

	<i>h. m. s.</i>
Brought forward.....	+0 07 02.37
Reduction to the dome of the State Capitol .....	— 0.23
<hr/>	
Dome of the State Capitol at Madison, West, in longitude, of Chicago observing Station No. 3.....	+0 07 02.14
Longitude of Chicago observing Station No. 3.....	+5 50 31.20
	<hr/>

*1st Determination.*

Longitude of the dome of the State Capitol at Madison ....	+5 57 33.34
	<hr/> <hr/>

We also observed for the time at Madison about midnight of June 5th, 1859, and afterwards exchanged signals, by the electric telegraph, with Chicago, which gave us a second comparison, during this visit, of the meridian of Madison with that of Chicago, for the Longitude of Madison, as follows, viz:

**Observations for the Time.**

AT MADISON, 1859, *June 5th.*—Same Station.

Sidereal Chronometer No. 2,557, fast:

By 7 observations on Alpha CANUM VENATICORUM, West, (at 16h. 38m.) .....	<i>h. m. s.</i> +1 45 46.99
By 7 observations on Alph CYGNI, East, (at 16h. 56m.) .....	+1 45 47.48
	<hr/>

<i>Result:</i> —Chronometer No. 2,557, fast of Sidereal time for this Station, (at 16h. 47m.).....	+1 45 47.23
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The above result for the Madison time and the results of the Chicago time-observations of June 3d and 6th, already mentioned, combined with the following telegraphic signals, which were exchanged after midnight of June 5th, give us a second determination of the Longitude of our Madison station No. 2, as follows, viz: