. I Phot R. W. Obs. Rour Rec.
 compared with more remote of two Sats (but
 both being moderately near the planet on the
 preceding) on same preceding side = Sat. II.

✓ 9	41	22	107.5 ✓	69.5	
14 41 50. ✓	"	39	105.1 ✓	177.0	1
-41. ✓	42	2	106.3 ✓ -0.6	74.0	
14 41 9. ✓	"	16		179.1	
✓	"	33	105.0 ✓	72.5	
14 42 56. ✓	"	46	106.0 ✓	177.5	2
-41. ✓	43	3	105.5 ✓ -0.6 ✓	71.0	
14 42 15. ✓	"	24		177.0	
✓	"	53	106.2 ✓	70.0	
14 44 21. ✓	44	12	106.2 ✓	176.8	3
-41. ✓	"	25	106.2 ✓ -0.6 ✓	70.1	
14 43 20. ✓	"	53		176.9	
✓	45	10	106.2 ✓	70.8	
14 45 54. ✓	"	43	106.6 ✓	179.0	4
-41. ✓			106.4 ✓ -0.7 ✓		
14 45 13. ✓					

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	9	46	11		70.5	
		"	33		179.1	
		48	14	106.9	70.6	
14 4A 3A ✓		"	28	106.0	177.5	✓
-42 ✓		"	44	106.4 -0.6 ✓	72.2	
14 47 56. ✓		49	4		178.2	
		"	19	105.5 ✓	71.5	
14 49 52. ✓		"	35	104.8 ✓	177.0	
-42 ✓		"	59	107.2 -0.7 ✓	71.0	6
14 49 10. ✓	9	50	34		179.8	
		51	12	104.7 ✓	71.5	
14 52 0. ✓		"	50	103.5 ✓	176.2	
-42 ✓		52	13	104.1 -0.5 ✓	72.0	7
14 51 12. ✓		"	46		175.5	
		53	12	105.5 ✓	72.0	
14 53 47. ✓		"	29	106.1 ✓	177.5	
-43 ✓		54	1	105.2 -0.6 ✓	71.8	8
14 53 2. ✓		"	17		177.9	
		55	52	104.2 ✓	70.0	
14 56 34. ✓	9	56	23	107.9 ✓	178.2	
-43 ✓		"	45	104.0 -0.7 ✓	70.0	9
14 55 51. ✓		57	12		177.9	
		58	6	107.0 ✓	70.0	
14 5A 44. ✓		"	26	107.2 ✓	177.0	
-43 ✓		"	52	107.4 -0.7 ✓	70.2	10
14 5A 18 ✓		59	30		178.0	
		"	52	104.0 ✓	70.5	
				109.1 ✓		
				104.6 -0.7 ✓		

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15	0	26.10	0	13		178.5	
		-44.5	"	28		78.1	11
14	59	52.5	1	10		179.2	
15	0	42.5	"	26	109.0	-0.7	70.5
15	1	6.5	"	50	107.7	-0.7	179.5
	1	31.5	2	15	99.7	-0.4	71.8
	1	54.5	"	38	90.0	0.0	171.5
	2	12.5	"	56	84.5	+0.2	81.5
	2	30.5	3	14	70.1	+0.2	166.0
	2	42.5	"	32	60.3	+1.2	95.9
	3	6.5	"	50	62.0	+1.1	156.2
	3	32.5	4	16	60.2	+1.2	94.2
	3	54.5	"	42			155.0
15	4	4.5	4	48			Not seen later

Limit of Visibility

		10					
		7.5	5	6	64.6		93.5
15	5	49.5	5	45	62.6		158.1
		-45.5	5	56	63.6	+1.0	94.5
15	5	4.5	6	28			157.1

Although the seeing was fairly good yet the limb of Jupiter was somewhat blurry. Sat I disappeared practically on limb of Jupiter. This fact combined with blurry edge of limb made a number of the last settings very difficult. However, the greatest care was exercised and especially so as the Sat. began to disappear close to limb. Nevertheless,

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with all the care exercised the last two or three settings are considered somewhat uncertain

B. 394

11 6 0.0
11 7 0.0

Fr 3451

11 6 54.3
11 7 54.5

Dis. Jup. II Phot R. (one prism removed) W. L. R. Rec. compared with nearer of two stars on foll. side = Sat. IV.

16	17	48	✓	11	17	22	101.3	✓	169.5	
		-56	✓		"	41	102.7	✓	270.8	1
16	16	✓			"	58	102.0	✓	168.8	
					18	13			271.5	
					"	35	101.5	✓	171.0	
16	19	14	✓		19	6	103.7	✓	272.5	✓
		-56	✓		"	23	102.6	✓	169.8	
16	12	12	✓		"	54			273.5	
					29	23	102.6	✓	168.2	
16	29	43	✓		"	34	102.4	✓	270.8	3
		-52	✓				102.7	✓		
16	24	45	✓					-0.5		

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	11	29	50		170.2	
	11	30	5		273.0	
		"	26	105.4	168.1	
16 30 52. ✓		"	50	105.0	273.5	✓
-52. ✓		31	6	105.2	169.1	
16 30 52. ✓		"	28		274.1	
		34	12	105.0	170.0	
16 34 32. ✓		"	29	106.0	275.0	✓
-59. ✓		"	48	105.5	169.0	
16 33 39. ✓	11	35	5		275.0	
		"	27	105.9	170.1	
16 35 53. ✓		"	44	107.2	276.0	6
-59. ✓		36	1	106.6	168.8	
16 34 54. ✓		"	19		276.0	
		37	30	103.3	170.9	
16 37 56. ✓		"	46	104.6	274.2	
-59. ✓		38	5	104.0	168.8	7
16 36 57. ✓		"	23		273.4	
	11	40	3	107.0	168.0	
16 40 37. ✓		"	32	107.4	275.0	
-60. ✓		"	48	107.2	169.1	8
16 39 37. ✓		41	5		276.5	
		"	27	109.0	167.0	
16 42 9. ✓		42	2	104.7	276.0	9
-60. ✓		"	21	104.4	168.8	
16 41 9. ✓		"	47		277.5	
		43	5	104.0	167.7	
				104.2		
				106.1	-0.6	

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16	43	33 [✓]	11	43	25		2767	
		-60 [✓]		"	43		168.9	10
16	42	33 [✓]		"	59		273.1	
				44	17	107.0 [✓]	168.0	
16	44	42 [✓]		"	33	109.6 [✓]	275.0	11
		-60 [✓]		"	48	108.3 [✓]	167.9	
16	43	42 [✓]	11	45	8		277.5	
				"	24	101.0 [✓]	172.0	
16	45	49 [✓]		"	38	102.2 [✓]	273.0	
		-61 [✓]		"	57	101.6 [✓]	173.5	12
16	44	42 [✓]		46	16		275.7	
16	45	42 [✓]		"	43	102.5 [✓]	170.0	
16	45	52 [✓]		"	59	95.5 [✓]	272.5	
16	46	16 [✓]		47	17	29.9 [✓]	177.0	
16	46	40 [✓]		"	41	25.9 [✓]	266.9	
16	46	56 [✓]		"	57	22.5 [✓]	181.0	
16	47	10 [✓]		48	11	79.2 [✓]	263.5	
16	47	42 [✓]		"	43	76.7 [✓]	184.3	
16	42	0 [✓]		49	1	72.5 [✓]	261.0	
16	42	23 [✓]		"	24	71.5 [✓]	188.5	
16	42	51 [✓]		"	52		260.0	
16	42	59 [✓]	11	50	0		Not seen later	

Limit of Visibility

16	50	53 [✓]	11	50	33	75.5 [✓]	185.7	
		-1 [✓]		50	52	73.0 [✓]	261.2	
16	49	52 [✓]	11	51	0	74.2 [✓]	187.1	
				51	8		260.1	

Mar 25, 1910

Sat. II disappeared very close to limb of Jupiter
(almost in contact), seeing more or less blurry
especially near the limb, observations difficult
especially during variation, last two settings
somewhat uncertain.

B	394		Fr	3451	
11	57	0.0	11	58	2.5
11	58.	0.0	11	59.	2.6

L. P. P.

Mar. 26, 1910 (Saturday).

R. X. Cassiop

2	17	+66.8
9	4.4	W. lbo Rone Rec. Plot 7
7	27	Full Aperture

Index Lta

356.2 ← Comp Star Lta
 74.0 77.2^v
 187.0
 242.0 $\frac{77.0}{132.0}$ ^v +0.92^v

7.7 52.4^v +0.92^v
 -60.1
 177.2 $\frac{75.2}{127.6}$ ^v +1.03^v
 252.4

Index R+B

278.2 50.4^v
 328.6
 86.6 $\frac{73.7}{124.1}$ ^v +1.10^v
 160.3

264.8 73.5^v +1.10^v
 338.3
 98.1 50.6^v
 148.7 $\frac{72.1}{124.1}$ ^v +1.10^v
 mean +1.04^v

9 25 50
 45 40.^v
 9 22 50.^v
 +5 +11.^v
 14 23 1.^v
 2757.5993^v

$1\frac{25}{100}$ group rejected. See p. 32 beyond this.

Mar. 26, 1910

Same Again Π
Index R+B A.

9 32 20

278.8		
328.4	49.6 ^v	
87.6	<u>71.6^v</u>	
159.2	121.2 ^v	+1.17 ^v

265.1		
339.3	74.2 ^v	+1.15 ^v
99.6	<u>42.2^v</u>	
148.4	123.0 ^v	+1.13 ^v

Index L+A B.

177.0		
248.2	71.2 ^v	
80	<u>50.0^v</u>	
58.0	121.2 ^v	+1.17 ^v

187.0	51.2 ^v	+1.17
238.2		
357.1	<u>70.0^v</u>	
67.1	121.2 ^v	+1.17 ^v

Mean +1.16^v

9	39	15
	<u>71</u>	35 ^v
9	35	40 ^v
+5		+11 ^v
14	35	59 ^v
		2957.6023 ^v

Mar. 26, 1910.

Same Again. $\frac{III}{B.}$
Index Lt A.

9 42 20

176.3

250.4

8.4

58.4

74.1^v

$\frac{50.0}{124.1}$ ^v

+1.10^v

189.0

239.6

357.6

69.3

50.6^v

+1.12^v

$\frac{71.7}{122.3}$ ^v

+1.14^v

Index Rt B. A.

87.2

157.5

277.6

327.3

70.3^v

$\frac{49.7}{120.0}$ ^v

+1.19^v

98.8

148.0

266.8

338.5

49.2^v

+1.12^v

$\frac{71.7}{120.9}$ ^v

+1.12^v

mean +1.15^v

9 48 0
90 20.^v
9 45 10.^v
+5 +11.^v
14 45 21.^v
2757.6149^v

1910phae.proj. 601V

Mar. 26, 1910.

Same Again. TV
Index R+B. A.

9 56 15

86.6
158.0 71.4^v
277.9
328.0 $\frac{50.1}{12 \ 1.5^v} + 1.16^v$

98.8 42.9^v +1.17^v
147.7
267.0 71.2^v
338.8 $\frac{71.2}{12 \ 0.7^v} + 1.12^v$

Index L+A B.

356.8
68.6 71.2^v
189.4 42.6^v
238.0 $\frac{42.6}{12 \ 0.4^v} + 1.12^v$

7.8 49.6^v +1.16^v
57.4
176.3 73.0^v
249.3 $\frac{73.0}{12 \ 2.6^v} + 1.14^v$

10 1 50
112 5^v
9 59 2^v
+5 +11. P.A. 31.5
14 59 13^v

mean +1.16^v

Reject first group. The clouds were just clearing off and more or less clouds was in the air.

Mar. 26. 1910.

u Hercules

17	12
10	38
<u>6</u>	<u>34</u>
5	26

+33.2

W Obs. Roue Bee Plot T.

9.5 in cap. used.

Index Right A. I

11.6

← Var. Abs

58.7

47.1

195.5

229.9

 $\frac{34.4}{21.5}$

-2.1

17.4

49.0

187.0

236.4

 $\frac{49.4}{21.0}$

-2.17

Index Left. B.

272.7

329.6

105.8

140.2

56.9

 $\frac{34.4}{91.3}$

-1.22

286.0

320.3

96.0

150.4

34.3

 $\frac{54.4}{22.7}$

-1.92

-1.95

mean -2.04

11	11	5
<u>15</u>	<u>55</u>	<u>5</u>
11	7	52
+5		+11
<u>16</u>	<u>2</u>	<u>9</u>
2757.67	23	

Mar. 26, 1910

Same Again II
Index Left B.273.6 $\sqrt{9.3}^{\circ}$

332.9

105.9

141.7 $\frac{35.2}{95.1}^{\circ} - 1.72^{\circ}$

284.6

320.5

96.6

150.9 $\frac{34.3}{90.2}^{\circ} - 1.91^{\circ}$

Index Right A.

