

*Determination of the Difference of Longitude between CHICAGO and MILWAUKEE, by Electric Signals for comparisons of Time.—June 23d, 1858.*

N. B.—Sidereal Chronometer No. 2,557 fast of Milwaukee Sidereal time, (at 17h. 39m. Sidereal time,) 1h. 00m. 43.46s. Rate per Sidereal day, +6.14s., or per Sidereal hour +0.256s.  
 Mean Solar Chronometer No. 141 slow of Chicago mean Solar time, (at 11h. 32m. mean time,) 4m. 57.51. Rate per mean Solar day, +0.76s., or per mean Solar hour, +0.0317.

**1st.—Milwaukee Signals recorded at both Stations.**

Milwaukee by Sidereal Chronometer No. 2,557.	Chromometer No. 2,557, fast of Milwaukee Side-real time.	Times of Milwaukee signals as noted at Chicago by mean Solar Chronometer No. 141.	Chromometer No. 141 slow of Chicago mean Solar time.	Chicago correct mean Solar time of Milwaukee signals.	Chicago correct Sidereal time of Milwaukee signals.	Milwaukee correct Sidereal time of Milwaukee signals.	Difference of Longitude by each signal, Meridian of Chicago Station No. 2.
<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>	<i>h. m. s.</i>
18 40 00	1 00 43.46	11 27 07.5	4 57.51	11 32 05.01	17 40 23.35	17 39 16.54	0 01 06.81
18 43 00	1 00 43.47	11 30 07	4 57.51	11 35 04.51	17 43 23.34	17 42 16.53	0 01 06.81

1st Mean.—Electric Signals transmitted from Milwaukee to Chicago..... 0 01 06.81