

1858, July 1st.—At Milwaukee Station, No. 2.

## Observations for the Time

| 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 |
|---|---|--|---|---|
| Alpha BOOTIS (Arcturus), West .....   | ° ' "   | <i>h. m. s.</i>                            | <i>h. m. s.</i>   | <i>h. m. s.</i>   |
|   | 30 45 38.2  | 18 33 26.30                                | 19 34 58.9  | 1 01 32.60  |
|   | 30 21 31.7  | 18 35 38.24                                | 19 37 11.6  | 1 01 33.36  |
|   | 30 10 00.9  | 18 36 41.26                                | 19 38 14.5  | 1 01 33.24  |
|   | 29 56 10  | 18 37 57.07                                | 19 39 30  | 1 01 32.93  |
|   | 29 38 48.8  | 18 39 32.03                                | 19 41 05  | 1 01 32.97  |
| Mean result of 5 observations on Alpha BOOTIS, West, (at 18 <i>h.</i> 36 <i>m.</i> ).....                             |   |  |   | <i>h. m. s.</i><br>1 01 33.02                                   |
| Alpha CORONÆ BOREALIS, West .....   | ° ' "   | <i>h. m. s.</i>                            | <i>h. m. s.</i>   | <i>h. m. s.</i>   |
|   | 47 08 01.9  | 18 47 15.46                                | 19 48 48  | 1 01 32.54  |
|   | 45 38 49  | 18 55 25.09                                | 19 56 57.4  | 1 01 32.31  |
|   | 45 02 35.3  | 18 58 43.67                                | 20 00 16.3  | 1 01 32.63  |
|   | 44 12 46.1  | 19 03 16.60                                | 20 04 49.6  | 1 01 33   |
|   | 43 45 05.1  | 19 05 48.23                                | 20 07 20.6  | 1 01 32.37  |
|   | 43 21 34.2  | 19 07 56.94                                | 20 09 30  | 1 01 33.06  |
|   | 41 40 00.5  | 19 17 12.83                                | 20 18 45.9  | 1 01 33.07  |
|   | 41 16 24.6  | 19 19 22                                   | 20 20 54.5  | 1 01 32.5   |
| Mean result of 8 observations on Alpha CORONÆ BOREALIS, also West, (at 19 <i>h.</i> 03 <i>m.</i> ) .....              |   |  |   | +1 01 32.68   |
| Mean result of 5 observations on Alpha BOOTIS, West, (at 18 <i>h.</i> 36 <i>m.</i> ) as above .....                   |   |  |   | +1 01 33.02   |
| Mean result from 2 West Stars, giving the result from each Star an equal weight, (at 18 <i>h.</i> 50 <i>m.</i> )..... |   |  |   | +1 01 32.85   |
| Alpha ANDROMEDÆ,* East .....  | ° ' "   | <i>h. m. s.</i>                            | <i>h. m. s.</i>   | <i>h. m. s.</i>   |
|   | 50 22 17.7  | 20 56 51.89                                | 21 58 25.2  | 1 01 33.31  |

\*The eastern portion of the sky was so much clouded this night, that I could only get a single observation on Alpha ANDROMEDÆ, as he shone out for an instant between two passing clouds. The observation was, however, very satisfactory.  
J. D. G.