OBSERVATIONS OF COMET *a* 1910.

The first three observations were made with the 12-inch telescope, the last one with the 36-inch, $\Delta\alpha$ being measured directly with the micrometer on all four nights. On the last date the comet was still as bright as a star of 12 or 12½ magnitude, with feeble condensation and indefinite boundary. It was looked for again on the 7th of May but was not seen.

1910	Mt.H.M.T.	Star	No. of Comp.	Comet-Star		Comet's Apparent		Log <i>p</i> Δ	
				α	δ	α	δ	α	δ
March 10	17 ^h 01 ^m 32 ^s	1	8, 10	— 8.51	+3' 20".4	22 ^h 23 ^m 16 ^s .90	+15° 13' 53".0	n9.685	0.715
	12 16 56 50	3	6, 8	+ 9.58	—2 04.8	22 24 43.41	+15 38 40.9	n9.685	0.713
Apr. 12	15 53 11	4	8, 8	—22.15	+4 21.4	22 39 39.53	+21 38 22.6	n9.695	0.655
	16 15 37 37	6	6, 8	—21.24	+2 23.9	22 40 32.28	+22 23 00.7	n9.697	0.651

MEAN PLACES OF COMPARISON STARS FOR 1910.0.

Star	α	Red. to App. Place	δ	Red. to App. Place	Authority
1	22 ^h 23 ^m 27 ^s .04	—1.63	+15° 10' 45".3	—12".7	Bonn 1900, No. 9954.
2	22 24 09.09	—1.62	+15 39 26.6	—13.0	A.G. Berlin A 9191.
3	22 24 35.18	—1.62	+15 41 01.9	—13.0	Micrometer comparison with (2).
4	22 40 02.87	—1.19	+21 34 15.4	—14.2	Micrometer comparison with (5).
5	22 40 08.30	—1.19	+21 28 45.5	—14.2	A.G. Berlin B 8732.
6	22 40 54.62	—1.10	+22 20 50.9	—14.1	B.D.+22° 4705. Micrometer comparison with (7).
7	22 43 17.27	—1.11	+22 21 33.0	—14.3	A.G. Berlin B 8753.

October, 1910.

R. G. AITKEN.

OBSERVATIONS OF HALLEY'S COMET.

The following observations of Halley's Comet are a continuation of those published in Bulletin No. 170. The December measures were made with the 36-inch equatorial, the subsequent ones with the 12-inch. All measures of $\Delta\alpha$ were made directly with the micrometer, except the one on May 5, when transits were taken.

1909	Mt.H.M.T.	Star	No. of Comp.	Comet-Star		Comet's Apparent		Log <i>p</i> Δ	
				$\Delta\alpha$	$\Delta\delta$	α	δ	α	δ
Dec. 14	10 ^h 12 ^m 00 ^s	1	12, 10	+ 9.18	—4' 22".8	3 ^h 28 ^m 43 ^s .69	+14° 18' 10.3	8.536	0.534
	15 9 53 11	2	12, 10	— 3.11	+2 02.9	3 24 21.53	+14 09 21.9	8.085	0.496
	17 11 38 55	4	12, 10	—12.71	—0 39.7	3 15 13.69	+13 50 21.5	9.409	0.572
	18 10 49 50	6	12, 10	—10.54	+3 18.9	3 11 00.85	+13 41 12.7	9.254	0.559
1910									
Jan. 28	7 52 43	7	8, 6	—30.84	+2 14.3	1 08 27.65	+ 8 32 01.2	9.549	0.658
	29 8 04 11	8	15, 8	— 8.97	—8 07.0	1 06 50.73	+ 8 28 32.6	9.576	0.665
Feb. 11	7 27 25	9	15, 6	—13.35	—4 49.9	0 49 45.51	+ 8 00 06.6	9.614	0.679
	28 7 29 28	10	10, 6	+31.69	—4 25.0	0 34 13.04	+ 7 53 59.2	9.669	0.709
Mar. 11	7 22 02	11	6, 4	— 4.92	—1 49.4	0 25 45.96	+ 7 58 56.8	9.673	0.725
May 5	15 39 36	12	10, 8	—1 ^m 30.96	—4 37.0	0 03 04.70	+ 9 01 56.3	n9.671	0.707
May 15	15 47 40	13	5, 5	+15.15	—1 08.0	1 46 59.82	+15 56 00.6	n9.681	0.726
May 20	7 42 44	14	12, 8	— 4.66	+0 14.6	5 45 42.08	+18 31 52.3	9.692	0.692
July 8	8 47 02	15	15, 8	—43.35	—4 20.9	10 53 40.05	— 3 24 26.3	9.654	0.733
July 11	8 42 22	17	10, 8	+18.32	+3 48.6	10 56 01.23	— 3 39 22.1	9.657	0.733

MEAN PLACES OF COMPARISON STARS FOR 1909.0.

