

When the lower is observed
 Take the difference between the semi-diameter of the sun
 and the mean horizontal refraction 34.17 to which
 add the dip of the horizon found in table 5th call this
 the correction.
 correct the declination and find the polar distance as usual
 also correct the latitude to the place of observation by the
 suns already given
 add together the latitude and the polar distance from
 which subtract the above correction. Take half this
 sum to which add the same correction and call it the
 Difference.

The apparent time is then found by the usual manner
 in finding time by the tables.

When the Upper limb is observed
 add together the horizontal refraction 34.17 the suns
 semi-diameter Nautical Almanac and the dip of the
 horizon in table 5 call this sum the correction

correct the declination and latitude as before and find
 the suns Polar Distance

Add together the latitude and Polar Distance
 from which subtract the above correction. Take half
 this sum to which add the same correction
 and call it the difference

The apparent time is then found by the usual manner

Wednesday January 5

Log of Barque Valparaiso Bound on a whaling

Wednesday January 5th sailed from Callao on
 a whaling voyage with a good wind from the
 south. Stowed the anchors and set the mast
 later part light breeze and fine weather

Thursday Commenced with fine weather and light
 breeze employed in stowing away cables and
 clearing up deck

Thursday Jan 6th commenced with fine weather steering
 to the west employed getting boats ready for whaling
 also filling casks with salt water sunset took in sail
 later fresh breeze with thick hazy weather
 employed in rigging boats

Friday Jan 8th commenced with fresh breeze from
 the south. employed in rigging boats sunset
 took in sail middle part fresh breeze later
 the same employed in filling casks with salt water
 Lat 26.20 South
 Long

Saturday Jan 9th fresh breeze from the south
 employed in filling casks with salt water
 sunset blowing strong from the south ship under
 double reefed topsails middle part more moderate
 daylight made shift wind south ship on the starboard
 tack

Lat 26.20

Sunday Jan 10th light breeze and fine weather
 ship heading southwest middle part light breeze
 and fine weather later part the same men employed
 in rigging boats &c

Lat. 27.20 South
 Long