

NP303 / AP3270 VOLUME 2 & 3 — RAPID SIGHT REDUCTION FORM

1 Estimated position at the time of fix:		Navigator					
DR/EP:	Lat. ° ' , Long. W ' /	Height of eye			m/ft		
2 Convert Date/Times:	Year month d h m s	Index Error			on arc - off arc +		
Fix , local date & time	20	Course °T			Temp. °C/F		
Zone Correction $\frac{W}{E} \frac{+}{-}$ ZT		Speed kn			Pressure mb/in		
Greenwich date & UT	UT _f 20	Depart			To		
Observations of	Year month d h m s	Year month d h m s			Year month d h m s		
Local date & watch time DWT	20	20			20		
Watch error $\frac{fast}{slow} \frac{-}{+}$ DWE							
Local time							
Zone correction $\frac{W}{E} \frac{+}{-}$ ZT							
Greenwich date & UT	UT 20	20			20		
UT of Fix	UT _f						
Fix $\frac{later}{earlier} \frac{+}{-}$ UT _f - UT							
3 Body's position:	h m s ° / ° /	h m s ° / ° /			h m s ° / ° /		
GHA & Dec or GHAY	.	.			.		
Increment for mins and secs	.	.			.		
Correction (v, d)/* SHA & Dec	(' ')	(' ')			(' ')		
Sum = GHA & Dec for UT	.	.			.		
4 Calculate LHA: ±360°							
Assumed longitude, $\frac{E}{W} \frac{+}{-}$.	.			.		
Sum							
±360° if required							
LHA body = Sum							
5 Main tables: (Lat,Dec,LHA)	Same Contrary °	Same Contrary °			Same Contrary °		
Extracted H _c , d, Z	° / ' / °	° / ' / °			° / ' / °		
Table 5 (Dec', d)							
Calculated altitude H _c							
6 Correct sextant altitudes: H _s	' ° /	' ° /			' ° /		
Index error $\frac{on\ arc}{off\ arc} \frac{-}{+}$ IE	.	.			.		
Dip, Table 6a, ht m D	.	.			.		
Sum IE+D	.	.			.		
Apparent altitude H _a	.	.			.		
Alt. corrn. Table 6/Moon (NA)	.	.			.		
Addn. alt. corrns (see NA)	.	.			.		
Additional ref Table 6c	.	.			.		
Observed altitude H _o	.	.			.		
7 Calculate intercept: (Step 5) H_c	.	.			.		
Intercept = H _o - H _c p	.	.			.		
Z _n =Z, Z _n =180°-Z, LHA > 180° Z _n =360°-Z, Z _n =180°+Z, LHA < 180°							
North Lat South Lat. ±Z	°	°			°		
True azimuth Z _n	°	°			°		
8 (a) Motion of vessel:							
±360° if required							
True track of vessel C							
Z _n - C Rel.Z _n							
Table 1 (DMG, Rel.Z _n) MOO	.	.			.		
(b) Motion of body, Tbl 2 MOB	.	.			.		
9 Intercept, corrected $\frac{+}{-}$ towards/away p	.	.			.		