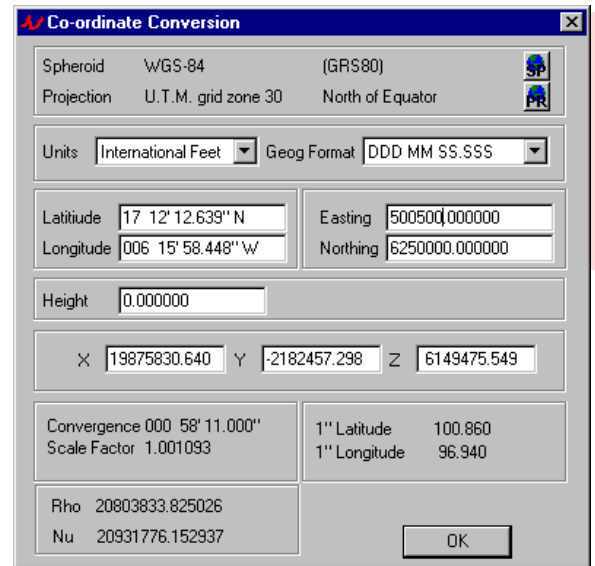


Surveyor for Windows

Geodetic Computations

The software can be used to perform the following computations, grid to geographicals, datum shifts and range and bearing between two points. 18 pre-defined spheroids, over 150 pre-defined projection parameters, and predefined datum shift parameters for WGS84 to OSGB36 and Norwegian Datum. Projections include Transverse Mercator, Mercator, Lambert Conical, Cassini-Soldner, Azimuthal Equidistant, State Plane (USA), Rectified Skew Orthomorphic (Borneo and Malaysia), Norwegian National Grid (NGO) and Stereographic.



Sun Azimuth

The software computes the azimuth to the sun from observations and using star almanac tables. This software can be used to calibrate a gyro compass.

Tidal Predictions

The software computes and displays the tidal curve based on a standard port and tidal harmonics all parameters can be obtained from the Admiralty Tide Tables. The software can also Cubic Spline Fit a tide curve using tide gauge data observed at various intervals.

Norcom Technology

50 Unthank Rd, NORWICH, Norfolk, NR2 2RF, UK



+ 44 (0) 1603 756252

+ 44 (0) 1603 756253

enquiries@norcom.demon.co.uk

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Acoustic Box-in

The software is used to determine the position of a seabed transponder using a surface navigation system.

Speed of Sound in Water

The software can use formulae to compute the velocity of sound in water, Chen & Millero (1977), Del Grosso, LeRoy, MacKenzie, Medwin, Wilson (full and simplified) and Woods. The software also has the ability to produce velocity profiles from a series of points.

USBL Calibration

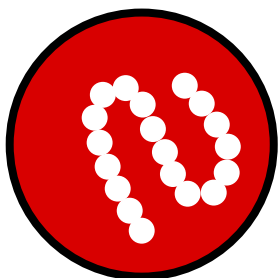
The software is used to calibrate an USBL navigation system, the software will compute the likely errors in range, alignment, pitch and roll

Network Adjustment

The software uses least squares to adjust a network points using measured ranges, bearings and position observations. The software can be used for calibrating an acoustic network.

Transit Fix

The software from observations computes the position of the legs of a 3 or 4 leg structure and also the centre.



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