187.8

238.5

17.8

47.5 $\frac{29.7}{20.4}^{\circ} - 2.12^{\circ}$

198.7

228.1

73

57.6 $\frac{50.3}{79.7}^{\circ} - 2.20^{\circ}$ mean = 2.02 $^{\circ}$

11 18 10

11 24 50

43 0. $^{\circ}$ 11 21 30. $^{\circ}$ +5 +11. $^{\circ}$ 16 21 41. $^{\circ}$ 2757.6217 $^{\circ}$

Mar 26, 1910

Same Again III
Index Right A.188.4
236.0 47.6^v17.9
48.9 $\frac{31.0}{72.6}^v$ -2.24^v199.6
228.4 22.2^v -2.26^v9.0
57.6 $\frac{42.6}{77.4}^v$ -2.27^v

Index Left. B.

97.2
148.5 51.3^v285.2
320.2 $\frac{35.0}{26.3}^v$ -2.01^v106.9
141.1 34.2^v -2.00^v276.0
329.5 $\frac{53.5}{27.7}^v$ -1.92^vMean -2.13^v

11	36	5
<hr/>		
	6	30. ^v
11	32	45. ^v
+5		+11. ^v
<hr/>		
16	32	56. ^v
2757.6895+		

Mar 26, 1910

Same Again $\frac{1}{2}$
Index Left. B.

11 42 10

$$\begin{array}{r}
 97.7 \\
 150.8 \\
 286.8 \\
 321.0 \\
 \hline
 34.2 \\
 27.3
 \end{array}
 \begin{array}{l}
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark
 \end{array}
 \begin{array}{l}
 \sqrt{3.1} \checkmark \\
 \\
 \\
 -1.99 \checkmark
 \end{array}$$

$$\begin{array}{r}
 106.0 \\
 140.3 \\
 275.4 \\
 330.2 \\
 \hline
 34.3 \\
 29.1
 \end{array}
 \begin{array}{l}
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark
 \end{array}
 \begin{array}{l}
 \\
 -1.96 \checkmark \\
 \\
 -1.94 \checkmark
 \end{array}$$

Index Right. A.

$$\begin{array}{r}
 6.8 \\
 57.8 \\
 198.0 \\
 227.8 \\
 \hline
 29.2 \\
 20.2
 \end{array}
 \begin{array}{l}
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark
 \end{array}
 \begin{array}{l}
 \sqrt{1.0} \checkmark \\
 \\
 \\
 -2.17 \checkmark
 \end{array}$$

$$\begin{array}{r}
 18.0 \\
 49.0 \\
 186.7 \\
 239.2 \\
 \hline
 31.0 \\
 23.5 \\
 23.5
 \end{array}
 \begin{array}{l}
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark \\
 \checkmark
 \end{array}
 \begin{array}{l}
 \\
 -2.13 \checkmark \\
 \\
 -2.09 \checkmark
 \end{array}$$

mean - 2.04

$$\begin{array}{r}
 11 \ 49 \ 25 \\
 \hline
 91 \ 35. \checkmark \\
 11 \ 45 \ 40. \checkmark \\
 +5 \quad +11. \checkmark \\
 \hline
 16 \ 45 \ 59. \checkmark \\
 2757.6926 \checkmark
 \end{array}$$

Mar 26, 1910.

Same Again. $\frac{V}{A}$
Index Right.

11 54 0

$$\begin{array}{r} 7.2 \\ 58.5 \quad \sqrt{1.3}^{\vee} \\ 196.6 \\ 228.5 \quad \frac{31.9}{23.2}^{\vee} \quad -2.10^{\vee} \end{array}$$

$$\begin{array}{r} 16.9 \\ 51.2 \quad 34.3^{\vee} \quad -2.11^{\vee} \\ 189.5 \\ 237.7 \quad \frac{42.2}{22.5}^{\vee} \quad -2.12^{\vee} \end{array}$$

Index Left. B.

$$\begin{array}{r} 278.2 \\ 330.5 \quad \sqrt{2.3}^{\vee} \\ 105.5 \\ 141.3 \quad \frac{35.2}{22.1}^{\vee} \quad -1.96^{\vee} \end{array}$$

$$\begin{array}{r} 283.8 \\ 321.6 \quad 37.2^{\vee} \quad -1.90^{\vee} \\ 95.4 \\ 150.2 \quad \frac{54.2}{92.6}^{\vee} \quad -1.24^{\vee} \end{array}$$

$$\begin{array}{r} 12 \quad 1 \quad 0 \\ \hline 11 \quad 11.5 \quad 0.5^{\vee} \\ + \quad \sqrt{7} \quad 30.5^{\vee} \\ +5 \quad +11.5^{\vee} \\ \hline +6 \quad 57 \quad 41.5^{\vee} \\ 27 \quad 7.7067^{\vee} \end{array}$$

A 133.8 Termis B

mean -2.00^{\vee}

L. A. A.

W's watch used for times.
Watch 11 sec. slow.

Mar. 29. 1910. (Tuesday).

7 10

A few stars visible. (Some twilight).

7 20

Sky a little clearer.

R X Cassiope.

2	17	+66.8
4	10	
<hr/>		
+8	+3	

More cloudy.

Clouds thick.

April 1, 1910 (Friday).

Z. Persei

2	33
8	23
5	50

+42.1

W Obs. Roue Rec. Phot T

Index L+A B.

287.2 ← comp star dis

320.4 33.2^v

115.0

231.8 $\frac{16.2}{\sqrt{0.0}}$ ^v +3.27^v

292.4

20.6^v

+3.22^v

313.0

168.6

140.3 $\frac{31.7}{\sqrt{2.3}}$ ^v +3.17^v

Index A+B A.

199.9

27.6^v

227.5

24.7

42.6

$\frac{17.9}{45.5}$ ^v +3.44^v

206.6

16.7^v

+3.45^v

223.3

19.0

49.0 $\frac{30.0}{46.7}$ ^v +3.42^v

Mean +3.34^v

7 37 40

7 41 15

7 45 20

7	51	0
<hr/>		
17	5	15 ^v
7	43	49 ^v
+5		+2 ^v
<hr/>		
12	44	1 ^v
<hr/>		
2763.	5306 ^v	

April 1, 1910

Same Again II
Index R+B A.

7 54 35

$$\begin{array}{r}
 198.5 \\
 228.1 \\
 25.8 \\
 42.2 \\
 \hline
 46.0
 \end{array}
 \begin{array}{r}
 29.6'' \\
 \\
 16.4'' \\
 \\
 \hline
 46.0''
 \end{array}
 + 3.46''$$

8 0 0

$$\begin{array}{r}
 202.2 \\
 219.8 \\
 17.3 \\
 48.9 \\
 \hline
 49.2
 \end{array}
 \begin{array}{r}
 17.6'' \\
 \\
 31.6'' \\
 \\
 \hline
 49.2''
 \end{array}
 + 3.31''$$

Index L+Q B.

8 4 55

$$\begin{array}{r}
 104.2 \\
 137.9 \\
 295.4 \\
 310.6 \\
 \hline
 40.9
 \end{array}
 \begin{array}{r}
 33.7'' \\
 \\
 15.2'' \\
 \\
 \hline
 40.9''
 \end{array}
 + 3.32''$$

8 8 5

$$\begin{array}{r}
 111.4 \\
 136.6 \\
 285.1 \\
 320.6 \\
 \hline
 60.7
 \end{array}
 \begin{array}{r}
 25.2'' \\
 \\
 35.5'' \\
 \\
 \hline
 60.7''
 \end{array}
 + 3.00''$$

$$\begin{array}{r}
 7 \quad 35'' \\
 1 \quad 54'' \\
 +5 \quad +12'' \\
 \hline
 13 \quad 2 \quad 6''
 \end{array}$$

$$\begin{array}{r}
 285.1 \\
 320.6 \\
 \hline
 60.7
 \end{array}
 + 2.24''$$

mean +3.23''

$$8763.5432''$$

April 1, 1910

Same Again \overline{III}
Index Ltd B.

8 13 45

$$\begin{array}{r}
 107.8 \\
 139.8 \quad 32.0^{\checkmark} \\
 292.2 \\
 314.8 \quad \frac{22.6^{\checkmark}}{\sqrt{4.6^{\checkmark}}} + 3.07^{\checkmark}
 \end{array}$$

8 17 10

$$\begin{array}{r}
 113.4 \\
 133.8 \quad 20.4^{\checkmark} \quad + 3.04^{\checkmark} \\
 286.8 \\
 322.8 \quad \frac{36.0^{\checkmark}}{\sqrt{6.4^{\checkmark}}} + 3.00^{\checkmark}
 \end{array}$$

Index A+B A.

8 20 40

$$\begin{array}{r}
 17.4 \\
 52.1 \quad 34.7^{\checkmark} \\
 205.7 \\
 223.9 \quad \frac{18.2^{\checkmark}}{\sqrt{2.9^{\checkmark}}} + 3.14^{\checkmark}
 \end{array}$$

$$\begin{array}{r}
 8. \quad 27 \quad 35 \\
 \hline
 79. \quad 10^{\checkmark} \\
 2 \quad 19 \quad 42.^{\checkmark} \\
 + \quad + 12.^{\checkmark} \\
 \hline
 13 \quad 20 \quad 0.^{\checkmark} \\
 2763.5556^{\checkmark}
 \end{array}$$

$$\begin{array}{r}
 21.6 \\
 43.0 \quad 21.4^{\checkmark} \quad + 3.10^{\checkmark} \\
 198.2 \\
 228.1 \quad \frac{29.9^{\checkmark}}{\sqrt{1.3^{\checkmark}}} + 3.22^{\checkmark} \\
 \text{mean} + 3.11^{\checkmark}
 \end{array}$$

April 1. 1910.

Sayre Agassiz TK
Index RtB

16.7

49.0

8 32 50

P. H. 199 Kemur B

April 1, 1910.

R. X. Cassiope.

2	17
9	47
7	30

W. Abs. Power Rec. Phot T

9.5 in cap. used

Index Lt A B.

73.2	← Comp Star Dis
251.8	78.6 ✓
9.0	50.9 ✓
59.9	129.3 ✓ +0.99 ✓

186.9	54.6 ✓	+0.98 ✓
241.5	76.1 ✓	
355.4	130.7 ✓	+0.96 ✓
71.5		

Index Rt B. A.

85.0	77.9 ✓
162.9	53.4 ✓
275.0	131.3 ✓ +0.95 ✓
328.4	

+0.96 ✓

96.6	52.5 ✓
149.1	78.3 ✓
263.8	130.8 ✓ +0.96 ✓
342.1	

Mean +0.97 ✓

9	16	40
	26	✓✓ ✓
9	13	22. ✓
+5		+12. ✓
14	13	40 ✓
2763.5929		✓

April 1, 1910.

Same Again Π
Index Rt B A.

9 23 0

85.1	76.1 [✓]	
161.2	53.7 [✓]	
274.9	129.8 [✓]	+0.98 [✓]
328.6		

+0.94[✓]

97.2	55.7 [✓]	
152.9	78.5 [✓]	
263.5	134.2 [✓]	+0.89 [✓]
342.0		

Index Lt A B.

355.9	76.4 [✓]	
723	51.0 [✓]	
1863	127.4 [✓]	+1.03 [✓]
2373		

+0.94[✓]

76	54.2 [✓]	
61.8	81.9 [✓]	
171.6	136.1 [✓]	+0.85 [✓]
253.5		

9	30	20	
	53	20.	✓
9	26	40.	✓
15		+12.	✓
	14	26	✓
		52.	✓
	2763.	6020	✓

Mean +0.94[✓]

April 1, 1910

Same Again ^{III}
Index Lt A B.

9 35 45

354.5	77.3 [✓]	
71.8	54.1 [✓]	
185.8	131.4 [✓]	+0.95 [✓]
239.9		

+0.90[✓]

7.4	54.1 [✓]	
61.5	82.3 [✓]	
173.2	136.4 [✓]	+0.85 [✓]
255.5		

Index Rt B. A.

265.0	77.0 [✓]	
342.0	52.5 [✓]	
96.0	129.5 [✓]	+0.99 [✓]
148.5		

+0.94[✓]

9. 42 45

72 30. [✓]

9 39 15. [✓]

45 +12. [✓]

14 39 27. [✓]

2763.6107

276.0	56.0 [✓]	
332.0	77.9 [✓]	
84.7	133.9 [✓]	+0.90 [✓]
162.6		

Mean +0.92[✓]

April 1, 1910

Same Again. IV

Index R+B A.

9 46 0

261.3	80.2 [✓]	
341.5	<u>53.5[✓]</u>	
96.4	133.7 [✓]	+0.90 [✓]
149.9		

276.8	54.7 [✓]	+0.86 [✓]
331.5	<u>82.5[✓]</u>	
83.0	137.2 [✓]	+0.83 [✓]
165.5		

Index Lta. B.

176.0	75.4 [✓]	
251.4	<u>51.9[✓]</u>	
5.9	127.3 [✓]	+1.04 [✓]
57.8		

+1.00[✓]

187.0	54.5 [✓]	
241.5	<u>76.8[✓]</u>	
355.2	131.3 [✓]	+0.95 [✓]
72.0		

mean +0.93[✓]

9	52	10
9	4	10.0 [✓]
9	4	9.5 [✓]
45		+12.0 [✓]
14	4	9.17 [✓]
2763.6	176	

April 1, 1910.

