

Observations de comètes

faites à l'observatoire de Nicolaiew avec le réfracteur de 9 pouces par *J. Kortazzi*.

| 1898 | T. m. Nicol. | $\Delta\alpha$ | $\Delta\delta$ | Cp. | α app. | $\log p \cdot \Delta$ | δ app. | $\log p \cdot \Delta$ | Red. ad l. app. | * |
|------|--------------|----------------|----------------|-----|---------------|-----------------------|---------------|-----------------------|-----------------|---|
|------|--------------|----------------|----------------|-----|---------------|-----------------------|---------------|-----------------------|-----------------|---|

Comète 1898 V.

| | | | | | | | | | | |
|---------|---|------------------------------------|-----------|-----|--|--------------------|----------------|-------|---------------------------|---|
| Juin 22 | 13 ^h 28 ^m 54 ^s | -3 ^m 34 ^s 54 | -1' 56".8 | 4.4 | 19 ^h 49 ^m 40 ^s 52 | 8.532 _n | -22° 13' 42".2 | 0.916 | +4 ^s 19 + 9".1 | 1 |
| 23 | 12 52 1 | +2 0.85 | -5 20.4 | 6.6 | 19 35 56.55 | 8.820 _n | -22 23 1.9 | 0.916 | +4.28 + 7.3 | 2 |
| 26 | 12 28 31 | +3 18.27 | +2 54.9 | 6.6 | 18 49 52.74 | 7.278 | -22 22 27.0 | 0.917 | +4.41 + 2.4 | 3 |
| 27 | 12 1 22 | +0 21.29 | -7 32.1 | 8.8 | 18 33 47.26 | 8.180 _n | -22 10 51.6 | 0.916 | +4.41 + 1.1 | 4 |
| 28 | 12 14 0 | +1 10.33 | +11 40.4 | 8.8 | 18 17 3.18 | 8.682 | -21 52 22.1 | 0.916 | +4.42 - 0.7 | 5 |
| 29 | 12 36 2 | -0 57.20 | -0 1.2 | 8.8 | 18 0 11.46 | 9.102 | -21 27 17.3 | 0.910 | +4.40 - 2.1 | 6 |

Comète 1898 VI.

| | | | | | | | | | | |
|---------|----------|----------|---------|-----|------------|--------------------|-------------|-------|-------------|---|
| Juin 27 | 13 21 1) | +0 1.19 | +0 19.4 | 5.4 | 4 43 42.11 | 9.694 _n | +54 44 2.1 | 0.857 | +1.73 + 1.3 | 7 |
| 28 | 13 9 24 | +4 30.93 | -1 20.1 | 5.5 | 4 49 15.83 | 9.669 _n | +54 17 47.3 | 0.867 | +1.76 + 1.2 | 8 |
| 29 | 13 26 55 | +1 14.78 | +4 55.0 | 6.6 | 4 54 51.91 | 9.692 _n | +53 49 59.7 | 0.857 | +1.78 + 1.1 | 9 |

Positions moyennes des étoiles de comparaison.

| * | α 1898.0 | δ 1898.0 | Autorité | * | α 1898.0 | δ 1898.0 | Autorité |
|----------|--|-----------------|--|----------|--|-----------------|---|
| 1 | 19 ^h 53 ^m 10 ^s 87 | -22° 11' 54".5 | Rapp. à α | 5 | 18 ^h 15 ^m 48 ^s 43 | -22° 4' 1".8 | $\frac{1}{3}$ (Wash. Z. + M ₁ + BB.) ³⁾ |
| α | 19 49 51.37 | -22 14 15.4 | Yarn. 8767 | 6 | 18 1 4.26 | -21 27 14.0 | Yarn. 7776 |
| 2 | 19 33 51.42 | -22 17 48.8 | $\frac{1}{3}$ (BB. VI 19 ^h 69 + 2 Yarn. 8614) ²⁾ | 7 | 4 43 39.19 | +54 43 41.4 | AG. Cambr. 1981 |
| 3 | 18 46 30.06 | -22 25 24.3 | $\frac{1}{2}$ (BB. VI 18 ^h 130 + M ₁ 17719) | 8 | 4 44 43.14 | +54 19 6.2 | AG. Cambr. 1994 |
| 4 | 18 33 21.56 | -22 3 20.6 | Wash. Mur. Z. 181 | 9 | 4 53 35.35 | +53 45 3.6 | Rapp. à δ |
| | | | | δ | 4 54 34.94 | +53 36 30.9 | AG. Cambr. 2041 |

Nicolaiew 1898 Septembre.

