

New Norwegian Bathymetric Database

The Norwegian Hydrographic Service has launched a project to enhance the production line with a new management and distribution system for high resolution depth data, called the Norwegian Bathymetric Database (NMDB). The work is a part of the NHS' commitment to the Mareano programme, and the database will be the management system for the official and authoritative depth data in Norwegian waters.

The system will have three main functional parts: Data assembly, data management and data distribution.

The data assembly consists of constructing digital terrain models based on quality assured survey data. The system will include adapted functionality for the construction and visualisation of terrain models with user controlled parameters. Emphasis will be put on the registration of standardized metadata.

The data management includes collocating the various terrain models to a seamless, continuous digital model of the seabed. The database will at first include data for the Norwegian coastal and sea areas, and the Svalbard region. In the long term the database will also include data from the areas of interest to Norway in Antarctica. The data shall be kept updated and replaced as and when data of increasingly quality is available.

The data distribution shall be network based and user controlled. Internal and external users shall have an overview of coverage, available product types and metadata, the opportunity to view the data through standardized interfaces, and to download data. The most important products will be terrain models such as grid and triangular models of various resolutions.

Emphasis is put on use of ISO and industry standards so as to open up for later expansions and integration with other systems internally and externally.

The Dutch company Atlis B.V will deliver the system.