

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.