J. Kortazzi.

¹⁾ A ce moment la comète se trouvait à la distance minimale de *7; les P et les d furent mesurées avant et après ce moment; la position donnée est calculée d'après la méthode des moindres carrés.

²⁾ La comparaison avec Lalande 37221 donne le mouvement propre $\mu' = -0''.145$.

³⁾ La position de cette étoile dans A. N. 3509 p. 88 est erronée à 5 années de place.

Elements and Ephemeris of Planet 1898 EC.

From normal places of Oct. 18 (6 observations) and single observations of Nov. 3, and Nov. 17, I have computed the following elliptic elements of this planet.

Epoch 1898 Oct. 18.5 Berlin M. T.

$$\left. \begin{aligned} M &= 284^\circ 59' 46''.6 \\ \omega &= 175^\circ 59' 34''.5 \\ \Omega &= 292^\circ 16' 28''.8 \\ i &= 1^\circ 35' 48''.6 \\ \varphi &= 6^\circ 17' 1''.8 \end{aligned} \right\} 1898.0 \quad \begin{aligned} \mu &= 1076''.985 \\ \log a &= 0.345198 \end{aligned}$$

Constants for the Equator of 1898.0.

$$\begin{aligned} x &= [9.999855] r \cdot \sin(v + 198^\circ 16' 31''.5) \\ y &= [9.960563] r \cdot \sin(v + 107^\circ 36' 56''.9) \\ z &= [9.611021] r \cdot \sin(v + 111^\circ 34' 52''.3) \end{aligned}$$

The planet was about 12.5 magnitude when discovered and is at present from 13 to 14 magnitude.

Ephemeris for Berlin Mean Midnight.

| 1898 | true α | true δ | $\log r$ | $\log \Delta$ | 1898 | true α | true δ | $\log r$ | $\log \Delta$ |
|---------|---|---------------|----------|---------------|---------|---|---------------|----------|---------------|
| Dec. 13 | 0 ^h 43 ^m 28 ^s 80 | +6° 56' 37".0 | 0.3237 | 0.1899 | Dec. 19 | 0 ^h 47 ^m 38 ^s 66 | +7° 15' 54".2 | 0.3223 | 0.2067 |
| 15 | 44 45.65 | 7 2 21.2 | 3233 | 1955 | 21 | 49 14.43 | 7 23 40.1 | 3218 | 2122 |
| 17 | 0 46 9.00 | +7 8 47.3 | 0.3228 | 0.2011 | 23 | 0 50 56.07 | +7 32 2.7 | 0.3213 | 0.2178 |

Mt. Hamilton, 1898 Nov. 30.

E. F. Coddington.

Zusatz des Herausgebers. Da die Ephemeride zu spät hier eintraf, als dass sie noch vor dem Mondschein in die Hände der Beobachter hätte gelangen können, wurde der für Dec. 16.5 interpolirte Ort mit Hinzufügung der täglichen Bewegung den Theilnehmern der Centralstelle telegraphisch mitgetheilt. Da möglicher Weise auch noch nach dem Mondschein Beobachtungen am Abendhimmel gelingen können, ist die Ephemeride von Herrn *J. Möller* folgendermaassen bis Jan. 20 fortgesetzt worden.