Same Again \overline{V}
Index L+A B.

9 56 20

174.3	76.4 ✓	
250.7	49.9 ✓	
7.3	126.3 ✓	+1.06 ✓
57.2		

+0.98 ✓

187.5	53.0 ✓	
240.5	80.9 ✓	
353.2	133.9 ✓	+0.90 ✓
74.1		

Index R+B A.

85.0	77.8 ✓	
162.8	56.4 ✓	
275.1	134.2 ✓	+0.89 ✓
331.5		

+0.89 ✓

10	3	30
	119	50. ✓
9	59	55. ✓
+5		+12. ✓

98.2	53.8 ✓	
152.0	80.4 ✓	
261.5	134.2 ✓	+0.89 ✓
341.9		

15	0	7.P.A. 211.8	Yermier B
2763.62	51		

Mean +0.94 ✓

W's watch used for times
 Watch 12 sec slow.

L. P. A.

April 2, 1910 (Saturday).

R.I. Cassiop.

2	17
8	47
6	30

+66.8

W. Obs. Roue Rev. Phot T

9.5 in cap. used

Index L+A B.

176.5 ← Comp Star Dis

252.3 75.8 ✓

8.6 52.0 ✓

60.6 127.8 ✓ +1.03 ✓

188.6 49.6 ✓ +1.04 ✓

238.2 77.4 ✓

354.8 127.0 ✓ +1.04 ✓

72.2

Index R+B A.

83.0 80.2 ✓

163.2 53.5 ✓

275.5 133.7 ✓ +0.90 ✓

329.0

+0.92 ✓

98.1 50.9 ✓

149.0 81.2 ✓

260.8 132.1 ✓ +0.94 ✓

342.0

Mean +0.98 ✓

8 4 50

3 5. ✓

A 1 32. ✓

+5 -16. ✓

13 1 14. ✓

2764.5425 + ✓

April 2, 1910.

Same Again.
Index R+B.II
A.

8 10 15

84.2	77.8 [✓]
162.0	51.2 [✓]
277.0	129.8 [✓] +1.00 [✓]
328.2	

+0.90[✓]

98.2	53.7 [✓]
151.9	84.6 [✓]
258.2	138.3 [✓] +0.81 [✓]
342.8	

Index L+A B.

354.2	79.8 [✓]
74.0	53.5 [✓]
186.6	133.3 [✓] +0.91 [✓]
240.1	

+0.92[✓]

8	15	35
<hr/>		
25	50	[✓]
2	12	55 [✓]
+5	-14	[✓]
<hr/>		
13	12	41 [✓]
2764.5505 [✓]		

6.9	53.7 [✓]
60.6	78.4 [✓]
173.5	132.1 [✓] +0.94 [✓]
251.9	

Mean +0.91[✓]

April 2, 1910.

Same Again III
Index L+A. A.

353.6	78.3 [✓]	
71.9	<u>49.2[✓]</u>	
188.8	127.5 [✓]	+1.03 [✓]
238.0		

+1.00[✓]

8.2	51.6 [✓]	
59.8	<u>78.9[✓]</u>	
173.1	130.5 [✓]	+0.97 [✓]
252.0		

Index R+B A.

262.0	79.8 [✓]	
341.8	<u>57.0[✓]</u>	
95.9	136.8 [✓]	+0.84 [✓]
152.9		

+0.90[✓]

8	25	45
<u>45</u>	<u>45</u>	[✓]
2	22	52 [✓]
<u>45</u>	<u>-14</u>	[✓]

274.4	53.2 [✓]	
327.6	<u>77.7[✓]</u>	
84.5	130.9 [✓]	+0.96 [✓]
162.2		

13 22 32, P. A. 212.0 Term. B

Mean +0.95[✓]2764.5573[✓]

April 2, 1910.

R. Z. Cassiope.

2	36
9	40
7	4

+69.0
W Obs. Ross Rec. Phot T.
9.5 in cap. used.

Index Lt & B.

8	55	30	190.6	Var. Obs
			236.8	46.2 ✓
			20.0	27.1 ✓
			47.1	73.3 ✓ -2.40 ✓

8	57	40	198.1	31.0 ✓	-2.38 ✓
			229.1	43.9 ✓	
			11.5	74.9 ✓	-2.35 ✓
			55.4		

Index Rt & B A.

9	0	15	97.5	50.3 ✓
			147.8	32.0 ✓
			285.4	82.3 ✓ -2.13 ✓
			317.4	

-2.10 ✓

9	2	20	107.6	33.2 ✓
			140.8	50.6 ✓
			277.0	83.8 ✓ -2.08 ✓
			327.6	

Mean -2.24 ✓

9	2	20
23 ✓	45 ✓	
A	52	56. ✓
+5		-14. ✓
13	52	42. ✓
2764.	52	24 ✓

April 2, 1910.

Same Again II
Index B. + B. A.

9 13 35

99.2	49.5 [✓]	
148.7	31.8 [✓]	
286.0	81.3 [✓]	-2.16 [✓]
317.8		

-2.09[✓]

9 16 0

106.9	32.4 [✓]	
139.3	53.7 [✓]	
275.4	86.1 [✓]	-2.02 [✓]
329.1		

Index L + A. B.

9 18 20

6.0	54.3 [✓]	
60.3	33.0 [✓]	
197.4	87.3 [✓]	-1.99 [✓]
230.4		

-2.02[✓]

9	19	50
<hr/>		
67	45.	[✓]
9	16	56. [✓]
45	-14.	[✓]
<hr/>		
14	16	42. [✓]
<hr/>		
2764.	5949	[✓]

16.8	33.7 [✓]	
50.5	51.8 [✓]	
186.2	85.5 [✓]	-2.04 [✓]
238.0		

Mean -2.06[✓]

April 2, 1910.

Same Again III
Indus L & A B.

9 25 55

5.4	55.7	✓
61.1	35.1	✓
196.3	90.8	✓ -1.89 ✓
231.4		

-1.89 ✓

9 27 50

15.7	35.7	✓
51.4	55.1	✓
185.3	90.8	✓ -1.89 ✓
240.4		

Indus R & B A.

9 30 35

270.0	61.2	✓
331.2	36.5	✓
105.0	97.7	✓ -1.71 ✓
141.5		

-1.68 ✓

9 33 5

117	25.	✓
9 29	21.	✓
+5	-14.	✓
14 29	7.	✓
2764.6036		✓

283.8	38.8	✓
322.6	61.8	✓
92.6	99.8	✓ -1.66 ✓
153.6		

mean -1.78 ✓

April 2, 1910

Same Again \overline{TV}
Index P+B. \overline{A}

9 40 45

268.0	64.1 ✓
332.1	38.3 ✓
103.9	102.4 ✓ - 1.60 ✓
142.2	

-1.56 ✓

9 42 50

282.4	40.4 ✓
322.8	65.6 ✓
90.4	106.0 ✓ - 1.51 ✓
156.0	

Index L+a. B.

9 45 35

182.5	61.4 ✓
243.9	39.7 ✓
12.5	101.1 ✓ - 1.63 ✓
52.2	

-1.58 ✓

9 47 30

192.6	42.3 ✓
234.9	63.3 ✓
0.5	105.6 ✓ - 1.52 ✓
63.8	

Mean -1.57 ✓

16	40. ✓
9	44 10. ✓
2764	
107	-14. ✓
14	43 56. ✓

2764.6132 ✓

April 2, 1910.

Same Again \overline{V}
Index L & A B.

9 57 45

180.8 65.6^v246.4 42.4^v11.7 108.0^v - 1.46^v

54.1

10 0 15

192.1 42.2^v - 1.48^v234.3 64.7^v359.7 106.7^v - 1.49^v

64.4

Index B & B. A.

10 4 20

88.8 70.2^v159.0 45.5^v280.0 115.7^v - 1.29^v

325.5

- 1.30^v

70 6 30

101.2 43.4^v144.6 71.1^v266.1 114.5^v - 1.31^v

337.2

70	6	30
	2	50.0 ^v
10	2	12.0 ^v
45		-14.0 ^v

15 1 52.0^v P. A 208.2 Versus BMean - 1.39^v2764.6264^v

W's watch used for times
Watch 18 sec fast

L. P. P.

April 5, 1910 (Tuesday).

R. X. Cassiope

2 17
8 50
6 33

+66.8
W. Obs. Pour Rec. Phot T.

9.5 in cap. used.

Index L + A. B. I.

174.8 ← Comp Star Dis

248.1 73.3^v

6.8

60.2 $\frac{73.4^v}{126.7^v} + 1.05^v$

187.9

42.2^v

+1.04^v

236.1

350.2

69.2 $\frac{79.0^v}{127.2^v} + 1.04^v$

Index R + B. A.

82.0

161.9 79.9^v

276.8

329.1 $\frac{72.3^v}{132.2^v} + 0.93^v$

94.5

54.5^v

+0.94^v

149.0

263.0

340.0 $\frac{77.0^v}{131.5^v} + 0.95^v$

Mean +0.99^v

7 54 40
102 50.5^v

7 51 25.5^v

+5 -5.5^v

12 51 20.5^v

2767.5356^v

April 5, 1910.

Same Again II
Index A + B. A.

8 18 10

$$\begin{array}{r}
 84.1 \\
 161.7 \\
 275.8 \\
 328.8 \\
 \hline
 53.0 \\
 130.6 \\
 \hline
 +0.97
 \end{array}$$

$$\begin{array}{r}
 96.2 \\
 147.3 \\
 262.6 \\
 339.7 \\
 \hline
 77.1 \\
 120.2 \\
 \hline
 +1.02
 \end{array}$$

Index L + A. B.

$$\begin{array}{r}
 354.5 \\
 71.0 \\
 185.1 \\
 238.8 \\
 \hline
 76.5 \\
 53.7 \\
 130.2 \\
 \hline
 +0.97
 \end{array}$$

$$\begin{array}{r}
 6.3 \\
 53.3 \\
 174.9 \\
 249.2 \\
 \hline
 47.0 \\
 74.3 \\
 121.3 \\
 \hline
 +1.16
 \end{array}$$

Mean +1.03

$$\begin{array}{r}
 8 \quad 27 \quad 25 \\
 \hline
 45 \quad 35 \\
 A \quad 22 \quad 42 \\
 +5 \quad -5 \\
 \hline
 13 \quad 22 \quad 43 \\
 2767.5574
 \end{array}$$

April 5, 1910.

Same Again ^{III}
Index L+A B.

8 34 30

352.5
70.6 72.1[✓]

189.9
234.8 $\frac{44.9}{123.0}$ [✓] +1.13[✓]

9.8
60.0 50.2[✓] +1.09[✓]

173.4
249.6 $\frac{76.2}{126.4}$ [✓] +1.05[✓]

Index R+B. A.

261.2
339.4 72.2[✓]

96.3
148.8 $\frac{52.5}{130.7}$ [✓] +0.96[✓]

276.4
328.2 51.2[✓] +0.92[✓]

82.6
159.9 $\frac{77.3}{129.1}$ [✓] +1.00[✓]

8 41 20
75 50.1[✓]
2 37 55.1[✓]
+5 -5.1[✓]

13 37 50.1[✓] 211.5 Vermier B
2767.5620[✓]

mean +1.04[✓]

April 5, 1910

Suspected Variable near α Cephei.

0	50	+81.2
10	5	W. Obs. Ross Rec. Phot T
9	15	9.5 in. cap. used

Index L+A B. I

170.2 ← Susp. Var. Dis.

254.8 24.6 ✓

4.2

$$61.3 \frac{57.1}{141.7} \checkmark - 0.74 \checkmark$$

183.2

241.9 52.7 ✓ -0.62 ✓

346.2

$$75.6 \frac{29.4}{142.1} \checkmark - 0.61 \checkmark$$

Index R+B A.

73.8

170.2 96.4 ✓

271.0

$$333.5 \frac{62.5}{152.9} \checkmark - 0.40 \checkmark$$

93.3

153.1 59.2 ✓ -0.46 ✓

255.1

$$348.7 \frac{93.6}{153.4} \checkmark - 0.51 \checkmark$$

9	7	10
	2	20. ✓
9	4	10. ✓
+5		-5. ✓
14	4	5. ✓
2767.5	262	

P. A. 162.3 Vernier B.

Mean -0.57 ✓

April 5, 1910.

E Aurigae

4 52
10 37
5 45

+ 43.6

W. Obs. Room Rec. Phot T.

7 in cap. used

Index L + A B. I \

9 32 20

22.9 ← Var. Obs.
45.5 - 22.6 ✓
205.6
218.1 $\frac{12.5}{35.1}$ ✓ - 4.06 ✓

26.4 13.4 ✓ - 4.04 ✓
39.8
199.8
222.2 $\frac{22.4}{35.2}$ ✓ - 4.01 ✓

Index R + B A.

288.0 22.2 ✓
316.8
115.6
129.5 $\frac{13.9}{42.7}$ ✓ - 3.62 ✓

294.6 15.9 ✓ - 3.61 ✓
310.5
109.0
136.2 $\frac{27.2}{43.1}$ ✓ - 3.60 ✓

Mean - 3.62 ✓

9 40 0
72 20. ✓
9 36 10. ✓
45 - ✓
14 36 ✓
2767.6024 ✓

April 5, 1910.

