

and 1910 September 1 showed no signs of change in brightness.

This series of plates was measured by Miss *M. M. Hopkins* of Smith College. At first she included the suspicious star among the comparison stars, but it appeared to have a large proper motion and was therefore rejected. I have recently measured four plates extending over 2.4 years, and find for the proper motion of the star

$$\mu_{\alpha} = +0^{\circ}065 \quad \mu_{\delta} = +1^{\circ}00.$$

Its position for 1910.0 is $17^{\text{h}}33^{\text{m}}51^{\text{s}}.22$, $+18^{\circ}36'31''.7$. Although the star is some distance from the center of the plates, there are a number of stars around it suitable for comparison purposes, so a preliminary value of its parallax

Verkes Observatory, 1912 Oct. 31.

has been determined from plates taken 1911 July 29, 1912 April 2, April 7 and August 11. Each plate contains two exposures, and six comparison stars were used. The resulting parallax is

$$\pi = +0^{\circ}108 \pm 0^{\circ}012.$$

The proper motions of BD + 18°3423 and BD + 18°3424 were also determined.

$$\text{For BD } +18^{\circ}3423 \quad \mu_{\alpha} = -0^{\circ}013 \quad \mu_{\delta} = -0^{\circ}153.$$

This agrees well with the two observations given in the AG Berlin A, Nr. 6365, page 129.

For BD + 18°3424 $\mu_{\alpha} = +0^{\circ}004$ $\mu_{\delta} = -0^{\circ}075$ which is much smaller than the proper motion given in the AG Berlin A, Nr. 6369, page 220.

Frederick Slocum.

Beobachtungen von Sternbedeckungen durch den Mond

angestellt am Refraktor der Sternwarte Utrecht (Öffnung = 26 cm, $f = 319$ cm, Vergr. = 94).

| Stern | Phase | 1912 | M. Z. Utrecht | Stern | Phase | 1912 | M. Z. Utrecht |
|-------------------------|-------|----------|---|------------------|-------|----------|---|
| BD + 16°335 | ED | Jan. 27 | 8 ^h 30 ^m 48 ^s .8 | BD + 27°1304 | ED | April 22 | 10 ^h 5 ^m 38 ^s .2 |
| BD + 27°1290 | ED | April 22 | 9 1 3.5 | BD + 27°1306 | ED | 22 | 10 26 28.9 |
| BD + 27°1293 | ED | 22 | 9 14 12.5 | BD + 27°1307 | ED | 22 | 10 32 12.5 |
| » Comes | ED | 22 | 9 15 1.0 | BD + 25°1851 | ED | 23 | 10 55 31.7 |
| BD + 27°1295 | ED | 22 | 9 17 8.8 | BD + 25°1853 | ED | 23 | 11 5 25.6 |
| BD + 27°1297 | ED | 22 | 9 25 37.0 | BD + 21°1967 | ED | 24 | 10 7 56.8 |
| BD + 27°1296 | ED | 22 | 9 27 21.5 | BD + 21°1968 | ED | 24 | 10 9 59.6 |
| BD + 27°1299 | ED | 22 | 9 28 50.1 | BD + 21°1973 | ED | 24 | 11 2 18.1 |
| BD + 27°1300 | ED | 22 | 9 32 44.7 | BD + 21°1974 | ED | 24 | 11 7 42.3 |
| Anonyma 10 ^m | ED | 22 | 9 40 45.8 | BD + 16°2063 | ED | 25 | 10 11 20.8 |
| BD + 27°1302 | ED | 22 | 9 57 26.6 | BD + 16°2067 | ED | 25 | 10 24 49.6 |
| BD + 27°1303 | ED | 22 | 10 4 36.3 | α Scorpii | AH | Mai 30 | 10 28 54.1 |

Die am 22. April beobachtete Anonyma 10^m hat ungefähr die Deklination von BD + 27°1300.

Utrecht, 1912 Okt. 31.

