

## A TABLE

Shewing the greatest Eastern or Western Azimuths of  $\alpha$ , Ursæ Minoris (Polaris,) for the 15th day of each month in the year 1852, to the nearest Second of a Degree; and calculated for each Minute of Latitude, from the 43rd to the 47th Degree North inclusively; together with the reduced Polar distances of the Star for each of the above days, and the interval, in time, from its Meridian passage to the moment of the greatest Azimuth.

| MONTHS.                             | Polar<br>distances | Azimuths.           |                     |                     |                    |                    |                     |                     |                     |                     |       |
|-------------------------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|-------|
|                                     |                    | Lat. 43°.           | Lat. 43° 30'        | Lat. 44°.           | Lat. 44° 30'       | Lat. 45°.          | Lat. 45° 30'        | Lat. 46°.           | Lat. 46° 30'        | Lat. 47°.           |       |
|                                     |                    | ° ' "               | ° ' "               | ° ' "               | ° ' "              | ° ' "              | ° ' "               | ° ' "               | ° ' "               | ° ' "               | ° ' " |
| January.....                        | 1 28 32            | 2 1 4               | 2 2 4               | 2 3 5               | 2 4 10             | 2 5 15             | 2 6 19              | 2 7 28              | 2 8 38              | 2 9 50              |       |
| February.....                       | 1 28 35            | 2 1 8               | 2 2 8               | 2 3 9               | 2 4 14             | 2 5 19             | 2 6 23              | 2 7 32              | 2 8 42              | 2 9 54              |       |
| March.....                          | 1 28 42            | 2 1 18              | 2 2 18              | 2 3 19              | 2 4 24             | 2 5 29             | 2 6 34              | 2 7 43              | 2 8 53              | 2 10 5              |       |
| April.....                          | 1 28 52            | 2 1 31              | 2 2 32              | 2 3 33              | 2 4 37             | 2 5 42             | 2 6 48              | 2 7 57              | 2 9 7               | 2 10 19             |       |
| May.....                            | 1 29 0             | 2 1 42              | 2 2 42              | 2 3 44              | 2 4 48             | 2 5 53             | 2 7 0               | 2 8 9               | 2 9 19              | 2 10 31             |       |
| June.....                           | 1 29 4             | 2 1 48              | 2 2 48              | 2 3 50              | 2 4 54             | 2 5 59             | 2 7 6               | 2 8 15              | 2 9 25              | 2 10 37             |       |
| July.....                           | 1 29 2             | 2 1 45              | 2 2 45              | 2 3 47              | 2 4 51             | 2 5 56             | 2 7 3               | 2 8 12              | 2 9 22              | 2 10 34             |       |
| August.....                         | 1 28 56            | 2 1 37              | 2 2 38              | 2 3 39              | 2 4 43             | 2 5 48             | 2 6 54              | 2 8 3               | 2 9 13              | 2 10 25             |       |
| September.....                      | 1 28 46            | 2 1 23              | 2 2 23              | 2 3 24              | 2 4 29             | 2 5 34             | 2 6 39              | 2 7 48              | 2 8 58              | 2 10 10             |       |
| October.....                        | 1 28 35            | 2 1 8               | 2 2 8               | 2 3 9               | 2 4 14             | 2 5 19             | 2 6 23              | 2 7 32              | 2 8 42              | 2 9 54              |       |
| November.....                       | 1 28 24            | 2 0 53              | 2 1 53              | 2 2 54              | 2 3 57             | 2 5 2              | 2 6 8               | 2 7 16              | 2 8 26              | 2 9 38              |       |
| December.....                       | 1 28 16            | 2 0 42              | 2 1 42              | 2 2 43              | 2 3 46             | 2 4 51             | 2 5 57              | 2 7 5               | 2 8 15              | 2 9 26              |       |
| Interval from Merid. passage,       |                    | H. M. S.<br>5 53 25 | H. M. S.<br>5 53 19 | H. M. S.<br>5 53 13 | H. M. S.<br>5 53 7 | H. M. S.<br>5 53 0 | H. M. S.<br>5 52 54 | H. M. S.<br>5 52 47 | H. M. S.<br>5 52 41 | H. M. S.<br>5 52 34 |       |
| Mean diff. of Azimuth for 1 of Lat. |                    | 2 01                | 2 04                | 2 14                | 2 17               | 2 19               | 2 29                | 2 33                | 2 39                |                     |       |

**Explanation.**—Opposite the given time and under the Latitude will be found the required greatest Azimuthal distance of Polaris. If there be any odd Minutes, of Latitude, not at the head of the Table, take the next lesser Latitude, and add to the Azimuth corresponding thereto, the product of the given excess of Minutes multiplied into the difference for 1, standing below, rejecting the fractions in such product; the sum will be the Azimuth required. The corresponding time from Meridian passage added to, or subtracted from the hour of transit, will show the true sunn time of such passage. Azimuth, West or East of the Meridian.

AZIMUTHS OF A, URSÆ MINORIS.

1852.]

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