Same Again II
Index R+B A

9 41 55

$$\begin{array}{r}
 288.7 \\
 317.7 \quad 29.0^{\vee} \\
 115.2 \\
 129.4 \quad \frac{14.2^{\vee}}{43.2^{\vee}} - 3.60^{\vee}
 \end{array}$$

$$\begin{array}{r}
 294.3 \quad 16.2^{\vee} \quad -3.62^{\vee} \\
 310.5 \\
 109.0 \quad 26.3^{\vee} \\
 135.3 \quad \frac{42.5^{\vee}}{42.5^{\vee}} - 3.63^{\vee}
 \end{array}$$

Index L+a. B.

$$\begin{array}{r}
 200.4 \quad 22.4^{\vee} \\
 222.8 \\
 26.4 \quad 12.1^{\vee} \\
 38.5 \quad \frac{34.5^{\vee}}{34.5^{\vee}} - 4.10^{\vee}
 \end{array}$$

$$\begin{array}{r}
 205.6 \quad 13.1^{\vee} \quad -4.10^{\vee} \\
 218.7 \\
 22.3 \quad 21.5^{\vee} \\
 43.8 \quad \frac{34.6^{\vee}}{34.6^{\vee}} - 4.09^{\vee}
 \end{array}$$

$$\begin{array}{r}
 9 \quad 49 \quad 45 \\
 \hline
 91 \quad 40. \\
 9 \quad 45 \quad 50. \\
 +5 \quad -5.
 \end{array}$$

$$\begin{array}{r}
 14 \quad 45 \quad 45. \quad P.A. \quad 357.1 \quad \text{Venus B} \\
 2767.6152^{\vee}
 \end{array}$$

$$\begin{array}{r}
 \text{Mean} \quad -3.26^{\vee} \\
 \text{Gen.} \quad " \quad -3.24^{\vee}
 \end{array}$$

1910phae.proj...601W

April 5, 1910

Double Star (New list) = Birnham's Cat 2451.

4 52
11 27
6 35

+62.9
W. Ols Rou. Rec. Phot. C. (one prism removed)
P.A. 212° Dist 32 Mags.
Index R+B A.

357.0 ← North, Foll. B. & B. Dis.

84.1 27.1[✓]

184.0

255.5 $\frac{71.5}{152.6}$ [✓] 0.41[✓]

5.4

62.2[✓]

0.37[✓]

74.2

174.4

268.0 $\frac{93.6}{162.4}$ [✓] 0.33[✓]

Index L+A B.

264.0

356.9 92.9[✓]

96.0

165.2 $\frac{69.2}{162.1}$ [✓] 0.34[✓]

276.5

70.5[✓]

0.32[✓]

347.0

84.1

177.8 $\frac{93.7}{164.2}$ [✓] 0.30[✓]

mean 0.34[✓]

10 28 30

50 35[✓]

10 25 12[✓]

+5 5[✓]

15 25 13[✓]

2767.6425+

W's watch used for times
Watch 5 secs fast.

L. P. P.

April 7, 1910 (Thursday)

R.I. Cassiope

2 17
9 52
7 3 5

+66.8
20 Obs Rour Rec Phot 7
Full Aperture Used.

Index Lta B.

178.4 = 65.5

246.5 68.1^v

9.7 47.6^v

56.7 115.1^v +1.30^v

187.7 50.0^v

+1.22^v

237.7 71.9^v

355.4 121.9^v +1.15^v

67.3

Index Rst B A.

87.5 69.5^v

157.0 49.1^v

278.1 118.6^v +1.22^v

327.2

+1.23^v

97.9 49.9^v

147.8 67.9^v

266.4 117.8^v +1.24^v

334.3

Mean +1.22^v

8 43 55
20 40^v
2 40 20^v
+5 -5^v
13 40 15^v
2769.5695+

April 7, 1910

Observations taken through a little thin cloud but the cloud was not particularly abundant and great care was exercised so that observations were considered good.

Clouds came up preventing setting of images for position angle but region thoroughly identified.

W's watch used for times.
Watch 5 sec fast.

L. P. P.

Apr. 9. 1910. (Saturday.)

A X Cassiope.

2	17
10	51
<hr/>	
+2	34

+66.4

Apr. 10. 1910. (Sunday)

Reap. Jup. I, Phot. R. (one fr. removed)
 W. obs. W. rec. Compared with only sat (before Ecl.)
 on fol. side = Sat. III.

W's watch 5 seco. fast.

15 29 40 ^r 10	29 45	19 5.0	57.5 ^r	+1.3 ^r
30 27 ^r	30 32	26 2.5	70.0 ^r	+0.8 ^r
31 17 ^r	31 22	12 2.5	21.5 ^r	+0.3
32 5 ^r	32 10	26 4.0	20.1^r	
	32 56	12 3.9	70.3 ^r	
15 34 16 ^r	33 50	26 2.2	23.2^r	
34 11 ^r	34 42	17 9.0	43.9 ^r	+0.3 ^r
15 34 11 ^r	35 35	26 2.9	21.4^r	
	36 50	12 1.5 ^r	79.7 ^r	
15 32 16 ^r	37 45	26 1.2	70.7 ^r	+0.4 ^r
32 11 ^r	32 30	12 2.5 ^r	76.9 ^r	
15 32 11 ^r	40 0	25 9.4	72.5^r	
	40 52	12 0.9	2.1 ^r	
15 42 13 ^r	41 40	26 3.0	22.9^r	+0.3 ^r
42 43	42 43	12 0.1	43.7 ^r	
15 42 4 ^r	43 32	26 3.2		

April 12, 1910 (Tuesday)

R.I. Cassiop.

2 17
8 52
6 35

+66.8
25 lbs. Pour Rec. Phot T.

7 in cap. used

Index Lta B.

357.6 ← Comptan Dis

68.0 70.4^v

187.3

238.6 $\frac{51.3}{121.7}^v + 1.16^v$

0.4

59.9 59.5^v

+1.02^v

177.6

246.7 $\frac{69.1}{122.6}^v + 1.01^v$

Index R+B A.

261.0

337.6 76.6^v

99.6

146.2 $\frac{46.6}{123.2}^v + 1.12^v$

278.7

327.6 48.9^v

+1.10^v

83.3

159.2 $\frac{75.9}{124.2}^v + 1.09^v$

Mean +1.09^v

7 32 50

59 20.5^v

7 29 40.5^v

+5 -1 3.5^v

12 24 37.5^v

2774.5192^v

April 12, 1910

Same Again. II
Index R+B. A.

7 39 40

$$\begin{array}{r}
 267.0 \\
 339.1 \\
 97.8 \\
 148.6 \\
 \hline
 50.2 \\
 122.9
 \end{array}
 \begin{array}{l}
 72.1^{\vee} \\
 \\
 \\
 +1.13^{\vee}
 \end{array}$$

$$\begin{array}{r}
 276.6 \\
 329.6 \\
 84.1 \\
 160.0 \\
 \hline
 53.0^{\vee} \\
 75.9^{\vee} \\
 122.9^{\vee}
 \end{array}
 \begin{array}{l}
 +1.06^{\vee} \\
 \\
 \\
 +1.00^{\vee}
 \end{array}$$

Index L+A B.

$$\begin{array}{r}
 175.0 \\
 250.0 \\
 9.0 \\
 56.8 \\
 \hline
 75.0^{\vee} \\
 47.2^{\vee} \\
 122.2^{\vee}
 \end{array}
 \begin{array}{l}
 \\
 \\
 +1.13^{\vee}
 \end{array}$$

$$\begin{array}{r}
 188.3 \\
 237.0 \\
 354.9 \\
 68.8 \\
 \hline
 42.7^{\vee} \\
 73.9^{\vee} \\
 122.6^{\vee}
 \end{array}
 \begin{array}{l}
 +1.14^{\vee} \\
 \\
 +1.14^{\vee} \\
 \text{mean } +1.10^{\vee}
 \end{array}$$

$$\begin{array}{r}
 7 \ 46 \ 20 \\
 \hline
 26 \ 0.^{\vee} \\
 7 \ 43 \ 0.^{\vee} \\
 +5 \ -1 \ 3.^{\vee} \\
 \hline
 12 \ 41 \ 57.^{\vee} \\
 2774.5292^{\vee}
 \end{array}$$

April 12, 1910,

Same Again III
Index L+A B.

178.5
247.4 62.9^v

6.9
55.1 $\frac{42.2}{117.1}$ ^v +1.26^v

186.8 51.4^v +1.17^v

238.2

355.8
69.7 $\frac{73.9}{125.3}$ ^v +1.02^v

Index R+B A.

85.9
159.3 73.4^v

277.0
325.7 $\frac{48.7}{122.1}$ ^v +1.14^v

98.1 53.0^v +1.04^v
151.1

261.8
340.5 $\frac{78.7}{131.7}$ ^v +0.94^v

mean +1.10^v

8. 2 15
112 45^v

7 59 22^v
+5 -1 3^v

12 52 19^v
2774.5405+^v

April 12, 1910

Same Again $\frac{TV}{A.}$

79.8

159.5 79.7[✓]

278.5

325.9 $\frac{47.4}{127.1}$ [✓] +1.04[✓]

97.4

147.9 $\frac{50.5}{127.1}$ [✓] +1.02[✓]

265.6

339.0 $\frac{73.4}{123.9}$ [✓] +1.11[✓]

Index Lta B.

355.4

72.0 76.6[✓]

188.0

240.4 $\frac{52.4}{129.0}$ [✓] +1.00[✓]

7.8

58.4 $\frac{50.6}{127.1}$ [✓] +0.92[✓]

1721

251.8 $\frac{79.7}{130.3}$ [✓] +0.97[✓]mean +1.03[✓]

8	8	25
<hr/>		
	12	25 [✓]
A	6	12 [✓]
15	-1	3 [✓]
<hr/>		
13	✓	9 [✓]

P.A. 31.2 Yarnier B

2774.5452[✓]

April 12, 1918

B. 394

8 22 0.0

8 23 0.0

Fr. 3451

8 22 37.4

8 23 37.5

Reapp Jup. II, Phot R (one prism removed)
 W. Obs. House Rec. compared with nearer
 of two Sats (before reapp.) on foll. side - Sat I

13	√6	40.8	57	23			
13	√6	49.1	"	32	32.7	+2.3	206.5
13	√7	6.1	"	49	49.4	+1.7	245.0
13	√7	12.1	58	1	16.2	+1.3	195.2
13	√7	33.1	"	16	62.0	+1.1	252.0
13	√7	47.1	"	30			clouds
13	√7	54.1	"	37	73.9	+0.6	190.0
13	√8	7.1	"	50			clouds
13	√8	46.1	59	29	77.9	+0.5	263.9
13	√8	56.1	"	39			clouds
13	√9	43.9	0	27	79.2	+0.4	186.0
14	0	5.1	"	49			265.2 →
			1	15	29.5		175.5
14	1	45.1	"	42	24.7		265.0
		-44.1	"	54	29.1	0.0	178.5
14	1	1.1					

April 12, 1910.

9	2	9	267.2	
	"	17	clouds	
	"	21	93.2 ^v	174.8
14 3 3.1 ^v	"	41	89.5 ^v	267.2
-44 ^v	"	47	91.4 ^v -0.1 ^v	clouds 2
14 2 19 ^v	3	17		176.0
	"	22		clouds
	"	52		265.5
	4	3	89.7 ^v	174.5
14 5 21.1 ^v	"	7	91.0 ^v	clouds
-44 ^v	5	32	90.4 ^v 0.0 ^v	264.2 3
14 4 37 ^v	"	46		176.0
	6	2		267.0
	"	15	92.6 ^v	174.5
14 6 36.1 ^v	"	29	90.1 ^v	267.1
-45 ^v	"	45	91.4 ^v -0.1 ^v	176.0 4
14 5 51.1 ^v	"	56		266.1
	7	14	91.1 ^v	175.4
14 7 36.1 ^v	"	28	89.5 ^v	266.5
-45 ^v	"	43	90.3 ^v 0.0 ^v	176.5 ^v
14 6 51.1 ^v	"	58		266.0
	8	14	90.2 ^v	176.8
14 8 34.1 ^v	"	29	92.1 ^v	267.0
-45 ^v	"	42	91.2 ^v 0.0 ^v	175.2 6
14 7 49 ^v	"	53		267.3
	9	4	88.5 ^v	177.5
14 9 21.1 ^v	"	14	89.5 ^v	266.0
-45 ^v			89.0 ^v 0.0 ^v	
14 8 36.1 ^v				

April 12, 1910.

7

	9	9	23		176.5	
		"	34		266.0	
		12	38	29.5	175.5	
14	12	54	"	22.2	265.0	
		-46.	13	0	176.5	2
14	12	2.	"	11	265.3	
			"	33	177.5	18
14	13	52	"	46	266.5	
		-46.	"	59	176.3	9
14	13	6.	14	12	265.0	
			"	28	177.0	
14	14	49	"	39	265.8	10
		-46.	"	55	177.5	
14	14	3.	15	15	267.0	

Limit of Visibility

	9	15	56	32.5	206.5
14	16	30	16	30	239.0
	-46.	16	40	33.2	206.9
14	15	44	16	52	240.8

Continually troubled throughout eclipse by clouds of varying density with some patches of clear sky between. At the very first when Sat II reappeared the sky was pretty clear for a little so that the early settings were critically and quite well obtained. These clouds began to come again and were more or less troublesome throughout eclipse, or

April 12, 1910.

observer having to wait to get good setting
as much care as possible was exercised and
by waiting, eclipse was considered pretty good.