12^h M. Z. Berlin.

| 1898-99 | α app. | δ app. | $\log r$ | $\log A$ | 1899 | α app. | δ app. | $\log r$ | $\log A$ |
|---------|--|---------------|----------|----------|--------|---|---------------|----------|----------|
| Dec. 23 | 0 ^h 50 ^m 56 ^s | +7° 32' 0 | 0.3213 | 0.2178 | Jan. 6 | 1 ^h 5 ^m 18 ^s | +8° 46' 3 | | |
| 25 | 52 44 | 7 41.1 | | | 8 | 7 41 | 8 59.0 | 0.3175 | 0.2604 |
| 27 | 54 36 | 7 50.6 | 0.3203 | 0.2287 | 10 | 10 8 | 9 12.0 | | |
| 29 | 56 34 | 8 0.7 | | | 12 | 12 40 | 9 25.4 | 0.3166 | 0.2704 |
| 31 | 0 58 38 | 8 11.4 | 0.3194 | 0.2395 | 14 | 15 16 | 9 39.2 | | |
| Jan. 2 | 1 0 47 | 8 22.5 | | | 16 | 17 56 | 9 53.4 | 0.3157 | 0.2803 |
| 4 | 3 0 | 8 34.1 | 0.3184 | 0.2500 | 18 | 20 40 | 10 7.9 | | |
| 6 | 1 5 18 | +8 46.3 | | | 20 | 1 23 28 | +10 22.7 | 0.3148 | 0.2898 |

Kiel 1898 Dec. 16.

Kr.

New Variable Star in Cassiopeia.

At a place whose coordinates for 1855 are

RA. = 23^h 37^m 5

Decl. = +55° 45'

there is a hitherto unnoticed variable star. It is not in the BD. I do not know when I first saw this star, although I rather think that it was about the beginning of 1897. Of this, however, I am sure that when I first saw it, it was only 0^m2 fainter than BD. +55°3007 (AG. Hels. 14315), whose magnitude may be fairly estimated as 9.0. I missed

it on 1897 Sept. 23, although I could then see with ease a 10^m3 star lying about 3' to the north of it. I continued to look for it frequently, but with the same result, till the beginning of this year, when, having come to the conclusion that the missing object was in all probability a nova, I became remiss in the search and examined the place only at rare intervals. Yesterday, however, I took a look at the place and found at last the object of my quest. It outshone its 10^m3 neighbour by as much as it was itself surpassed by BD. +55°3007.

21 East Claremont Street, Edinburgh, 1898 Dec. 6.

Thomas D. Anderson.

Observations of α Orionis.

I have observed Betelgeuze (α Orionis) on several occasions recently as only slightly brighter than Aldebaran. Last season up to their disappearance in twilight Betelgeuze was twice as bright as Aldebaran which is its ordinary state. One of the irregular minima of Betelgeuze may be approaching.

Royal Observatory, Cape of Good Hope, 1898 Nov. 21.

R. T. A. Innes.

Beobachtung von Jupiterflecken.

Nach einer Beobachtung, die Frau *Manora* heute Morgen, Dec. 12 18^h 57^m M. E. Z., angestellt hat, zeigt Jupiter in seinem N. E. B., dessen Breite sich seit dem Sommer verdoppelt hat, unter +15° zwei Granatflecke, deren Entfernung vom Centralmeridian*) nach der Messung je 47°-48° betrug.

Lussinpiccolo 1898 Dec. 13.

L. Brenner.

*) Die Länge des Centralmeridians betrug zur angegebenen Zeit nach System II der Crommelin'schen Ephemeride 112°4. Kr.

Berichtigung zu Nr. 3527 Bd. 147 p. 381-2 Z. 12 v. o. Oct. 27 Bamberg Vgl. lies: 8.8, Red. ad l. app. lies: +0577 +174.

Inhalt zu Nr. 3533. *O. Knopf*. Beobachtungen von Cometen und Planeten. 65. — Verzeichniss von 103 Sternen. 73. — *B. Peter*. Berichtigung. 75. — *J. Kortazzi*. Observations de comètes. 77. — *E. F. Coddington*. Elements and Ephemeris of Planet 1898 EC. 77. — Zusatz hierzu. 79. — *Th. D. Anderson*. New Variable Star in Cassiopeia. 79. — *R. T. A. Innes*. Observations of α Orionis. 79. — *L. Brenner*. Beobachtung von Jupiterflecken. 79. — Berichtigung. 79.