FURTHER MEASURES OF COMET *a* 1904 (BROOKS)*

The following measures, obtained with the 12-inch refractor, continue* the series published in Lick Observatory Bulletin Number 56. The $\Delta\alpha$ comparisons were all made directly with the micrometer except

those of June 21, made by transits. The observations of July 8, August 26 and September 4 were made by Dr. R. G. Aitken.

Mt. Hamilton M.T.				Star	No. of Comparisons	Comet—Star		Comet's Apparent				$\log p \Delta$	
						$\Delta\alpha$	$\Delta\delta$	α		δ		α	δ
1904	June	21	10 ^h 23 ^m 13 ^s	1	14 <i>t</i> , 8	—1 ^m 39.93	—9' 38".2	12 ^h 53 ^m 49.80	+55° 02'	14".2		9.810	<i>n</i> 9.667
	July	8	8 41 10	2	8 <i>d</i> , 8	+ 20.85	—2 27.4	12 29 20.24	+51 43	58.8		9.760	<i>n</i> 9.436
		9	11 25 26	3	12 <i>d</i> , 8	— 19.49	—7 19.9	12 28 16.80	+51 31	05.7		9.875	0.544
		13	9 04 01	4	10 <i>d</i> , 8	+ 38.71	—4 00.8	12 25 01.37	+50 46	46.3		9.812	9.880
		19	8 45 10	5	10 <i>d</i> , 8	+ 49.52	+ 48.7	12 21 09.94	+49 41	20.5		9.810	0.023
		25	8 47 54	6	12 <i>d</i> , 8	+ 8.00	—6 12.2	12 18 30.07	+48 39	32.3		9.825	0.250
		31	8 48 17	7	10 <i>d</i> , 8	— 24.26	—1 04.3	12 16 49.65	+47 41	56.3		9.831	0.385
	August	11	9 37 01	9 <i>a</i>	12 <i>d</i> , 8	— 32.21	+4 52.4	12 15 46.78	+46 07	48.2		9.821	0.663
		12	8 15 37	9 <i>b</i>	10 <i>d</i> , 8	— 31.36	—2 26.9	12 15 47.61	+46 00	28.8		8.822	0.464
		26	8 09 43	10	10 <i>d</i> , 6	— 43.40	+5 57.1	12 17 21.94	+44 26	25.0		9.815	0.608
	September 4	7	33 30	11	14 <i>d</i> , 14	— 15.01	+3 22.6	12 19 25.87	+43 40	34.0		9.810	0.606

MEAN PLACES OF COMPARISON STARS FOR 1904.0.

Star	α	Red. to App. place	δ	Red. to App. place	Authority.
1	12 ^h 55 ^m 28.96	+0.77	+55° 11' 42".0	+10".4	A. G. Helsingfors-Gotha 7397. 2 obs.
2	12 28 59.13	+0.26	+51 46 17.2	+ 9.0	A. G. Harvard 4097. 5 obs.
3	12 28 36.07	+0.22	+51 38 16.8	+ 8.8	A. G. Harvard 4095. 5 obs.
4	12 24 22.50	+0.16	+50 50 38.9	+ 8.2	A. G. Harvard 4085. 2 obs.
5	12 20 20.37	+0.05	+49 40 24.4	+ 7.4	½ (A. G. Harvard 4069 + A. G. Bonn 8492).
6	12 18 22.10	—0.03	+48 45 38.0	+ 6.5	A. G. Bonn 8476. 3 obs.
7	12 17 14.00	—0.09	+47 42 55.0	+ 5.6	A. G. Bonn 8469. 2 obs.
8	12 17 01.53	—0.17	+45 59 48.1	+ 3.8	A. G. Bonn 8466. 2 obs.
9 <i>a</i>	12 16 19.16	—0.17	+46 02 52.1	+ 3.7	½ (A. G. Bonn 8460 + position by micrometer
9 <i>b</i>	12 16 19.16	—0.19	+46 02 52.1	+ 3.6	connection† with (8)).
10	12 18 05.60	—0.26	+44 20 26.8	+ 1.1	A. G. Bonn 8475. 2 obs.
11	12 19 41.18	—0.30	+43 37 12.4	— 1.0	A. G. Bonn 8488. 4 obs.

J. D. MADDRILL.

January 17, 1905.

*The comet is still visible in the 12-inch telescope. An observation secured on January 26th shows that Nijland's ephemeris (Ephemeriden-Zirkular der Astron. Nach., 1904, Nr. 115) is very nearly exact.—R. G. AITKEN.

†Star 9-star 8: $\Delta\alpha$ —42.34; $\Delta\delta$ +3' 03".7.