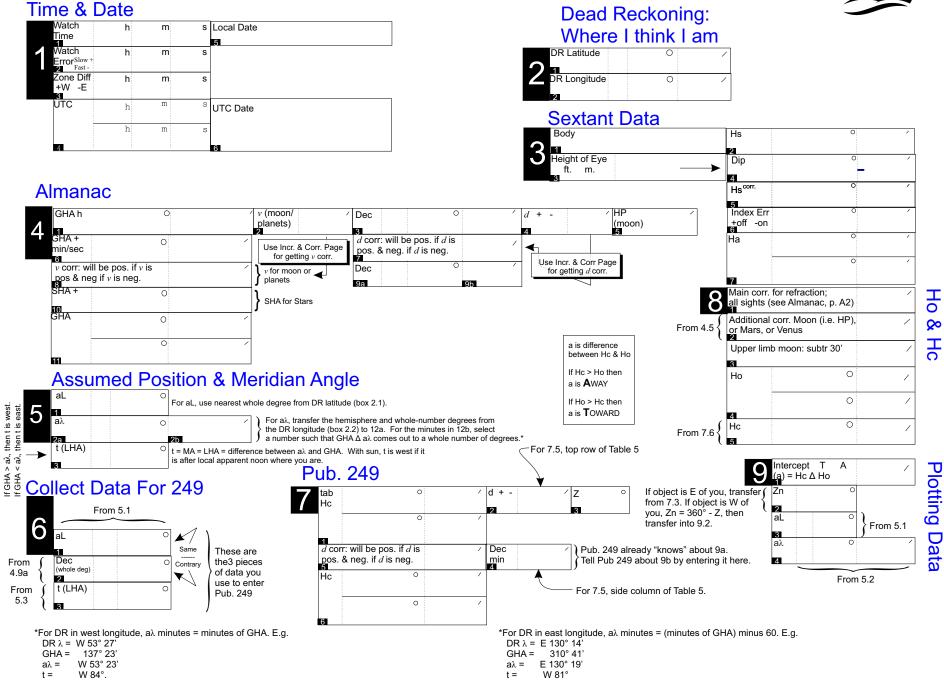
British Columbia Offshore Sailing Association Sight Reduction Form

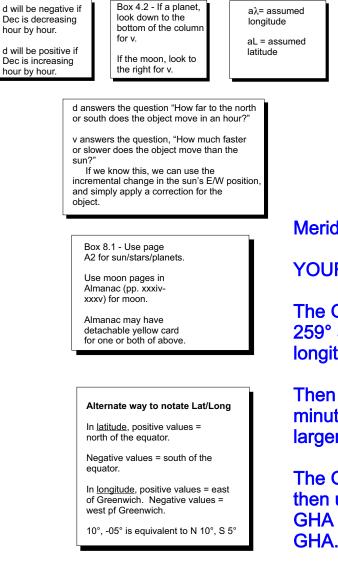




Name

Foldout Definitions and Explanations

a = altitude intercept = intercept $a\lambda$ = assumed longitude aL = assumed latitude AP = assumed position(aL + $a\lambda$) d = difference in declination from hour to hour GHA = Greenwich hour angle (= λ). GHA and Declination define GP of body GP = geographic position of body, where GHA is equivalent to λ and declination is equivalent to lat. Hc = height-corrected (corrected altitude) Ho = height observed/observed alt. HP = horizontal parallax Hp = Height Precomputed (can compare directly with hs) Hs = height sextant IC = Index correction LHA=Local Hour Angle = angle from the AP longitude to the GHA, measured westward MA = Meridian angle = angle from the AP longitude to the GHA, measured east or west MA 10°E = LHA 350° MainCorr = refraction+semi-diameter combined correction Tab = tabulated v = variation in GHA compared to sun Z = azimuth angleZn = azimuth



 v - planets and moon always positive unless explicitly noted

 d - positive if decl. increasing negative if decl. decreasing
HP - Moon only - always pos.

Meridian Angles, east and west

YOUR DR IS IN EAST HEMISPHERE

The GHA is between 180° 00.0' and 259° 59.9', then convert GHA to east longitude by subtracting the GHA from 360°.

Then use an AP with λ minutes = GHA minutes, and subtract the smaller from the larger.

The GHA is between 0° 00.0 and 179° 59.9', then use an AP with λ minutes = 60 minus GHA minutes. Then ADD the AP λ to the GHA.

YOUR DR IS IN WEST HEMISPHERE

Use an AP with λ minutes = GHA minutes, and subtract the smaller from the larger.

Once you complete section 4, you will know the location of the GP.

Once you complete section 5, you will know the location of the AP and the meridian angle.

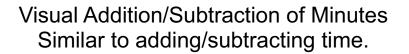
Once you complete section 7, you will know the final side of the navigational triangle.

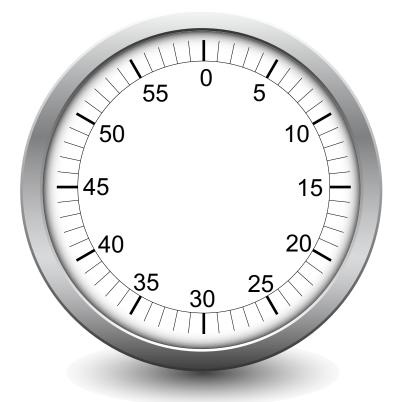
You will use all this information about the navigational triangle on the plotting sheet. There, you will use your sextant data to compare your actual position to the hypothetical, assumed position.

GHA

GH

From this, you end up with a fix.





12° 05′ minus 37′ = 11° 28′





Alternatively: 12° 05' is equivalent to 11° 65' hence... 11° 65' minus $37' = 11^{\circ}$ 28'



Alternatively: 12° 20' plus 49' = 12° 69' 12° 69' is equivalent to 13° 09'

