

Sun Line Worksheet

| | |
|-------------|--|
| Body | |
| IC | |
| Dip (ht) | |
| Hs | |
| Ha | |
| Alt. Corr | |
| Temp/Baro | |
| H.P. (Moon) | |
| Ho | |

| | |
|--------|--|
| DR Lat | |
| Lat | |

| | |
|----------|--|
| Date | |
| Obs Time | |
| GMT | |

| | |
|----------------|--|
| Tab GHA | |
| v | |
| GHA incr'mt | |
| v corr. | |
| GHA DR Long | |
| LHA | |

Index Correction:

Properly adjust the sextant for zero error.

Dip: Height of eye above sea level.

Taken from front of Almanac.

Always subtract

Height Shot; Apply Dip corr.

Height apparent:

Alt. Corr: Correction for refraction.

Taken from front of almanac. Always add for sun. Sub for stars/planets

Temp/Baro; Optional corrections for tempuature and pressure

Height Observed:

Latitude: DR Lat rounded to nearest whole Latitude.

Entering Argument 229

GMT Date and Time

LHA = GHA-W Long
GHA+E Long

Change minutes of DR Long to match that of GHA. This will five a whole number for LHA. When adding E Long change minutes so that when added a whole number within 30' of DR Long will result.

Entering Argument 229

| | |
|------------|--|
| Tab Dec | |
| d | |
| d corr+or- | |
| True Dec | |

| | |
|---------------------------------------|--|
| Enter Pub 229 | |
| Hc (Tab Alt) | |
| Dec inc. +/- d | |
| Tens | |
| Units | |
| Total Corr +/- | |
| Hc (Comp Alt) | |
| Ho (Obs Alt) | |
| a (intercept) | |
| Z | |
| Zn (Deg True) | |
| Plot using Altitude Intercept method. | |

Sun Line cont.

Extract Tab Declination from Almanac for time of sighting. Note d at bottom of column +/-

Pull d correction from increments and corrections pages at back of almanac.

Apply for True Declination.

Entering argument 229

Exact **He, d** and **Z**

Using Dec increments and Altitude Difference (d) pull Altitude Correction from Interpolation Tables in front and back of 229.

Determine difference between Hc and Ho.

a (intercept)

Computed Greater Away

Plot **Zn** towards or away from bearing indicated

Plot intercept in nautical miles along bearing.

Draw a line perpendicular to the bearing at that point. This is your LOP.

Label LOP with object and time.