

## Compass Error by Amplitude

Position      Latitude \_\_\_\_\_      Time \_\_\_\_\_ LMT

   Longitude \_\_\_\_\_      \_\_\_\_\_ GMT

Bearing of Sun \_\_\_\_\_      Ships Head \_\_\_\_\_ (Gyro)

   \_\_\_\_\_ (Magnetic)

Dec.	
d (      )	
Declination	

$$\text{Sin Amplitude} = \frac{\text{Sin Declination}}{\text{Cos Latitude}}$$

Amplitude \_\_\_\_\_

*Named East / West depending on whether sun is rising or setting.  
Named North / South same as Declination*

True Bearing \_\_\_\_\_

Error \_\_\_\_\_

<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">E -</div> <div style="margin-bottom: 5px;">+</div> <div style="margin-bottom: 5px;">W</div> <div style="margin-bottom: 5px;">↓</div> <div style="font-size: 2em;">↓</div> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">True Heading</td><td style="width: 50px;"></td></tr> <tr><td style="padding: 5px;">Variation</td><td></td></tr> <tr><td style="padding: 5px;">Magnetic</td><td></td></tr> <tr><td style="padding: 5px;">Deviation</td><td></td></tr> <tr><td style="padding: 5px;">Compass</td><td></td></tr> </table>	True Heading		Variation		Magnetic		Deviation		Compass		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">E +</div> <div style="margin-bottom: 5px;">-</div> <div style="margin-bottom: 5px;">W</div> <div style="margin-bottom: 5px;">↑</div> <div style="font-size: 2em;">↑</div> </div>
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