KG
11365
56[illegible]

KG 11365.56 b

KG 11365.565

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January 27, 1904.

Continued from Book 142.

044068 – Camelop. Wells.
phot T.
9.5" cap

04 40 + 68.4
07 40
3 00

Left & Above

224.8 ∠ comp ✱ dis
11 14.4 283.0 58.2
34.3 75.4
109.7 133.6 + 0.90
212.4
292.2 79.8 ~~+ 0.94~~ +0.84
42.8 60.6
103.4 ~~140.4~~ ~~130.~~ +0.77 ~~+ 0.97~~
R. & B. mean = ~~+ 0.84~~ +0.79
132.0
195.8 63.8
304.3 79.0
23.3 142.8 + 0.72

123.9 + 0.74
11 21.0 202.~~8~~2 78.3
35.4 312.4 62.7
11 17.7 15.1 141.0 + 0.75
16 17.7
6007.

January 27, 1904.

P α B.

II

132.2
11 23.0 195.5 63.3
303.8 79.9
23.7 143.2 +0.71

124.1 +0.76
202.0 77.9
313.0 60.6
14.2 138.5 +0.80

P α. Mean = +0.80

35.6
110.2 74.6
223.4 60.6
284.0 135.2 +0.87

43.3 +0.84
11 29.6 103.7 60.4
215.4 77.1
11 26.3 292.5 137.5 +0.82
16 26.3 Gen. mean +0.80
6507.

Pa = 79.5 Ver B
~~Ha~~ = +3:30 West
Dec = +68.2 ~~North~~
11 35 S.T. = 8:14
Spwh = { −1.5 B. / −0.5 C.

L. P. J.

Jan. 30. 1904. (Saturday).

Double Stars (Special List) No. No.

$2^h\ 30^m$ S.T. = $5^h\ 40^m$ E.T.

1 30

+1 0 −30.5

2 50

1 30

+1 20

5 55 Sky cloudy and especially so in this region. No stars visible in finder and only one dimly seen in large telescope. ~~Sta~~ This dimly seen star does not show duplicity, at least, in this sky. Moon up and nearly full also.
Impossible to do anything with double to night. Sky growing worse.

7 30 Cs watch correct. + used tonight

Experiment with one of the old eyepieces of about 1" focal length

7 45 × and of rather long working distance. Eyepiece seems to work quite home to focus when used with ~~[illegible]~~ phot. R.

January 30 1904.

ρ Cassiop — W.L.B. Phot I.

23 49 +57.4 — 9″5 cap

28 39

4 50

L.P.B

314.5 ∠ Var dis.

7 56.6 — 12.2 — 57.7″

137.2 — 51.0″

188.2 — 108.7″ — 1.45″

317.4

368.8 — 51.4″ — 1.50″

136.5 — 53.5″

190.0 — 104.9″ — 1.54″

R.H.A. — Mean = — 1.63″

229.8

277.7 — 47.9″

50.4 — 47.5″

97.9 — 95.4″ — 1.77″

230.0

8 01.8 — 247.8 — 47.8″ — 1.76″

118.4 — 50.0 — 48.5″

7 59.2 — 98.5 — 96.3″ — 1.75″

12 59.2

January 30 1904

II

RVa
228.3
8 03.4 277.~~8~~ 4 49.1
48.7 50 3
99.0 99.4 − 1.67

228.0 − 1.67
278.2 50.2
48.9 49.1
98.0 99.3 − 1.67
Mean = − 1.66
LOB
137.2
191.0 53.8
316.2 53 4
369.6 107 2 − 1.73

137.0 − 1.66
8 09.0 188.7 51.7
8 06.2 318.4 50.6
13 06.0 369.0 102.3 − 1.60

Ra. 12 1.0 Ver B
Ha. 5.15 West
Dec. + 57.4 North
S.T. = 5.05 E
Sp. wh = { − 0.5 B.
{ + 0.5 C.

January 30, 1904.

Double

5 17.7 -24 52

5 17 -24.9 wide

5 27 Phot R.

0 1°

P.a. 110° Dist 4" Magns 5 1/2 & 7.5

1

2.2 < brighter dis.

8 5 49.0 46.8

357.2 52.6

49.8 99.4 — 1.67

183.2

234.3 51.1 — 1.62

358.8 52.4

51.2 103.5 — 1.57

Reversed Mean = — 1.50

90.9

141.2 50.3

255.4 63.6

319.0 113.9 — 1.33

90.3

9 03 143.2 52.9 — 1.38

8 57 267.8 56.8

13 57 G.M.T. 324.6

109.7 — 1.42

The double measured with all care possible, waiting for moments of as good definition as might be.

January 30, 1904.

~~The comp~~
Seeing most of the time quite blurry especially with the power of about 250. The companion was practically not seperated at all from the principal star but appeared as a sort of a wedged shape projection with once in a while a slight tendency
9 14 to seperation. Measurements are not considered the very best, especially since seeing is rather poor tonight companion close and altitude somewhat low.

U Cephei with Phot T.

0 50 + f1.1
6 30
5 40

C's watch used.

Over

Jan. 30, 1904

I

Below
303.0 <comp ~~+~~ dis
9 46 02 23.7 80.7
114.0 101.0
215.0 181.7 —0.05
178.3

293.8
47 55 31.1 87.3 +0.10
122.9 79.5
202.4 166.8 + 0.25
Above mean = +0.16
214.8 8.41
51 06 290.7 8.57
26.6 76.9
120.2 93.6
170.5 +0.18

206.9
9 52 46 300.2 93.3 +0.22
19 49 36.9 72.7
9 49 27 109.6 166.0 +0.27
5 -2
14 49 25
6510.6177
6508.1994 Ep. 3457
2.4183
2.4929
-0.0746

January 30, 1904

II

above
216.7
9 54 50 291.0 — 74.3
31.2 — 85.2
116.4 — 159.5 + 0.39

209.8
5 6 42 ~~300~~ 296.4 — 86.6 + 0.38
37.2 — 73.3
110.5 — 159.9 + 0.38

Mean = + 0.40
0.41
0.81

Below
127.3
18 00 00 199.8 — 76.5
300.3 — 86.7
27.0 — 163.2 + 0.32

120.2
10 02 00 206.3 — 86.1 + 0.41
23 33 32 307.~~8~~5 — 67.6
9 58 23 116.4 — 153.7 + 0.50
5 − 2
14 58 21
6570.6239
6508.1994
2.4245
2.4929
−0.0684

January 30, 1904

III

Below
130.2
10 04 18 198.8 68.6
301.8 82.9
247 151.5 + 0.55

119.7
06 16 207.7 88.0 + 0.48
307.9 70.0
17.9 158.0 + 0.42

Above Mean = + 0.56
41.6 8.41
08 26 106.6 8.97
212.2 65.0
295.0 82.8
147.8 + 0.62

31.8
10 10 30 114.1 82.3 + 0.64
29 30 222.4 63.3
10 07 22 285.7 145.6 + 0.66
5 - 2
15 07 20
65 10.6 301
65 08.1994
2.4307
2.4929
- 0.0622

January 30, 1904

IV

Above
~~112.5~~
~~10 17 52 105.9~~
212.8
10 15 23 294.0
43.4
105.3

222.0
17 00 285.8
34.9
111.1

81.2
61.9
143.1 + 0.71

63.8 + 0.74
76.2
140.0 + 0.77
Mean = + 0.73
8.41
9.14

Below
122.2
10 19 53 207.48
314.5
16.2

82.6
61.7
144.3 + 0.69

132.2
10 22 30 195.42
34 46 304.0
10 18 42 284.28
5 −2

63.0 + 0.72
78.8
141.8 + 0.74

15 18 40 P.A. 195.5 Ver B
6570.6380 H.A. + 6:27 West
6508.1994 Dec = + 81.8 ~~North~~
2.4386 S.T. = 7:23
2.4929 Jwh = { −1.5 B, −0.5 C }
− 0.0543

Seeing very poor
images blurry
moon nearly full
settings somewhat
difficult

Jan. 30, 1904

04 40 68 – Camelop Wells

4 40 +68.4 ~~Plott~~

7 28 9''5 Cap

2 48

I

~~Left~~

218.3 L comp + dis

10 42.4 289.5 71.2

43.4 57.8

101.2 129.0 +1.00

224.7

284.7 60.0

36.2 71.6 +0.98

107.8 131.6 +0.95

Right mean = +0.85

134.4

194.8 60.4

306.3 77.1

23.4 137.5 +0.82

126.5 +0.72

10 49.8 200.4 73.9

12.2 301.4 73.2

10 46.1 14.6 147.1 +0.63

15 46.1

Jan. 30 1904.

II

Right.

132.7

10 51.6 195.9 63.2

305.7 76.4

22.1 139.6 +0.78

124.8 +0.80

201.5 76.7

312.3 61.6

13.9 138.3 +0.81

Left Mean = +0.84

42.4

102.0 59.6

217.6 74.9

282.5 134.5 +0.88

37.1 +0.87

10 58.0 110.4 73.3

9.6 222.5 62.4

10 54.8 284.9 135.7 +0.86

15 54.8 Final Mean = +0.84

P.A. 80.0 Ver B

Sid. T. 7 5 3

11 05 ~~Dec~~ 68.2 North Over

~~H.A.~~ 3:11 West

Sp Wh { −1.5 B

−0.5 α

Jan. 30. 1904

Seeing fairly good on a ~~[illegible]~~ last object. Var. nearly a magn. < Comp. * as seen in Finder

11 10 C's watch = 3.0 fast.

L. P. P.

[illegible] Feb. 1, 1904 (Monday)

Double at 5 17 - 24 52

5 17 - 24 9
5 5 7
0 40

910 seeing very bad: images very blurring nearly all the times, due to high wind and sudden clearing. Impossible to measure double tonight.

928 Sky practically all cloudy

o Ceti W. Obs.
Phot

2 12 - 3.6
6 32
4 20

937 abandoned for the present
Too cloudy

ρ Cassiop. W. Obs.
Phot T.
9.5 cap

2 3 49 +57.8
3 0 39
6 00

943 clouds

Feb. 1, 1904

9 45 Clouds again

Left & Below

316.6 < Var dis

9 56.2 10.6 clouds 54.0

137.2 54.8

192.0 108.8 — 1.45

315.0 — 1.44

11.8 56.8

136.6 52.9

189.5 109.7 — 1.42

Right & Above mean — 1.46

226.6

248.4 51.8

~~45.8~~ 56.4

102.2 108.2 — 1.46

226.6

10 04.6 280.0 53.4 — 1.49

10 00.4 47.6 52.1

15 00.6 99.7 105.5 — 1.52

Feb. 1, 1904

II

R&a.

226.6
10 06.6 279.1 52.5°
45.2 56.5°
101.7 109.0° −1.44°

226.0 −1.52°
279.1 53.1°
~~4~~48.9 49.3°
98.2 102.4 −1.60°

L & B

Mean = −1.48°

137.4
189.6 52.2°
315.4 56.4
11.8 108.6 −1.45°

134.9 −1.44°
10 12.2 191.2 56.3°
10 9.4 317.3 52.9°
15 9.6 ~~369.7~~ 109.2 −1.44
370.2

Final mean −1.47°

P.a. 120.5
S.T. 7:15
H.a. 7:26 West
Dec. +57.4 North
Sp Wh. 5 −0.5 B
+0.5 C

Feb. 1, 1904

10 18 Cs' watch = 14s slow

04 40 68 — Candolf W.C.L.s

Plate F

8½" cap

4 40 +68.0

7 40

3 00

⊥

Left + D above

40.A ∠ comp. * dis

10 40.8 105.3 64.5

215.2 75.3

290.5 139.8 +0.78

35.5

107.4 72.2 +0.82

221.7 63.5

285.2 135.7 +0.86

mean = +0.76

R.&B.

312.1

15.9 63.8

124.5 78.2

202.7 142.0 +0.73

305.0 +0.70

10 47.2 22.0 77.0

10 44.0 129.2 68.0

15 44.2 197.2 145.0 +0.67

Feb. 1, 1904

II

ROB

311.1
10 49.2 14.9 63.8
127.2 75.2
202.4 139.0 +0.79

+0.76
305.5
21.6 76.1
131.3 65.4
196.7 141.5 +0.74

LOA Mean = +0.79

220.4
286.4 66.0
35.6 73.6
109.2 139.6 +0.78

215.4 +0.82
10 57.0 218.0 73.4
10 53.1 41.2 62.9
15 53.3 104.1 136.3 +0.85

Mean = +0.78

P.A. 80.0 Ver. B. | When obs. looked in
S.T. 8.00 | finder before meas.
H.A. 3:18 West | ~~he~~ the var.
11 05 Dec +68.3 North | appeared little brighter
Sp. Wh ~~S~~ −1.5 B | than one Sat. relative
−0.5 C | ~~to~~ comp *.

L. P. P.

Feb. 3, 1904 (Wednesday)

7 08 C's watch = 11^s slow

Iris Webb

6 34 +17.8
4 20
2 14
9 46

6 29 +16.6
4 39
1 50
10 10

s m
(9.3) 38.5 0
(8.3) 36.8 0
(5.5) 42.0 1
(8.6) 35.5 3
41.0 3

31.0 50.0
35.0 54.0
36.0 55.0

Iris fols +17°.1370 (8.6) by 5^s & is
7 43 3'.8 North of it.

The star assumed for Iris
tonight is probably Iris, as it is

Feb. 3, 1904

not in the DM is of about the required brightness and there is no other star near this region which could be taken for Iris.

C's Watch used

Double at 5 17.7 -24 5.2

Webb.

Plot

Right

261.8 < br. dis

8 10.0 335.8 74.0

261.2 74.5

335.7 148.5 + 0.60

~~81.7~~ 83.4 68.6 + 0.74

157.0 65.7

264.3 134.3 + 089

330.0

Left Mean = + 0.93

~~87.8~~

175.0

236.7 61.7

357.2 59.2

56.4 120.9 + 1.17

173.2

8 28.0 235.3 62.1 + 1.12

8 19.0 354.8 63.0

13 19.2 57.8 125.1 + 1.08

over

Feb. 3, 1904.

Meas. tonight ~~very~~ quite difficult on account of low altitude and blurry seeing. The ~~ot~~ companion could only be measured as a wedge-shaped projection attached to bright star. Considerable of the time this projection was ~~invisible~~ not seen as a projection on account of blurry seeing, but at such times observer waited to get it as well as possible. The obs. however tonight and the previous night not considered over satisfactory.

Iris W Obs

6 29 +16.6 Phot T

5 55

0 34

11 26

440

47.5

8 56 Iris now fols the 8.6 by $3^s.5$.

Comp star = +17° 13681 (9.4)

Feb 3, 1904.

42.8
15.0

27.0
54.5

B 236 B 394
9 12 7.5 9 1 2 00
13 7.7 13 00

B 236 used on Dis I

Left + above

311.0 < D in dis

9 18 08 14.1 63.1
136.8 54.0
190.8 117.1 − 1.26
315.8
2 08 369.4 − 1.25
53.6
131.9 64.3
196.2 117.9 − 1.24
R & B Mean = − 1.40

228.1
27 7 278.6 50.5
45.1 57.7
102.8 108.2 − 1.46

224.0 − 1.54
9 30 40 282.2 58.2
17 05 53.1 42.7
9 24 16 95.8 100.9 − 1.63
5 − 9
14 24 07 E.M.T.

.6514

~~Jan~~ Feb. 23. 1904

RtB

II

229.4

9 34 12 278.1 48.7

43.8 58.7

102.5 107.4 −1.48

222.4 61.6 −1.50

37 30 284.0 44.4

51.5 106.0 −1.51

95.9

L.a. mean = −1.41

138.2

43.30 190.8 52.6

311.6 62.6

14.2 115.2 −1.30

13$\overset{2}{\cancel{X}}$.2 −1.32

9 46 45 194.8 62.6

161 57 317.4 50.4

9 40 29 368.1 113.0 −1.35

5 −12

14 40 17

6514.

P.a. = 157.3 Var B

HA = +0:19 West

Dec = +17.2 North

S.T. = 6:58

Sp Wh = {−2.5 a
−1.5 B
−0.9 C

(not too even)

Feb. 3, 1904

Seeing somewhat poor; moon bright; observations ~~a little~~
~~a~~ little difficult. Telescope
9 57 about on meridian and observer
down on his knees on the pier. Extreme
care exercised

Clouds

B. 236   B 394

9 59 15.0   ~~9 5 9 5.0~~

~~C's watch used hereafter~~

04 40 68

— Camelop.

04 40 + 68.0   W. Obs.
07 10   Phot. T.
2 30   9.5" cap.

above

41.8   < comp * dis

1012.6   102.6   60.8

217.4   71.8

289.2   132.6   +0.92

38.8

108.0   69.2   +0.94

223.2   61.0

284.2   130 2   +0.97

Below   mean = +0.90

313.7   ~~+~~

15.7   62.0

126.9   73.1

200.0   135.1   +0.87

(over)   +0.85

Feb. 3, 1904

Same cont.

306.8

10 21.0 21.0 74.2

37.6 132.2 63.1

10 18.8 195.3 137.3 +0.83

15 20.0

P.A. 260.7 Vis B ~~[illegible]~~
H.A. +2:52
Dec. +68.2
S.T. 7 33
Sp. Wh. { −1.5 B
{ −0.5 C

Seeing rather poor moon bright & little past the full, observations also made through passing feathery cloud. 10 30 This cloud was at times denser then thinner but not marked by hard sharp edges. Obs made with as much care as possible waiting for clouds to become thinner at setting.

Clouds grew denser & more abundant so impossible to get a second group

Feb. 4, 1904 (Thursday)

B 236			B 394		
7	07	55.8	7	08	00
	08	56.0		09	00

7 10 C's watch = 4^s fast

Iris

6 29 +16.6 Wells. phot.

4 25

2 04

9 56

26	56.0	(5.5)
28	31.5	Iris
28	49.0	(8.6)

~~Iris fols the (5.5) +17° 1357 by 3^m 55^s &~~
is 2.0 South of it.

