Beobachtung des Cometen 1889... (Barnard 1888 Sept. 2)

angestellt auf der Sternwarte in Karlsruhe.

1888	M.Z. Karlsr.	$\Delta\alpha$	$\Delta\delta$	Vgl.	α app.	$\log p.A$	δ app.	$\log p.A$	Red. ad l. app.	*
Nov. 27	7 ^h 42 ^m 52 ^s	+0 ^m 7 ^s .73	—	20	2 ^h 42 ^m 57 ^s .02	9.380 _n	—	—	+2 ^s .22 +8 ^s .5	1
27	7 44 6	+0 9.30	—	10	2 42 57.29	9.380 _n	—	—	+2.22 +8.5	2
27	8 5 48	—	— 2' 16".4	7	—	—	— 5° 25' 22".6	0.850	+2.22 +8.5	1

Mittlere Oerter der Vergleichsterne für 1888.o.

*	α 1888.o	δ 1888.o	Autorität
1	2 ^h 42 ^m 47 ^s .07	— 5° 23' 14".7	Sj. 785
2	2 42 45.77	—	W ₁ 2 ^h 707

Karlsruhe 1888 Nov. 29.

Dr. B. Matthiessen.

Discovery and Observations of Comet 1888 V (Barnard Oct. 30)

by E. E. Barnard, Astronomer of the Lick Observatory.

(Communicated by the Director Prof. Edward S. Holden.)

On the morning of Oct. 31st after closing observations with the twelve inch. equatorial, I began comet seeking with the four inch. broken-tube comet seeker. A faint and suspicious object being swept up, it was examined with the twelve inch. and was at once seen to be a comet; the head was moderately well developed, with an ill defined nucleus, and a short faint tail preceding. I estimated the comet to be between the eleventh and twelfth magnitudes. The

observations clearly showed motion towards the north-east. A telegram was at once sent out announcing the discovery, and giving the daily motions as +1^m32^s and +9'. These values, derived from the observations during the short time the comet was seen, proved to be very close to the true values.

Following are the observations so far obtained of the comet. These are corrected for differential refraction.

Filar micrometer observations of comet 1888 V made with the 12 inch. Equatorial by E. E. Barnard.

1888	Lick M.T.	$\Delta\alpha$	$\Delta\delta$	Cp.	α app.	$\log p.A$	δ app.	$\log p.A$	Red. ad l. app.	*
Oct. 30	16 ^h 50 ^m 55 ^s	— 2 ^m 17 ^s .59	+ 2' 38".6	12.7	9 ^h 43 ^m 22 ^s .03	9.417 _n	— 15° 18' 43".2	0.827	+1 ^s .11 +0 ^s .8	1
31	16 33 59	— 0 45.16	+ 11 37.3	6.8	9 44 54.49	9.453 _n	— 15 9 45.1	0.821	+1.14 +0.7	1
Nov. 1	16 33 8	+ 1 30.56	— 9 42.5	10.7	9 46 26.01	9.450 _n	— 15 0 27.6	0.822	+1.16 +0.5	2
1	16 33 8	+ 0 13.53	— 8 50.6	10.8	9 46 25.65	9.450 _n	— 15 0 27.5	0.822	+1.16 +0.5	3
2	16 13 31	+ 1 42.68	+ 0 24.3	6.8	9 47 54.80	9.504 _n	— 14 51 12.8	0.816	+1.16 +0.3	3
3	17 1 48	+ 3 14.65	+ 10 19.1	5.6	9 49 26.83	9.352 _n	— 14 41 18.1	0.828	+1.22 +0.2	3
4	16 58 30	+ 0 30.74	— 4 58.6	4.6	9 50 54.27	9.360 _n	— 14 31 26.5	0.826	+1.23 — 0.1	4
5	16 49 57	+ 0 32.14	+ 0 12.3	4.3	9 52 19.64	9.380 _n	— 14 21 26.4	0.823	+1.26 — 0.7	5
6	17 5 49	— 0 35.21	— 9 12.2	5.6	9 53 44.67	9.310 _n	— 14 11 17.2	0.826	+1.29 — 0.6	6
7	16 9 2	+ 0 44.60	+ 0 40.8	8.7	9 55 45.1	9.479 _n	— 14 1 23.7	0.814	+1.32 — 0.7	6
8	15 13 35	— 0 11.12	0 0.0	8.1	9 56 22.96	9.579 _n	— 13 51 15.9	0.796	+1.35 — 1.0	7
10	15 59 39	— 0 7.32	— 0 17.1	14.6	—	9.480 _n	—	0.812	+1.41 — 1.3	8
11	17 3 51	— 2 8.30	0 0.0	8.6	10 0 24.44	9.299 _n	— 13 17 33.2	0.822	+1.41 — 1.6	9

Mean Places of the Comparison Stars for 1888.o.

*	α 1888.o	δ 1888.o	Authority	*	α 1888.o	δ 1888.o	Authority
1	9 ^h 45 ^m 38 ^s .51	— 15° 21' 23".1	1/2 (W ₁ 9 ^h 958 + Sant. 999)	6	9 ^h 54 ^m 18 ^s .59	— 14° 2' 4".4	Cp. with 1/2 (W ₁ 9 ^h 1178 + Lam ₃ 630)
2	9 44 54.29	— 14 50 45.6	1/2 (W ₁ 9 ^h 947 + Sant. 998)	7	9 56 32.73	— 13 51 14.9	1/2 (W ₁ 9 ^h 1178 + Lam ₃ 630)
3	9 46 10.96	— 14 51 37.4	1/2 (W ₁ 9 ^h 967 + Sant. 1001)	8	9 59 4	— 13 29	SD. — 13° 30' 24"
4	9 50 22.30	— 14 26 27.8	Cp. with Cord. GC. 13425	9	10 2 31.33	— 13 17 31.6	Sant. 1025
5	9 51 46.24	— 14 21 38.0	Cp. with Cord. GC. 13425				

Lick Observatory 1888 Nov. 13.

E. E. Barnard.