

ASTRO NAVIGATION SIGHT REDUCTION FORM

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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 _____

Mean (sextant) _____
 I E _____
 Dip _____
 App Alt _____
 Alt corr 1 _____
 Alt corr 2 _____
 U Limb corr _____ -30'
 True Alt H_0 _____

HP _____
 Dec (h) _____
 d (m) _____
 Dec _____
 G H A (h) _____
 Increment (m s) _____
 v (m) _____
 G H A _____
 Ass Long _____ (E +)
 L H A _____ 00'

H_c _____
 Diff _____ towards/away
 Ass Lat _____ 00'

Lat _____
 L H A _____

A _____ $A^\circ =$ A' =
 B _____ -ve if $90^\circ < L H A < 270^\circ$
 Z_1 _____ same sign as B

B _____
 Dec _____
 F _____

-ve if contrary to Lat
 = B + Dec $F^\circ =$ F' =

A° _____
 F° _____

H _____
 P _____ $P^\circ =$
 Z_2 _____ $Z_2^\circ =$

F' _____
 P° _____

corr₁ _____ -ve if $F < 90^\circ$ and $F' > 29'$
 OR if $F > 90^\circ$ and $F' < 30'$

A' _____
 Z_2° _____

corr₂ _____ -ve if $A' < 30'$

H _____
 corr₁ _____
 corr₂ _____
 H_c _____

-ve if F -ve

Z_2 _____

-ve if $F > 90^\circ$
 if F -ve, $Z_2 = 180^\circ - Z_2$

Z_1 _____
 Z _____
 Z_n _____

= $Z_1 + Z_2$
 N Latitude: if $L H A > 180^\circ$ $Z_n = Z$
 if $L H A < 180^\circ$ $Z_n = 360^\circ - Z$
 S Latitude: if $L H A > 180^\circ$ $Z_n = 180^\circ - Z$
 if $L H A < 180^\circ$ $Z_n = 180^\circ + Z$