49 41.0

57 43.5

56.0

Iris precs the (8.6) +17° 1370 by 17.5^s &
7 28 2.9 North of it.

Comp * same as last night

Bond 236 used on Iris.

Feb. 4, 1904

Left

312.9 < Iris dis.

7 41 37 14.7 61.8

~~1~~ , 139.6 49.2

188.8 111.0 − 1.39

319.6 − 1.40

44 13 366.6 47.0

130.7 63.3

194.0 110.3 − 1.41

Right Mean = − 1.43

222.5

47 21 285.5 63.0

49.7 46.5

96.2 109.5 − 1.43

230.6 − 1.46

7 50 00 277.2 46.6

23 11 42.3 60.0

7 45 48 102.3 106.6 − 1.50

5 − 3

12 45 45

6515.533

.325

.208

Feb. 4. 1904

II

Right

222.8
7 52 22 283.4 — 60.6
50.1 — 46.3
96.4 — 106.9 — 1.49

229.3
5 5 00 278.1 — 48.8 — -1.46
42.6 — 60.3
102.9 — 109.1 — -1.44

Left — Mean = -1.44

133.8
8 00 00 193.8 — 60.0
319.8 — 49.0
368.8 — 109.0 — 1.44

8 139.3
8 02 10 188.4 — 49.1 -1.42
229 32 310.2 — 61.5
7 57 23 142.7 — 110.6 -1.40
5 1 6
12 57 18
6515.540
.325
.215

Feb. 4, 1904

III

Left
132.4
8 17 38 194.7 62.3
329.6 49.8
369.4 112.1 — 1.37

139.6 −1.38
20 47 189.4 49.8
312.6 61.1
373.7 110.9 — 1.40

Mean = −1.38

Right
42.8
25 28 101.8 59.0
228.7 51.3
280.0 110.3 — 1.41

47.3 −1.38
8 28 08 98.8 51.5
222.3 61.0
11 53
8 22 58 285.3 112.5 — 1.36
5 — 9
13 22 49
.558
.325
.233

Feb. 4 1904

IV

Right

42.5
8 3 0 08 103.0 60.5
228.7 49.5
278.2 110.0 - 1.42

48.4 - 1.40
3237 96.6 48.2
222.6 63.5
286.1 111.7 - 1.38

Left mean = - 1.38

312.0 61.7
37 28 343.7 50.8
137.4 112.5 - 1.36
188.2

- 1.36

317.1
8 40 20 368.3 51.2
20 33 132.3 60.9
8 35 08 ~~194.1~~ 112.1 - 1.37
5 - 18 193.2
13 3457
.566
.825
.341

Feb. 4, 1904

V

Left

312.5
8 53 06 373.7 61.2
136.0 52.1
188.1 113.3 -1.34

318.6 -1.34
56 00 369.4 50.8
131.4 62.8
194.2 113.6 -1.34
47.6

Right Mean = -1.35

47.6
9 01 10 92.4 50.8
222.6 61.0
283.6 111.8 -1.38

41.4 -1.36
9 04 00 104.1 62.7
235 16 228.0 50.9
8 58 49 278.9 113.6 -1.34
5 15
13 58 .34

~~.583~~ .583
~~.359~~ .325
~~.224~~ .258

Feb. 4 1904

VI

Right
48.4
9 06 30 99.2 | 50.8
222.6 | 61.8
284.4 | 112.6 - 1.36

42.8 | - 1.36
09 30 104.4 | 61.6
227.6 | 51.4
279.0 | 113.0 - 1.35

Left | Mean = - 1.30
128.8
12 40 194.0 | 65.2
316.5 | 53.4
369.9 | 118.6 - 1.22

136.2 | - 1.24
9 18 00 189.8 | 53.6
48 40 311.8 | 63.2
9 12 10 345.0 | 116.8 - 1.26
5 - 18
14 11 52

.592
.584
.008

Feb. 4, 1904

VII

Left

131.0
9 37 00 193.3 62.3
315.3 55.1
379.4 117.4 - 1.25

- 1.26
135.6 53.7
40 03 189.3 62.2
311.8 115.9 - 1.28
374.0

Right Mean = - 1.30
42.6
45 45 104.1 61.5
228.8 50.7
279.5 112.2 - 1.37

47.3 - 1.35
9 49 20 198.3 51.0
12 08 222.3 62.8
9 43 02 285.1 113.8 - 1.33
5 -23
14 42 39

.613
584
.029

Feb. 4 1904

VIIII

Right

44.2
9 52 40 105.5 61.3
228.8 51.2
280.0 112.5 — 1.36

48.5
9 55 15 99.4 50.9 — 1.34
221.6 63.9
285.5 114.8 — 1.31

Left mean = — 1.28

136.3
10 02 40 190.8 54.5
310.9 63.5
374.4 118.0 — 1.24

131.0 — 1.22
10 05 32 195.8 64.8
236 07 315.1 54.3
9 59 02 369.4 119.1 — 1.21
5 —25
14 58 37
.624
.584
+.040

Feb. 14 1908
Telescope Reversed
IX

10 15

Right
~~Left~~

485
10 21 50 98.5 50.0
222.8 60.5
283.3 110.5 — 1.41

436
25 00 101.4 57.8 — 1.43
227.4 51.4
278.8 109.2 — 1.44

Left mean = —1.38
316.8
10 31 14 369.3 52.5
131.1 61.9
193.0 114.4 — 1.32

312.1 — 1.34
10 34 00 373.5 61.4
11 2 04 136.4 51.4
10 28 01 188.1 112.8 — 1.35
5 — 29
15 27 32
644
.584
.060

Feb. 4 1906

*

Left

317.8
10 36 36 369.1 51.3
131.2 62.1
193.3 113.4 — 1.34

313.1
38 48 374.6 61.5 −1.36
136.8 49.7
186.5 111.2 —1.39

Right Mean = −1.46

229.4 light
43 33 277.0 + clouds 47.6
45.0 57.0
102.0 104.6 — 1.55

224.9 — 1.57
10 48 30 282.0 Cld. 57.1
167 27 50.3 45.6
10 41 52 95.9 102.7 — 1.59
5 — 31
15 49 21 PA = 178.2 Var B
.653 RA = +1.32
.586
11 0659 Dec = +18.2
S.T. = 8:08
Sp Wh. = −1.5 B
−0.5 C

Somewhat troubled by clouds in last group. Clouds of a feathery character without hard edges but of varying density ~~last settings a little~~

Feb. 4, 1904.

uncertain and very, last one a
little more so, but several
different attempts at last setting
make it about the same each
time altho images were very
faint. Moon three days past the
full, rose at 9:14. Seeing a
little better the last of evening
than the first, moonlight
somewhat troublesome

B 236 B 384
11 11 35.7 11 11 0.0

L. P. P.

Feb. 5, 1904 (Friday)

B. 236
7 05 03.0

B 394
7 05 00

7 06 C's watch = 1^m slow

Iris Wells. Plot T.

6 29 +16.6
4 29

2 00
10 00

B. 236 used on Iris.

7 19 44.0
20 59.5
21 37.5

(5.5)
Iris
(8.6)

7 21 Iris, ~~the~~ prec (8.6) = $+\overset{\alpha}{17.}1370$ by $\overset{s}{38.0}$
and 2'.9 North

2316
12

Same comp star used as on the two previous nights

(OVER)

Feb. 5 1904.

I

R & A.

230.8
) 35 10 276.8 < Iris dis 46.0
40.3 64.6
104.9 110.6 - 1.40

-1.36

220.8
37 26 285.5 64.7
46.8 50.0
96.8 114.7 - 1.31

L & B. Mean = - 1.40

137.3
43 07 187.2 49.9
313.2 59.2
372.4 109.1 - 1.44

132.3 - 1.44
7 45 50 192.2 59.9
161 33 318.8 48.5
7 40 23 367.3 108.4 - 1.45
5 - 9
12 40 14
6516.528
6516.361
0.167

Feb. 5, 1904

II

L O B.

138.7
7 48 48 186.4 47.7
313.0 58.8
371.8 106.5 — 1.56

130.0 — 1.44
51 40 192.7 62.7
319.4 48.3
367.7 111.0 — 1.39

R O A. Mean = −1.44
46.8
56 07 96.4 49.6
222.9 60.6
283.5 110.2 — 1.41

42.8 1.44
7 59 24 100.9 58.1
15 59 228.5 50.2
7 54 ~~00~~ 278.7 108.3 — 146
5 −12

12 53 48
6516.537
6516.361

0.176

Feb. 5, 1904

III

Rγα

49.0

8 18 50 95.8 46.8

222.8 59.0

281.8 105.8 — 1.52

42.1 — 1.52

21 38 106.1 59.0

230.2 46.2

276.4 105.2 — 1.53

Rγβ mean = — 1.50

140.7

27 23 185.9 45.2

330.7 62.1

372.8 107.3 — 1.48

132.8 — 1.48

8 29 50 191.7 58.9

17 41 329.3 48.6

8 24 25 367.9 107.5 — 1.48

5 -18

13 24 07

6516.558

6516361

0.197

Feb. 5, 1904

IV

LOA

138.9
8 33 22 185.2
311.0
373.2

132.2
35 38 192.2
318.2
368.3

46.3
62.2
108.5 − 1.45

− 1.44

60.0
50.1
110.1 − 1.42

RTB

231.1
39 38 278.2
40.5
101.6

47.1
61.1
108.2 − 1.46

Mean = − 1.45

222.9
8 42 40 283.6
31 18 49.0
8 37 50 96.4
5 − 20
13 37 30
6516.568
6516.361
0.207

60.7
47.4
108.1 − 1.46

− 1.46

Feb. 5, 1904

~~VII~~
V

R of A

228.5
8 58 23 277.7   49.2
43.8   57.6
101.4   106.8   − 1.49

223.3
9 00 50 282.8   59.5 − 1.47
46.8   49.2
96.0   108.7 − 1.45

L of B   Mean = − 1.48

139.0
9 06 10 186.3   47.3
311.0   60.4
371.4   107.7   − 1.47

− 1.48

132.4
9 08 26 191.4   59.0
13 49 318.8   47.6
9 03 27 366.4   106.6 − 1.50
5 − 25
14 03 02
6516.585
6516.361
0.224

Feb. 5, 1904.

LtB

~~VI+~~
~~VI~~

316.9
9 11 40 367.2 — 50.3
133.0 — 58.3
191.3 — 108.6 — 1.45

313.4 — 1.46
14 08 372.6 — 59.2
138.0 — 48.3
186.3 — 107.5 — 1.48

mean = 1.45

RtA.
226.8
20 14 277.4 — 50.6
43.6 — 57.8
101.4 — 108.4 — 1.45

222.3 — 1.44
9 24 28 282.3 60.0 ~~60.0~~
30 30 ~~48.3~~ 49.7 ~~40.6~~
9 17 38 ~~96.4~~ 109.7 ~~108.6~~ — 1.42
5 -27 98.0
14 17 11 Pa. = 16.5 VerB
6576.595 Ha. = +0:14 West
6576.361 Dec. = +17.1 North
0.234 S.T. = 6:52
Sp. ck = { 1.5 B
−0.5 C

~~K~~Feb. 5 1904.

Troubled throout preceding observations by ~~*~~ more or less blurry seeing. At times seeing somewhat better, ~~but~~ and intervals of as good seeing as possible watched for.

B 236 B 394
9 45 32.5 9 45 5.0

044068 – Camelop WOb.
Phot T.
4 40 +68.4 9.5" cap
7 45
3 05 C's watch used now
Left
34.6 < comp * dis
10 400 101.6 740
223.1 595
282.6 1335 +091
41.3
100.5 59.2 +089
215.7 77.0
292.7 136.2 + +087
Right
mean +0.86
312.3
14.4 62.1
124.5 75.7
200.2 137.8 +0.82

Feb. 5, 1904

Same Continued

	303.3		
10 48.6	19.8	76.5	+0.84
15 44.3	134.0	59.3	
	193.3	135.8	+0.86

Mean = +

Right Same Over

II

	313.2		
10 50.6	14.2	61.0	
	125.2	73.8	
	*199.0	134.8	+0.88
	304.4		
	19.5	75.1	+0.86
	133.1	61.4	
	194.5	136.5	+0.84

Left

Mean = +0.86

	213.9		
	290.1	76.2	
	40.0	60.9	
	100.9	137.1	+0.83

	221.6		+0.86
11 00.0	283.0	61.4 ✓	
15 55.3	35.0	73.1	
	108.1	134.5	+0.89

(over)

omitted by mistake

see page 50

Feb. 5, 1904

P.a.	79.5 Var B
H.A.	3:37
S.T.	8:18
Dec	68.4
Sp Wl	-1.5 B
	-0.5 C.

Var. seems to be of about the
11 10 same brightness in finder as
~~well~~ when last observed.

L. P. P.

Feb. 8, 1904 (Monday)

~~tf~~

B 236 B 394
7 07 06.0 7 07 0.5

C watch = 10s fast at 7:08

Iris w Obs.
Phot T.

6 29 +16
4 42

1 47
10 13

~~7 26 43~~
7 26 53.5
27 19.5
28 47.0

(5.5)
Iris
8.6

7 27 Iris precs the (8.6) $+17^{\circ}.1370$ by $1^{m}\ 27^{s}.5$ & is $2'.2$ North of it.

7 27 Iris fols the (5.5) +17.1357 by $26^{s}.0$ & is $2'.6$ South of it.

Same comp. star as on the last night, is used tonight.
B 236 used for times on Iris
over

Feb, 21, 1904

I

above
221.4 < Iris dis. 63.1
7 44 30 284.5
45.8 50.1
95.9 113.2 −1.34

−1.34

227.0
7 48 42 277.7 50.7
~~3~~40.8 62.2
103.0 112.9 −1.35

Below
130.6
7 54 50 191.4
319.7 60.8
~~367.8~~ 368.3 48.6
109.4

1 −1.43

7 3

Mean — −1.38

Pa = 2?.1 m B
Ha = −1.04 East
S.T = 5.3
Dec = +17.2 North
Spuh −3.5 B
−2.5 C

Reject it as utterly impossible to proceed further, on account of the very blurry seeing. Relative brightness of images constantly changing and surrounded by shifting halos of light of variable diameter and intensity.

800

Reject above, impossible to finish group.

Feb 21, 1904.

ρ Cassiop. wells.

23 49 +56 57.4 Photo T.

30 03 9.5 cap.

6 14 C's watch now used I

Above

225.2 < Var. dis

8 45.0 278.2 53.0✓

43.5 56.5✓

100.0 109.5✓ — 1.43✓

223.1 59.1✓ — 1.43✓

282.2 50.2✓ — 1.43✓

46.9 109.3✓ mean = — 1.46✓

97.1

Below

139.1

186.0 46.9✓

312.9 58.9✓

11.8 105.8✓ — 1.52✓

133.3 — 1.48✓

8 52.4 190.3 57.0✓

97.4 317.7 51.9✓

8 48.7 369.6 108.9✓ — 1.44✓

5 — .2

13 48.5 G.M.T.

6519.

Feb. 8, 1904.

Below — II

136.7

8 55.6 — 184.9 — 51.2 ✓

313.2 — 57.4 ✓

10.6 — 108.6 ✓ — −145 ✓

134.4 — −144 ✓

190.0 — 55.6 ✓

315.3 — 54.2 ✓

369.5 — 109.8 ✓ — −142 ✓

Above — Mean = −146 ✓

43.0

97.2 — 54.2 ✓

226.1 — 55.0 ✓

281.1 — 109.2 ✓ — −144 ✓

45.7 — −149 ✓

9 02.4 — 99.0 — 53.3 ✓

118.0 — 227.2 — 51.6 ✓

8 59.0 — 278.8 — 104.9 ✓ — −154 ✓

13 58.8 G.M.T. — Gen. mean = −1.46 ✓

6519.

Pa = 301.4 Ver B

S T. = 6.33

9 09 — Dec = +57.3 North

Ha = 6 44 West

Spot = { −0.5 B, +0.5 C.

Feb. 8, 1904

T Persei Wells
Phot T

2 8 + 57.2
7 8
5 0

Above

40.4 < Var dis
1005.2 105.6 63.2✓
226.0 59.4✓ A
276.4 110.6✓ — 1.34✓

47.2
97.4 50.2✓ −1.30✓
217.5 67.2✓
284.7 117.4✓ −1.25✓
Below Mean = −1.28✓

310.8
15.5 64.7✓
135.7 52.1✓
187.8 116.8✓ − 1.26✓

316.4 S
10 13.2 368.2 51.8✓ −1.26✓
10 09.2 128.2 65.8✓
15 9.09 M.T. 194.0 117.6✓ — 1.25✓
6519.6312

Feb. 8, 1904

II

Below

309.2

10 14.6 13.9 64.7 ✓

133.9 53.1 ✓ B

187.0 117.8 ✓ -1.24 ✓

315.7 - 1.28

368.0 52.3 ✓

130.4 62.6 ✓

193.0 114.9 ✓ -1.31 ~~-1.28~~

Above Mean = -1.28

218.4 9.73

285.0 66.6 ✓ 8.45

47.6 48.6 ✓

96.2 115.2 ✓ -1.30 ✓

226.2 -1.28 ✓

10 21.6 277.7 51.5 ✓ A

36.2 410.7 65.7 ✓

10 18.1

15 17.9 106.4 117.2 ✓ -1.25 ✓

6519.6374 Gen. mean = -1.28 ✓

R.A. 339.2 Vart

S.T. 7:53

Dec. +58.7 north

H.a. +5.40 West

Spurth -4.5 B

-3.8 C

Feb. 8, 1904

044068 — Camelop I

20 obs.

4 40 +68.0 Plot T

8 05 9.5" cap.

3 23

R.A.

2234 < comp ★ dis.