B 394

9 24 0.0

9 25 0.0

Fr 3451

9 24 47.5

9 25 47.6

April 12, 1910.

R. H. Cassiope

2	17
11	7
8	50

+66.8

W. Obs. Ross Rec Phot T

9.5 in cap used

Index LtA. B.

355.6 ← Comp Star dis

70.1

74.5^v

188.0

49.7^v~~57.7~~^v+1.10^v

237.7

132.3^v124.2^v~~+0.93~~^v

7.8

51.5^v+1.06^v

59.3

~~+0.90~~^v

174.2

76.0^v

250.2

127.5^v+1.03^v

Index R+B A.

275.5

50.9^v

326.4

82.8

75.3^v

158.1

126.2^v+1.06^v

263.6

75.4^v

+1.06

338.4

98.4

50.2^v+1.07^v

148.6

125.6^vmean +1.02^v

L. P. A.

9.	47	20
	2	30.
9	44	15.
+5	-1	3.
14	43	12.

2774.6133^v

Came up cloudy so that P.A. could not be read but region thoroughly identified. Cloudy everywhere. W's watch used for times. Watch 1 min 3 sec fast.

April 13, 1910 (Wednesday).

R. I. Cassiop

2 17
8 57
6 40

+66.8
W. Obs. Pour Rec. Phot. T.

9.5 in cap used

Index L + A. B. I.

175.9
249.2 73.3 ✓ ← Comp Stat. Sec.

7.5
59.4 $\frac{51.9}{125.2}$ ✓ +1.02 ✓

187.4
236.8 49.4 ✓ +1.00 ✓
355.0 $\frac{75.2}{124.6}$ ✓ +1.09 ✓
70.2

Index R + B. A.

82.6 24.2 ✓
163.4
274.9 $\frac{52.0}{132.2}$ ✓ +0.92 ✓
326.9

97.1 $\frac{52.5}{149.6}$ ✓ +0.92 ✓

7 27 45
A 0. ✓
7 24 0. ✓
+5 -1 5 ✓

261.4 $\frac{79.9}{132.4}$ ✓ +0.93 ✓
341.3

12 22 55. ✓ Twilight strong. The above groups $\frac{1}{2}$ wt.
2775.5/59 ✓

mean +1.00 ✓

April 13, 1910
 Sky darker.

Same Again II
 Index R+B A:

7 31 30

$$\begin{array}{r} 81.6 \\ 162.5 \quad \sqrt{0.9}^{\vee} \\ 276.2 \quad \sqrt{0.9}^{\vee} \\ 327.1 \quad \frac{131.4}{131.4}^{\vee} \quad +0.94 \end{array}$$

$$\begin{array}{r} 97.4 \\ 147.7 \quad \sqrt{0.3}^{\vee} \quad +0.92^{\vee} \\ 258.8 \quad \frac{23.3}{133.6}^{\vee} \quad +0.90^{\vee} \\ 342.1 \quad \frac{23.3}{133.6}^{\vee} \quad +0.90^{\vee} \end{array}$$

Index L+A. B.

$$\begin{array}{r} 348.3 \quad \frac{24.0}{134.2}^{\vee} \\ 72.3 \\ 187.6 \quad \sqrt{0.2}^{\vee} \\ 237.8 \quad \frac{134.2}{134.2}^{\vee} \quad +0.89^{\vee} \end{array}$$

$$\begin{array}{r} 7 \quad 37 \quad 45 \\ 7 \quad 9 \quad 15^{\vee} \\ 7 \quad 34 \quad 32^{\vee} \\ +5 \quad -1 \quad 5^{\vee} \\ -12 \quad 33 \quad 33^{\vee} \end{array}$$

277 $\sqrt{}$ 5233 PA. 313 Yermier B

$$\begin{array}{r} 7.8 \\ 61.4 \quad \sqrt{3.6}^{\vee} \quad +0.96^{\vee} \\ 171.6 \quad \frac{79.6}{133.2}^{\vee} \quad +0.91^{\vee} \\ 251.2 \quad \frac{79.6}{133.2}^{\vee} \quad +0.91^{\vee} \\ \text{wt. 1} = \text{mean} +0.91^{\vee} \\ \text{Weighted Mean} \quad \frac{1}{2} = \text{mean} +1.00^{\vee} \\ \quad \quad \quad \quad \quad \quad +0.94^{\vee} \end{array}$$

W's watch used for time

Watch 1 min 5 secs fast

L. P. A.

April 14, 1910 (Thursday)

R. X. Cassiop.

2 17 +66.8
 9 17 W. Obs. Pour Rec Phot T
 7 0 9.5 in caps. used

Index Lta B. I
 353.6 ← Comp Stars
 69.0 75.4[✓]
 184.6

7 42 25

237.4 $\frac{52.2^{\checkmark}}{122.2^{\checkmark}}$ +1.02[✓]

6.7 52.3 +1.00[✓]
 59.0
 171.6
 249.4 $\frac{77.8^{\checkmark}}{130.1^{\checkmark}}$ +0.92[✓]

Index R+B. A_i

261.0 A 0.2[✓]
 341.2
 97.9
 148.9 $\frac{51.0^{\checkmark}}{131.2^{\checkmark}}$ +0.95[✓]

274.0 54.8[✓] +0.92[✓]

328.8
 823
 162.4 $\frac{20.1^{\checkmark}}{134.9^{\checkmark}}$ +0.22[✓]

7 50 0
 92 25.1[✓]
 7 46 12.1[✓]
 +5 56.1[✓]
 12 45 16.1[✓]
 8776.5315-[✓]

mean +0.96[✓]

April 14, 1910.

Same Again. II

Index R & B. A.

260.1

339.0

96.0

148.8

$$\frac{52.2}{131.7}$$

+0.94

274.4

330.0

81.0

162.3

$$\frac{21.3}{136.9}$$

+0.24

Index L & A B.

172.0

251.1

8.0

58.9

$$\frac{50.9}{130.0}$$

+0.92

187.6

238.9

354.3

71.8

$$\frac{51.3}{122.2}$$

+0.99

$$\frac{77.5}{122.2}$$

+1.00

Mean +0.94

Gen. " +0.95

7 58 35

11 15

7 55 32

56

12 54 42

2776.5320

April 14, 1910.

$\Delta M + 66^\circ 242(7.8)$ [Comp Star for R.I. Cassio.]
compared with $\Delta M + 66^\circ 243(9.2)$.

W. Alb. Ross Ric. Phot. T. 9.5 in cap used

Index Left B.

186.9 \leftarrow Old. C. S. Dis.

237.8 $\sqrt{0.9}^\circ$

14.7

50.8 $\frac{36.1}{27.0}^\circ - 2.00^\circ$

192.8 32.0°

230.8

-1.92°

6.6 $\sqrt{0.7}^\circ$

57.3 $\frac{50.7}{22.7}^\circ - 1.9^\circ$

Index Right A.

95.7 $\sqrt{0.7}^\circ$

146.4

281.8

321.4 $\frac{39.6}{90.3}^\circ - 1.91^\circ$

103.4 32.0°

141.4

-1.81°

272.5

332.2 $\frac{59.7}{97.7}^\circ - 1.71^\circ$

mean -1.90°

8 17 15

27 $3\sqrt{.}$ \checkmark

A 13 $42.$ \checkmark

$\sqrt{.}$ $-56.$ \checkmark

13 12 $\sqrt{.}$ \checkmark

2776. $\sqrt{.}$ $\sqrt{0.6}^\circ$

April 14, 1910

Same Again π
Index Right A.

8 20 15

$$\begin{array}{r}
 93.3 \\
 149.4 \\
 282.2 \\
 320.8 \\
 \hline
 94.7
 \end{array}
 \begin{array}{l}
 \sqrt{6.1}^{\vee} \\
 \\
 32.6^{\vee} \\
 -1.79^{\vee}
 \end{array}$$

$$\begin{array}{r}
 103.3 \\
 141.6 \\
 272.6 \\
 330.2 \\
 \hline
 95.9
 \end{array}
 \begin{array}{l}
 32.3^{\vee} \\
 \\
 \sqrt{7.6}^{\vee} \\
 -1.76^{\vee}
 \end{array}$$

Index Left. B.

$$\begin{array}{r}
 6.9 \\
 59.7 \\
 193.3 \\
 230.2 \\
 \hline
 29.7
 \end{array}
 \begin{array}{l}
 \sqrt{2.2}^{\vee} \\
 \\
 36.9^{\vee} \\
 -1.92^{\vee}
 \end{array}$$

$$\begin{array}{r}
 16.2 \\
 51.5 \\
 185.3 \\
 237.0 \\
 \hline
 27.0
 \end{array}
 \begin{array}{l}
 35.3^{\vee} \\
 \\
 \sqrt{1.7}^{\vee} \\
 -2.00^{\vee}
 \end{array}$$

mean -1.46^{\vee}

$$\begin{array}{r}
 8 \quad 27 \quad 5 \\
 \hline
 47 \quad 20. \\
 2 \quad 23 \quad 40. \\
 +5 \quad -56. \\
 \hline
 13 \quad 22 \quad 44
 \end{array}$$

P.A. 74.1 Vermier B

April 14, 1910

R. Z. Cassiop.

2 36
10 56
8 20

+69.0

W. Alb. Rouv Rec Phot T

Full Aperture

Index Lt a B. I

184.0 ← Kar. Dis

239.1 $\sqrt{5.1}^{\circ}$

11.9

50.1 $\frac{3A.2^{\circ}}{93.3^{\circ}} -1.23^{\circ}$

9 30 15

192.1

39.6 $^{\circ}$

-1.24 $^{\circ}$

231.7

6.2

58.7 $\frac{\sqrt{2.5}^{\circ}}{92.1^{\circ}} -1.26^{\circ}$

9 32 0

Index R+B A.

93.4

$\sqrt{6.1}^{\circ}$

149.5

280.9

322.3 $\frac{41.4^{\circ}}{97.5^{\circ}} -1.72^{\circ}$

9 33 40 ±

101.6

40.9 $^{\circ}$

-1.66 $^{\circ}$

142.5

268.3

329.2 $\frac{60.9^{\circ}}{101.2^{\circ}} -1.61^{\circ}$

9 36 10

12 $\sqrt{5}^{\circ}$

9 33 1. $\sqrt{5}^{\circ}$

$\sqrt{5} -\sqrt{6.1}^{\circ}$

14 32 $\sqrt{5}^{\circ}$

2776.60 $\sqrt{5}^{\circ}$

mean -1.75 $^{\circ}$

April 14, 1910.

Same Again II
Index L & B. A.

9 39 35

$$\begin{array}{r}
 93.8 \\
 149.4 \quad \checkmark 55.6 \checkmark \\
 283.2 \\
 319.8 \quad \checkmark 36.6 \checkmark \\
 \hline
 92.2 \checkmark \quad -1.26 \checkmark
 \end{array}$$

9 41 15

$$\begin{array}{r}
 100.4 \quad \checkmark 42.8 \checkmark \quad -1.20 \checkmark \\
 142.4 \\
 274.9 \quad \checkmark 55.1 \checkmark \\
 330.0 \quad \checkmark 97.1 \checkmark \quad -1.73 \checkmark
 \end{array}$$

Index L & a. B.

9 46 20

$$\begin{array}{r}
 6.4 \quad \checkmark 51.3 \checkmark \\
 57.7 \\
 195.4 \quad \checkmark 32.2 \checkmark \\
 227.6 \quad \checkmark 23.5 \checkmark \quad -2.09 \checkmark
 \end{array}$$

$$\begin{array}{r}
 9 \quad 48 \quad 35 \\
 \hline
 15 \quad 45 \checkmark \\
 9 \quad 43 \quad \checkmark 56. \checkmark \\
 +5 \quad \checkmark 56. \checkmark \\
 \hline
 14 \quad 43 \quad 0. \checkmark \\
 2776.6132 \checkmark
 \end{array}$$

$$\begin{array}{r}
 14.5 \quad \checkmark 34.3 \checkmark \quad -2.11 \checkmark \\
 48.8 \\
 188.7 \quad \checkmark 47.9 \checkmark \\
 236.6 \quad \checkmark 22.2 \checkmark \quad -2.13 \checkmark
 \end{array}$$

mean 1.96 \checkmark

April 14, 1910

Same Again III
Index L+A B.

9 52 0

$$\begin{array}{r}
 1.2 \\
 53.5 \quad \sqrt{2.3}^{\checkmark} \\
 195.8 \\
 226.5 \quad \frac{30.7}{23.0}^{\checkmark} \quad -2.11^{\checkmark}
 \end{array}$$

9 53 50

$$\begin{array}{r}
 16.8 \\
 48.2 \quad 31.4^{\checkmark} \quad -2.13^{\checkmark} \\
 187.0 \\
 237.8 \quad \frac{\sqrt{0.0}}{21.4}^{\checkmark} \quad -2.15^{\checkmark}
 \end{array}$$

Index R+B. A.

