OBSERVATIONS OF COMET *d* 1902 (GIACOBINI)

1903.	Mt. Hamilton M.T.	Star	No. of Comparisons	Comet—Star		Comet's Apparent		$\log p \Delta$	
				$\Delta\alpha$	$\Delta\delta$	α	δ	α	δ
March	17	10 ^h 38 ^m 54 ^s	1	8 , 6	—17 ^s 49	—1' 8 ^s 5	6 ^h 44 ^m 31 ^s 19	+26° 23' 23 ^s 7	9.621 0.461
April	27	8 27 45	3	10 , 6	+13.18	+0 30.0	7 29 15.23	+32 45 19.3	9.626 0.303
	30	8 16 51	5	10 , 6	+11.67	—2 50.4	7 33 41.00	+33 2 40.6	9.622 0.285
June	11	8 38 26	7	8 , 6	—14.71	+1 57.0	8 45 41.01	+34 58 27.9	9.747 0.552
	12	8 39 15	9	10 , 6	+18.90	—1 4.0	8 47 33.2±	+34 57.3±	9.746 0.548
	23	8 42 4	10	10 , 6	— 1.73	+1 25.5	9 8 17.26	+34 53 37.3	9.753 0.599
	26	8 43 50	12	10 , 6	+21.64	—3 59.4	9 13 59.60	+34 50 18.1	9.754 0.587

MEAN PLACES FOR 1903.0 OF COMPARISON STARS.

Star	α	Red. to app. place	δ	Red. to app. place	Authority
1	6 ^h 44 ^m 47 ^s 21	+1 ^s 47	+26° 24' 40 ^s 8	— 8 ^s 6	A.G. Cambridge 3532
2	7 28 46.58	+0.89	+32 51 10.8	— 6.5	A.G. Leiden 3192
3	7 29 1.16	+0.89	+32 44 56.0	— 6.5	Micrometer comparison with (2)
4	7 33 20.28	+0.88	+33 9 46.9	— 6.5	A.G. Leiden 3217
5	7 33 28.45	+0.88	+33 5 37.5	— 6.5	Micrometer comparison with (4)
6	8 45 10.64	+0.58	+35 5 17.1	— 6.5	A.G. Lund 4385
7	8 45 55.14	+0.58	+34 56 37.4	— 6.5	Micrometer comparison with (6)
8	8 46 53.1±	+0.59	+34 56.3±	— 6.2	B.D. + 35°1887 9.5 mag.
9*	8 47 13.7±	+0.59	+34 58.5±	— 6.2	Micrometer comparison with (8)
10	9 8 18.44	+0.55	+34 52 17.9	— 6.1	" " " (11)
11	9 8 51.92	+0.55	+34 48 58.7	— 6.1	A.G. Leiden 3801
12	9 13 37.40	+0.56	+34 54 23.7	— 6.2	$\frac{1}{2}$ (A.G. Leiden 3821 + A.G. Lund 4568)

The observations of this comet secured before March 1st, have been published in Bulletins Nos. 28 and 30.

The observation of March 17th was made with the 12-inch telescope; the others, with the 36-inch. $\Delta\alpha$ was measured directly with the micrometer on all

dates. The comet varied but slowly in brightness, being estimated on June 23 as about equal to a 13 $\frac{1}{2}$ magnitude star, with a nucleus of about the 16th magnitude. Its diameter did not greatly exceed 2'.

R. G. AITKEN.

Nov. 25, 1903.

* The comparison of star 9 — star 8 gives $\Delta\alpha = + 20^s56$; $\Delta\delta = + 2' 13''.2$.