

## Halley's Comet 1909 c.

The following positions were obtained from photographs taken with the 30-inch Reflector at the Royal Observatory Greenwich. They are referred to the Equator and Equinox of 1909.0 and are corrected for the part of the aberration arising from the Earth's motion. They are not corrected for parallax or for the part of the aberration arising from the Comet's motion.

The photographs on Sept. 9 were reduced with four reference stars, the subsequent photographs with six stars, the positions being derived from the *Astronomische Gesellschaft Catalogue*.

A photograph has since been obtained on Oct. 21 and two on Oct. 25.

1909	Greenw. M. T.	$\alpha$ 1909.0	$\log p \cdot A$	$\delta$ 1909.0	$\log p \cdot A$	Corr. for Earth's Aberr.		
						$\alpha$	$\delta$	
Sept.	9	15 <sup>h</sup> 9 <sup>m</sup> 34 <sup>s</sup>	6 <sup>h</sup> 17 <sup>m</sup> 52 <sup>s</sup> .45	9.514 <sub>n</sub>	+17° 12' 2".2	0.756	-0 <sup>s</sup> .43	-5".3
	9	15 45 29	6 17 52.71	9.465 <sub>n</sub>	+17 12 1.6	0.740	-0.43	-5.3
	19	15 23 16	6 19 4.37	9.437 <sub>n</sub>	+17 8 10.5	0.734	-0.20	-5.5
	23	14 52 41	6 19 1.31	9.463 <sub>n</sub>	+17 6 34.5	0.740	-0.10	-5.5
	23	15 54 16	6 19 1.10	9.329 <sub>n</sub>	+17 6 34.0	0.717	-0.10	-5.5
Oct.	6	13 18 57	6 16 10.63	9.517 <sub>n</sub>	+17 1 33.6	0.758	+0.24	-5.4
	6	13 44 0	6 16 10.25	9.485 <sub>n</sub>	+17 1 33.2	0.747	+0.24	-5.4
	8	13 18 30	6 15 17.97	9.507 <sub>n</sub>	+17 0 50.1	0.755	+0.29	-5.4
	8	13 53 24	6 15 17.28	9.457 <sub>n</sub>	+17 0 49.1	0.739	+0.29	-5.4
	19	12 42 24	6 7 46.01	9.488 <sub>n</sub>	+16 57 14.4	0.749	+0.58	-5.0

Royal Observatory, Greenwich, 1909 Nov. 3.

*W. H. M. Christie.*

## New variable 43.1909 Draconis.

In my recent observations of SX (17.1909) Draconis (BD +58°1782), I have used BD +58°1785 as a comparison star. I find this star also variable. Its BD magnitude is 9<sup>m</sup>.3. On Aug. 14 it was 10<sup>m</sup>.5; on Aug. 19 as faint or fainter. Various later observations place it at about its normal bright-

ness, 9<sup>m</sup>.3-9<sup>m</sup>.5. But on Oct. 20 it was again as faint as 10<sup>m</sup>.5; on Oct. 22 about 9<sup>m</sup>.7. It may be of the Algol type<sup>1)</sup>. Thus far my comparisons of SX Draconis would imply that this star is of the Algol type, as no marked decrease in brightness has been observed.

Vassar College Observatory, Poughkeepsie, N. Y., 1909 Oct. 23.

*Mary W. Whitney.*

<sup>1)</sup> Die Position ist nach AG Hels 9625: 18<sup>h</sup> 2<sup>m</sup> 22<sup>s</sup>.99 +58° 23' 8".0 (1855.0), 18<sup>h</sup> 3<sup>m</sup> 3<sup>s</sup>.50 +58° 23' 18".7 (1900.0). Die Schätzungen von Fabritius bei den Zonen-Beobachtungen in Helsingfors sind: 1871 Juli 9 9<sup>m</sup>.4 und 1871 Juli 12 9<sup>m</sup>.3. Zwei Bonner Meridianschätzungen Argelanders lauten: 1842 Juni 10 9<sup>m</sup> (AO 17873) und 1860 Juli 11 9<sup>m</sup>.2 (Bo VI). *Kb.*

## Nouveaux canaux sur Mars.

Voici une suite de la liste (A. N. 4367) de canaux probablement nouveaux:

Nr.	Direction	Nom proposé	20	De Hibe Lacus	à Ceraunius
17	De Cyclopus Lacus à Hephaestus	Cepheus	21	» Ammonium Lacus	» Æsacus
18	» » » » Amenthes	Cassiopeia	22	» Fastig. Aryn (droite)	» Ismenius Lacus
19	» Lucus Maricae » Lacus Propontis		23	» » » (gauche)	» Niliacus Lacus.

Le canal Nr. 20 me fut signalé par M. T. Cox, assistant à l'observatoire.

Observatoire d'Hem, 1909 Nov. 10.

*Robert Fonckheere.*

**Mars** (Telegramm aus Flagstaff, Ariz., von 1909 Nov. 17). First apparent antarctic snowfall of season on Mars, two patches latitude 65°, longitude 100° and 190°. *Lowell.*

**Perrinescher Komet 1909 b** (Telegramm von 1909 Nov. 21). Nov. 20 13<sup>h</sup> 0<sup>m</sup> 2<sup>s</sup> Kgst.  $\alpha$  (1909.0) = 7<sup>h</sup> 6<sup>m</sup> 20<sup>s</sup>.33  $\delta$  (1909.0) = +15° 31' 28" Gr. 14<sup>m</sup>.0. *M. Wolf.*

Inhalt zu Nr. 4370-71. *N. E. Nörlund.* Untersuchung der persönlichen Gleichung und der Helligkeitsgleichung bei Beobachtungen mit dem Repsoldschen selbstregistrierenden Mikrometer. 17. — *R. E. Wilson.* Corrected elements of planet 1907 XZ = (469) Argentina. 43. — Personalnotizen. 43. — *F. Hoffner.* Die Erscheinung des periodischen Kometen 1890 VII (Spitaler) im Jahre 1903. 45. — *W. H. M. Christie.* Halley's Comet 1909 c. 47. — *M. W. Whitney.* New variable 43.1909 Draconis. 47. — *R. Fonckheere.* Nouveaux canaux sur Mars. 47. — Kleine Mitteilungen. 47.