10 45.0 2~~2~~1.6 58.2 ✓

37.1 68.3 ✓

105.4 126.5 ✓ +1.05 ✓

216.0

287.8 71.8 ✓ +1.02 ✓

43.9 57.0 ✓

100.9 128.8 ✓ +1.00 ✓

1013

133.5 mean = +0.94 ✓

192.7 59.2 ✓

302.8 75.8 ✓

18.6 135.0 ✓ +0.88 ✓

126.4 +0.87 ✓

10 51.0 200.5 74.1

10 48.0 309.7 61.9 ✓

15 47.8 G.M.T. 111.6 136.0 ✓ +0.86 ✓

6519

Feb. 8, 1904

II

P.A.B.

134.9

10 53.0 190.7 55.8

303.6 76.3

19.9 132.1 + 0.9~~2~~4

180.5 +0.9~~8~~9

197.0 66.5

311.3 60.6

11.9 127.1 +1.04

~~Dist.~~ mean = +0.9~~6~~7

42.7

100.3 57.6

215.8 73.7

289.5 131.3 +0.95

35.0 +0.95

10 58.4 108.2 73.2

11.4 222.4 58.1

10 55.7 280.8 131.3 +0.95

15 55.5

6519. Gen. mean +0.96

P.A. = 80.0 Ver B

~~Ha~~ = 3.44 West

11 10 Dec = +68.4

S.T. = 8.26

S.pwl = { −1.5 B

{ −0.5 C

Feb. 9. 1904. (Tuesday).

Iris. Fr. So.

6 29 +16.
5 02
1 27

(Colson's) C's watch	B 236			
	8	42	52.8	5.5 mag.
7 43	8	43	6.5	Iris
	8	44	46.5	8.6 mag.
	8	45	19.5	5.5 mag.
7 45	8	45	32.4	Iris
	8	47	12.5	8.6 mag.

Iris follows the 5.5 mag. (+17° 1357) by 13.3^s and is 3.0' south of it.
Iris precedes the 8.6 mag. (+17° 1370) by 1^m 40.0^s and is 2.0' north of it.

Feb 9. 1904.

U Cephei Phot. T. — W. obs.

Index right & below

C's Watch				
		33.9 < var dis		
8 19.5	111.3	77.4 ✓		
	222.7	63.0 ✓		
	285.7	140.4 ✓	−0.77 ✓	
				−0.75 ✓
	41.9	61.8 ✓		
	103.7	80.3 ✓		
	212.7	142.1 ✓	−0.73 ✓	
	293.0			

Index left and above.

	301.2	80.9 ✓		
	22.1	65.0 ✓		
	129.9	145.9 ✓	−0.66 ✓	
	~~193.3~~			
	194.9			
				−0.64 ✓
	~~312.0~~ 310.8	62.2 ✓		
8 28.0	13.0			
8 23.8 ✓	~~117.4~~ 119.2	85.7 ✓		
5 0.2 ✓	204.9	147.9 ✓	−0.62 ✓	
13 24.0 ✓				

mean −0.70 ✓
2.41
1.71

Feb. 9. 1904.

Index left and above

297.6
8 30.6 25.8 88.2 ✓
128.0 67.3 ✓
195.3 155.5 ✓ −0.47 ✓

309.7 −0.51 ✓
~~14.0~~ 14.2 64.5 ✓
~~118.0~~ 119.0 86.6 ✓
205.8 151.1 ✓ −0.55 ✓

Index to right and below.

~~208.0~~ 210.3
293.3 83.0 ✓
36.8 71.0 ✓
107.8 154.0 ✓ −0.50 ✓

~~218.1~~ 216.7 −0.46 ✓
8 39.0 287.6 70.9 ✓
8 34.8 28.8 87.1 ✓
+5 0.2 115.9 158.0 ✓ −0.42 ✓
13 35.0 ✓

mean −0.48 ✓
8.41
7.93

6520.5660 ✓
6518.1713 ✓
+2.3947

Feb 9. 1904.

Index to right and below

207.7
8 41.5 296.2 88.5
~~36.9~~ 35.8 70.4
106.2 158.9 −0.40

~~218.1~~ 217.6 68.9 −0.41
44.8 ~~286.0~~ 286.5
26.9 89.1
~~116.5~~ ~~115.2~~ 116.0 158.0 −0.42

Index to left and above

113.1
50.1 ~~211.8~~ 208.0 94.9
~~307.0~~ 305.1 73.0
18.1 167.9 −0.23

125.9
53.3 ~~195.7~~ 198.0 72.1 −0.23
8 47.4 292.5 95.9
5 0.2 ~~29.9~~ 28.4 168.0 −0.23
13 47.6

Mean −0.32
0.41
0.09

6520.5747
6518.1713
+2.4034

Feb. 9. 1904

Index to left and above

113.1
8 57.3 208.6 95.5
303.3 76.6
19.9 172.1 −0.15

~~123.4~~ 119.6 81.7 −0.04
59.8 ~~201.1~~ 201.3
291.6 101.4
33.0 183.1
176.9 +0.06

Index to right and below.

22.4
9 63.3 ~~122.1~~ 119.6 97.7
210.0 81.8
291.8 179.0 −0.02

~~32.6~~ 31.0 +0.02
~~110.8~~ 112.7 81.7
199.8 101.9
301.7 183.6
176.4 +0.07
mean −0.01
8.41
8.40

9 7.2
9 1.9
5 0.2
14 2.1

6520.5848
6518.1713
+2.4135

Feb. 9. 1904.

Index to right and below

20.9

9 9.2 120.8 99.9 ✓

210.2 84.8 ✓

295.0 184.7 ✓ +0.09 ✓

175.3

~~28.9~~ 27.0 +0.15 ✓

11.7 115.8 88.8 ✓

102.2 ✓

199.8 191.0 ✓

~~303.0~~ 302.0 169.0 ✓ +0.21 ✓

Index to left and above.

288.3 106.1 ✓

14.9 34.4 92.2 ✓

115.7 198.3 ✓

~~207.0~~ 207.9 161.7 ✓ +0.35 ✓

298.0 90.1 ✓ +0.36 ✓

9 18.2 ~~26.8~~ 28.1 110.1 ✓

9 13.5 ✓ ~~107.3~~ 200.2 ✓

5 0.2 ✓ 106.1 159.8 ✓ +0.38 ✓

14 13.7 ✓ ~~216.4~~ 216.2

6520.5929 ✓

6518.1713 ✓

+2.4216

mean +0.26 ✓

8.41

8.67

Feb 9. 1904.

Index to left and above.

2881 106.8
9 24.9 34.9 98.0
111.0 204.8
~~208.0~~ 209.0 155.2 +0.47

+0.54
~~+0.44~~

293.1 98.7
27.1 31.8 113.4
104.0 212.1 +0.62
~~216.9~~ 217.4 147.9 ~~+0.[illegible]~~

Index to right and below.

15.0 111.7
30.5 126.7 98.3
204.7 210.0
303.0 150.0 +0.58

~~23.9~~ 22.8 98.2 +0.58
9 33.5 ~~119.4~~ 121.0 112.1
9 29.0 194.9 210.3
5 0.2 ~~307.0~~ ~~306.6~~ 149.7 +0.58
14 29.2

mean +0.56

$\frac{8.41}{8.97}$

S.T. = 7 08
65 20.6036
65 18.1713
+2.4323
H.a. = 6 12
Dec = 81.9
P.a. 195.5
Sprocket. −1.5 B. −0.5 C
(Colson's)
C's Watch is 15ˢ slow of B 394.

Feb. 9. 1904.

ρ ~~[illegible]~~ Cassiop. W. Ss.,
Phot. I.

2 3   49   +57.4
7   35

Index to left and below.

314.0 ∠ var. dis.   9.5 inch Cop.
10   18.9   13.0
~~131.0~~ 128.7   59.0 ✓
191.0   62.3 ✓
121.3 ✓   −1.16 ✓

310.5   61.6 ✓   −1.24 ✓
12.1   53.1 ✓
135.0   114.7 ✓   −1.31 ✓
~~186.0~~ 188.1

Index to right and above.

226.5
49.2 ✓
275.7   58.1 ✓
40.8   107.3 ✓   −1.48 ✓
~~[illegible]~~ 98.9

−1.42 ✓
~~222.8~~ 220.7   63.7 ✓
28.3   284.4
10   23.6   ~~47.0~~ 46.2   48.7 ✓
+5   +.2   ~~94.9~~   112.4 ✓   −1.36 ✓
15   23.8 G.M.T. - - - - -   mean −1.33 ✓
6520

Feb. 9. 1904.

Index to right and above

~~229.0~~ 228.8 47,2 ✓

10 31.0 ~~274.3~~ 276.0 65,3 ✓

38.0 112.5 ✓ −1,36 ✓

103.3

−1,32 ✓

~~220.7~~ 221.0 62.0 ✓

283.0 48.4 ✓

~~49.0~~ 48.5 110.4 ✓ −1.41 ✓

96.9

Index left and below.

~~138.1~~ 135.5

187.0 51.5 ✓

309.3 60.7 ✓

10.0 112.2 ✓ −1,37 ✓

−1,36 ✓

~~131.3~~ 127.7 62.5 ✓

10 39.2 192.2 190.2

10 30.1 316.3. 50.8 ✓

15 35.3 ~~6.6~~ 7.1 113.3 ✓ −1,34 ✓

6 5 20.

mean −1,37 ✓

S.T. = 8 18 Gen. mean −1.35 ✓

H.A = 8 26

Dec. = 56.2

Sprocket = ~~122.0 B~~. −0.5 B. + 0.5 C

P.A. = 122.0 B

Wednesday Feb. 10. 1904.

Iris

6 29 +16
5 16
1 13

~~56.5~~ ~~70~~
~~58.0~~ ~~100~~

B236

C's Watch 7 50

7 4~~4~~9 56.5 5.5 mag.
7 4~~4~~9 58.0 Iris
7 51 49.5 8.6 mag.

7 53 07.0 5.5 mag.
7 53 10.0 Iris
7 55 00.5 8.6 mag.
(+17° 1370)

Iris preceeds the 8.6 mag. (+17° 1370) by 1^m $51.^s0$ and is 1.9' north of it.

7 58 7.0
7 58 10.0

7 59 2.0
7 59 5.5

7 59 40.8
7 59 43.8

Feb. 10. 1904

Iris follows the 5.5 mag. (+17° 1357) by 3.0s and is 3.1' south of it.

ρ Cassiop   Phot T

23 49   +57.4
5 49

C's watch   Index to left and below

8 26.5 ~~25.8~~   135.2 < var. dis
186.8   51.6✓   9.5 inch cap.
310.9   62.9✓
13.8   114.5✓   −1.31✓

132.2   −1.36✓
190.2   58.0✓
316.7   52.5✓   −1.41✓
9.2   110.5✓

Index to right and above

46.2
~~93.8~~ ~~94.9~~ 95.9   49.7✓
220.3   60.9✓
281.2   110.6✓   −1.40✓

−1.46✓

41.3
8 34.3   97.3   56.0✓
ρ 30.4   228.0   50.0✓   −1.51✓
~~735~~ +.4
13 30.8   ~~276.9~~ 278.0   106.0✓
6521.

Mean = −1.41✓

Feb. 10. 1904

Index to right and above

47.1

8 36.7 96.1 49.0 ✓

223.1 57.9 ✓

~~283.7~~ 281.0 106.9 ✓ −1.49 ✓

−1.48 ✓

41.3

~~98.8~~ 96.1 54.8 ✓

227.1 52.9 ✓

280.0 107.7 ✓ −1.47 ✓

Index to left and below.

315.7

6.0 ~~B~~ 50.3 ✓

131.0 59.2 ✓

~~190.8~~ ~~189.8~~ 190.2 109.5 ✓

−1.43 ✓

308.4

8 46.9 9.3 60.9 ✓ −1.40

8 41.8 137.0 51.0 ✓

13 42.2 188.0 ~~119.9~~ ~~1.19~~

6521. 111.9 ✓ −1.37 ✓

Mean −1.44

S.T. = 6 32 Gen. mean −1.42 ✓

H.a. = 6 41

Dec = +57.2

P.a = 121.5

Sprocket = −0.5 B. + 0.5 C

Feb. 10. 1904.

Double Star.

5 18 — 24.9
6 46

1 28

Impossible to measure double. Seeing too poor.

o Ceti

2 14 — 3.4
7 03

4 49

Phot R.

Feb. 10. 1904. o Ceti

Index to right and below.

236.3 < var. dia.

9 38.2 245.6 9.3 ✓

56.7 9.8 ✓

66.5 19.1 ✓ −5.39 ✓

235.3 −5.34 ✓

247.1 11.8 ✓

57.0 8.2 ✓

~~65.0~~ ~~65.0~~ 65.2 20.0 ✓ −5.29 ✓

Index to left and above.

147.0

156.0 9.0 ✓

326.1 10.9 ✓

~~336.9~~ 337.0 19.9 ✓ −5.30 ✓

146.0 −5.28 ✓

9 50.5 156.9 10.9 ✓

88.7 ~~327.8~~ 326.7 9.4 ✓ −5.26 ✓

9 44.4

14 44.8 336.1 20.3 ✓

6521.

Mean −5.31 ✓

9.19

3.88

S.T. = 7 37

H.A. = 5 21

Dec. = −3.0

Region rather low. Observations a little difficult, but extreme

Feb. 10, 1904.

Care exercised and observations considered good. Region so low however that it is impossible to take a second group. Position angle not read as Phot. is not yet soldered. Region however thoroughly identified before beginning observations.

044068 – Camelop.

4 40 +68.0 Phot T.
8 10 9.5 Cop.
3 30

Feb 10. 1904.

Index to left and above

222.5 < comp. star. dis.
~~var. dis.~~

10 38.9 280.5 58.0 ✓

34.2 71.2 ✓

105.4 129.2 ✓ +1.00 ✓

+1.03 ✓

~~215.2~~ 215.8

286.9 ~~286.0~~ 71.1 ✓

44.9 54.9 ✓ +1.06 ✓

99.8 126.0 ✓

Index to right and below.

130.5

~~188.3~~ 189.8 59.3 ✓

301.0 77.6 ✓

18.6 136.9 ✓ +0.84 ✓

+0.84 ✓

122.1 76.9 ✓

10 47.5 199.0 60.2 ✓ +0.83 ✓

86.4 312.6 137.1 ✓

10 43.2 12.8

15 436

6.521

Mean +0.9~~8~~4 ✓

Feb. 10. 1904.

Index to right and below.

131.3
10 50.0 192.9 61.6✓
30.3.4 76.6✓
~~18.2~~ 20.0 138.2✓ +0,81✓

122.4 +0.84✓
198.2 75.8✓
~~312.0~~ 311.2 60.2✓
136.0✓ +0.86✓
~~10.8~~ ~~11.0~~ 11.4

Index to left and above

43.9
~~99.0~~ 99.9 56.0✓
~~212.8~~ 214.1 75.9✓
~~290.2~~ 290.0 131.9✓ +0.94✓

+0.95✓

33.3
10 59.4 107.3 74.0✓
10 54.7 ~~223.9~~ 223.1 56.9✓ +0.96✓
15 54.9 280.0 130.9✓
6521.

Mean ~~0.89~~ +0.90✓

Feb. 10. 1904.

Index to left and above

40.5
11 08.3 100.0 59.5✓
213.2 75.8✓
289.0 135.3✓ +0.87✓

32.9 +0.90✓
107.8 74.9✓
221.8 57.7✓
279.5 132.6✓ +0.92✓

Index to right and below.

~~313.4~~ 312.7
~~10.2~~ 11.5 58.8✓
123.0 73.2✓
196.2 132.0✓ +0.94✓

304.7 73.2✓ +0.93✓
11 14.5 17.9 59.4✓ +0.92✓
22.8 130.8 132.6✓
11 11.4 190.2
16 11.6
6521.

Mean +0.92✓
Gen. mean +0.92✓

Seeing a little poor
but observer waited for intervals of good seeing. Observations considered good.

S.T. = 8 56
H.A. = 4 13
Dec = +68.2
P. a 260.1 B.
Sprocket — 1.5 B, — 0.5 C

Feb. 10. 1904.

Colson's Watch used to-night. It is 22^s slow of B 394.

Feb. 11. 1904. (Thursday).

Iris. W. obs.

6 29 +16.

B 236

7 47 2.0 Iris
7 47 5.0 5.5 mag.
48 59.0 8.6 mag.

7 49 18.5 Iris
7 49 23.0 5.5 mag.
7 51 16.0 8.6 mag.

Iris precedes ~~the~~ 8.6 mag. by $1^{m}\,57^{s}.2$ and is ~~3.2' south of it.~~ 1.8' north of it.

59.0 Iris
3.0 5.5 mag

27.5 Iris
31.3 5.5 mag

46.0 Iris
50.2 5.5 mag.

8.0 Iris
12.0 5.5 mag

Iris precedes the 5.5 mag by $3^{s}.9$ and. and is 3.2' south of it.

Feb. 11. 1904

ρ Cassiop   Phot T.   W. Obs.

23 49   +57.4
5 46
5 51

Index to left + below.

3/3.7 < var. dis.
8 13.4   7.1   53.4 ✓
132.0   56.1 ✓
188.1   109.5 ✓   1.43 ✓

309.8
7.8   58.0 ✓   1.37 ✓
134.1   56.7 ✓
190.8   114.7 ✓   1.31 ✓

Index to right and above.

~~230.0~~ 228.5
275.1   46.6 ✓
~~45.3~~ 43.8   52.6 ✓
96.4   99.2 ✓   1.68 ✓

229.1   1.77 ✓
8 22.8   ~~277.0~~ ~~280.1~~ 276.0   46.9 ✓
36.2   50.7   45.3 ✓
8 18.1
13 12.5   ~~95.0~~ ~~95.2~~ 96.0   92.2 ✓   1.86 ✓
6522.

Gen Mean   1.57 ✓

Feb. 11. 1904.

Index to right and above

~~229.0~~ 227.9
8 28.5 273.8 45.9 ✓
~~44.0~~ 46.1 46.8 ✓
92.9 92.7 ✓ 1.84 ✓

~~228.1~~ 226.9 1.80 ✓
~~277.1~~ 277.1 50.2 ✓
46.0 46.1 ✓
92.1 96.3 ✓ 1.75 ✓

Index to left and below

137.9
~~187.9~~ 189.7 51.8 ✓
312.2 53.9 ✓
~~9.4~~ 6.1 105.7 ✓ 1.52 ✓

1.50 ✓
136.3
8 37.2 ~~189.1~~ 187.4 51.1 ✓
657 312.0 56.2 ✓ 1.48 ✓
8 32.8 8.2 107.3 ✓
13 33.2
6522.

Gen. Mean 1.65 ✓

Feb. 11. 1904.

Index to left and below

134.2
8 57.0 187.3 53.1
312.9 52.7
5.6 105.8 1.52

~~135.9~~ 134.0 55.4 1.58
~~189~~ 189.4 45.6
312.2 101.0 1.63
~~8.4~~ 7.8

Index to right and above

46.1
~~92.0~~ 93.9 47.8
~~225.2~~ ~~230.8~~ 228.1 45.9
274.0 93.7 1.82

~~48.0~~ 47.2 44.0 1.8
9 04.5 91.2 45.4
121.5 ~~232.0~~ ~~230.1~~ 228.8 89.4 1.93
9 00.8 ~~274.9~~ 274.2
1401. 2
6522.

Gen. Mean 1.73

Reject 3 preceding groups, as images were so bad from ~~full~~ apert. use; + bad seeing, that it was impossible to make observations satisfactorily.

The three preceding groups ~~taken~~ without the 9.5 inch cap on.

Cap left off by ~~accident~~ in 3 previous groups. Much difficulty experienced with images + seeing. When it was found that 9.5 in. cap was off, ~~took~~ the two fol. groups. on the usual basis of 9.5 in. cap.

Feb. 11. 1904

ρ Cassiop. repeated with 9.5 in cap over objective

Index to right + above

226.1 <var. dir

9 26.8 277.0 50.9

42.2 53.8

96.0 104.7 −1.54

222.8

~~278.7~~ ~~279.0~~ 56.3 −1.54

44.1 48.8

~~93.8~~ ~~91.3~~ 92.9 105.1 −1.53

Index to left and below

137.0 49.6

186.6 58.3 −1.47

310.7 107.9

~~11.5~~ 9.0 −1.52

~~134.0~~ ~~133.8~~ 136.0

9 34.0 187.8 51.8 ~~11.8~~ 1.58

9 30.4 315.5 51.5

14 30.8 ~~4.9~~ 7.0 103.3 mean −1.53

6522.

Feb 1~~2~~1. 1904.

Index to left and below

136.2
9 35.8 184.8 48.6 ✓
~~310.9~~ 312.0 55.7 ✓
~~9.7~~ 7.7 104.3 ✓ −1.55 ✓

−1.53 ✓

134.0 53.6 ✓
187.6 52.6 ✓
314.5 106.2 ✓ −1.51 ✓
~~5.9~~ 7.1

Index to right and above

46.0
94.0 ~~94.0~~ 48.0 ✓
~~222.3~~ 224.0 56.0 ✓
~~281.0~~ 280.0 104.0 ✓ −1.56 ✓

−1.58 ✓

42.2 53.0 ✓
9 43.3 ~~96.1~~ 95.2 49.2 ✓
79.1 228.2 102.2 ✓ −1.60 ✓
9 39.6 ~~277.0~~ ~~277.9~~ 277.4 Mean −1.56 ✓
14 40.0 Gen mean −1.54 ✓

S.T. = 7 57
R.A. = 8 00
Dec. = +57.2
P.A. = 301.5 B.
Sprocket = −0.5 B. +0.5 C

260

Feb 11. 1904.

044068 – Camelop

4 40 +68.0
8 01
3 21

Phot T.
9.5 inch Cop.

Indey to left and above

223.0 < comp. star dis.

10 29.2 281.3

34.1

~~105.8~~ 104.3

58.3 ✓
70.2 ✓
128.5 ✓ +1.01 ✓

+1.01
~~1.00~~

214.4

~~292.3~~ 289.0

43.9

97.8

7~~5~~4.6 ✓
53.9 ✓
128.5 +1.01 ~~0.99~~

Index to right and below

~~131.8~~ 131.1

191.6

301.6 ~~3106~~

~~18.6~~ 18.1

60.5 ✓
76.5 ✓
137.0 ✓ +0.83 ✓

+0.86 ✓

~~122.8~~ 124.0

196.9

~~309.6~~ 309.0

~~10.7~~ 10.1

72.9 ✓
61.1 ✓
134.0 ✓ +0.90 ✓

10 40.0
69.2
10 34.6
15 350
65 22.

Mean 0.9~~5~~4 ✓

Feb. 11, 1904.

Index to right and below

131.3
10 43.3 ~~190.2~~ 190.0 58.7 ✓
302.8 76.9 ✓
19.7 135.6 ✓ +0.86 ✓

~~126.1~~ ~~125.0~~ 124.3 +0.92 ✓
~~195.9~~ 195.8 71.5 ✓
~~310.0~~ 311.3 57.9 ✓
~~8.9~~ 9.2 129.4 ✓ +0.99 ✓

Index to left and above

42.1
~~10 51.4~~ 99.4 57.3 ✓
215.8 75.2 ✓
291.0 132.5 ✓ +0.93 ✓

+1.00
~~0.99~~

~~33.2~~ 33.9 69.3 ✓
54.6 ~~104.6~~ 103.2 56.7 ✓
97.9 223.8 126.0 ✓ +1.06 ✓
10 49.0 ~~280.4~~ ~~280.3~~ ~~280.0~~ ~~281.0~~ 280.5
15 49.4
6522

L. P. P. to here.
Feb. 15, 1904.

S.T. = 8 45
HA = 4 02
Dec = +68.2
PA = 80.5 B
Sprocket = −1.5 B − 0.5 C

Mean
+0.96 ✓
Gen. Mean +0.95 ✓

Colson's Watch 27s slow of B 394

Feb. 16, 1904 (Tuesday)

Iris

20 Obs
~~Phot~~

6	29	+16
5	09	
1	20	
10	40	

C's watch

27	49	Iris
28	00	(5.5)
29	53	(8.6)
30	23.5	Iris
30	34.0	(5.5)
32	26.5	(8.6)

7 25 Iris prec the 5.5 magn (17°1357) by $10.^{s}8$ & is 3.5' North of it

7 25 Iris prec. the 8.6 magn (17°1370) by $2^{m}3.^{s}5$ & is 1.5' North of it

Sky pretty hazy but Iris and the 8.6 magn seen well enough for good transits and ests of difference in dec.

Iris still too near the 5.5 magn. and sky too hazy to make phot. meas.

Feb. 16, 1904

ρ Cassiop WOb. Phot T.

23 49 +57.0 9.5 cap
29 30
5 41

7.45 Clouds thick no stars visible in finder.

8.00 Clouds too thick everywhere to do any work at present, only one or two stars visible.

8.10 Barometer still low, clouds thick everywhere no stars visible no chance apparently for anything further

Feb. $\overset{7}{18}$, 1904 (Wednesday)

7 .06 Cs watch 38^s fast & used tonight

Iris w Obs

6 29 +16.
5 13
1 16
10 44

Oil Dome

20 19.0
7 22 20 23.5
22 17.0

Iris
(5.5)
(8.6)

~~23 36~~
23 47.5
7 25 23 52.5
25 46.0

Iris
(5.5)
(8.6)

Iris prec the 8.6 by $1^m\ 58.^s2$ ~~&~~
7 24 and is 1'.4 North of it.

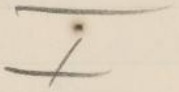
18.0 36.0 13.0
23.0 40.8 18.0

Iris prec the (5.5) by $\overset{\pm}{4.9}$ secs & is
7 28 3'.6 South of it

Feb. 17, 1904.

β Cassiop. — with Phot I.
9.5 cap

23 ~~4~~9 +57.
30 09
6 20



Left
316.2 < var dis
8 — 18.0 367.5 51.3
128.8 60.2
189.0 111.5 — 1.38
308.8
368.8 60.0 — 1.36
133.9 53.5
187.4 113.5 — 1.34
Right mean = — 1.52
226.0
276.1 50.1
44.8 50.6
95.4 100.7 — 1.64

— 1.68
226.8
8 26.4 275.2 48.4
8 22.2 45.3 49.2
13 21.6 94.5 97.6 — 1.72
6528

Feb. 17, 1904.

Right   II

227.1

8 28.6 275.9 48.8

44.7 49.8

94.5 98.6 - ~~17~~ 1.69

226.6 - 1.70

276.3 49.7

46.4 48.4

94.8 98.1 - 1.70

Left Mean = - 1.58

133.7

187.8 54.1

314.0 52.7

366.7 106.8 - 1.49

135.1 1.46

8 35.4 187.2 52.1

64.0 311.4 56.9

8 32.0 368.3 109.0 - 1.44

13 31.4

6528.

~~Pa~~

Pa 121.0 Vert B

Ha ~~6.2~~ 6.52 West

Dec 57.4 North

S.T. 6.41

Sp Wh of -0.5 B

+0.5 C

~~H~~Feb. 17, 1904.

~~Left III~~

Remark: - Barometer rising after ~~the~~ clearing of ~~the~~ storm of yesterday. Much wind and immergent pencils also gave a ~~little~~ trouble, but extreme care exercised and observations considered good.

Doubtful Var. 03345' Wolfs Phot. I.

~~Right~~ 3 38 +50.3

Above 7 24

211.8 3 46 I

9 37.0 290.1 < var dis 78.3

26.7 89.5

116.2 167.8 - 0.23

203.1 - 0.22

296.8 93.7

33.2 75.4

121.6 169.1 - 0.20 mean = - 0.14

Below

121.8

201.6 79.8

292.8 97.5 - 0.05

30.3 177.3

111.5 - 0.16

9 43.6 208.4 96.9

9 40.3 299.6 79.1 - 0.08

14 39.7 18.7 176.0

6528.

Feb. 17, 1904

II

Below
1200
9 46.0 200.9 80.9
293.2 95.1
28.3 176.0 — 0.08

116.0 — 0.12
207.0 91.0
301.0 80.7
21.7 171.7 — 0.16
Above Mean = — 0.17
23.3
110.9 87.6
205.1 93.1
298.2 180.7 + 0.01
179.3

23.2 —0.10
9 52.2 115.1 91.9
9 49.1 214.0 77.0
14 48.5 291.0 168.9 — 0.21
6528.

PA 355.4 Var B
S.T. 7:58
HA. 4:28 West
Dec +51.4 North
Spwhg —1.5 a
—0.5 B
+0.1 C

Feb. 17, 1904.

044068 – Camelop 2 obs.
Phot T
9.5 cap

4 40 68.4
8 15
3 35

above
222.2 <comp ✱ dis
I

10 21.8 241.6
35.6
103.5

59.4
67.9
127.3 + 1.04

217.1
286.5
41.4
98.0

+1.05

69.4
56.6 + 1.06
126.0

Below
Mean = + 1.02

133.3
189.6
303.0
375.4
124.7

56.3
72.4
128.7 + 1.00

10 29.0 195.5
10 25.4 311.3
15 24.8 367.1
65.28.

+1.00

70.8
58.8
129.6 + 0.99

Feb 17' 1904

Below II

132.1

10 30.6 185.2 53.1

303.0 75.8

378.8 128.9 +1.00

125.0 +1.01

197.0 72.0

311.8 55.9

364.7 127.9 +1.02

Above mean = +0.99

40.7

97.0 56.3

215.4 74.6

290.0 130.9 +0.96

32.6 +0.97

10 38.0 106.0 73.4

10 34.3 222.4 56.6

15 33.7 279.0 130.0 +0.98

65 28.

P.A. 80.0 Var B

H.A. + 4.01 West

Dec +68.4 North

S.T. 8:42

Sp wh { −1.5 B
−0.5 C

L.P.

Feb. 20, 1904. (Saturday)

7 05 C's watch correct & used tonight

Planet Chaldaea (313) w obs.

Phot. T.

9 7 + 3.0
5 47
3 20
8 40

9 7 + 2.9
5 55
3 12
8 48

9.0 57 27.5
9.0 57 50.0 22.5
~~58 07.5 40.0~~
7.2 58 47.5 80.0

2

7.2 01 40.0
* 02 04.0

~~* = 3.8 86~~

7 56 Supposed asteroid pls (7.2) + 3°, 2193 (7.2) by
$1^m\ 24^s$ + 5.8 ~~South~~
This assigned object turns out to be the asteroid.

04 38.5 55.0 ~~19.5~~ 40.0
43.5 60.0 ~~24.5~~ 45.0

57.5 21.0
02.5 26.0

Feb. 20, 1904

7 58 Star x, prec. asteroid by 5^{s} &
is 7'.2 North

14.5 X 49.0 10.5
26.5 01.2 22.8

34.0 58.0
46.0 10.0

8 00 Star y follows asteroid by 12.1^{s}
& is 7'.0 South of it

36.5 01.7 20.0
8 51 -39.5 05.0 23.2

Star x prec. asteroid by 3.1^{s}

44.8 09.5 ~~32.5~~ 57.0
8 52 58.5 23.3 ~~41~~ 10.5

Star y fols asteroid 13.7^{s}

8 56 The object assumed as the asteroid
is the asteroid. It has moved a little
to preceding and a ~~little North~~

Feb. 20, 1904

38.3
50.5

Star used for comp * with Asteroid
9 00 precs. ~~the~~ + 3°.219.3 (7.2) by 12.2 s &
is 10'.7 South of it. (Not in DM.)

B236 B 394
9 08 22.8 9 08 00
09 22.8 09 00

Above B.236 used on Chaldaea

27.2 comp ~~*~~dis

I

9 12 12 110.4 83.2
199.3 100.3
299.6
183.5 * − 0.06
20.0 176.5
14 59 118.2
98.2 − 0.08
206.8 87.7
294.5 185.9 − 0.11
Below Mean = + 0.02
301.7
19 19 224 80.7
113.6 96.0
209.6 176.7 + 0.06

293.3
9 22 31 26.4 93.1 + 0.12
29 01 122.0 ~~80~~
9 17 15 200.0 78.0
15
~~14~~ − 24 171.1 + 0.17
14 16 51

Feb. 20, 1904

Below   II

302.3
9 27 03   20.6   78.3 ✓
111.8   99.1 ✓
210.9   177.4 ✓ + 0.0~~3~~5 ✓
~~297.3~~
297.3   +0.09 ✓
~~+0.00~~
29 39   28.3   91.0 ✓
120.6   82.2 ✓
202.8   173.2 ✓ + 0.13 ✓

Above   Mean = + 0.04 ✓

209.1
33 34   292.2   83.1 ✓
20.7   97.0 ✓
117.7   180.1 ✓
179.9 ✓   ~~0.00~~ ✓

201.2
9 35 48   299.5   98.3 ✓   -0.01 ✓
126 04   27.3   82.5 ✓
9 31 31   109.8   180.8 ✓
5 - 26   179.2 ✓ ∓ 0.02 ✓
14 31 05

Feb. 20, 1904

III

Above
207.2
100117 292.3 85.1 ✓
23.8 92.8 ✓
116.6 177.9 ✓ + 0.04 ✓

1
209.5 + 0.09 ✓
0400 296.4 94.9 ✓
32.0 77.9 ✓
109.9 172.8 ✓ + 0.14 ✓

Below Mean = + 0.16 ✓

1230
0821 202.2 79.2 ✓
297.3 91.0 ✓
28.3 170.2 ✓ + 0.19 ✓

+ 0.24 ✓
116.6 ~~+ 0.28~~
101029 204.3 87.7 ✓
2407 304.0 77.4 ✓ + 0.22 ✓
100602 21.4 165.1 ✓ ~~+ 0.24~~
5 -30
15 05 32

Feb. 20, 1904

IV

Below

122.9

10 13 25 196.8 73.9✓

293.9 93.3✓

27.2 167.2✓ + 0.24✓

+0.26✓

117.2

15 15 204.5 87.3✓

308.6 77.8✓

21.4 165.1✓ + 0.28✓

Above Mean = +0.20✓

29.4

22 30 106.8 77.4✓

203.3 97.2✓

300.5 174.6✓ + 0.10✓

23.9 + 0.13✓

10 25 05 114.6 90.7✓

36 15 212.6 80.7✓

10 19 04 293.3 171.4✓ + 0.16✓

5 -32

15 18 32

Feb 20, 1904

V

Above
30.0
10 38 21 109.2 79.2 ✓
201.2 98.8 ✓
300.0 178.0 ✓ +0.04 ✓

26.0 +0.08 ✓
41 00 117.6 91.6 ✓
209.1 82.3 ✓
291.4 173.9 ✓ +0.11 ✓
Below Mean = +0.18 ✓
122.6
46 20 200.0 77.4 ✓
295.1 88.4 ✓
213.5 165.8 ✓ +0.27 ✓

116.8
10 49 15 204.5 88.5 ✓ +0.28 ✓
1456 302.9 75.9 ✓
10 43 44 18.8 164.4 ✓ +0.30 ✓
5 -3 5
15 43 09 G.M.T.

Feb. 20, 1904

VI

Below
123.0
10 52 35 197.9 74.9
296.4 90.3
26.7 165.2 +0.28

117.8 +0.30
10 55 30 206.1 88.3
302.7 74.8
17.5 163.1 +0.32

Above Mean = ~~+0.24~~ +0.23
31.3
11 02 20 111.3 80.0
205.0
298.0 93.0
173.0 +0.13

24.3 +0.16
11 04 33 115.7 91.4 ~~+0.19~~
34 00 210.6 78.6
10 58 30 299.2 170.0 +0.19
5 - 37
15 57 53 R.A. = 79.0 Ver B
H.A. = ~~8~~ +0:07 West
11 15 Dec = +2.4 North
S.T. = 9:22
Spwh -0.5 B
+0.5 C

Feb. 20, 1904

B 236	B 394
11 19 39.0	11 19 00.0

Sky slightly foggy from snow melting during day; Obs. ~~throughout~~ a little difficult but great care exercised & obs. considered good

Feb. 22, 1904 (Monday)

7 05 C's watch = $0\overset{m}{,}5$ slow

W Obs
Phot T.

(313) Chaldaea

9 7 +2.9
5 15
3 52
8 08

9 7
5 47
3 20
8 40

46 31.0
46 42.8

~~49 4~~

49 18.5
25.0
48.0
m

7 40 Chaldea same RA as the +4°.2171 (10)
and is 8.'1 South of it.

53 07
16
54 16

Utterly impossible to measure
the asteroid satisfactorily tonight.
Asteroid is not steadily visible even

Feb. 22, 1904.

at full brightness in photometer,
Owing to moonlight and also to probably
slight remaining cloud which produces
a glare.

(37) Fides   W Obs.

8 35   +22.0
6 35
2 00

Utterly impossible to do anything
8 23 with asteroid Fides as it is theoretically
fainter than Chaldea and nearer the
moon.

ρ Cassiopeiae   W Obs.
Phot T.

23 49   +57.4
30 49
7 00

9.5″ cap.

C's watch used for times tonight.

See next page for measures
of ρ Cassiopeiae

Over

Feb 22, 1904

σ Cassiop

I

~~Above~~ ~~Left~~ Below

313.2 < Var dis

8 36.5 366.0 52.8

129.8 59.5

189.3 112.3 −1.36

311.1 −1.40

367.0 55.9

134.1 52.7

186.8 108.6 −1.45

~~Right~~

Mean = ~~*~~ −1.48

Above ~~Below~~

224.8

276.8 52.0

43.0 54.2

97.2 106.2 −1.51

224.4

8 41.4 275.4 51.0 −1.56

77.9 44.5 50.7

8 39.0 95.2 101.7 −1.61

5 +.5

13 39.5 G.M.T.

6533.

Feb 22, 1904

II

Above ~~Below~~
2234
A 44.2 277.2 53.8
45.3 50.0
95.3 103.8 — 1.56

2228 — 1.58
275.2 52.4
44.2 50.5
94.7 102.9 — 1.59

Mean = — 1.54

Below ~~Above~~
133.3
186.0 52.7
312.6 53.8
366.4 106.5 — 1.50

132.9 — 1.50
A 52.2 185.8 52.9
A 48.2 313.4 53.9
5 +0.5 367.3 106.8 — 1.49
13 48.7 G.M.T.
6533.

Feb. 22, 1904

Below
~~Above~~

III

132.2
8 57.5 188.2 56.0
314.4 50.3
364.7 106.3 − 1.50

− 1.51

134.8
185.0 50.2
312.1 55.5
367.6 105.7 − 1.52

Above Mean = − 1.54
44.0
97.0 53.0
225.3 51.9
277.2 104.9 − 1.54

45.9 − 1.56
9 03.5 95.9 50.0
9 00.5 223.9 53.7
~~14 00~~ 277.6 103.7 − 1.57
14 01.0
65-33.

PA = 301.0 Var B
HA = 7:38 West
9 08 Dec. = +57.4 North
S.T. = 7:29
Sp'rl = { − 0.5 B
{ +0.5 C

Feb. 22, 1904

044068 — Camelop. 20 Obs.
Phot T
9.5 comp.
I

4 40 +68.0
8 04
3 24

Left
41.7 ∠ Comp ★ dis.
9 45.0 98.7 57.0
212.7 75.2
287.9 132.2 + 0.93
34.8
103.6 68.8 + 0.96
220.8 60.3
281.1 129.1 +1.00
Right mean = +0.96
310.2
369.7 59.5
125.1 71.0
196.1 130.5 + 0.97

305.8 + 0.96
9 52.4 377.2 71.4
97.4 132.0 59.3
9 48.7 191.3 130.7 + 0.96
14 49.2
6533.

Feb. 22, 1904

II

Right
311.0
9 55.0 369.7 58.7
125.2 71.4
196.6 130.1 +0.98

305.0 +0.96
377.0 72.0
131.5 59.3
190.8 131.3 +0.95

Left Mean = +0.98
223.4
218.6 57.2
32.6 71.1
103.7 128.3 +1.01

214.6 +1.01
10 02.4 286.9 72.3
117.4 40.8 56.0
9
~~14~~ 58.7 ~~917.0~~ 128.3 +1.01
4
1~~4~~ 59.2 96.8
65.33.
PA = 79.7 Var P
Ha = 3.46 West
Dec = +68.3 North
ST = 8:30
Spark = { −1.5 B
−0.5 C

Feb. 22, 1904.

Chaldea (313) w Obs.
Blot T.

9 07 +2.4
8 47
0 20
11 40

39 21.5 asteroid
26.5 (8.0)
39 55.5 (9.5)

41 11.8 (9.5)
42 20.0 (8.0)

Comp ✱ = +3°.2190 (9.5)

Bond 236 used on Chaldea (313)

B 236	B 394
10 40 36.7	10 ~~41 0.5~~
41 36.9	~~42 0.0~~

(over)

Feb. 22, 1904

Chaldea I

Above
209.4 < comp * dis
10 43 38 289.0 79.6
26.8 86.5
113.3 166.1 + 0.26

207.0 + 0.28
45 53 296.3 89.3
31.9 75.7
107.6 165.0 + 0.29

Below Mean = + 0.25
189.4
50 35 198.7 79.3
292.4 92.2
24.6 171.5 + 0.16

115.6
11 03 18 204.0 88.4 + 0.22
203 24 302.4 76.6
10 50 51 19.0 165.0 + 0.29
5 + 21
15 51 12
6533.

~~Repeat above~~ seeing rather poor & moonlight very troublesome.

Pa = 276.0 a S 17 - 9 31
HA = 0:26
Dec = + 3
[illegible] = -1.5 B
-0.5 C

Feb. 22. 1904.

B 236			B 394.		
11	22	45.0	11	23	0.0
	23	45.2		24	0.0

Ledgered Posted.

Feb. 25, 1904 Thursday

B 236 B 394

7 09 11.5 7 09 0.0

10 11.7 10 0.0

7 1 0 C's watch 16s slow

α Ceti Wells

2 12 − 3.6 Phot W.

5 47

3 35 C's watch used

Above ⟨Vardis

326.3

7 27.4 331.6 5.3 ✓

144.8 6.5 ✓

151.3 11.8 ✓ − 6.44 ✓

323.8

330.9 7.1 ✓ − 6.42

145.4 4.9 ✓

1~~4~~50.3 12.0 ✓ − 6.40 ✓

Below mean = − 6.46 ✓

233.8 9.19

239.2 2.73

53.0 5.4 ✓

58.6 5.6 ✓

11.0 ✓ − 6.59 ✓

230.2

7 35.4 237.2 7.0 ✓ − 6.50 ✓

7 31.4 ✓ ~~49~~ 5.0 ✓

12 31.7 49.8 12.0 ✓ − 6.40 ✓

54.8

Feb. 25, 1904

II

Below
228.4
7 41.0 233.5 5.1
47.0 6.6
53.6 11.7 −6.46

−6.45

225.4
232.2 6.8
45.2 5.0 −6.44
~~4~~50.2 11.8

Above Mean = −6.50
9.19
2.69
131.6
136.6 5.0
339.3 6.1
345.4 11.1 −6.57

128.3
7 49.0 134.4 6.1 −6.5~~7~~6
7 45.0 306.6 5.1
12 45.3 311.~~8~~7 11.2 −6.5~~3~~5

Final Mean = −6.48
col. = 9.19
magn = 2.71

Seeing somewhat better in last group than in first. Extreme care exercised. P.A. = not read as [illegible] has not been applied. HA +4.13 West. region identified. Dec. −3.4 South. 0 Ceti bright.
S.T. 6:26

Feb. 25, 1904

Vesta W. Obs.
Plot T.

Bond 236 used on Vesta only

3 52 +17.8
6 32
2 40

8 10 25.5. (6.0)
13 43.8 Vesta

8 13 Vesta fols +17°66.6 (6.0) by 3^m 18.5^s
& 1.7 North of it.

~~Comp. ★ = +~~

Comp. star used in observations of Vesta tonight precedes +17° 681 (9.4) by 11.0 secs. and is 2.7 south of it.
See p. 126.

Feb. 25, 1904

I

Rda.

228.5 / Vesta dis

8 35 35 270.6 42.1 ✓

42.5 57.9 ✓

100.4 100.0 ✓ −1.66 ✓

220.5 −1.60 ✓

38 25 281.6 61.1 ✓

~~4~~8.6 43.4 ✓

92.0 104.5 ✓ −1.55 ✓

L.V.B Mean = −1.72 ✓

140.4

42 36 179.9 39.5 ✓

316.2 50.4 ✓

366.6 89.9 ✓ −1.92 ✓

132.8 −1.84 ✓

8 45 42 186.3 53.5 ✓

320.1 42.3 ✓

8 40 34 ✓ 362.4 95.8 ✓ −1.76 ✓

5 − 28

13 40 06 G.M.T.

Feb. 25, 1904

II.

LOB.
138.4
8 48 28 181.2 42.8 ✓
~~313.8~~ ~~43.7~~
314.7 50.8 ✓
365.5 93.6 ✓ — 1.8~~1~~2 ✓
134.4
51 20. 180.5 52.1 ✓ — 1.8~~8~~1 ✓
320.1 42.3 ✓
362.4 94.4 ✓ — 1.80 ✓

Mean = — ~~1.69~~ -1.70 ✓

ROA.
47.6
54 48 92.0 44.4 ✓
220.7 59.9 ✓
280.6 104.3 ✓ — 1.55 ✓

#.
— 1.58 ✓
41.8
8 56 50 97.2 55.4 ✓
8 √2 √2 ✓ 227.0 45.9 ✓
5 — 30 272.9 101.3 ✓ — 1.62 ✓
13 52 22

Feb. 25, 1904

III

Rda.

46.3
9 10 10 93.4 47.1 ✓
221.8 58.1 ✓
279.9 105.2 ✓ — 1.53 ✓

4~~8~~2.5 — 1.60 ✓
14 05 96.0 53.5 ✓
227.6 45.5 ✓
273.1 99.0 ✓ — 1.68 ✓

LDB Mean = −1.70 ✓

321.4
18 55 361.8 40.4 ✓
134.1 51.0 ✓ 1.88 ✓
185.1 91.4 ✓ — ~~1.75~~

312.8 — 1.8~~4~~1 ✓
9 20 55 367.3 54.5 ✓
138.4 42.2 ✓ 4 ✓
9 16 1
5 − − 34 ~~179.9~~ 96.7 ✓ — 1.7~~1~~4
14 15 27 180.6

Feb. 25, 1904

L&B IV

318.5
9 24 31 36~~1.1~~2.3 43.8 ✓
136.1 51.0 ✓
187.1 94.8 ✓ − 1.79 ✓

− 1.78 ✓

314.2
26 45 360.1 57.9 ✓
138.0 43.1 ✓
181.1 95.0 ✓ − 1.78 ✓

RDA Mean = − 1.74 ✓
226.8
31 05 272.4 45.6 ✓
44.0 52.5 ✓
96.5 98.1 ✓ − 1.7~~1~~0

222.9 − 1.70 ✓
9 33 34 278.3 55.4 ✓
9 28 59 ✓ 48.4 43.3 ✓
5 − 37 91.7 98.7 ✓ − 1.69 ✓
14 28 22

Feb. 25, 1904

V

p.d.a.

447.2

9 57 28 493.8 46.6 ✓

224.1 53.8 ✓

247.9 100.4 ✓ — 1.65 ✓

43.2 −1.64 ✓

10 00 40 97.0 53.8 ✓

226.4 46.7 ✓

273.1 100.5 ✓ − 1.64 ✓

L.f.B. Mean = −1.72 ✓

320.5

10 04 15 362.4 41.9 ✓

133.2 54.1 ✓

187.3 96.0 ✓ −1.76 ✓

313.3 −1.7~~8~~9

10 06 50 366.4 53.1 ✓

10 2 12 ✓ 1~~4~~38.8 4~~4~~0.6 ✓ −1.82

5 — 43 179.4 9~~4~~3.7 ✓ ~~−179~~

15 01 35

Feb. 25, 1905

L.T.B. VI
324.4
10 10 25 362.7 41.3 ✓
133.0 52.2 ✓
185.2 93.5 ✓ — 1.82 ✓

316.0
13 08 366.6 50.6 ✓ — 1.80 ✓
138.0 44.0 ✓
182.0 94.6 ✓ — 1.79 ✓

R.T.A. Mean = -1.7^{3} ✓
228.1
16 20 272.3 44.2 ✓
40.9 57.3 ✓
98.2 101.5 ✓ — 1.62 ✓

223.0
10 19 20 277.4 54.4 ✓ — 1.66 ✓
10 14 48 ✓ 47.4 43.9 ✓
5 — 45 91.3 98.3 ✓ — 1.70 ✓
15 14 03

Feb 25, 1905

VIII

KDA
~~48~~.3
10 30 00 92.1 43.8 ✓
222.3 57.0 ✓
279.3 100.8 ✓ — 1.64 ✓

— 1.64 ✓

41.3
33 15 97.3 56.0 ✓
227.3 45.0 ✓
272.3 101.0 ✓ — 1.63 ✓

LTB mean = — 1.68 ✓
318.6
36 40 361.6 43.0 ✓
132.4 55.8 ✓ 1.69 ✓
188.2 98.8 ✓ —

313.4
10 38 35 367.3 53.9 ✓ — 1.72 ✓
10 34 38 137.1 42.0 ✓
5 — 48 179.1 95.9 ✓ — 1.76 ✓
15 33 50

Feb. 25, 1904

Lf β VIII

320.3
10 42 08 362.1 41.8 ✓
133.8 53.6 ✓
187.4 95.4 ✓ − 1.77 ✓

313.1 − 1.72 ✓
45 20 369.2 56.1 ✓
137.5 43.6 ✓
181.1 99.7 ✓ − 1.66 ✓

Rt α Mean = − 1.66

226.0
49 00 272.3 46.3 ✓
40.8 56.1 ✓
96.9 102.4 ✓ − 1.60 ✓

220.4 − 1.59 ✓
10 51 10 277.3 56.9 ✓
10 46 54 ✓ 45.0 46.3 ✓
5 − 50 91.3 103.2 ✓ − 1.58 ✓
15 46 04

PA. 292.0 Ver B
HA. 5.30 West
Dec +18.3 North
S.T. 9:27
Spark g − 5.5 B.
− 4.5 C.

Feb. 25, 1904

The moon not very distant from region of asteroid, and observations a little difficult throughout evening from this cause as well as from fact that seeing was a little blurry at times due to cold & wind. Region rather low at last, and last two groups the most difficult on this account, but greatest care exercised in settings and settings made slowly, so obs. considered good.

Bond 236	Bond 394
11 09 54.5	11 09 00

Feb. 26. 1904. (Friday)

B. 236 B 394.
7 7 16.4 7 8 0.0
8 16.7 9 0.0

Vesta W. Obs.
Phot T.

6 05
3 52 +17.8

2 13

7 42 14.6 6.0 mag.
7 47 28.6 ~~9.0 "~~ C.S.
7 47 39.2 ~~9.0 "~~ +17°6 81 (9.4)

~~48.6~~ Same again,
~~+.5~~
7 49 49.1 6.0 mag.
7 55 02.0 C.S.
7 55 13.5 . +17°6 81 (9.4)

Comparison star used with Vesta last night and to night precedes D.M. +17.681 (9.4) by 11.0s and is 2.7' south of it.
The comparison star used last night

Feb. 26. 1904.

is a little ~~the~~ brtr than +17.681 (9.4) & was used because it was a little brighter. & the field was very bright from moon light.

~~7~~8 08 41.0 ~~6.0 mag.~~ Vesta,
8 09 38.2 Comp. Star
8. 09 49.0 +17° 681 (9.4)

8 11 09.7 ~~6.0 mag.~~ Vesta,
8 12 6.3 Comp. Star

8 12 17.5 +17° 681 (9.4)

8 14 Vesta tonight - precedes D.M + 17.681. (9.4) by 1^m 08^s and is 11.5' north of it

Same comparison star used with Vesta tonight as last night -.

B 236 used in observations of Vesta to night.

40
320

Feb. 26. 1904.
Vesta.

Index above.

I

227.5 < Vesta dis.
8 33 17 275.0 47.5 ✓
~~43.9~~ 43.4 53.3 ✓
96.7 100.8 ✓ -1.64 ✓

222.2 -1.64 ✓
36 34 277.8 55.6 ✓
47.3 44.6 ✓
91.9 100.2 ✓ -1.65 ✓

Index below.

136.2
~~40 45 181.1~~
41 13 182.1 45.9 ✓
312.3 56.6 ✓
~~8.9~~ ~~9.4~~ 102.5 ✓ -1.60 ✓

~~131.6~~ -1.60 ✓
~~44 18 189.1~~
44 52 188.4 56.8 ✓
35 56 ~~318.2~~ 317.7 45.2 ✓
8 38 59 ~~2.0~~ 2.9 102.0 ✓ -1.61 ✓
5 + 23
13 39 22

~~Gen~~ Mean = -1.62 ✓

Feb. 26. 1904
Same again.
Index below.)

II

138.0
48 58 182.1 44.1 ✓
313.1 56.0 ✓ −1.65 ✓
~~10.6~~ 9.1 100.1 ✓

−1.61 ✓

130.0
~~52 48~~ ~~187.2~~ ~~187.8~~ 58.1 ✓
53 20 188.1 45.4 ✓
318.1 103.5 ✓ −1.57 ✓
4.0 ~~3.1~~ mean = 3.5

Index above
~~46.9~~ 48.3
59 15 91.1 42.8 ✓
220.8 58.3 ✓ −1.63 ✓
279.1 101.1 ✓

−1.62 ✓

~~39.2~~ 40.6 56.9 ✓ −1.62 ✓
9 ~~02.8~~ 24 ~~98.4~~ 96.9 + .6 = 97.5 44.7 ✓
03 25 101.6 ✓

A 22 4 58 227.9
δ 56 16 ~~274.9~~ ~~272.7~~ 272.6
5 + 20

13 56 36

~~6th~~ Mean −1.62 ✓

Feb. 26. 1904.
Same again.
Index above.

