

CHICAGO, *July 3d*, 1858.—At Station No. 2.—(Continued.)

NAMES OF STARS.	Observed true altitudes of Star affected by corrections for refraction and errors of Sextant.	True Sidereal time of observation deduced.	Time of observation noted by Sidereal Chronometer, No. 2,557.	Chronometer No. 2,557, fast of Sidereal time by each observation
	° ' "	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>
Alpha Bootis, (Arcturus) West .....	53 34 26.9	16 27 00.93	17 27 38.5	1 00 37.57
	53 20 19.2	16 28 25.56	17 29 03	1 00 37.44
	52 58 18.6	16 30 36.85	17 31 14.3	1 00 37.45
	52 45 25.7	16 31 53.37	17 32 30	1 00 36.63
	52 23 42.7	16 34 01.92	17 34 38.4	1 00 36.48
	52 04 44.6	16 35 53.72	17 36 30.9	1 00 37.18
	51 52 31.8	16 37 05.47	17 37 42.8	1 00 37.33
	51 35 26.3	16 38 45.6	17 39 22.9	1 00 37.3
	51 19 23.4	16 40 19.33	17 40 56.5	1 00 37.17
	51 05 30.5	16 41 40.17	17 42 16.3	1 00 36.13
	50 42 54.9	16 43 51.33	17 44 29	1 00 37.67
	50 23 19.3	16 45 44.66	17 46 22	1 00 37.34
	49 57 38.6	16 48 12.64	17 48 49	1 00 36.36
	49 43 40.9	16 49 23.78	17 50 10	1 00 36.22

Mean result of 14 observations on Alpha Bootis, West, (at 16*h.* 38*m.*)..... *h. m. s.* +1 00 37.03

Mean result of 18 observations on two East Stars, (at 16*h.* 42*m.*) as above..... +1 00 37.17

CHRONOMETER ERROR.—Fast of Sidereal time by a mean of these results from East and West Stars, (at 16*h.* 40*m.*).... +1 00 37.1

*By Comparison*:—Chronometer, No. 141, slow of mean Solar time for this Station, (at 9*h.* 53*m.* Mean time)..... -0 04 50.53