

Determination of the Difference of Longitude between CHICAGO and MILWAUKEE, by Electric Signals for Comparisons of Time, July 1st, 1858.

N. B.—Sidereal Chronometer, No. 2,557, fast of Milwaukee Sidereal time, (at 17h. 18m. 48s. Sidereal time) 1h. 01m. 32.47s. Rate per Sidereal day, +5.66s. or per Sidereal hour, +0.236s.

Mean Solar Chronometer, No. 141, slow of Chicago mean Solar time, (at 10h. 40m. 12s. mean time) 4m. 52.27s. Rate per mean Solar day, +0.90s., or per Solar hour, +0.0375s.

1st.—Chicago Signals recorded at both Stations.

Times of Signals given at Chicago by Mean Solar Chronometer, No. 141.	Mean Solar Chronometer No. 141, slow of Chicago mean Solar time.	Correct Chicago mean Solar time of Chicago signals.	Times of Chicago Signals as noted at Milwaukee, by Sidereal Chronometer, No. 2,557.	Chronometer, No. 2,557 fast of Milwaukee Sidereal time.	Milwaukee correct Sidereal time of Chicago signals.	Chicago correct Sidereal time of Chicago signals.	Difference of Longitude by each signal—Milwaukee, West of the meridian of Chicago Station, No. 3.
<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>	<i>h. m. s.</i>	<i>h. m. s.</i>
10 35 20	4 52.27	10 40 12.27	18 20 20.5	1 01 32.47	17 18 48.03	17 19 54.56	0 01 06.53
10 38 20	4 52.27	10 43 12.27	18 23 21	1 01 32.48	17 21 48.52	17 22 55.05	0 01 06.53
10 41 40	4 52.27	10 46 32.27	18 26 41.5	1 01 32.49	17 25 09.01	17 26 05.60	0 01 06.59
10 44 10	4 52.27	10 49 02.27	18 29 12	1 01 32.50	17 27 39.50	17 28 46.01	0 01 06.51

1st Mean.—Electric Signals transmitted from Chicago to Milwaukee 0 01 06.54