III

~~225.1~~ 226.0
~~274.8~~
9 27 43 273.1 47.1 ✓
~~41.0~~ 41.9 55.1 ✓
~~96.2~~ 97.0 102.2 ✓ −1.60 ✓

219.8 221.9 − 0.5 = 221.4 −1.64 ✓
31 20 276.9 55.5 ✓
~~48.1~~ 48.8 43.3 ✓
92.1 98.8 ✓ −1.69 ✓
Index below.

135.9 46.8 ✓
35 25 182.7 54.5 ✓
313.6 101.3 ✓ ~~1.62~~ −1.62 ✓
8.1

−1.58 ✓

~~131.1~~ 132.0 57.0 ✓ =
38 00 189.0 47.8 ✓ −1.54 ✓
~~315.0~~ 316.0 104.8 ✓
~~4.3~~ ~~4.1~~ 3.8

12 28
9 33 07
5 + 9
14 33 16

Mean −1.61 ✓
Gen. Mean to night =
= −1.62 ✓

Feb. 26, 1904

S.T. = 8 24
H.A. = 4 23
Dec. = +18.1
P.A. = 140.8
Spricker. = −2.5 B. −1.5 C

ρ Cassiop. Phot T.
W. Obs.

23 49 +57.4

9.5 cop.

Mr. Colson's watch used in observations of ρ Cassiop. See p. 134 for correction to watch.

Feb. 26. 1904.

Index below

C's Watch. 314.9 < var. dis.

10 00.0 ~~3.8~~ 5.0 50.1 ✓

123.5 70.8 ✓

~~197.0~~ 194.3 120.9 ✓ −1.17 ✓

~~305.1~~ 306.0 −1.21 ✓

~~11.9~~ 11.2 65.2 ✓

134.1 52.2 ✓

186.3 117.4 ✓ −1.25 ✓

Index above

224.5 48.2 ✓

272.7

~~36.0~~ 36.8 63.2 ✓

100.0 111.4 ✓ −1.39 ✓

218.0 −1.41 ✓

61.0 ✓

10 08.0 ~~279.2~~ 279.0

10 04.0 ~~47.8~~ 46.5 48.4 ✓

15 04.2 ~~94.0~~ 94.9 109.4 ✓ −1.43 ✓

mean −1.31 ✓

Feb. 26 1904.

Index above

~~228.1~~

227.1

10 10.4 276.0

~~10~~ 38.0

98.9

~~218.0~~ 219.0

~~282.2~~ 279.6

~~46.4~~ 44.3

96.7

Index below

133.4

186.8

Clds.

Stars gone

Stopped by clds. Reject above partial group. Impossible to finish group.

S.T. = 8 58

H.A. = 9 05

Dec. = 57.2

P.A. = 121.0

Sprocket = −0.5 B. +0.5 C.

Feb. 26. 1904.

044068 — Camelop.

W. Obs.
Obsr T.
9.5 Cop.

9 04
4 40 +68.4
4 24

Clds. so thick & growing worse that it is impossible to get -Camelop.

Cs watch 10^s slow of B394.

B. 236
10 √0 √2,A
√1 √2,A

B 394.
10 √1 0.0
√2 0,0

L. P. P.

March 2, 1904 (Wednesday)

7 07 C's watch = 30s fast

o Ceti W.C.B.
Phot W.

2 12 - 3.6
6 12
4 00

About
102.4 3 < Var. dis
7 26.0 ~~104.7~~
105.1
279.1
283.7
96.8
101.8 Impossible to measure
2 omicron tonight. Region
2 rather low, moon about at
Below the full and very bright,
increasing cloud and
haze, especially near the
horizon. Settings at the
first very difficult and
progressively more so. On acc't
of increasing haze and other unfav-
7 35 orable conditions, comparison
star became invisible in phot.
Impossible to finish group. Comp. star
now invisible with ordinary eyepiece and
omicron rather dim

March 2, 1904.

ρ Cassiop Ver Obs.
23 49 +57.4 Phot T
30 39 9"5' cap
6 50

Cs watch used

LDB
133.4 < Var dis
7 51.0 185.4 52.0
308.0 64.9
12.9 116.9 — 1.26
126.9
192.7 65.8 — 1.26
314.1 51.0
365.1 116.8 — 1.26
R.A. Mean = — 1.26
45.3
94.8 49.5
217.8 66.4
284.2 115.9 — 1.28

— 1.26
37.2
7 58.6 103.1 65.9
225.4 51.5
7 54.8 276.9 117.4 — 1.25
12 54.3 G.M.T.
6 54 2.537

March 2, 1904

II

Rtl.

440
δ 01.0 94.9 50.9
218.6 64.0 — 1.31
282.6 114.9

clouds — 1.29
~~39~~.6
δ 08.0 100.0 stars gone 60.4
221.4 55.9
277.3 stars gone 116.3 — 1.27
stars gone

δ 12 ~~S.V.P.~~ stars gone Mean = —

Clds ~~back~~

Reject impossible to finish

P.a. = 121.0 Vera B.
δ 16 H.a. = 7:21
Dec. = +57.4
S.T. = 7:11
Sp. Wh. = { −0.5 B
+0.5 C

Clds came somewhat suddenly and on this account as well as from fact that meas. of stars were being ~~tried~~ attempted while they were disappearing the images were not superimposed before actually disappearing in cloud. They were however quite near coincidence and the right stars were observed.

In above ~~measurements~~ troubled by poor seeing, Images somewhat blurry

Mar. 2, 1904.

and alternating somewhat in
brightness. Observer however waited
for moments of best definition
and until the images seemed to
be steady before considering setting
final. Obs. considered good.
Reject settings in partial group

8 35 Clouds southern scud thick everywhere full moon totally
invisible apparently no chance
for anything further

L W

Mar. 4, 1904 (Friday)

7 00 C's watch = 39s fast

δ Ceti w Obs
~~Plot 45~~

2 12 − 3.6
6 12
4 00

C's watch used

Above
261.8 < var dis
7 16.4 266.2 4.4
78.6 4.6
83.2 9.0 − 7.03

255.0 − 7.02
260.7 5.7
~~74.5~~ 73.5 3.4
76.9 9.1 − 7.00
Below Mean = − 7.06
159.3 9.19
163.0 3.4 2.13
336.3 4.9
341.2 8.6 − 7.13
154.3
7 24.6 158.9 4.6 7.10
7 20.5 331.7 4.2
12 19.9 335.9 8.8 − 7.08
6544.

1/3 wt on above

March 14, 1904

II

Below

151.1
7 26.6 155.1 4.0
328.0 4.8
332.8 8.8 −7.08

146.4 −7.14
150.7 4.3
324.6 4.0
328.6 8.3 − 7.20

Above Mean = −6.96
9.19
2.23

52.1
56.3 4.2
230.1 5.4
235.5 9.6 − 6.89

49.4 −6.78
7 34.0 55.2 5.8
7 30.3 229.4 4.8
12 29.7 234.2 10.6 − 6.67
6544.

~~Ha~~
~~200~~
~~8~~

March 4, 1904

III

Above

229.8

7 400. 233.7 3.9

47.8 5.7

53.5 9.6 — 6.89

227.6 — 6.86

232.9 5.3

47.4 4.6

52.0 9.9 — 6.82

Below Mean = — 6.86

136.1

140.6 4.5

315.2 5.3

320.5 9.8 — 6.84

134.3 — 6.86

7 47.0 139.6 5.3

+2 435 314.4 4.4 Magn = 2.26

12 429 318.~~7~~8 9.7 — 6.87

Wt. Mean = — 6.95

First group 1/3 weight. Seeing much better in last 2 groups than in first, and images sharper. Air also more quiet. Angle small but greatest care exercised and obs. considered good OVER

March 4, 1904.

P.A.
~~HA.~~ 4:44 West.
Dec. -3.4
S.T. 6:56

Region identified & omicron bright. Pos. Ang not read as end piece not yet soldered.

ρ Cassiop W.O.B.
Phot I
95 cap

- 0 11 + 57.4
7 35
7 46

Below < var dis. Cs watch used.

133.3
δ 39.0 189.2 55.9
308.5 60.2
368.7 116.1 - 1.28
120.4
189.0 58.6 -1.33
313.3 53.1
366.4 111.7 - 1.38
Above Mean = -1.47
45.4
96.6 50.9
225.0 49.2
274.2 100.1 - 1.65

March 4, 1904

Cont

45.9 —— −1.61

β 45.0 —— 95.7 —— 49.8

β 42.0 —— 222.8 —— 53.9

13 41.4 —— 276.7 —— 103.7 —— −1.57

6544.

Same Over II

above

44.8

β 47.0 —— 97.4 —— 52.6

223.2 —— 50.9

274.1 —— 103.5 —— −1.57

46.2

97.1 —— 50.9 —— −1.54

221.9 —— 55.0

276.9 —— 105.9 —— 1.51

Below —— Mean = −1.52

312.3

366.9 —— 54.6

135.1 —— 52.7

187.8 —— 107.3 —— −1.48

313.5

β 53.0 —— 363.1 —— 49.6 —— −1.50

133.1 —— 56.6

β 50.0 —— 187.7 —— 106.2 —— −1.51

13 49.4 —— ~~Final~~ Mean = −1.50

6544. —— PA = 121.5 Vert β —— Ha = 8.12 West

S.T. = 8:01 —— Dec = +57.5 North

S.p.wh = −0.5 β δ +0.5

March 4 1904

Doubtful Var 3.°1958
Cs' watch used W Obs
Plot T

8 18 + 2.6
8 28
0 10

19 6
25 14
33 19
38 54
13

Above
Comp + dis.

130.3
9 48.6 191.5
312.7
366.8

61.2
54.7
115.3 + 1.30

132.5
187.2
306.1
384.3

54.7 +1.32
58.2
112.9 + 1.35
Mean = + 1.32

Below
39.4
102.2
224.0
276.6

62.8
52.6
115.4 + 1.29

46.2
9 56.6 96.9
10 5.2 228.6
9 52.6 281.0
14 52.0
65244.619

+ 1.32

50.7
62.4
113.1 + 1.35

March 4 1904.

Below II

39.8
9 59.6 102.0 6 22.
223.9 51.4
275.3 113.6 + 1.34

46.2
95.8 49.6 + 1.37
220.0 61.2
281.2 110.8 + 1.40

above Mean = + 1.30
307.1
13.4. 66.3
133.2 52.1
185.3 118.4 + 1.23

313.7 + 1.24
10 07.2 365.9 52.2
~~126.8~~ 128.1 64.7
10 03.4 192.8 116.9 + 1.26
15 02.8
65446 627 PA = 309.0 Ver B
Ha = 1.02 ~~West~~
Dec = +3.2 ~~North~~
S.T. = 9:17
S.pich = ∠0.5 a
+0.5 B
+1.1 C

March 4, 1904

044068 – Camelop.

Wells

Phot I

9½ cap

4 40 +6 ~~8~~

9 40

5 00

Left

218.3 < comp + dis

10 37.4 283.3 65.0

44.0 51.8

95.8 116.8 + 126

223.5

278.1 54.6 +122

36.3 66.4

102.7 121.0 +117

Right Mean + 111

122.6

196.5 73.9

311.4 56.5

367.9 130.4 +097

132.2

10 45.4 187.5 55.3 +1.00

10 41.4 304.7 71.7

15 40.8 16.4 127.0 +1.04

6544

Mar. 4, 1904

II

Right

124.6

18 47.0 193.7 69.3

310.2 58.5

368.7 127.8 +1.03

132.2 +1.01

189.3 57.1

305.6 72.4

18.0 129.5 +0.99

Left Mean = +1.06

307.1

104.3 67.2

221.8 55.1

276.9 122.3 +1.14

41.1

10 54.0 96.8 55.7 +1.12

215.4 68.6

101.0

10 50.5 284.0 124.3 +1.10

15 49.9

6544.

Mar. 4, 1904

~~Left~~ ~~III~~

40.2
10 59.0 ~~88~~ 98.6 58.4"
219.2 64.8
284.0 123.2 +1.12

36.2
101.5 65.3 +1.14
221.8 56.2
278.~~4~~0 121.5 +1.16
Right
319.~~4~~0 Mean = +1.06
369.9 58.9
125.2 70.4
195.6 129.3 +0.99

304.4 +0.98
11 04.0 376.1 71.7
123.0 131.4 59.3 0.96
11 01.5 190.7 131.0 +
16 00.9 Final mean = +1.08"
6544 259.8 HA Vert B
10:09 S.T.
5:27 HA West
11 10 +68.4 Dec. North
−1.5 B [illegible]
−0.5 C

March 5, 1904 (Saturday)

B 236
7 05 03.2
06 03.2

B 394
7 05 00
06 00

7 07 C's watch 40s fast

Hides (37) Wllbs Phot.

8 24 +21.0
6 34
1 50
10 10

7 24 Cloudy

7 28 Clouds thick everywhere no stars visible in finder.

8 00 Cloudy

8 24 +21.0
7 24
1 00
11 00

27 18.0 9.2
27 22.0
27 53.0 9.0
28 45.0 (6.8)

8 25 clearer now

02
57

38 37.5

03.0
21.5

March 5, 1904.

43 16
~~45 25~~
45 37
45 53

f 50 39.0
41.5
44.5

51 39.0
41.0
44.0

f 51 09.5
01.5
04.5

51 54.0
56.0
59.2

51 18.5
20.5
24.0

f 53 Star y prec x by 10^s dis 15.'0 South of it.

f 54	0.0	a		f 55	17.0	a
	15.5	b			31.5	b
	27.0	c (x)			43.5	c (x)
	36.0	d			52.0	d
	43.5	e			59.7	e

Mar. 5, 1904

8 56 11.0 a
26.0 b
37.5 c (x)
46.5 d
54.0 e

53.5 New start made
03.0

---

9 04 05.0 (y)
04 46.0 (9.2)

06 56.5 x
07 10.5 y
12.0 z

9 08

07 22.0 x
36.5 y
38.0 z

07 52.0 x
08 06.5 y
08.0 z

08 21.0 x
35.0 y
36.5 z

08 47.0 x
09 01.0 y
09 03.0 z

March 5, 1904

9 37 57.0 x
38 10.5 y
38 12.5 z

38 58.5 x
39 12.5 y
39 15.0 z

39 28 x
39 42 y
39 44 z

~~39 57.0 x~~
~~40 y~~
~~z~~

~~40 30.0 x~~
~~40 440 y~~
~~40 z~~

~~40~~
41 04.5 x
41 18.0 y
41 20.0 z

41 30.5 x
41 440 y
41 46.0 z

10 00 00 x
14 y
16 z

10 00 31.0 x
450 y
47.0 z

10 01 09 x
23 y
25 z

02 30.5 x
44.0 y
46.5 z

March 5, 1904.

02 55.5 x
03 09.5 y
11.5 z

~~05 39.0~~

05 58.0 x
06 11.8 y
06 14.0 z

~~21.5 x~~
~~38.8 y~~
~~. z~~

10 06 51.0
07 05.0
07 07.0

10 08 .31
08 33
09 01

1013 Comp. star = +22°.1948 (9.2)

March 15, 1904

10 13 26.8
14 08.0

Supposed asteroid precedes
10 14 +23.1965 (9.2) by 41.2 & 1.~~7~~6 North
of it

Bond 236 used

above (comp ✱ dis I
130.5
10 30 35 188.5 58.0
307.3 64.0
371.3 122.0 +1.15
129.8
33 35 189.7 59.9 +1.20
312.4 57.1
369.5 117.0 +1.26
Below Mean = +1.30
45.4
38 05 94.3 48.9
220.3 61.1
281.4 110.0 +1.42

40.2 +1.39
10 40 40 101.3 61.1
23 15 224.3 51.6
10 35 49 275.9 112.7 +1.36
5 −37
15 35 12 G.M.T.
6545.

March 5, 1904

Below II

44.6
10 45 08 96.8 52.2
222.8 58.6
281.4 110.8 +1.40

41.2
46 20 98.4 57.2 +1.42
226.0 51.7
277.7 108.9 +1.44

Above Mean = +1.32

312.3
50 45 368.3 56.0
127.0 63.6
190.6 119.6 +1.20

309.1 +1.23
10 53 25 371.6 62.5
35 30 132.9 54.6
10 48 52 187.5 117.1 +1.26
5 -39
15 48 13 H.A. 350.5 Ver B
6545. S.T. = 10. 05
H.A. +1.42 West
Dec +23.2 North
Sp whl -1.3 a
-0.5 B
+0.2 C

Mean 5,19 OK

B 236 B 39K
11 04 41.5 11 04 00

Mar. 8, 1904 (Tuesday)

7 04 Os watch 43s fast

B 236
7 05 01.5
06 02.0

B 394
7 05 00
06 00

Fides (37) W Obs
Phot T.

8 24 +24.6
6 34
1 50
10 10

7 40 Upon exam. of region of Sat. night the supposed Fides turns out to be a star

Flora (8) W Obs.
Phot T.

10 39 + 19.7
7 00
3 39
8 21 7 51 26.5
45.5
49.5

(Over)

March 8, 1904.

Flora (8) cont.

43.3
14.3

17.5
48.0

7 5 8 Star x fols a by 30.5 & 8.2 N of it.

8 01 29.0 b — 23 2
01 31.0 x 2.0 — 25 8
01 38.5 c 7.5 — 33

53
2.5
55.5 6.5
02.0

5 0 5
2 5
5

06.5
8 05 ~~#0~~ 09.0 2.5
16.5 7.5

42.0
2.3
44.3 7.7
52.0

17.0 2.2
38.5 2.5 19.2 7.5
41.0 7.5 26.7
48.5

Mean = 2.3 & 7.5

March 8, 1904.

