Navigating beyond sight of land

 (View as Pdf)

Amplitude tables form:

From Almanac

Date……Heavenly body ……Compass bearing……..……**(C)**

Latitude……..…**(N) (S)** Longitude……..…**(E) (W)**

Average local time of rising **(E)** or setting **(W)**……..……...

Time correction (if required to < 1 degree)

Time difference from UT **(-E)** or **(+W)** ……..……... hours

Time difference from UT **(-E)** or **(+W)** _____ mins

_____ hours & mins

UT (GMT) (Local +/- Long) Date _____ _____ hours & mins

UT tabulated declination (hours) ……..……... hours
d correction (minutes) **+ or -** _____ mins

Heavenly body declination at chosen long. _____ **(N)** or **(S)**

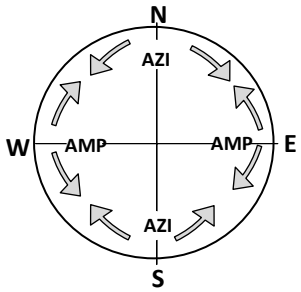
From amplitude/azimuth tables or calculator

Enter with declination and latitude (apply same name as declination)

Tabulated/calc. Amplitude **(E) (W**.....**(N) (S)**
or Azimuth **(N) (S)**.....**(E) (W)**

(T) True Azimuth ……

(T) True bearing……..
W+ **(V)** Variation ……
(M) Magnetic ……
E- **(D)** Deviation ……
(C) Compass ……



From calculator

Sin Amp=Sin Dec ÷ Cos Lat=

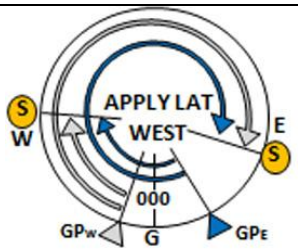
ABC tables form:

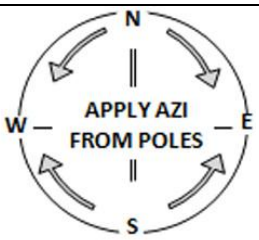
1	**Date** Ship		**Smt** Ship mean time		**HB** Heavenly body	
2	**DR Lat.** CP		**N / S**	**DR Long.** CP		**E / W**
	Variation Local		**E / W**	**Bearing** of HB		**ºC**

3	**Convert SMT to UTC (GMT)**		
	Smt		
	Zone Time - east + west		
	UT		
	UT Date		

4	**Extract GHA (almanac) & Calculate LHA**		
	UT/GHA hour		
	UT/GHA min & sec		
	UT/GHA		
	DR long + E - W		
	LHA		

5	**Calculate Declination**		
	Dec. at hour		N / **S**
	'd' minute correction		+ or – as table trends
	Dec.		**N / S** 'd'





6	**Enter ABC tables**		
	LHA/Latitude	**A=**	**N / S** name opp. to Lat except LHAs 90-270
7	LHA/Dec	**B=**	**N / S** name same as Dec
8	A+or-B		**N / S** name same as greatest
	A+or-B /lat	**C=**	
	Quadrant notation =	**N / S** **E / W**	**W** if LHA 000-180 **E** if LHA 180-360

10	**Compass error check**		
	T		
	V		
	M		
	D		
	C		

9	**Convert to 360ºT notation**	