

Star Sight

Date _____

DR Position Latitude _____

Ships Head _____ (Gyro)

Longitude _____

_____ (Magnetic)

Index Error _____

Average Speed _____

Height of Eye _____

Temperature _____

hPa _____

Star					
Time					
Declination					
GHA γ					
Increment					
Corrected GHA					
Longitude (-W +E)					
LHA γ					
SHA ϵ					
- 360°					
LHA ϵ					

Sextant Altitude					
Index Error					
Observed Altitude					
Dip (-)					
Apparent Altitude					
Total Correction					
2 nd Correction					
True Altitude					
- 90°00'.0					
True Zenith Distance					

$$\text{Cos.CZD} = (\text{cos. LHA} \times \text{cos. Lat} \times \text{cos. Dec}) \pm (\text{sin. Lat} \times \text{sin. Dec})$$
 (+ when Lat & Dec same name. - when Lat & Dec opposite)

Calculated Zenith Distance					
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Intercept (TZD - CZD)					
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(TRUE TINY TOWARDS)

Azimuth					
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$$A = \frac{\text{Tan Lat}}{\text{Tan LHA}}$$

*Named Opposite to Latitude
except if LHA between 90°- 270°*

$$B = \frac{\text{Tan Dec}}{\text{Sin LHA}}$$

Named the Same as Declination

$$C = A \pm B$$

Same Names + / Opposite Names –

Named Greater of the Two

$$\text{Tan Azimuth} = \frac{1}{C \times \text{Cos Lat}}$$

*Named N / S same as C
Named W if LHA between 0°-180°
Named E if LHA between 180°-360°*

STAR					
A					
B					
C					
AZIMUTH					

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SHIPS STAMP