8 09 11.0 (9.2) d
30.0 e
43.5 f

e fols d & is 4.3 S. of it.
f fols d & is 5.2 S. of it.

30.5 e   51.0 e
13.0 43.5 f   12.7 03.7 f

8 13 ~~120~~
13.2 18.0 e   13.3 42.5 e
31.2 f   55.8 f

06.5 e
13.0 19.5 f

8 14 40.0 x
15 29.0 g
15 49.2 h

March 8, 1904.

Flora (cont.)

8 17 47.5 x
18 37.0 g
18 57.5 h

19 18.0 x
20 07.5 g
20 28.0 h

20 39.8 x
21 29.0 g
21 49.8 h

8 22 g fols x x is 7.2 S

h fols g x is 2′.0 N

22.5 b 42.0 50
8 24 24.8 x 2.3 7.2 44.8 2.8 7.2
32.0 c 52.0

8 26 32.0 e 04.0 e
44.8 f 16.5 f

March 8, 1904

~~8 32 05 k~~
~~32 29 l (9.0)~~
~~32 51 m~~

33 00.0 k
33 23.0 l (9.0)
33 45.5 m

33 54.5 k
34 17.5 l
34 40.0 m

35 15.5 k
39.0 l
01.5 m

8 35 k prec l (9.0) by 23.2^s & is 2.1' S.
m fols l (9.0) by 22.5^s & is 4.7' N.

56 20.0
3.0 2.8
59 6.0 22.8 6.7
8 38 05 29.5

b 9 02 48.5 19.5 2.7
x 51.0 2.5 20.2
c 58.0 7.0 27.5 7.3
~~18~~

12.2 2.8 36.0 2.8
15.0 38.8 7.0
22.0 7.0 45.8

March 8, 1904.

06.5 g 40.0
27.0 h 00.5

33.5 k 42.7 k
56.5 l 06.0 l
17.5 m 28.0 m

24.5 d 33.0 d
43.0 e 52.0 e
56.0 f 04.5 f

54.0 b
56.8 x
04.0 c

21.0
8

46
48
49.5

230
24.5

42
44
46.5

1.0
3.0
4.5

19.0
21.0
23.0

00
02
03.5

10.0
12.0
13.5

March 8 1904

44 y 57.5 100 22 33.0
47 (9.3) 00.5 13.0 25 36.2

9 21 y prec (9.3) & 2.6 N. of it.

21.5 b 44.0 b
24.5 x 47.0 x
31.3 c 54.0 c

21.5 g 52.0 g
41.8 h 12.0 h

2 k
l 33.0
m 56.5
18.0

18.0
21.5

17 e
30 f

30.5 40.5
33.5 44.0

2 48.0 58.0
49.5 59.5
51.0 01

abandoned

Mar. 8, 1904

ρ Cassiop Wells
Plot T.
9.5 cap

− 0 1' +57.2
9 32
9 43

Cs watch used

Below ∠ Vardis

312.8
10 21 6 366.2 53.4
129.1 62.0
191.1 115.4 − 1.29
309.3
372.~~7~~4 63.1 − 1.30
134.6 52.2
186.8 115.3 − 1.30
above Mean = − 1.28
224.5
276.8 51.3
37.6 64.9
102.5 116.2 − 1.28

219.4 1.26
10 30.0 283.8 64.4
43.2 54.0
10 25.8 97.2 118.4 − 1.23
15 25.1
6548.

P.a 301.5 Ver B Dec +57.3 North
H.a. 10.03 S.T. 9.51
S'pwh = −0.5 B δ + 0.5 C

March 8, 1904

— Camelop 04406 8 D

4 40 +68.0
9 55
5 15

Wleb.
Phot T.
9.5" cap

4 40
10 15
5 35

Left
34.4 < comp* dis
10 58.4 105.7
713
223.6
552
~~278.8~~
126.5 + 1.05
142.3
+ 1.08
98.0
557
215.8
68.4
2842
124.1 + 1.10

Right
Mean = +1.10
305.2
13.7
685
133.1
563
189.4
124.8 + 1.09

+ 1.11

314.3
11 03.4 368.9
54.6
121.8 125.8
68.0 + 1.13
11 00.9 193.8
122.6
16 00.2 ~~194.1~~
6548.

R.a 260.0 VrB
S.T. 10:24
11 10
~~H.a~~ 5.42 West
Spark — -1.5 B
~~Dec~~ +68.4 North
-0.5 C

March 9, 1904 (Wednesday)

B 236 | B 394
7 08 52.0 | 7 09 00

7 09 Cs watch 38s fast

W.O.B.

Flora | Plot T.

9 59 +17.5
6 49

3 10
8 50

7 15 Cloudy

7 30 Sky thickly cloudy everywhere at present time

30.5 (9.5) 18.2349
39.5 Flora

7 48 Flora fols +18°.2349 (9.5) by 9s and is about 13.8 N. of it.

Clds

11.0
-45.0

~~7 50~~ ~~Flora prec +18.2351 (9.5) by 36s and is 2.3 North of it~~

March 9, 1904

7 58 Clouds

54.0
29.0

8 03 Flora precedes $+18^\circ.2351$ by 35^s and is $2'.8$ South of it.

22.5 ~~4.5~~
57.5

clds.

34.5
09.5

8 06 Clouds thick

8 11 Clds thick, stars occassionally appearing, but immediately disappearing Slight snow flurry also.

8 31 Clouds still thick in this region

8 50 Clearer now

comp star = $+18^\circ.2349$ (9.5)

Bond 236 used

(over)

March 9, 1904

~~F~~Flora I

Above < ~~F~~Flora dis.

124.1
8 58 00 194.8 70.7
314.2 55.0
369.2 125.7 − 1.07

131.0 − 1.06
59 50 190.9 59.9
307.8 66.8
14.6 126.7 − 1.05

Below mean = − 0.89

31.3
9 03 16 113.4 82.1
219.6 62.5
282.1 144.6 − 068

40.4
9 04 53 102.9 62.5 − 0.72
5 59 201.6 78.4
9 01 30 290.0 140.9 − 0.76
5 − 8

14 01 22 G.M.T.
6549.584

March 9, 1904

II

Below

~~30~~3 0.8

9 07 08 111 0.8 80.0

219.6 62.0

28~~2~~1.6 142.0 — 0.73

38.6 — 0.70

0912 10~~3~~.8 65.2

211.1 80.3

291.4 145.5 — 0.66

Above mean = — 0.83

305.6

12 38 15.8 70.2

131.2 60.5

191.7 130.7 — 0.96

312.1 — 0.96

9 14 30 11.3 ~~5~~9.2

~~8~~ 28 128.9 71.1

43 195.~~3~~0 130.3 — 0.97

9 10 52

5 — 9

14 10 43 G.M.T.

65 29. 591

March 9, 1904

III

Above

308.5

9 20 41 16.6 68.1

129.5 62.2

191.7 130.3 −0.97

311.7 −0.94

23 13 369.4 57.7

122.6 75.5

198.1 133.2 −0.91

Below Mean = −0.86

212.2

27 32 287.8 75.6

39.3 62.5

101.8 138.1 −0.81

218.4 078

9 29 40 282.6 64.2

21 06 31.6 77.2

9 25 16 108.8 141.4 −0.75

5 11

14 25 05

6549.600

March 9, 1904

IV

	Below		
	210.6		
9 32 03	289.7	79.1	
	39.0	63.8	
	102.8	142.9	— 0.72
	216.8		
34 03	282.2	65.4	— 0.72
	32.5	77.4	
	109.7	142.8	— 0.72
	Above	Mean =	— 0.84
	123.4		
37 01	198.6	75.2	
	312.4	57.6	
	10.0	132.8	— 0.92
	130.2		— 0.96
9 39 00	191.5	61.3	
23 07	307.1	67.7	
9 35 32	14.8	129.0	—1.00
5 −12			
14 35 20			
6549.608			

March 9, 1904

Rt Above V

124.2
10 00 40 194.7 70.5
309.7 68.6
10.3 131.1 − 0.96

129.5
03 05 197.2 62.7 − 0.96
306.1 67.6
13.7 130.3 − 0.97

Lt Below mean = − 0.85

33.2
08 45 107.6 74.4
215.9 66.5
282.4 140.9 − 0.76

38.4
10 12 13 103.1 64.7 − 0.74
24 43 211.6 78.4
10 06 11 290.0 143.1 − 0.71
5 −17
15 05 54
6549.629

March 9, 1904

Lt Below

VI

32.2
10 16 00 109.6 77.4
218.7 63.9
282.6 141.3 — 0.75

38.9
1856 104.0 65.1 — 0.72
211.8 79.1
290.9 144.2 — 0.69

Rt above Mean = — 0.82

304.5
23 20 16.0 71.5
128.8 63.2
192.0 134.7 — 0.88

311.9 — 0.92
10 27 03 381.2 59.3
5 19 124.5 72.1
10 21 20 196.6 131.4 — 0.95
5 -19
15 21 01
6549.640

March 9, 1904

RDa   VII

305.6
10 39 40   16.6   71.0
130.0   60.2
190.2   131.2   − 0.95

312.6
42 34   369.9   57.3   − 0.99
124.8   70.1
194.9   127.4   − 1.03

Mean = −0.84

LDB
210.4
46 07   289.3   78.9
38.6   65.0
103.6   143.9   − 0.70

218.5   − 0.70
10 48 07   281.9   63.4
13 2A   31.6   80.3
10 43 22   111.9   143.7   − 0.70
5 −22
15 43 00
6549 655

March 9, 1904

VIII

LtB

212.0
10.50 40 288.5 76.5
38.2 64.9
103.1 141.4 − 0.75

218.6
52 10 283.0 64.4 − 0.76
32.6 76.0
108.6 140.4 − 0.77

Mean = − 0.86

ptA

122.5
54 56 194.3 71.8
310.4 58.2
368.6 130.0 − 0.98

130.6
10 57 16 190.9 60.3 − 0.96
15 02 304.6 70.9
10 53 46 ~~16.0~~ 131.7 − 0.95
5 − 24 15.5
15 53 22 PA = 6.0 v on B
65 49.662 Ha = 0.11 West
Dec = +18.1 North
ST = 10.25
Spwh = { −1.5 B
−0.5 C

March 9, 1904

B236
11 07 25.5

B394
11 07 00

L. J. P.

March. 10, 1904 (Thursday)

B 236	Ballou 103
7 02 12.0	7 02 00
03 12.3	03 00

7 04 C's watch = 28s fast of Ball 103

Flora w Obs. plot T.

9 59 +17.5
6 39
3 20
8 40

7 19 07.8 51.0s
19 58.8

7 20 Flora precedes +18° 2349 (9.5) by about 51s and is about 18' North of it. This location is pretty close to the the edge of the field interffers a little with both objects as they cross the bar.

7 22 43.5 Flora
~~7 23~~ 24 10.0 (9.5) 1 26.5

Flora precedes +18° 2351 (9.5) by 1m 26.5s and
7 24 is 2.6' North of it.

March 10, 1904

Hence the object observed for Flora was correct

Same comp * used as on the last night.

Bond 236 used on Flora

I

Left

211.7 < Flora dia.

7 36 38 281.5 76.9

36.7 68.4

105.1 145.3 − 0.67

216.9

39 04 281.1 64.2 − 0.72

31.9 76.4

108.3 140.6 − 0.76

Right mean = − 0.84

124.6

42 19 194.3 69.7

310.3 61.9

12.2 131.6 − 0.95

130.9

7 44 29 190.5 59.6 − 0.96

2 30 303.4 70.7

7 40 38 ~~10~~. 130.3 − 0.97

5 − 19 14.1

12 40 19^s G.M.T.

6550.528

March 10, 1904

clouds

Right
21.2

II

7 50 Stopped by clouds.

~~Fts~~ Seeing not the very best in group taken and ~~haze~~ altho sky was pretty clear during most of the group, haze increasing towards the end. The greatest care however was exercised and settings made slowly. Observations considered good.

~~Left~~

Upon beginning the second group stopped by the haze, which was
7 55 increasing somewhat rapidly, so that nothing further can be done on this object at present

H.A. 2.46 East
Dec. +18.1 North
S.T. 7.26
Sp.Wh. -3.5 B - 2.5 C
P.A. 333.5 Ver. B.

The above ~~setting~~ readings made for position of star with telescope still pointing on the region, as it is possible nothing further can be done on this object tonight. [illegible] however not yet read

March 10, 1904.

as observer does not wish to move telescope from region at present. It should be mentioned in connection with P.A. that the
8 02 images were not superposed altho quite nearly so and when H.A. & Dec. were read it is thought that the two objects altho invisible were pretty nearly in the center of the field.

8 10 Still cloudy.

8 15 Still cloudy

8 35 Sky thickly cloudy everywhere no stars visible and steadily growing worse, apparently no chance for anything further

after above readings for positions of images stars were not seen again so that of necessity the images were not quite superposed at time of reading of sprocket, altho very nearly so.

March 10, 1904.

Bond 236 Ball, 103

8 40 28.0 8 40 0.0

L. P. W.

March 12, 1904 (Saturday)

Bond 236　　　　Bond 394

7 01 35.5　　　　7 02 00
02 36.0　　　　03 00

7 03　Cs watch = 32^s fast

Flora　　2w Obs

9 59 +17.5　= Plot T.
6 49

3 10
8 50

~~01~~　11.0　a
21.2　b (flora)　10.2
59.7　c　~~3~~87

a　15.5　　a　16.0
10.5　b　26.0　　b　26.5　10.5
~~3~~9.0　c　04.5　　c　05.0　~~3~~9.0

Flora prec. +19.2329 (9.5) by 39^s ~~q~~
7 42　is about 0.1 North of it.

a　34.5　　a　~~3~~ 45.0
b　44.0　9.5　b　~~5~~54.5　9.5
c　23.5　~~3~~9.~~0~~5　c ~~+~~　33.8　39.3

March 12, 1904

47 08.0
48 29.5

a 10.5
7 53 b 20.0 9.5
c 59.0 39.0

Comp. star = DM +18. 2346 (9.5)
Bond 236 used

Left

I

35.3 Horadis
8 00 25 89.1 53.8
2188 49.4
268.2 103.2 — 1.58

38.4
02 19 86.3 47.9 — 1.60
216.5 54.1
270.6 102.0 —1.61

Right mean = —1.60

304.7
05 27 361.5 56.8
131.0 45.8
176.8 102.6 — 1.59

309.2
8 07 10 355.7 46.5 — 1.60
15 21 126.5 55.5
8 03 50
5 +14 182.0 6552544 1020 — 1.61
~~13 03 36~~ G.M.T.
13 [illegible]

March 12, 1904

II

	Right		
	306.9		
8 08 45	361.8	54.9	
	180.9	43.2	
	174.1	98.1	− 1.70
	310.9		− 1.70
10 40	356.3	45.4	
	126.5	52.3	
	178.8	97.7	− 1.71
	Left	mean = − 1.62	
	216.3		
13 46	274.2	57.9	
	40.5	46.5	
	87.0	104.4	− 1.55
	217.9		
8 15 30	266.6	48 7	− 1.55
8 41	35.2	55.5	
8 12 10	90.7	104.2	− 1.55

5 +13

~~13 11 57~~ G.M.T.

13 12 23

6 552, 550

March 12, 1904

DM +18.°2346 with +18.°2349

Left

117.4 <+18.2349 dis.

8 30 50 18~~7~~6.7

304.1

361.3

69.3

57.2

126.5 −1.05

121.3

32 45 185.7

295.3

367.6

64.4 −0.94

72.3

136.7 −0.84

Mean = −0.88

Right

27.3

39 50 100.0

213.0

275.8

72.7

62.8

135.5 −0.87

−0.83

30.2

8 42 06 92.7

25 26 204.7

8 36 22 281.2

5 +9

13 36 31 G.M.T.

