

Eighth GEBCO Science – presentation abstract

Oral presentation title: Vertical Transformations: Exploring a GIS Approach

Institute of Marine Sciences - National Research Council (ISMAR-CNR), Venice, Italy, 8th October 2013

Author: Bertrand Baud, ESRI, Maritime Team, Redlands, California, USA

Abstract

Differences in vertical datum are a common source of error and misalignment when combining geospatial datasets. This issue is especially relevant for ocean -related datasets as well as sea-land datasets, where tidal datum add one more layer of complexity. While several tools exist to convert datasets from a vertical datum to another, the process is usually manual, non-real time, and limited to certain datum and geographic regions. The goal of this presentation is to discuss how several powerful features provided by modern Geographic Information Systems (GIS) could potentially be leveraged in the future to provide alternative approach to the problem.