

Auszug aus einem Briefe von Herrn M. A. Veeder, Lyons, N. Y., betr. communicirende Nordlicht-Beobachtungen.

I am in receipt of a letter from Mr. Peary, forwarded by the ship *Falcon* which states that he has reached his proposed permanent station in North Greenland in safety, and that he has provided for observations of the aurora at Godthaab and Godthavn also. Five thousand forms for recording such observations have already been distributed in all parts of the earth where the aurora is likely to be seen. The returns being received indicate that it will be possible to map out the distribution of the aurora in individual instances to a very large extent, and to determine

also the instants at which brightenings of displays occurred simultaneously over wide areas. The value of such information for comparison with the magnetic record, and the record of earth currents is very evident. There are indications also that very suggestive comparisons with the behaviour of thunderstorms in respect to localisation and fluctuations in intensity will grow out of this system of observation of the aurora. It will certainly afford a basis also for a study of the relation to special solar conditions which may be presumed to originate the aurora.

Lyons, N. Y., 1893 Sept. 22.

M. A. Veeder.

Éphéméride de la Planète (304) Olga.*)

1893	α app.	δ app.	1894	α app.	δ app.
Dec. 22	6 ^h 28 ^m 13 ^s	+0° 52' 7"	Jan. 3	6 ^h 15 ^m 59 ^s	+1° 40' 6"
26	6 24 7	+1 5.3	7	6 12 10	+2 2.8
30	6 19 59	+1 21.3			

L'opposition a eu lieu le 25 Déc. Gr. = 13^m.

Besançon 28 Déc. 1893.

Paul Brück.

*) Der Verfasser ist durch andauernde Unpässlichkeit verhindert gewesen, obige Berechnung zeitiger einzusenden.

Elemente und Ephemeride des Cometen 1893... (Brooks Oct. 16).

Aus vier Beobachtungen, Hamburg Oct. 17, Strassburg Nov. 6, Hamburg Dec. 2 und Hamburg Dec. 9 habe ich mittelst Variation von M folgende Elemente abgeleitet, die die Beobachtungen ziemlich gut darstellen.

$$\begin{aligned} T &= 1893 \text{ Sept. } 19.3578 \text{ M. Z. Berlin} \\ \omega &= 347^\circ 43' 57''.4 \\ \Omega &= 174 56 10.8 \\ i &= 129 48 51.3 \\ \log q &= 9.911158 \end{aligned} \quad \text{M. Aequ. 1893.0}$$

Aequatorealcoordinaten 1894.0.

$$\begin{aligned} x &= [9.99900] r. \sin(v + 260^\circ 58' 3'') \\ y &= [9.46366] r. \sin(v + 3 51.1) \\ z &= [9.98189] r. \sin(v + 349 49.6) \end{aligned}$$

Ephemeride für 12^h M. Z. Berlin.

1893-94	α app.	δ app.	$\log r$	$\log \Delta$	H	1894	α app.	δ app.	$\log r$	$\log \Delta$	H
Dec. 26	18 ^h 22 ^m 23 ^s	+75° 15' 9"	0.2707	0.1597	0.38	Jan. 7	21 ^h 29 ^m 22 ^s	+73° 6' 7"	0.3063	0.2147	0.25
27	40 33	75 26.1				8	40 11	72 40.1			
28	18 58 43	75 31.4	0.2769	0.1678	0.36	9	50 18	72 12.6	0.3119	0.2249	0.24
29	19 16 42	75 32.3				10	21 59 46	71 44.3			
30	34 18	75 29.1	0.2829	0.1765	0.34	11	22 8 36	71 15.4	0.3175	0.2352	0.22
31	19 51 21	75 21.6				12	16 52	70 46.3			
Jan. 1	20 7 45	75 10.3	0.2889	0.1855	0.31	13	24 37	70 17.1	0.3230	0.2456	0.20
2	23 25	74 55.8				14	31 55	69 47.8			
3	38 16	74 38.4	0.2948	0.1950	0.29	15	38 46	69 18.5	0.3283	0.2560	0.19
4	20 52 16	74 18.4				16	45 13	68 49.5			
5	21 5 27	73 56.2	0.3006	0.2046	0.27	17	51 18	68 20.7	0.3336	0.2665	0.18
6	17 49	73 32.2				18	22 57 3	67 52.2			
7	21 29 22	+73 6.7	0.3063	0.2147	0.25	19	23 2 31	+67 24.0	0.3389	0.2770	0.16

H zur Zeit der Entdeckung = 1.

Kiel 1893 Dec. 17.

A. Krueger.