SIGHT REDUCTION SHEET FROM IVAR DEDEKAM'S ILLUSTRATED NAVIGATION

True altitude Sextant altitude: Index error: = Observed altitude: - DIP: = Apparent altitude: + Total Corrections: = True altitude: From the nautical almanac GHA whole hours: + GHA correction: = GHA - W / + E latitude: = LHA: From Pub. No. 249

AA = Apparent altitude TC = Total corrrections

Height of eye		0.7m		1.3 m		2.0m		2.9m		3.9m	
DIP		-1.	5'	-2.0	'	-2	.5'	-3.0)'	-3	.5'
AA	>13°	15°	17°	20°	2	4°	31°	41°	5	9º	85°
TC	12'	12.5	3' 13'	13.5	5' 1	4'	14.5'	15'	15	.5'	16'

Remember:

Correction for d is added if lat. and dec. have same name and subtracted if they have opposite (contrary) name. Position line to be moved towards the sun Assumed position:

if true altitude is greater than tabulated altitude and away from Assumed longitude W/E the sun if true altitude is less than tabulated altitude.

Log: Date: DR position: UTC at observation: Declination: Log at local noon: Mer. Pass. Greewich.: Estimated Mer. Pass.:

Hc (tabulated alt.): + d-correction:	o +	1
= Hc corrected:	0	9
-True altitude:	0	1
= Alt. diff. (Intercept):		9



Assumed position:

1	0	0 7
-	<u>d</u> = '	
		1
١.	+: away from sun -: towards sun	0 7

True bearing

N latitude:	
LHA>180°	Zn = Z
LHA<180°	Zn= 360°-Z
S latitude:	
LHA>180°	$Zn = 180^{\circ} - Z$
LHA<180°	$Zn=180^{\circ} +Z$

Latitude from the noon sight

90° =	0	1
— True altitude:	0	Ĭ
= MZD :	o	Ţ
+ Declination:	o	1
= Latitude:	0	T

Calculations / Notes