9 56 10

$$\begin{array}{r}
 274.8 \\
 324.8 \quad \sqrt{0.0}^{\checkmark} \\
 105.0 \\
 138.2 \quad \frac{33.2}{23.2}^{\checkmark} \quad -2.10^{\checkmark}
 \end{array}$$

$$\begin{array}{r}
 9 \quad 58 \quad 0 \\
 \hline
 20 \quad 0. \quad \checkmark \\
 9 \quad \sqrt{\checkmark} \quad 0. \quad \checkmark \\
 + \sqrt{\checkmark} \quad -\sqrt{6.} \quad \checkmark \\
 \hline
 14 \quad \sqrt{\checkmark} \quad 4 \quad \checkmark
 \end{array}$$

$$\begin{array}{r}
 285.3 \\
 318.7 \quad 33.4^{\checkmark} \quad -2.14^{\checkmark} \\
 98.8 \\
 1457 \quad \frac{46.9}{20.3}^{\checkmark} \quad -2.19^{\checkmark}
 \end{array}$$

$$\begin{array}{r}
 14 \quad \sqrt{\checkmark} \quad 4 \quad \checkmark \quad 208.2 \text{ Vermin B} \\
 2776.6209^{\checkmark}
 \end{array}$$

$$\text{mean} = -2.14^{\checkmark}$$

April 14 1910

B. 394.

10	10	0 0
10	11	0.0

F_a 3451.

10	18	41.4
10	19	41.5

Reapp. Jup. III, Phot R, (one prism removed)
 W. obs. Pour Rec. compared with mean of
 two Sats. (before eclipse) = Sat I.

15	53	47.11
53	54	
54	7	
54	19	
54	24	
54	29	
54	47	
54	56	
54	57	
55	12	
55	19	
55	24	
55	42	
55	52	
55	53	
56	3	
56	16	
56	31	
56	32	
15	56	44

2	35			
"	42	25.0	+3.3	210.0
"	55	29.9	+2.9	235.0
3	7	35.5	+2.5	205.1
"	17	39.4	+2.2	240.6
"	36	40.3	+2.2	201.2
"	45	44.0	+2.0	241.5
"	56	44.0	+1.4	197.5
4	7	49.4	+1.7	245.5
"	16	49.9	+1.7	196.1
"	31	53.5	+1.5	246.0
"	41	57.5	+1.3	192.5
"	52	57.2	+1.3	250.0
5	5	57.4	+1.3	192.2
"	20	60.9	+1.2	250.8
"	32	64.0	+1.0	189.1

April 14, 1910.

15	56	76.11	5	44		253.1	
			"	56	71.7	187.8	
16	6	16	6	8	73.4	259.5	
-A	49		"	24	145.1	184.8	
15	57	27	"	37	72.6	+0.7	258.2
			"	53	76.5		184.0
16	7	14	7	6	76.2		260.5
-A	49		"	20	76.4	+0.5	184.0
15	54	25	"	35			260.2
			"	50	22.0		183.0
16	8	15	8	8	23.0		265.0
-A	49		"	22	22.5	+0.3	180.1
15	59	26	"	39			263.1
			9	5	24.5		178.5
16	9	24	"	17	24.0		263.0
-A	49		"	29	24.2	+0.2	181.5
16	0	35	"	45			265.5
			10	7	29.6		177.4
16	10	31	"	21	27.9		267.0
-A	50		"	41	22.2	0.0	179.2
16	1	41	"	54			267.1
			11	11	29.0		178.0
16	11	36	"	25	95.4		267.0
-A	50		"	49	92.2	-0.1	174.1
16	2	46	"	58			269.5
			12	9	94.5		174.0
16	12	26	"	20	93.5		268.5
-A	50				94.0	-0.2	
16	3	36					

April 14, 1910

	11	12	31	175.5	
		"	42	269.0	
16	13	40 ✓	13	33	94.5 ✓
-4	✓	50.1 ✓	"	43	96.6 ✓
16	4	50.1 ✓	"	53	95.6 ✓ -0.2 ✓
			14	5	
			"	14	93.0 ✓
16	14	36 ✓	"	33	92.5 ✓
-4	✓	50.1 ✓	"	43	95.4 ✓ -0.2 ✓
16	5	46.1 ✓	"	56	
			11	15	8
16	15	26 ✓	"	"	21
-4	✓	50.1 ✓	"	"	31
16	6	36 ✓	"	"	43
			"	"	53
16	16	10 ✓	16	4	99.1 ✓
-4	✓	51.1 ✓	"	14	99.3 ✓
16	7	19 ✓	"	28	99.2 ✓ -0.4 ✓
			"	41	101.5 ✓
16	16	57 ✓	"	50	99.1 ✓
-4	✓	51.1 ✓	17	1	100.3 ✓ -0.4 ✓
16	8	6 ✓	"	17	
			"	27	102.0 ✓
16	17	42 ✓	"	37	99.7 ✓
-4	✓	51.1 ✓	"	47	100.4 ✓ -0.4 ✓
16	8	51.1 ✓	"	58	

April 14, 1910

11	18	9	101.4	171.6	III
16 14 23.	"	18	102.5	273.0	7
-2 51.	"	27	102.0	171.5	
16 9 32.	"	37		274.0	
	"	50	101.8	171.0	VII
16 19 12.	19	6	101.6	272.8	A
-2 51.	"	17	101.7	171.2	
16 10 21.	"	33		272.8	

Limit of Visibility

11	20	37	29.9	205.5	
16 21 5.	11	20	30.2	235.4	
-2 51.	11	21	30.0	205.8	
16 12 14.	11	21	33	236.0	

Seeing pretty good, sky a little hazy, eclipse considered good

B	394		F _n	3451	
11	26	0.0	11	34	53.6
11	27	0.0	11	35	53.8

W's watch used for time before eclipse
Watch 56 sec fast.

L. P. P.

Apr. 15. 1910. (Friday).

R. X. Cassio. Phot. T.

$$\begin{array}{r} 2 \quad 17 \\ 9 \quad \sqrt{2} \\ + 7 \quad 41 \\ \hline \end{array}$$

+66.2
W. Obs. Pour Rec. Phot. T.
Full Aperture Used
Index Lt a. B.

8 27 35

175.6 Comp Star Dec

248.2 72.6^v

6.6

58.0 $\frac{51.4}{124.0}$ +1.11^v

186.0

54.2^v

+1.03^v

240.8

353.6

70.4

76.2^v

131.6^v

+0.95^v

Index Rt B A.

85.0

157.8

267.3

331.0

72.2^v

63.7^v

136.5^v

+0.24^v

91.6

148.1

263.5

341.8

56.5^v

72.3^v

134.2^v

+0.22^v

mean +0.94^v

$$\begin{array}{r} 8 \quad 33 \quad 5 \\ \hline \quad \quad 8 \quad 40. \\ 2 \quad 30 \quad 20. \\ +5 \quad -1 \quad 5. \\ \hline 13 \quad 29 \quad 15. \\ 2777.5619 \end{array}$$

W. watch used for times

Watch 1 min 5 secs fast.

L. P. P.

Apr. 16. 1910. (Saturday).

R X Cassiop. Phot. I.
W. obs. W. rec.

$$\begin{array}{r} 2 \quad 17 \quad +66A \\ 9 \quad 39 \\ \hline +7 \quad 22 \end{array}$$

For measts. see p. next page.

Apr. 16. 1910.

L + A. B.

357.0

71.2

123.5

241.5

74.2^v

$$\frac{54.0^v}{132.2^v}$$
+0.92^v

5.2

54.3

174.3

250.0

~~A + B.~~

R + B.

260.5

339.5

95.0

149.2

53.1^v

$$\frac{75.7^v}{122.2^v}$$
+1.00^v

A.

79.0^v

$$\frac{54.2^v}{133.2^v}$$
+0.91^v

259.2

340.2

92.0

152.2

20.4^v

$$\frac{54.2^v}{134.6^v}$$
+0.82^v+0.90^vMean +0.93^v

P. A. 212.2 Var. B.

L. P. P.

7 54 45

A	24	20
2	3	5 ^v
2	11	32 ^v
+5	-1	5 ^v
13	10	27 ^v
277	2.54	29 ^v

Apr. 16, 1910.

Double Star (new list) = Burnham's Cat. 2451.
 Phot. R. (one prism removed). W. obs. W. rec.

4 $\sqrt{2}$ +62.9

Index L + A.

2 40 10
 263.0
 357.0 94.0^v
 95.2
 167.0 $\frac{71.2}{16\sqrt{2}}$ 0.22^v

274.0
 342.5 74.5^v 0.24^v
 25.2
 140.0 $\frac{94.2}{16\sqrt{2}}$ 0.21^v

Index R + B.

356.0
 22.0 92.0^v
 146.2
 254.5 $\frac{72.3}{16\sqrt{2}}$ 0.30^v

7.2
 75.9 62.7^v 0.31^v
 175.5
 270.2 $\frac{94.7}{16\sqrt{2}}$ 0.32^v

9 2 15
 10.2 25.5^v
 9 54 12.5^v
 45 -1 5.5^v
 14 53 7.5^v
 2772.6202^v

mean 0.22^v

W's watch used for times.
 Watch 1^m 5^m fast.

L. P. P.

April 20, 1910 (Wednesday).

RX Cassiope

2	17
9	32
7	15

+66.8
W Obs. Ross Rec. Phot T,
Full Aperture used.
Index Lt A B.

357.6 ← Comp Star Dis
67.2 69.6^v
184.8
236.5 $\frac{51.7^v}{121.3^v} + 1.16^v$

8.1 50.5^v +1.14^v
58.6
174.3
247.0 $\frac{72.7^v}{123.2^v} + 1.12^v$

Index R+B A.

262.2
340.6 72.4^v
96.0
148.2 $\frac{52.2^v}{130.6^v} + 0.97^v$

273.4 55.4^v +0.96^v
328.8
85.0
160.6 $\frac{75.6^v}{131.0^v} + 0.96^v$

Mean +1.05^v

7 45 0
22 40.^v
7 41 20.^v
+5 -1 1.^v
12 40 19.^v
2722.5200^v

April 20, 1910

Same Again II
Index A+B A.

7 46 40

261.8

20.5^v

342.3

96.8

148.0 $\frac{\sqrt{1.2}}{131.7}^v + 0.94^v$

274.7

 $\sqrt{3.2}^v$

328.5

+0.94^v

83.9

161.8 $\frac{77.9}{131.7}^v + 0.94^v$

Index A+B B.

172.6

250.1 77.5^v

8.0

59.0 $\frac{\sqrt{1.0}}{122.5}^v + 1.01^v$

186.0

 $\sqrt{0.4}^v$ +1.03^v

236.4

353.6

70.0 $\frac{76.4}{126.2}^v + 1.05^v$ mean +0.92^vGen. " +1.02^v7 53 50
100 30.5^v7 50 15.5^v47 -1 1.5^v

12 49 14 P.A. 31.7 Vernier B

2722, $\sqrt{341}^v$

April 20, 1910.

R. bonae

15	44
10	34
<u>5</u>	<u>10</u>
6	50

+ 26.5
W. Obs. Four Sec. Phot T.

Index R+A A. I
193.2 ← Comp Star Obs.

229.0 35.2

19.3

42.0 $\frac{22.7}{54.5} + 2.92$

198.8

25.1

+ 2.24

223.9

13.2

51.1

$\frac{37.9}{63.0} + 2.75$

Index L+B B.

98.7

44.9

143.6

287.6

316.6

$\frac{29.0}{73.9} + 2.32$

108.8

29.2

+ 2.41

138.0

281.0

323.8

$\frac{42.4}{72.0} + 2.44$

mean + 2.62

Ph. mag. C. S. = $\frac{7.32}{9.94}$

8 39 5

8 45 35

24 40

42 20

+5 -1 1

13 41 19

27 22.5 70 3

April 20, 1910.

Same again
Index L+B B.

