

Sight reduction following NavPac/HMNAO				
Object:	Date/Time:			

correction:	other	deg:mm	hints:	
			1 degree = 60 minutes	
sextant altitude	H_s		raw angle read from sextant	
sextant index error	I	+	determine before measurement	
intermediate result 1	$H_s + I$			
eyeheight (m)	h			
horizontal dip	D_h	-	calculate from section (1) handout	
apparent altitude $H = H_s + I - D_h$			use this H to compute R and PA	
pressure (mbar)				
temperature (°C)				
refraction	R	-	calculate from section (3) handout	
intermediate result 2	$H - R$			
sun/planets horiz. parallax	$H_p_{\text{sun/planets}}$		use section (4) (Sun, Venus, Mars)	
moon horizontal parallax	H_p_{moon}		use section (5) (Moon)	
oblateness earth	OB	-	only with Moon!!	
parallax	PA	+	set parallax zero for stars	
intermediate result 3	$H - R + PA$			
semi-diameter sun	S_{sun}			
semi-diameter moon	S_{moon}		use section (6) (Sun, Moon)	
lower limb (l)			set zero for planets and stars	
upper limb (u)			use + for observed lower limb	
semi-diameter	S	+/-	use - for observed upper limb	
observed altitude	H_o		use for plotting of ship's position in chart	

computation of altitude and azimuth from estimated position		
	deg:mm	
estimated longitude	Long	
estimated latitude	Lat	
full hour greenwich hour angle	GHA(HH)	Aries, Sun, Moon, Planets
full hour plus 1 greenwich hour angle	GHA(HH+1)	
time of obs. greenwich hour angle	GHA(T)	linear interpolation
full hour declination	DEC(HH)	Sun, Moon, Planets
full hour plus 1 declination	DEC(HH+1)	
time of obs. declination	DEC(T)	linear interpolation
siderial hour angle	SHA _{star}	Stars
declination	DEC _{star}	
greenwich hour angle	GHA _{star}	$GHA_{\text{star}} = SHA_{\text{star}} + GHA_{\text{Aries}}$
time of obs. local hour angle	LHA	$LHA = GHA +/- \text{Long}$
		"+" for "E"; "-" for "W"
intermediate result1	sinDec	
intermediate result2	sinLat	
intermediate result3	cosDec	
intermediate result4	cosLat	
intermediate result5	cosLHA	
computed altitude	H_c	
computed azimuth	Z	

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full hour plus 1 greenwich hour angle	GHA(HH+1)	
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full hour declination	DEC(HH)	Sun, Moon, Planets
full hour plus 1 declination	DEC(HH+1)	
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declination	DEC _{star}	
greenwich hour angle	GHA _{star}	$GHA_{\text{star}} = SHA_{\text{star}} + GHA_{\text{Aries}}$
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