

Haversine Sight Reduction

Observation
Body Date UT1
Hs, Z

Nautical Almanac
GHA, Dec

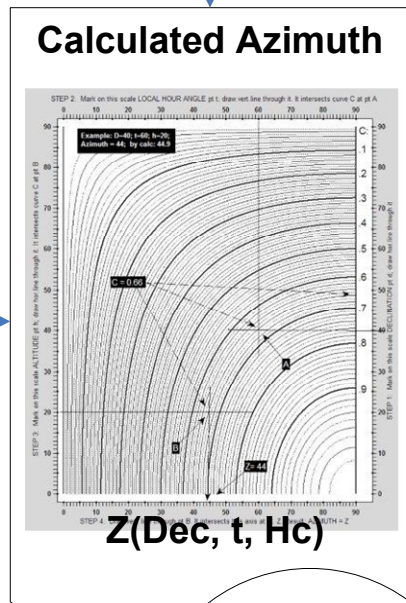
Assumed Position
B, L



Calculated altitude
 $n = hv(B - Dec)$
 $m = hv(B + Dec)$
 $a = hv(LHA)$
 $hv(ZD) = n + (1 - (n + m)) * a$
 $Hc = (90 - ZD)$

Haversine table

$LHA = GHA + L$



Meridian angle
 $|t| = LHA$
 If($LHA > 180^\circ$) $|t| = 360^\circ - LHA$
 If($|t| > 90^\circ$) $|t| = 180^\circ - |t|$

Z E/W as name of t
Z N/S by observation
Zn