II

8 47 25

$$\begin{array}{r}
 101.5 \\
 144.4 \\
 287.0 \\
 313.8 \\
 \hline
 69.7
 \end{array}
 \begin{array}{l}
 42.9^{\vee} \\
 \\
 26.2^{\vee} \\
 69.7^{\vee}
 \end{array}
 + 2.52^{\vee}$$

$$\begin{array}{r}
 108.1 \\
 136.8 \\
 282.0 \\
 322.0 \\
 \hline
 64.7
 \end{array}
 \begin{array}{l}
 22.7^{\vee} \\
 \\
 40.0^{\vee} \\
 64.7^{\vee}
 \end{array}
 + 2.55^{\vee}$$

Index R+A A.

$$\begin{array}{r}
 14.0 \\
 57.0 \\
 200.4 \\
 223.6 \\
 \hline
 66.2
 \end{array}
 \begin{array}{l}
 43.0^{\vee} \\
 \\
 23.2^{\vee} \\
 66.2^{\vee}
 \end{array}
 + 2.64^{\vee}$$

$$\begin{array}{r}
 8 \quad 54 \quad 40 \\
 \hline
 102 \quad \sqrt{}^{\vee} \\
 8 \quad \sqrt{1} \quad 2. \quad \vee \\
 +5 \quad -1 \quad 1. \quad \vee \\
 \hline
 13 \quad \sqrt{0} \quad 1. \quad \vee \\
 2722.5764^{\vee}
 \end{array}$$

$$\begin{array}{r}
 20.5 \\
 43.8 \\
 194.0 \\
 228.2 \\
 \hline
 57.5
 \end{array}
 \begin{array}{l}
 23.3^{\vee} \\
 \\
 34.2^{\vee} \\
 57.5^{\vee}
 \end{array}
 + 2.96^{\vee}$$

mean + 2.67^{vee}

$$\begin{array}{r}
 7.32^{\vee} \\
 9.99^{\vee} \\
 9.94^{\vee} \\
 \hline
 9.96^{\vee}
 \end{array}$$

mean. mean. Var. = 9.96^{vee}

April 20, 1910

Same Again III
Index R+A A.

9 1 5

$$\begin{array}{r}
 13.3 \\
 54.7 \\
 199.6 \\
 223.9 \\
 \hline
 24.3 \\
 65.7
 \end{array}
 \begin{array}{l}
 41.4^{\vee} \\
 \\
 \\
 +2.65^{\vee}
 \end{array}$$

$$\begin{array}{r}
 21.0 \\
 443 \\
 193.2 \\
 230.3 \\
 \hline
 37.1 \\
 60.4
 \end{array}
 \begin{array}{l}
 23.3^{\vee} \\
 \\
 \\
 +2.24^{\vee}
 \end{array}
 \begin{array}{l}
 +2.74^{\vee} \\
 \\
 \\
 \end{array}$$

Index L+B B.

$$\begin{array}{r}
 279.0 \\
 323.8 \\
 107.5 \\
 135.0 \\
 \hline
 27.5 \\
 71.5
 \end{array}
 \begin{array}{l}
 44.0^{\vee} \\
 \\
 \\
 +2.46^{\vee}
 \end{array}$$

$$\begin{array}{r}
 289.0 \\
 313.7 \\
 101.1 \\
 142.3 \\
 \hline
 41.2 \\
 65.9
 \end{array}
 \begin{array}{l}
 24.7^{\vee} \\
 \\
 \\
 +2.65^{\vee}
 \end{array}$$

$$\begin{array}{r}
 9 \quad 7 \quad 30 \\
 \hline
 2 \quad 35^{\vee} \\
 9 \quad 4 \quad 12^{\vee} \\
 +5 \quad -1 \quad 1^{\vee} \\
 \hline
 14 \quad 3 \quad 17^{\vee}
 \end{array}$$

$$\begin{array}{r}
 272.5256 \\
 \hline
 P.A. 154.0 \text{ Vernier B.}
 \end{array}$$

$$\begin{array}{r}
 41.2 \\
 65.9 \\
 \hline
 7.32 \\
 2.65 \\
 2.97 \\
 \hline
 7.32 \\
 \hline
 9.97^{\vee}
 \end{array}$$

W-3 watch used for times.
Watch 1 min 1 sec fast

Apr. 20. 1910.

Halley's Comet. H. obs. Phot. J.
Index above. A.

15 55 20

348.1 90.3 ✓

78.4

177.0

245.0 $\frac{62.0}{152.3}$ ✓ -0.41 ✓
=0.31

357.2

66.6

69.4 ✓

-0.34 ✓

165.2

257.2 $\frac{92.0}{161.4}$ ✓ -0.35 ✓

Index below. B.

256.4

347.3 90.5 ✓

49.0

156.4 $\frac{67.2}{152.3}$ ✓ -0.41 ✓

263.2

332.0

74.2 ✓

-0.36 ✓

46.2

165.2 $\frac{29.6}{163.2}$ ✓ -0.31 ✓

mean -0.37 ✓
-0.34

16 02 10

117 30. ✓

15 52 45. ✓

15 -1 1. ✓

20 57 44. ✓

2722. 2734 ✓

magn. of Comp. Star (Vol. 5-4) = $\frac{6.74}{6.37}$ ✓
" " nucleus =

Comp. Star for above ^{meast.} = + 7° 51' 01" (40). (Phot. magn. 6.74.)

over.

Apr. 20, 1910.

The comet now seems to be brightening rather more rapidly than for the last few days previous. The nucleus is bright and also the surrounding coma. The comet has a tail some over 1° long.

In the 4-inch finder ^(even), the comet is decidedly bright.

By careful measurements, on preceding page, the nucleus is 6.4 magn. The comet is visible to the naked eye, and the total brightness is above 5th. magn.

The comet was seen in the large telescope through the photometer apparatus even, until about 4^h 20^m A. M. - or for an hour after rising - although at the last, the twilight was getting to be very strong. The Sun rose at 4^h 55^m A. M. In other words, the comet was seen through the photometer to within half an hour of sunrise.

L. P. R.

April 21, 1910 (Thursday)

R. I. Bassiop

2	17
9	37
7	20

+6.6.8
W. Alb. Power Rec. Phot T
Full Aperture used.

Index Lta. B. I
172.5 ← Comp. Star Dis

250.5 72.0"
7.1
53.8 $\frac{42.7}{126.7}$ " +1.0"

188.5 46.5" +1.02"
235.8
354.2 $\frac{77.2}{123.7}$ " +1.11"
71.4

Index R+B A.

86.2 71.6"
157.8
276.5 $\frac{51.1}{122.7}$ " +1.13"
327.6

96.4 51.0" +1.02"
147.4
263.3 $\frac{75.9}{126.9}$ " +1.04"
339.2
mean +1.02"

7	43	25
20	0.	"
7	40	0.
+v	-1	0.
12	39	0.

2723.5271"

April 21, 1910

Same Again II
Index R+B A.

7 46 50

$$\begin{array}{r}
 82.4 \\
 161.8 \quad 79.4^{\vee} \\
 278.5 \\
 323.7 \quad \frac{45.2^{\vee}}{124.6^{\vee}} \quad +1.09^{\vee}
 \end{array}$$

$$\begin{array}{r}
 98.7 \\
 148.0 \quad 49.3^{\vee} \quad +1.04^{\vee} \\
 261.2 \\
 341.6 \quad \frac{20.4^{\vee}}{129.7^{\vee}} \quad +0.99^{\vee}
 \end{array}$$

Index Lt a B.

$$\begin{array}{r}
 353.8 \\
 67.4 \quad 73.6^{\vee} \\
 185.8 \\
 237.4 \quad \frac{51.6^{\vee}}{125.2^{\vee}} \quad +1.02^{\vee}
 \end{array}$$

$$\begin{array}{r}
 7.4 \\
 61.0 \quad 53.6^{\vee} \quad +1.06^{\vee} \\
 171.2 \\
 244.9 \quad \frac{73.7^{\vee}}{127.3} \quad +1.04^{\vee}
 \end{array}$$

$$\begin{array}{r}
 7 \quad 53 \quad 30 \\
 \hline
 100 \quad 20.^{\vee} \\
 7 \quad 50 \quad 10.^{\vee} \\
 +5 \quad -1 \quad 0.^{\vee}
 \end{array}$$

12 49 10. P.A. 330 Kern B Gen. " +1.07^{ve}
 2723.5341^{ve} Further observations stopped by clouds. Previous results considered good.

W's watch used for times.

Watch 1 min 0 sec fast.

L. P. P.

Apr. 26, 1910, (Tuesday).

Hallsey's Comet.

23	50.	+7.3
17	31	
<hr/> - 6	<hr/> 19	
+5	41	

W. Obs. Room Rec.

Phot T.

measts on next pages

Total light of comet 3.0 magn. or betr.
Tail over 3" long.

Comp. Star = $+7^{\circ} 51' 01''$ (7.0), (Phot. magn. 6.74).
This is the same compar. star as used on Apr. 20, 1910.

April 26, 1910.

Index Left. B.

15 31 50

80.0 ← comet Dis

163.8 23.2[✓]

271.0

333.7 $\frac{62.7^{\checkmark}}{146.5^{\checkmark}}$ -0.64[✓]

88.8

155.1 66.3[✓]-0.62[✓]

260.8

343.6 $\frac{22.2^{\checkmark}}{149.1^{\checkmark}}$ -0.59[✓]

Index Right A.

177.0

244.5 67.5[✓]

356.5

64.9 $\frac{62.4^{\checkmark}}{135.9^{\checkmark}}$ -0.46[✓]

177.8

247.5 69.7[✓]-0.24[✓]

357.2

65.6 $\frac{62.4^{\checkmark}}{132.1^{\checkmark}}$ -0.21[✓]mean -0.73[✓]

6.74

6.01

15 47 6

72 50.1[✓]15 39 25.1[✓]+5 +1 2.1[✓]20 40 27.1[✓]

2722.2614

Comp Star follows Comet. two thirds of field of Phot. and is approximately 8' south of it

Ws watch used for times

Watch 1 min 2 secs slow

L. R. R.

April 27, 1910. (Wednesday)

R. I. Cassiop.

2	17
10	27
8	10

+66.8
W. Alta. Bour Rec. Phot T.
Full Aperture Used

Index L+A B.

357.1 ← Comp Star slow

66.4 69.3^v

187.0 50.2^v

237.2 $\frac{119.5}{119.5}$ +1.20^v

7.6

49.0^v

+1.17^v

56.6

175.4

$\frac{73.2}{122.2}$

+1.14^v

248.6

Index R+B A.

265.5 70.6^v

336.1

96.2

$\frac{50.2}{120.2}$

+1.12^v

146.4

277.3

50.5^v

+1.16^v

327.8

86.6

$\frac{71.4}{121.9}$

+1.15

158.0

mean +1.16^v

7 59 5

11 15^v

7 55 32^v

+5 +0 50^v

12 56 22^v

2729.5392^v

April 27, 1910

Same Again π
Index A+B A.

264.2

336.1 71.9^v

97.6

147.4 $\frac{49.8}{121.7}$ ^v +1.16^v

274.2

326.5

86.9

159.0 $\frac{72.1}{124.4}$ ^v +1.10^v

Index L+A B.

178.6

246.0 67.4^v

6.5

566 $\frac{50.1}{117.5}$ ^v +1.25^v

187.8

238.8 51.0^v

+1.21^v

355.8

660 $\frac{70.2}{124.2}$ ^v +1.17^v

mean +1.17^v

Gen. " +1.16^v

8 7 50

9 25. ^v

4 42. ^v

+5 +0 50. ^v

13 5 32. ^v

8789.5455-^v

April 27, 1910.

R. coronae.

15	44
11	4
4	40
7	20

+ 26.5
W. obs. Pure Rec. Phot T.

Index Right + Above A.

188.7 ← 6.5 obs
232.0 43.3 ✓

160
464 $\frac{30.4}{73.7} + 2.39$ ✓

195.6 32.4 ✓ +2.30 ✓
228.0

8.2
55.0 $\frac{46.2}{79.2} + 2.22$ ✓

Index Left Below B.

104.9 34.6 ✓
1395

274.3 $\frac{51.2}{26.4} + 2.01$ ✓
326.1

94.9 53.1 ✓ +2.02 ✓
148.0

283.6 32.6 ✓
316.2 $\frac{25.7}{25.7} + 2.03$ ✓

8 55 25
3 50. ✓
2 51 55. ✓
+5 +0 50. ✓
13 52 45. ✓
2729.5724 ✓

mean +2.16 ✓
mean. C.S. = 7.32 ✓
9.42 ✓

April 27, 1910

Same Again II
Index L+B B.

8 58 10

$$\begin{array}{r}
 104.6 \\
 1406 \quad 36.0^{\circ} \\
 276.8 \\
 329.3 \quad \frac{52.5^{\circ}}{22.5^{\circ}} + 1.9^{\circ}
 \end{array}$$

$$\begin{array}{r}
 96.5 \\
 147.6 \quad 51.1^{\circ} \quad +2.03^{\circ} \\
 285.7 \\
 317.6 \quad \frac{31.9^{\circ}}{23.0^{\circ}} + 2.11^{\circ}
 \end{array}$$

Index R+a A.

$$\begin{array}{r}
 8.6 \\
 56.5 \quad 47.9^{\circ} \\
 195.8 \\
 226.0 \quad \frac{30.2^{\circ}}{72.1^{\circ}} + 2.25^{\circ}
 \end{array}$$

$$\begin{array}{r}
 16.6 \\
 464 \quad 29.2^{\circ} \quad +2.20^{\circ}
 \end{array}$$

$$\begin{array}{r}
 188.3 \\
 234.9 \quad \frac{46.6^{\circ}}{76.4^{\circ}} + 2.30^{\circ}
 \end{array}$$

Mean + 2.16"

Gen. " + 2.16"

$$\begin{array}{r}
 \text{Magn. Comp. Star} = \frac{7.32}{9.42} \\
 \text{" Var.}
 \end{array}$$

$$\begin{array}{r}
 9 \quad 3 \quad 40 \\
 \hline
 1 \quad 50. \\
 9 \quad 0 \quad 55. \\
 +5 \quad +0 \quad 50. \\
 \hline
 14 \quad 1 \quad 45. \\
 2729.5246^{\circ}
 \end{array}$$

D A 333.1 Kerner B

April 27, 1910

Z. Leonis

9

16

120

Comp. Star = + 26° 1977 (9.0)

+26.8

R Leonis

(4-27-10)

I

43.3
30.4

73.7

2.39

32.4

2.80

46.8

79.2

2.22

34.6

51.8

86.4

2.01

53.1

2.02

32.6

85.7

2.03

mean 2.16

II

36.0

52.5

88.5

1.95

57.1

2.03

31.9

83.8

2.11

47.9

30.2

78.1

2.25

39.8

2.13

46.6

86.4

2.01

mean 2.08

April 27, 1910

yf. Leonis

Comp. Star = + 26° 1977 (9.0)

9 16

+26.8

12 0

2 4 4

Index R+a A.

