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About This Workbook

Enter data into yellow cells  
Click on this box to clear all user data cells

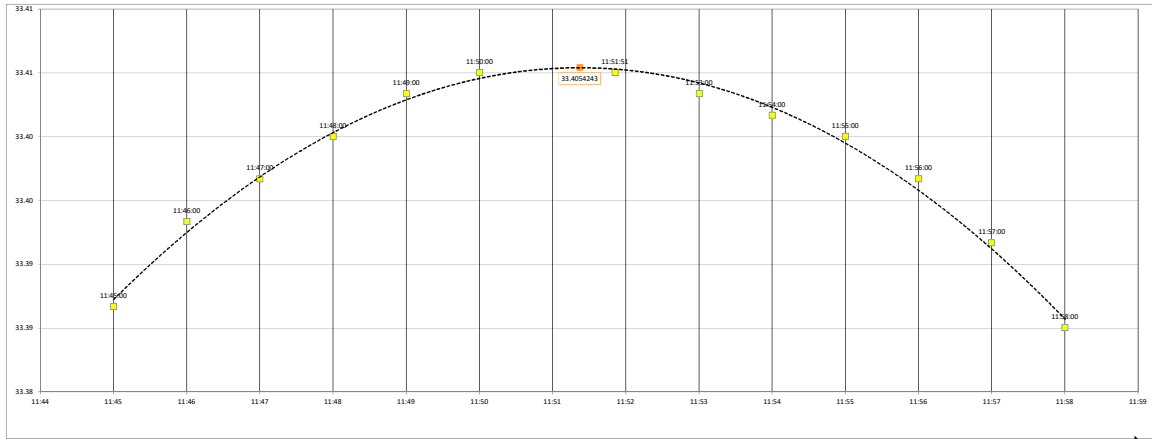
Sight #	Zone Time of Sight		
	hr.	min.	sec.
1	11	45	0
2	11	46	0
3	11	47	0
4	11	48	0
5	11	49	0
6	11	50	0
7	11	51	51
8	11	53	0
9	11	54	0
10	11	55	0
11	11	56	0
12	11	57	0
13	11	58	0

Sextant Altitude (hs)	
deg.	min.
33	23.2
33	23.6
33	23.8
33	24.0
33	24.2
33	24.3
33	24.3
33	24.2
33	24.3
33	24.0
33	23.8
33	23.5
33	23.1

# Meridian Transit Sight Data Plot

Body  Date  DR L  deg.  min.   
 Get Sight Log Data  Sight Log ID  DR Lo  deg.  min.

Sextant Altitude (hs) vs Zone Time (T)



- Notes:
- 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"
  - Before using this worksheet click on this box to change the Formula Calculations Options to "Manual"

Daylight Saving Time

Dip Short Distance  Yards

Atmospheric Pressure  mb

Air Temperature  ° C

Distance to Visible Horizon  Yards

Natural Sea Horizon

IC  min.

Height of Eye  ft.

Quadratic Trend Line

Zone Time of MT @ DR Position  Sextant Altitude @ MT  deg.  min.

$$hs^{\circ} = a_0 + a_1T + a_2T^2$$

$a_0$	-193.2352982
$a_1$	38.23179054
$a_2$	-1.612320364

Save Calculated MT Sight Data  in Sight Log ID

Click to view Latitude via Meridian Transit Sight

Meridian Transit Power Point Presentation

- The Meridian Transit Power Point presentation (2524KB, PPTX) discusses three different methods of determining the Zone Time of Meridian Transit:
- Zone Time of Sun's meridian transit using Nautical Almanac Mer. Pass. method
  - Zone Time of Sun's meridian transit using Nautical Almanac Eqn. of Time method
  - Zone Time of Sun's meridian transit using GHA = Observer's Meridian method

Apparent Solar Noon Occurs Before Mean Solar Noon  
Apparent Sun Ahead of Mean Sun

[Click to View Meridian Transit Power Point Presentation](#)

Eqn. of Time  Analemma  Mer. Pass

Zone Time of MT @ DR Position  Based on Eqn. of Time

Zone Time of MT @ DR Position  Based on Mer. Pass