

# ASTRO NAVIGATION SIGHT REDUCTION FORM

using *Nautical Almanac Concise Sight Reduction Tables*

Date \_\_\_\_\_ Body \_\_\_\_\_ Limb U / L \_\_\_\_\_ Log \_\_\_\_\_

Times	spot mean: _____	Angles	spot mean: _____
_____	+ / - _____	_____	+ / - _____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
	sum _____		sum _____
	sum/n _____		sum/n _____

Mean (watch) \_\_\_\_\_  
 Zone adj \_\_\_\_\_  
 watch corr \_\_\_\_\_  
 U T \_\_\_\_\_

HP \_\_\_\_\_  
 Dec ( h) N / S \_\_\_\_\_  
 d ( m) \_\_\_\_\_  
 Dec N / S \_\_\_\_\_  
 G H A ( h) \_\_\_\_\_  
 Increment ( m s) \_\_\_\_\_  
 v ( m) \_\_\_\_\_  
 G H A \_\_\_\_\_  
**Ass Long** E / W \_\_\_\_\_ (E +)  
 L H A \_\_\_\_\_ 00'

Mean (sextant) \_\_\_\_\_  
 I E \_\_\_\_\_  
 Dip \_\_\_\_\_  
 App Alt \_\_\_\_\_  
 Alt corr 1 \_\_\_\_\_  
 Alt corr 2 \_\_\_\_\_  
 U Limb corr \_\_\_\_\_ -30'  
 True Alt Ho \_\_\_\_\_

Hc \_\_\_\_\_  
**Intercept** \_\_\_\_\_ towards/away

**Ass Lat** N / S \_\_\_\_\_ 00'

Ass Lat _____	A _____	A° = _____ A' = _____
L H A _____	B _____	-ve if 90° < L H A < 270°
	Z <sub>1</sub> _____	same sign as B
B _____		
Dec _____	-ve if contrary to Lat	
F _____	= B + Dec	F° = _____ F' = _____
A° _____	H _____	
F° _____	P _____	P° = _____
	Z <sub>2</sub> _____	Z <sub>2</sub> ° = _____
F' _____		
P° _____	corr <sub>1</sub> _____	-ve if F < 90° and F' > 29° OR if F > 90° and F' < 30'
A' _____		
Z <sub>2</sub> ° _____	corr <sub>2</sub> _____	-ve if A' < 30'
H _____		
corr <sub>1</sub> _____		
corr <sub>2</sub> _____		
H <sub>C</sub> _____	-ve if F -ve	
Z <sub>2</sub> _____	-ve if F > 90°	
	if F -ve, Z <sub>2</sub> = 180° - Z <sub>2</sub>	
Z <sub>1</sub> _____		
Z _____	= Z <sub>1</sub> + Z <sub>2</sub>	
<b>Zn</b> _____	N Latitude: if L H A > 180° Zn = Z	
	if L H A < 180° Zn = 360° - Z	
	S Latitude: if L H A > 180° Zn = 180° - Z	
	if L H A < 180° Zn = 180° + Z	