257.9 ← Comp Star Dis

337.4 79.5

92.8

147.2

54.4

133.9

+0.90

274.6

329.3

81.4

157.6

54.7

76.2

130.9

+0.96

+0.93

Index St B B.

1740

250.3

6.6

55.4

76.3

42.2

125.1

+1.02

185.6

235.7

354.2

67.5

50.1

73.3

123.4

+1.12

Mean +1.02

+1.10

9 53 5

100 10.

9 50 5

45 40 50.

14 50 55

2729.6146

April 27, 1910

Same again II
Index L+B B

$$\begin{array}{r}
 176.0 \\
 248.7 \quad 72.7^{\vee} \\
 7.6 \\
 57.5 \quad \frac{49.9^{\vee}}{122.6^{\vee}} \quad +1.14^{\vee}
 \end{array}$$

$$\begin{array}{r}
 1878 \\
 2356 \quad 47.2^{\vee} \quad +1.14^{\vee}
 \end{array}$$

$$\begin{array}{r}
 3555 \\
 704 \quad \frac{74.9^{\vee}}{122.7^{\vee}} \quad +1.13^{\vee}
 \end{array}$$

Index R+a A.

$$\begin{array}{r}
 75.9 \\
 161.3 \quad 67.4^{\vee}
 \end{array}$$

$$\begin{array}{r}
 270.8 \\
 328.4 \quad \frac{57.5^{\vee}}{142.9^{\vee}} \quad +0.72^{\vee}
 \end{array}$$

$$\begin{array}{r}
 91.0 \\
 150.2 \quad 59.2^{\vee} \quad +0.72^{\vee}
 \end{array}$$

$$\begin{array}{r}
 258.6 \\
 342.4 \quad \frac{23.2^{\vee}}{143.0^{\vee}} \quad +0.71^{\vee}
 \end{array}$$

mean. $+0.93^{\vee}$

$$\begin{array}{r}
 10 \quad 1 \quad 20 \\
 \hline
 116 \quad 55.^{\vee} \\
 9 \quad 52 \quad 22.^{\vee} \\
 +5 \quad +0 \quad 50.^{\vee} \\
 \hline
 14 \quad 59 \quad 12.^{\vee} \\
 2729.6245+^{\vee}
 \end{array}$$

April 27, 1910

Same again III
Index R+A. A.

10 4 5

79.5
163.4 $+3.9^v$
2717
330.4 $\frac{52.7^v}{142.6^v} +0.72^v$

92.7
152.6 59.9^v
258.0
343.5 $\frac{25.5^v}{145.4^v} +0.67^v$
 $\frac{+0.70^v}{+0.60^v}$

Index L+B B.

352.0
70.7 72.7^v
184.1
240.2 $\frac{56.1^v}{134.2^v} +0.22^v$

2.8
61.2 52.4^v $+0.22^v$

173.8
249.4 $\frac{76.4^v}{134.2^v} +0.22^v$

mean $+0.72^v$

10 9 55
14 0.
10 7 0.
+5 +0 50.

15 7 50. P.A. 116.5 Yermier B

2729.6305+

W's watch used for times
Waldt 0 min. 50 secs. slow

L. P. P.

April 28, 1910 (Thursday)

R. X. Cassiop.

2	17
10	17
8	0

+66.8
W. d. h. Rowe Rec Phot T
Full Aperture Used.
Index L + A B.

7 46 35

354.4		Comp Star Dis
68.1	73.7 ✓	
187.6	48.2 ✓	
235.8	121.9 ✓	+1.15 ✓

7.2	50.2 ✓	+1.14 ✓
57.4	73.0 ✓	
174.2	123.2 ✓	+1.12 ✓
247.2		

Index R + B. A.

262.0	74.2 ✓
336.2	48.6 ✓
97.2	122.8 ✓
145.8	+1.13 ✓

+1.06 ✓

7	53	10
7	99	45.1 ✓
7	49	52. ✓
5		-19. ✓
12	49	33. ✓
8790.	5344 ✓	

274.1	51.6 ✓
325.7	77.1 ✓
82.3	128.7 ✓
159.9	+1.00 ✓

Mean +1.10 ✓

April 28, 1910.

Same Again II
Index R+B. A.257.0 80.5[✓]337.5 47.2[✓]97.8 127.7[✓] +1.03[✓]

145.0

276.7 47.9[✓]324.6 75.0[✓]84.2 122.9[✓] +1.13[✓]

159.2

+1.08[✓]

Index L+A B.

175.5 72.9[✓]248.4 50.8[✓]6.2 123.7[✓] +1.11[✓]

57.0

+1.10[✓]185.9 57.2[✓]237.1 73.1[✓]355.1 124.3[✓] +1.10[✓]

68.2

Mean +1.09[✓]

8 2 45

110 45[✓]7 59 22[✓]+5 -19[✓]12 59 3[✓]2790.5410[✓]

April 28, 1910.

Same Again III
Index L+A. B.

8 13 15

173.2	75.1 [✓]
248.3	50.7 [✓]
5.5	125.8 [✓] + 1.07 [✓]
56.2	

+1.06[✓]

188.2	47.2 [✓]
235.4	80.0 [✓]
351.1	127.2 [✓] + 1.04 [✓]
71.1	

Index R+B A.

82.2	77.1 [✓]
159.3	49.4 [✓]
275.6	126.5 [✓] + 1.05 [✓]
325.0	

+1.06[✓]

8	20	5
<hr/>		
	33	20. [✓]
2	16	40. [✓]
+5		-19. [✓]
<hr/>		
13	16	21. [✓]
2790.55	31	

96.0	50.6 [✓]
146.6	75.6 [✓]
261.8	126.2 [✓] + 1.06 [✓]
337.4	

Mean +1.06[✓]

P.A. 212.2 Vernier B

April 28, 1910.

R. Coronae

15	44
<u>11</u>	<u>14</u>
4	30
7	30

+26.5
W Obs. Bore Rec. Phot T.

Index Left. B. I
97.2 ← Comp Star Dis.

144.9	47.7 ✓
283.8	<u>33.8</u> ✓
317.6	81.5 ✓ +2.15 ✓

104.8	34.8 ✓	+2.08 ✓
139.6	<u>52.1</u> ✓	
274.1	86.9 ✓	+2.00 ✓
326.2		

Index Right. A.

5.1	51.4 ✓
56.5	<u>32.4</u> ✓
194.2	83.8 ✓ +2.08 ✓
226.6	

+2.14 ✓

16.2	31.8 ✓
48.0	<u>48.0</u> ✓
185.8	79.8 ✓ +2.20 ✓
233.8	

8	47	20
<hr/>		
22	0.	✓
2	44	0. ✓
✓	-19.	✓
<hr/>		
13	43	41. ✓
<hr/>		
2790.	5720	✓

Mean +2.11 ✓
C.R. = $\frac{7.32}{9.43}$ ✓

April 28. 1910

Same Again. II
Index Right. A.

8 51 45

7.2	48.0 ^v
55.2	<u>30.6^v</u>
195.0	78.6 ^v + 2.24 ^v
225.6	

+ 2.20^v

16.0	32.4 ^v
48.4	<u>48.8^v</u>
186.4	81.2 ^v + 2.16 ^v
235.2	

Index Left. B.

274.1	52.2 ^v
326.3	<u>35.1^v</u>
103.8	87.3 ^v + 1.99 ^v
138.9	

+ 1.97^v

284.3	33.9 ^v
318.2	<u>54.6^v</u>
93.8	88.5 ^v + 1.95 ^v
148.4	

Mean + 2.08^v
7.32^v
 9.40^v

8	59	45
	11	30. ^v
2	55	45. ^v
+5		-19. ^v
13	55	26. ^v
2790.	5202	^v

April 28. 1910

Same Again III

Index Left. B.

9 3 40

272.2 53.7^v
 325.9 34.4^v
 103.6 88.1^v +1.96^v
 138.0

+1.99^v

284.2 32.1^v
 316.3 54.0^v
 93.2 86.1^v +2.02^v
 147.2

Index Right. A.

185.4 50.8^v
 236.2 30.9^v
 15.5 81.7^v +2.14^v
 46.4

+2.14^v

194.6 31.8^v
 226.4 50.4^v
 5.8 82.2^v +2.13^v
 56.2

9 9 55
 13 35^v
 9 6 40^v
 +5 -19^v

14 6 29^v P.A. 333.3
 2790.5272^v

Termier B

Mean +2.06^v

W's watch used for times

7.32^v
 9.32^v

Watch 19 sec fast.

L. P. R.

Apr. 30, 1910. (Saturday),

R X Cassio. H. obs. Ross Rec.
 2 17 +66.2 Phot T
 10 29
 +2 12 Full Aperture Used.

Index R+B

7 53 25

83.2 ← Comp Star Dis
 157.0 73.8
 274.7 51.4
 326.1 125.2 +1.08

96.2 +1.08
 146.1 49.9
 264.2 75.6
 339.8 125.5 +1.07

Index Lta.

357.2
 65.1 73.9
 184.2 53.1
 237.3 127.0 +1.04

6.4 +0.99
 56.1 49.7
 168.5 82.2
 250.7 131.9 +0.94

8 0 15
 53 40
 7 56 50
 +5 -50
 12 56 0

+1.04

April 30, 1910

Same Again II
Index L+A

8	4	0	353.1		
			69.6	76.5	
			187.0	<u>46.6</u>	
			233.6	123.1	+1.13
			5.3		+1.08
			56.3	51.0	
			172.1	<u>76.9</u>	
			249.0	127.9	+1.02

Index R+B

			262.6		
			337.6	75.0	
			97.2	<u>46.3</u>	
			143.5	121.3	+1.16
			275.6		+1.10
8	13	35	326.1	50.5	
8	17	35	83.8	<u>76.0</u>	
8	8	48	159.8	126.5	+1.05
+5		-50			
13	7	58			

+1.09

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Same Again III
Index R+B

8 27 55

263.6		
335.4	71.8	
96.0	<u>50.5</u>	
146.5	122.3	+1.14

275.0		+1.08
329.1	54.1	
84.0	<u>73.5</u>	
157.5	127.6	+1.03

Index f+a

175.1		
249.3	74.2	
4.4	<u>51.8</u>	
56.2	126.0	+1.06

186.3		+1.06
-------	--	-------

8	35	50
	63	45
8	31	52
+5		-50

236.6	50.3	
353.0	<u>75.2</u>	
68.2	125.5	+1.07

13 31 2

P.A. 31.3 Vermier B.

+1.07

Observations rather difficult: region rather low;
and atmospheric conditions rather poor.

April 30, 1910.

R. coronae.

15	44	+ 26.5
11	34	W. obs. Power Rec.
4	10	Phot T.
7	50	

Index Lt B ← Comp Star Sec.

8 57 53

147.7	50.9	
282.4	37.2	
319.6	88.1	1.96

103.4	36.8	1.92
148.2	54.8	
272.8	91.6	1.87
327.6		

Index R + a.

6.4	49.3	
55.7	33.4	
194.1	82.7	2.12
227.5		

2.08

13.8	35.4	
49.2	50.0	
185.7	85.4	2.04
235.7		

Mean 2.00

9	5	35
122	88	
9	1	44
+5	-50	
14	0	54

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Same Again
Index L+A.

II

9 8 45

5.0	51.2	
56.2	<u>330</u>	
194.0	84.2	2.07
227.0		

2.05

14.1	35.1	
49.2	<u>506</u>	
185.3	857	2.03
235.9		

Index L+B.

271.6	56.5	
328.1	<u>361</u>	
102.6	92.6	1.84
138.7		

1.87

282.3	36.7	
319.0	<u>540</u>	
93.5	90.7	1.90
147.5		

Mean 1.96

9	16	0
<hr/>		
	24	45
9	12	22
+5		-50
14	11	32

P.A. 153.5 minus B

Ws watch used for times
Watch 50 sec fast.

Apr. 30. 1910.

Halley's Comet.

$$\begin{array}{r} 23 \quad 50 \quad + 7.9 \\ 17 \quad 0 \\ \hline 6 \quad 50. \end{array}$$

✓ 10.

Cloudy.

15 15

Thickly cloudy everywhere. No chance
for comet this morning.

1910pnae.proj..601w