Star	α	Red. to App. Place	δ	Red. to App. Place	Authority
1	3 ^h 28 ^m 31 ^s .21	+3.30	+14° 22' 19".2	+13".9	A.G. Leipzig I 1042.
2	3 24 21.36	+3.28	+14 07 04.9	+14.1	Micrometer comparison with (3).
3	3 24 02.57	+3.28	+14 03 05.3	+14.1	A.G. Leipzig I 1018.
4	3 15 23.17	+3.23	+13 50 46.6	+14.6	A.G. Leipzig I 992.
5	3 11 23.61	+3.20	+13 30 56.2	+14.6	A.G. Leipzig I 976.
6	3 11 08.19	+3.20	+13 37 39.2	+14.6	Micrometer comparison with (5).

MEAN PLACES OF COMPARISON STARS FOR 1910.0.

Star	α	Red. to App. place	δ	Red. to App. Place	Authority
7	1 ^h 08 ^m 59 ^s .59	-1.10	+ 8° 29' 51".8	-4".9	A.G. Leipzig II 431.
8	1 07 00.83	-1.13	+ 8 36 44.6	-5.0	A.G. Leipzig II 421.
9	0 50 00.20	-1.34	+ 8 05 03.0	-6.5	A.G. Leipzig II 308.
10	0 33 42.89	-1.54	+ 7 58 32.1	-7.9	A.G. Leipzig II 197.
11	0 25 52.42	-1.54	+ 8 00 54.8	-8.6	A.G. Leipzig II 150.
12	0 04 36.54	-0.88	+ 9 06 40.6	-7.3	A.G. Leipzig II 16.
13	1 46 45.73	-1.06	+15 57 12.6	-4.0	A.G. Berlin A 531.
14	5 45 47.77	-1.03	+18 31 34.2	+3.5	A.G. Berlin A 1724.
15	10 54 23.34	+0.06	- 3 20 03.1	-2.3	A.G. Strassburg 4185.
16	10 54 59.59	+0.03	- 3 42 34.5	-2.2	A.G. Strassburg 4188.
17	10 55 42.88	+0.03	- 3 43 09.5	-2.2	Micrometer comparison with (16).

July, 1910.

R. G. AITKEN.

OBSERVATIONS OF COMET *b* 1910 (METCALF).

These observations were all made with the 12-inch equatorial.

1910	Mt.H.M.T.	Star	No. of Comp.	Comet-Star		Comet's Apparent		Log $p\Delta$	
				α	δ	α	δ	α	δ
Aug.	10 9 ^h 34 ^m 45 ^s	1	8, 10	+17.08	+5' 25".7	16 ^h 10 ^m 26 ^s .65	+14° 56' 46".3	9.494	0.575
	11 9 19 48	2	8, 10	+ 8.74	+3 34.2	16 08 14.38	+15 04 40.8	9.471	0.567
	12 9 03 02	3	8, 10	- 8.08	+5 30.1	16 06 07.46	+15 12 08.5	9.426	0.547
	14 9 49 01	4	8, 10	+15.54	+0 31.9	16 02 01.30	+15 25 46.1	9.570	0.589
	22 8 08 52	5	8, 10	+ 4.93	-3 39.0	15 48 51.29	+16 08 59.1	9.455	0.550
Sept.	1 8 39 44	6	8, 10	-24.63	+1 09.6	15 37 31.14	+16 44 25.5	9.608	0.601
	23 8 28 58	7	8, 10	- 2.59	-6 14.3	15 26 40.18	+17 33 36.4	9.682	0.667

MEAN PLACES OF COMPARISON STARS FOR 1910.0.

Star	α	Red. to App. Place	δ	Red. to App. Place	Authority
1	16 ^h 10 ^m 8 ^s .15	+1.42	+14° 51' 18".2	+2".4	A.G. Berlin A 5811. Leipzig 5655.
2	16 08 4.22	+1.42	+15 01 04.2	+2.4	By comparison with (10).
3	16 06 14.17	+1.37	+15 06 35.8	+2.6	A.G. Berlin A 5780.
4	16 01 44.44	+1.32	+15 25 11.4	+2.8	By comparison with (8).
5	15 48 45.23	+1.13	+16 12 35.2	+2.9	A.G. Berlin A 5675.
6	15 37 54.85	+0.92	+16 43 13.1	+2.8	B.D. +16° 2819 Paris Phot. Cat.
7	15 26 42.26	+0.51	+17 44 49.1	+1.6	A.G. Berlin A 5564.
8	16 01 27.94	+1.32	+15 30 05.2	+2.8	A.G. Berlin A 5745.
9	16 07 59.56	+1.42	+14 46 50.9	+2.4	A.G. Berlin A 5792.
10	16 08 13.86	+1.42	+14 54 07.5	+2.4	By comparison with (9).

October 21, 1910.

R. K. YOUNG.