

DATE

DR LATITUDE N/S

DR LONGITUDE W/E

ARC TO TIME CONVERSION (time difference between our vessel and Greenwich)

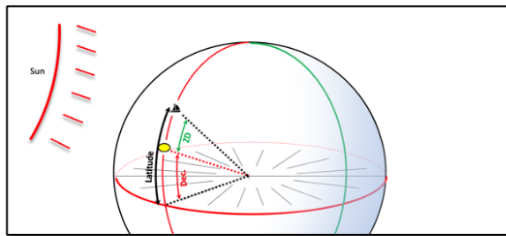
Use 'CONVERSION OF ARC TO TIME' to convert from 'ships clock' to UT

DR LONGITUDE 'minutes' = H M A

Establish time of 'mer pass' in Grenwich on day in question from daily pages.

Use 'CONVERSION OF ARC TO TIME' (using DR Longitude) to establish at what time (in UT) the mer pas will happen in current location

TIME OF MER PASS AT VESSEL (UT) H M D



Meridian Passage Marks sight as upper or lower limb as reminder.

SEXTANT ALTITUDE	<input type="text"/>	READING FROM SEXTANT	<input type="text"/>
INDEX ERROR	On arc = SUBTRACT Off arc = ADD		<input type="text"/>
HEIGHT OF EYE	HEIGHT OF EYE		<input type="text"/>
APPARENT ALTITUDE			<input type="text"/>
ALTITUDE CORRECTION	SUBTRACT ADD		<input type="text"/>
TRUE SEXTANT ALTITUDE (Ho)			<input type="text"/>

Input index error of Sextant

Height of eye or DIP from 'ALTITUDE CORRECTION TABLES'. Always subtracted.

Look up 'APPARENT ALTITUDE' in 'ALTITUDE CORRECTION TABLES Sun, Stars, Planets'. Upper or lower limb?

DEC N/S d (+) (-)

v and d correctors

RESULT D

Look up today's date and 'Hours' in 'Nautical Almanac' to find DEC AND 'd' value.

Goto 'INCREMENTS & CORRECTIONS' then:
1- look up correct minutes page
2- Look up 'd' value and enter correction at **.

TRUE SEXTANT ALTITUDE (Ho)	<input type="text"/>	TRANSFERRED		
ZENITH DISTANCE (ZD)	<input type="text"/>		RESULT	
DECLINATION	<input type="text"/>	TRANSFERRED		
LATITUDE	<input type="text"/>			

WORKING AREA

Lat = Dec + ZD

Lat = Dec - ZD

Lat = ZD - Dec

Opposite

Decide which scenario is true and calculate Latitude as indicated. (Use 'WORKING AREA' if needed)