6552.567

62.5

76.5

139.0 −0.79

March 12, 1904

Right   II

28.4
8 49 00 98.2   69.8
210.3   61.5
271.8   131.3   − 0.95

31.1
8 55 26 97.8   66.7   − 0.86 ^{8}
208.0   71.8
279.8   138.5   − 0.80

Left   Mean = − 0.94 ^{5}

298.5
8 59 28 364.1   65.6
122.0   61.0
183.0   126.6   − 1.05

302.8   − 1.02
9 01 47 361.3   58.5
225 41 117.1   71.5
8 56 25 188.6   130.0   − 0.98
5 + 6
13 56 31
6552.581

March 12, 1904

Flora Resumed

III

Left

215.0
9 38 10 272.5 Lt Flora dis
40.9 57.5
83.6 42.7
100 2 − 1.65

221.2
40 42 267.7 465 − 1.64
36.2 542
90.4 100.7 − 164

Right Mean = −1.64
127.1
44 28 179.1 52.0
310.0 47.3
357.3 99.3 − 167

129.1 −1.64
9 46 30 176.6 475
9 50 305.8 55.0
9 42 28 360.8 102.5 −160
5 − 1
14 42 27
6552.612

March 12, 1904

IV

Right
125.3
9 48 34 182.2 56.9
310.0 46.3
356.3 1032 −1.58

130.8
50 34 175.6 448 −1.63
305.9 .54.3
360.2 991 −1.68

Left

Mean = −1.60

33.4
54 12 93.3 59.9
217.0 50.5
267.5 110.4 −1.55

38.9
9 56 00 86.5 47.6 −1.57
9 20 215.2 55.1
9 52 20 270.3 102.7 −1.59
5 −3
14 52 17 G.M.T.
6552. ~~661~~ 619

March 12, 1904

VI

Left
36.8
10 0738 90.4 53.6
217.7 50.6
268.3 104.2 — 1.55

— 1.56
37.9
0945 86.8 48.9
215.4 54.6
270.0 103.5 — 1.57

Right Mean = —1.60
307.0
13 34 359.5 52.5
128.8 46.5
175.3 99.0 — 1.68

309.0 — 1.65
10 15 44 356.2 47.2
46 21 125.9 54.1
10 11 35 180.0 101.3 — 1.62
5 - 6
15 11 29 G.M.T.
6552 633

March 12, 1904

VI

Right
304.5
10 18 03 358.4 53.9
128.5 47.5
176.0 101.4 − 1.62

310.8
20 15 355.9 45.9 − 1.64
126.4 54.5
180.9 100.4 − 1.65

Left Mean = −1.64
216.4
23 40 270.4 54.0
40.4 46.0
86.4 100.0 1.66

218.2
10 26 40 266.1 47.9 −1.64
8 38 35.4 53.2
10 22 10 88.6 101.1 −1.63
5 − 8
15 22 18 G.M.T.
6552.660

March 12, 1904

VII

Left
216.4
10 39 08 270.9 54.5
37.6 48.8
86.4 103.3 — 1.58

5

218.1
266.2 48.1 — 1.63
41 42 36.1 57.1
87.2 99.2 — 1.68

Right Mean = –1.68
127.8
45 08 180.0 52.2
309.7 46.6 — 1.69
356.3 98.8

131.8 — 1.72
10 47 27 176.1 44.3
12 17 306.3 57.8
10 43 04 358.1 96.1 — 1.75
5 –11
15 42 53
6552.655

March 12, 1904

VIII

Right & Below

127.8
10 49 44 177.0 50.2
310.0 45.3
355.3 95.5

— 1.77

130.3 — 1.72
52 30 177.3 47.0
306.5 52.4 — 1.67
358.9 99.4

Left & Above Mean = — 1.60

36.6
55 44 90.2 53.6
216.4 50.6
267.0 104.2 — 1.55

34.2 — 1.49
10 57 42 89.7 51.5
15 40 212.5 58.0
10 53 55 270.5 109.5 — 1.43
5 — 13

15 53 42 M.T. R.A. = 130.5 Var B
6552. 662
H.A. = +0:24 West
S.T. = 10:39
Dec = +18 North
Sparkling — 4.5 a
— 3.5 b
— 2.8 c

Last two groups rather diff on acct of high alt Telescope on meridian and

Mar 12, 1904

Obs. even on his knees on pier

B. 236	B. 394
11 11 15.5	11 11 00

L.P.O.

March 16, 1904 (Wednesday)

Bond 236 | Bond 394
7 04 48.8 | 7 05 00
05 49.0 | 06 00

7 07 Cs' watch 6s fast of Bond 394

Hides | Wolf, Phot T.

8 18 +23.6
7 08
1 10
10 50

8 20 +24.6
7 10
1 10
10 50

7 29 12.2 | 01.5 a 16.5
29 51.2 | 07.5 f 22.5
30 00.0
31 06.5 | 28.5 ~~45.8~~
34.5 52.0

0.5
6.8

7 35 b fols a by 6.^{s}1 & 2' N. of it

March 16, 1904

7.8
11.0

~~8~~ 7 36 Star b fols +23°.1953 (9.2) by $3^{s}.2$ & $8'.3$ North. Star b = 9.3 magn

5

39 55.8 44
40 31.8 35

7 55 05.5 (8.5)
56 34.8 (9.1) x
57 27.0
57 29.5

7 57 Star c fols +22°.1932 (9.1) by $54^{s}.7$ & $9'.5$ North

8 07 ~~13~~ 24.0
26.2 c 2.2 6.8
33.0

10.0
12.5 c 2.5 6.5
19.0

8 08
9.3
11.5
18.3

38.3
51.0
57.3

2.7
6.3

~~32~~
~~34.4~~
53.0
55.2
02.0

2.2
6.8

March 16, 1904.

1.3.5 d 34.5 d 55.8 d
8 12 24.5 9.0 43.0 8.5 04.5 8.7

~~16.7~~ 32.0 a 47.5 d
40.5 8.5 46.3 8.8

8 17 + 22.8
8 12
0 5
11 55

34.0 ~~B~~ 57.5
8 24 36.2 c 2.2 59.8 c 2.3
43.0 06.5

~~24~~ 27.4
30.0 c 2.6
36.8

32.5 d ~~3~~ ~~49.0 d~~ 05.5 d
40.8 ~~58.0~~ 13.5
8 27
43.0 d 04.5
51.2 13.0

March 16, 1904

9 17 21.5 ~~3~~
24.0 c 2.5
31.0 7.0
~~3~~

~~40~~

53.5
56.0 c 2.5 ~~1.5 3~~
9 20 03.2 7.2 ~~1. .0~~
~~41.0~~

34.0 ~~53.0~~ 24.0
36.5 c 2.5 ~~55.5~~ 26.0 c 2.0
43.5 7.0 33.0 7.0

33.5 d ~~46.0~~
42.3 8.8 ~~54~~

52.0 d 08.0 d
9 23 00.5 8.5 16.8 8.8

10.2 d 23.0 d 8.8
19.0 8.8 31.8

~~26.8~~
~~35.0~~

March 16, 1904

9 26 ~~26~~ 06.5
26 48.8

9 26 d fols c by $42^s.3$ & $2'.5$
North of d

9 34 44.0
35 29.5

8 17 +22.8
9 32
1 15

9 45 49.0 e
46 09.3 f 20.3
46 31.0 g 21.7

46 41.5 e
47 01.5 f 20.0
47 22.5 g 21.0

47 38.5 e
58.5 f 20.0
20.0 g 21.5

March 16, 1904

~~9 48 48.8~~

~~9 48 59.5 e~~
~~49 19.8 f~~
~~42.0 g~~

50 04.0 e
50 24.2 f 20.2
50 46.0 g 21.8

9 35 Star f fols +22°1929 (8.5) by 45.5s &
3.0' ~~South of it~~

Iris Wells.

6 5 2 +17.6
9 5 2
3 00

6 54 +18.0
9 54
3 00

March 16, 1904.
Iris (cont)

10 13 39.5 a
14 20.0 40.5

17 53.7 a
18 12.8 b
18 15.0 c

~~17~~

10 22 20.5
22 41.8

10 22 Star c fols +17.1450 (9.5) by 21.3
& is 8.0 South of it.

50.5
55.0

Comp star = +17°1451 (9.5)

10 23 1.3 1.5 1.5 1.5 1.3

Supposed Iris prec. ft star 1.4 & is 1.3
North of it.

March 16, 1904

Iris Phot T. Webbs.

Bond ~~29~~ 236 used.

LOA.

113.0 < comp ~~+~~ dis

11 00 00 191.8 78.8

293.2 80.3

13.5 159.1 + 0.40

110.9

11 02 06 194.0 83.1 +0.42

295.3 74.2

369.5 157.3 + 0.43

ROB. Mean = +0.37

203.7

05 36 282.6 78.9

20.1 86.3

106.4 165.2 + 0.28

197.4

11 07 24 287.5 90.1 +0.32

15 06 28.8 70.2

11 03 46 99.0 160.3 + 0.37

5 - 34

16 03 12

Mar. 16, 1904

II

R.O.B.

204.5

1109 05 281.3 — 76.8 :

16.4 — 89.5 -

106.3 — 166.3 +0.26

197.3 — +0.28

10 40 286.4 — 89.1 -

26.2 — 75.2 .

102.4 — 164.3 +0.30

L.O.A. — Mean = +0.29

114.2

12 18 192.1 — 77.9

287.4 — 89.7

17.1 — 167.6 +0.24

108.7 — +0.30

11 13 45 193.1 — 84.4 -

5 48 292.6 — 76.6 .

11 11 27 369.2 — 166.0 +0.36

5 - -35

16 10 52 G.M.T.

S.T. 11:07

P.a. 120 Var B

H.a. +4.14 West

Dec +17 8 North

1118

S'mch - -1.15 B 8 —0.5C

March 16, 1904

B 236 B 394

11 20 37.2 11 20 0.0

March 17/1904 (Thursday)

B 236
7 04 04.5
7 05 04 7

B 394
7 04 00
7 05 00

7 06 C's watch 6s slow of B 394

Hides Webbs

8 20 +24.6
7 20
11 00

21.0
49.5

28.5
14.0

41 39.5
43 11.5

47.5
34.0

8 17 33
35

51
53

16
18

01
03

28
30

8 17 The asteroid prec. +22°.1941 (B.D.) by 2s f is ~~9.0~~ 8.9 North of it

March 17, 1904

Fides cont'.
Bond 236 used. Phot T.

Comparison star = +22.1938 (9.3)
~~Left~~ This object was not Fides. See p. 218.
~~Below~~

I.

308.8 ∠ comp ★ dis.
8 46 35 355.8 45.0
124.7 53.1
177.8 98.1 + 1.70
306.9
49 25 357.3 50.4 + 1.72
128.3 46.8
175.1 97.2 + 1.73
Right Mean = + 1.71
39.6
55 48 84.7 45.1
216.6 50.7
267.3 95.8 + 1.76

31~~4~~0 + 1.70
8 57 12 84.6 53.6
9 00 219.6 47.4
8 54 15 26~~6~~7.0 101.0 + 1.63
5 - 23
13 53 52 G.M.T.
6557 -

see page 208

omitted by

mistake

see p. 208.

March 17, 1904

II

Right   This object was not Fides. See p. 213.

38.9
9 00 00 84.0   45.1
215.7   51.0
266.7   96.1 + 1.75

364   +1.76
03 25 87.9   51.5
220.0   44.3
2~~9~~64.3   95.8 + 1.76

Left   mean = + 1.78

136.8
10 04 142.1   41.3
306.3   51.0
357.3   92.3 + 1.85

+180
124.1
9 13 46 177.4   53.3
27 15 309.6   43.4
9 06 49x 353.0   96.7 + 1.74
5 - 25
14 06 24x M.T.
6557.

Observations throughout rather difficult and second group more so than first on account of increasing haze and clouds. Second group not considered as having quite the weight as

March 17, 1904

the first, on account of the greater difficulty. Asteriod rather faint. ~~Altitude~~ very high and at time of beginning telescope practically on meridian. Observer on his knees on the pier.

Cloud thicker, asteroid invisible
9 28 at full brightness

9 30 Cloud thicker, comp star practically invisible at full brightness. Abandoned.

R.A. = 6.0 Var B
H.A. = 1:04 West
Dec. = +22.7 North
S.T. = 9:28
Spirit. = { −1.5 B
−0.5 C.

Doris Webb.

6 54 +18.0
9 34
2 40

March 17, 1904
Iris cont.

9 50 08.5 (7.0)
53.8

40.0
59.0

25.0
29.5

The star observed last night for Iris, is proved tonight to be Iris by examination of the region. The comp. star. of last night is seen, ~~its faint component is also~~ Star +17.1454 (9.4) is also seen together with its faint companion. The faint companion of last night to Iris is also seen but Iris has gone.

10 05 00.5
10 06
05 57.0
06 18.0

Iris fols +17.1454 (9.4) by 56.5? s

March 17, 1904

is 4'.8 N. of it.

10 06 Iris precedes +17.1461 (BD) by 21s & is 1'.8 N of it.

044068 — Camelop Wells

— Camelop 9''.5 cap

Phot T.

4 40 68.4
10 20
5 40

C's watch used now.

Left
27.8
10 39.2 9.6

10 42 Impossible to measure var on account of thickness of cloud.

Impossible to do anything further on account of increasing clouds.

additional notes on slides:- In very first sets of 1st group sky fairly clear, but group ended troubled somewhat by haze & more so in 2nd group.

B. 236 — B. 394
10 47 41.5 10 47 00

L. W.

Mar. 18. 1904. (Friday)

B. 236.			B. 394.		
8	21	45.7	8	21	0.0
	22	46.1		22	0.0
	34	49.7	8	34	0.0
	35	50.0		35	0.0

8 36 C's watch = 16s slow of B 394

Flides W.Obs
8 20 + 24.6 Plot T
8 40
0 20

~~35.5~~

17 28 42 58
19 30 44 60

11.5 26.0 36
15.0 29.0 38.5

46 58
49 01

9 05 Flides fols +22°.1941 (8.8) by $2^s.8$ &
is 10'.6 N. of it.

March 18, 1904

~~39.5~~	49.5		+
~~45.0~~	56.0	3.5	25.5
		9.0	30.5

Phides tonight the ~~position~~ fols of the real
9 10 Phides of last night by about 5.5s
and lies about 2'.3 S. of it.

The object assumed for Phides last night turns out to be a star, but Phides certainly found tonight.

Comp star = +22°.1938 (9.3)

Bond 236 used for times on Phides.

see next pages

March 18, 1904.

Plides I

Left & above

126.7
9 23 59 180.3 < comp ✱ dis 53.6 ✓
309.2 46.6 ✓
355.8 100.2 ✓ +1.65 ✓

128.2 +1.64 ✓
25 57 174.0 45.8 ✓
306.1 54.9 ✓
361.0 100.7 ✓ +1.64 ✓

RDVB. Mean = +1.59 ✓
36.0
29 28 85.0 49.0 ✓
215.9 57.3 ✓
273.2 106.3 ✓ +1.50 ✓

32.8 +1.54 ✓
9 31 08 91.4 58.6 ✓
30 32 219.4 44.0 ✓
9 27 38 263.4 102.6 ✓ +1.59 ✓
5 58
14 26 40 G.M.T.

March 18, 1904.

II

ROB.

41.3
9 33 30 82.8 — 41.5
213.5 — 58.3
271.8 — 99.8 + 1.66

+ 1.68

36.3
35 46 91.4 — 55.1
220.4 — 43.2
263.6 — 98.3 + 1.70

LOA. — Mean = + 1.68
305.0
38 49 358.2 — 53.2
130.0 — 44.0
174.0 — 97.2 + 1.73

309.0
9 41 33 354.2 — 45.2 + 1.68
29 38 123.4 — 56.0
9 37 24 179.4 — 101.2 + 1.63
5 -1 00
14 36 24

March 18, 1904

III

RDA -

303.6

9 52 53 359.8 56.2 ✓

129.8 43.8 ✓

173.6 100.0 ✓ +1.66 ✓

308.9 +1.68 ✓

54 50 354.2 45.3 ✓

124.6 53.3 ✓

177.9 98.6 ✓ +1.69 ✓

RDB - clouds Mean = +1.6~~4~~ 5

218.4

10 08 46 265.7 clouds 47.3 ✓

34.4 clouds 56.5 ✓

90.9 103.8 ✓ +1.56 ✓

214.3

10 14 35 271.4 57.4 ✓ + 1.6~~7~~ 2

249 04 41.8 42.1 ✓ 7 ✓

10 02 16 83.9 99.5 ✓ +1.6~~6~~

5 -1 4

15 01 12

March 18, 1904

IV

POB

221.3
10 16 48 263.8 42.5 ✓
31.8 58.5 ✓
90.3 101.0 ✓ + 1.63 ✓

211.7 + 1.60 ✓
19 43 272.4 60.7 ✓
40.2 43.1 ✓
83.3 103.8 ✓ + 1.56 ✓

Left Above Mean = + 1.58 ✓
124.0
23 08 179.6 55.6 ✓
307.3 46.1 ✓
353.4 101.7 ✓ + 1.61 ✓

130.3 + 1.57 ✓
10 25 12 176.8 46.5 ✓
8 4 51 303.4 58.6 ✓
10 21 13 362.0 105.1 ✓ + 1.53 ✓
5 -1 7
15 20 06

March 18, 1904

V

L of a.

126.3
10 29 45 180.3 540 ✓
309.8 435 ✓
353.3 97.5 ✓ + 1.72 ✓

$13\overset{1}{\cancel{4}}.5$ + 1.71 ✓
32 00 174.7 43.2 ✓
302.9 55.1 ✓
358.0 98.3 ✓ + 1.70 ✓

R of B Mean = + 1.66 ✓

219.8
35 35 265.0 45.2 ✓
35.3 56.8 ✓
92.1 102.0 ✓ + 1.61 ✓

213.3
10 38 10 272.4 59.1 ✓ + 1.61 ✓
15 30 42.2 42.6 ✓
10 33 52 84.8 101.7 ✓ + 1.61 ✓
5 − 1 9
15 32 43

1904phae.proj..567M

March 18, 1904

VI

ROB

217.4

10 40 00 267.2 49.5✓

34.6 53.4✓

88.0 102.9✓ +1.59✓

213.6 +1.60✓

42 03 272.8 59.2✓

41.1 43.3✓

84.4 102.5✓ +1.60✓

ROA mean = +1.60✓

122.2

45 22 179.9 57.7✓

308.0 46.4✓

354.4 104.1✓ +1.56✓

129.5

10 48 10 175.2 45.7✓ +160✓

15 35 304.4 55.1✓

10 43 54 ~~358.8~~ 100.8✓ +164✓

5-1-10 359.5

15 42 44

March 18/1904

R t A. VIII

124.4
10 53 00 181.2 56.8 ✓
306.2 47.6 ✓
353.8 104.4 ✓ +1.55 ✓

127.2 +1.50 ✓
5488 178.4 51.2 ✓
303.5 57.1 ✓
360.6 108.3 ✓ +1.46 ✓

R t B Mean = +1.5$\overset{0}{\cancel{1}}$

340.4
5736 86.8 46.4 ✓
213.0 58.2 ✓
271.2 104.6 ✓ + 1.54 ✓

29.0 + 1.5$\overset{1}{\cancel{2}}$
10 59 26 89.3 60.3 ✓
24 40 219.0 47.1 ✓
10 56 10 266.1 107.4 ✓ + 1.48 ✓
5 -1 12
15 54 58

P.A. = 192.4 Vert B
H.A. = +2.41 West
Dec. = +22.6 North
S.T. = 11:02
Spirl = -2.5 A
-1.5 B
-0.9 C

March 18, 1904.

Troubled more or less in series of observations by clouds, but extreme care exercised. Sudden clearing with passing clouds. Clouded up again completely shortly after last group.

Bond 286 Bond 394

11 14 15.0 11 13 00