

CHICAGO, Sept. 7th, 1858.—At Station No. 3.—(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 LYRÆ, (Vega)	52 55 23.7	21 48 30.48	22 55 36.6	1 07 06.12
also West	52 19 17.9	21 51 48.79	22 58 55.8	1 07 07.01
	51 52 12.2	21 54 17.84	23 01 24	1 07 06.16
	51 25 26.4	21 56 45.23	23 03 51.7	1 07 06.43
	50 48 30.4	22 00 08.87	23 07 15.5	1 07 06.63
	50 28 19.3	22 02 00.28	23 09 06	1 07 05.72
	50 04 34.2	22 04 11.59	23 11 18.2	1 07 06.61
	49 53 18.9	22 05 13.85	23 12 20.5	1 07 06.65
	43 29 50	22 40 55.67	23 48 02.2	1 07 06.51
	43 11 54.5	22 42 36.89	23 49 43.2	1 07 06.31
	42 53 21.3	22 44 21.77	23 51 28.5	1 07 06.73
	42 33 03.2	22 46 16.67	23 53 23.7	1 07 07.03
	42 13 04.9	22 48 09.84	23 55 15.8	1 07 05.96
	41 51 46.7	22 50 10.73	23 57 17.5	1 07 06.77
	41 24 43.1	22 52 44.51	23 59 41.5	1 07 06.99

Mean result of 15 observations on Alpha LYRÆ, West, (at 22h. 21m.) +1 07 06.51

Mean result of 8 observations on the Star Alpha AQUILÆ, also West, (at 22h. 23m.) as above..... +1 07 06.77

Mean result of 23 observations on the two West Stars, giving the result from each Star, an equal weight, (at 22h. 22m.).. +1 07 06.53

Mean result of 9 observations on Alpha ANDROMEDÆ, East, (at 20h. 24m.) as above..... +0 07 06.77

CHRONOMETER ERROR.—Fast of Sidereal time, by a mean of these results, from East and West Stars, (at 21h. 23m.).. +1 07 06.64

By Comparison:—Chronometer, No. 141, slow of mean Solar time for this Station, (at 10h. 15m. Mean time) -0 04 28.36