J. van der Bilt.

Beobachtungen von Sternschnuppen.

Beobachtungsort Neuschloß ($\lambda = 1^{\text{h}}15^{\text{m}}51^{\text{s}}$ östl. v. Greenw., $\varphi = +46^{\circ}55'9''$).

| Datum | m. Z. | Anfang | Ende | Gr. | Bemerk. | 1912 | m. Z. | Anfang | Ende | Gr. | Bemerk. |
|----------|---|---------------|--------------------------|------|----------|---------|--|------------|------------|------|---------|
| 1911 | | | | | | Dez. 13 | 8 ^h 25 ^m 44 ^s | 300° + 43° | 301° + 40° | < 2l | s, w |
| Sept. 29 | 10 ^h 41 ^m 51 ^s | 212° + 65° | η Urs. maj. | > ♀ | S, m, w | 13 | 8 27 29 | 335 + 46 | 319 + 29 | 2l | S, s, w |
| 29 | 10 43 0 | 245 + 65 | ϵ Bootis | < 2l | S, s, w | 13 | 8 36 24 | 240 + 82 | 285 + 67 | < 2l | S, s, w |
| 29 | 10 45 0 | 278 + 39 | β, γ Bootis | 2l | S, m, w | 13 | 8 39 19 | 280 + 44 | 283 + 34 | < 2l | S, s, w |
| Okt. 13 | 7 57 6 | 343 + 30 | 341° + 12° | < 2l | m, w | 13 | 9 21 14 | 276 + 44 | 280 + 40 | < 2l | S, s, w |
| 14 | 8 12 0 | 220 + 72 | δ Herc. | < 2l | m, w | 13 | 9 22 55 | 304 + 50 | 305 + 48 | < 2l | s, w |
| 15 | 6 33 6 | 355 + 48 | β Androm. | < ♀ | m, w | 13 | 9 41 18 | 223 + 76 | 288 + 67 | ♀ | S, s, w |
| Nov. 20 | 9 44 50 | β Cygni | 320 + 60 | > ♀ | S, l, w | 13 | 10 0 37 | 142 + 65 | 220 + 87 | < 2l | S, s, b |
| Dez. 23 | 8 12 0 | 22 + 14 | 15 + 8 | < 2l | m, w | 13 | 10 9 13 | 163 + 63 | 201 + 62 | 2l | S, s, w |
| 23 | 8 15 0 | 3 + 4 | ϑ Pisc. austr. | ♀ | kS, l, w | 13 | 10 25 40 | 257 + 68 | 263 + 63 | < 2l | S, s, b |
| 1912 | | | | | | 13 | 10 37 50 | 238 + 67 | 244 + 64 | < 2l | s, w |
| Nov. 15 | 8 9 50 | 37 + 79 | 256 + 70 | > ♀ | S, s, w | 13 | 10 39 32 | 203 + 55 | 227 + 46 | < ♀ | S, l, r |
| 26 | 5 34 7 | 341 + 35 | 343 + 30 | < 2l | kS, s, w | 13 | 10 43 21 | 164 + 56 | 193 + 38 | 2l | S, l, w |
| 27 | 5 30 11 | 40 + 14 | 38 + 10 | < 2l | S, s, w | 13 | 11 5 43 | 270 + 52 | 282 + 53 | < 2l | s, w |
| Dez. 12 | 8 1 31 | 267 + 66 | 280 + 39 | 2l | S, s, rl | 20 | 5 43 59 | 335 - 31 | 342 - 39 | ♀ | S, l, w |

Der Name eines Sternes in der 3. oder 4. Kolumne gibt die Bewegungsrichtung an.

Unter »Bemerkungen« bedeutet: S = Schweif, kS = kurzer Schweif, s schnelle, m mittlere, l langsame Geschwindigkeit, w = weiß, b = blau, r = rot, rl = rötlich. Dez. 20. Dauer 3^s, Schweif gebogen.

Neuschloß, 1913 Jan. 3.

Josef Sedláček.