

# ASTRONAVIGATION

<b>Date</b>					
<b>Time UTC</b>					
<b>Body</b>					
Hs					
± Index error					
– Dip					
± Altitude corr.					
(+HP Moon)					
Dip at 2.5 m is 2.8' Dip at 2 m is 2.5'. All corrections approximated: 25°: +11' 40°: +12' 80°: +13' (+ for lower limb)					
<b>Ho</b>					
GHA hours					
+ GHA min.					
SHA (or: v for Moon)					
For stars, add SHA to GHA of Aries. If >360°, subtract 360°.					
<b>GHA</b>					
<b>Longitude assumed</b>	Choose to make LHA full degree. If eastern, add Longitude to GHA, else subtract.				
<b>LHA = GHA ± Long</b>					
Declination hours					
± d Declination min.					
<b>Declination</b>	Subtract, if decreasing in almanac column.				
<b>Latitude assumed</b>	Full degrees				
Hc for Decl. °					
± d for Decl. min.					
<b>Hc</b>					
Z	Northern hemisphere – LHA >180°: Zn = Z – LHA <180°: Zn = 360° – Z				
Zn °	Southern hemisphere – LHA >180°: Zn = 180° – Z – LHA <180°: Zn = 180° + Z				
<b>Ho – Hc (nm)</b>	If Ho > Hc: towards sun				
<b>Meridian passage</b>					
Latitude = 90° – Ho ± Declination					
If sun is contrahemispheric, subtract declination, else add. If Latitude < Declination: Latitude = Declination – (90° – Ho)					