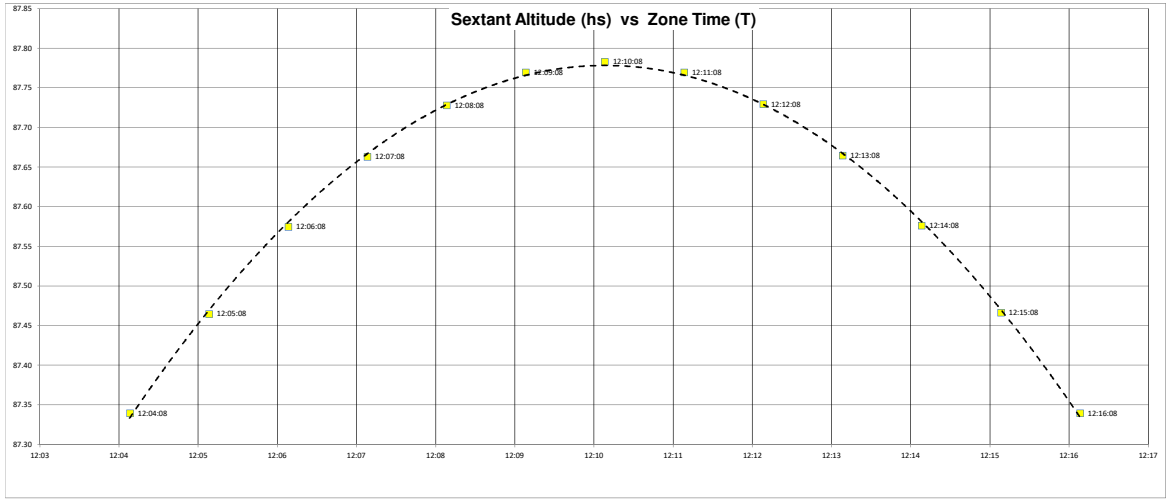
# Meridian Transit Sight Data Plot

| Sight # | Zone Time of Sight hr. | min. | sec. | Sextant Altitude (hs) deg. | min. |
|---|---|---|---|---|---|
| 1 | 12 | 4 | 8 | 87 | 20.4 |
| 2 | 12 | 5 | 8 | 87 | 27.9 |
| 3 | 12 | 6 | 8 | 87 | 34.5 |
| 4 | 12 | 7 | 8 | 87 | 39.8 |
| 5 | 12 | 8 | 8 | 87 | 43.7 |
| 6 | 12 | 9 | 8 | 87 | 46.2 |
| 7 | 12 | 10 | 8 | 87 | 47.0 |
| 8 | 12 | 11 | 8 | 87 | 46.2 |
| 9 | 12 | 12 | 8 | 87 | 43.8 |
| 10 | 12 | 13 | 8 | 87 | 39.9 |
| 11 | 12 | 14 | 8 | 87 | 34.6 |
| 12 | 12 | 15 | 8 | 87 | 28.0 |
| 13 | 12 | 16 | 8 | 87 | 20.4 |

Click on this box to clear all user data cells

Body: SUN  Limb: LL  DR L: 21 deg. 35.8 min. N

Date @ DR Position: 18-May-03  DR Lo: 123 deg. 26.0 min. W




**Notes:**

- Before using this worksheet click on this box to change the **Formula Calculations Options to "Manual"**
- **Results are not valid for sextant altitudes (hs) > 88°**
- **Sight #1** must contain a valid Zone Time & Sextant Altitude.
- After entering all the new sight data, press the **"F9"** key or click on this box to **"update"** the **Sight Data Plot**.
- To remove a bad sight from the list, click on the yellow square that contains the **Sight #** to be removed. The Sight Data Plot will automatically update after a bad sight is removed.
- Before leaving this worksheet click on this box to change the **Formula Calculations Options back to "Automatic"**

- - - - - Trend Line  Sight Data Used to Compute Trend Line

Calculated Zone Time of MT: 12:10:08

Calculated Sextant Altitude at MT: 87 deg. 46.7 min.

Click to view calculated Latitude & Longitude via Meridian Transit Sight

Daylight Saving Time: No  Dip Short Distance: 2600 Yards

Atmospheric Pressure: 1010 mb  IC: -0.3 min.

Air Temperature: 10 ° C  Height of Eye: 6.0 ft.

$hs° = a_0 + a_1T + a_2T^2$

| | |
|---|---|
| $a_0$ | -6489.459839 |
| $a_1$ | 1080.984703 |
| $a_2$ | -44.41560006 |

Zone Description: 8

Distance to Visible Horizon: 5805 Yards

For a sight taken on a Dip Short Horizon: Dip = 3.18 min

Dip Short of a Natural Sea Horizon

For sight taken on a Natural Horizon: Dip = 2.38 min