



Hydrospatial

Definitive digital mapping for the marine environment and coastal zone

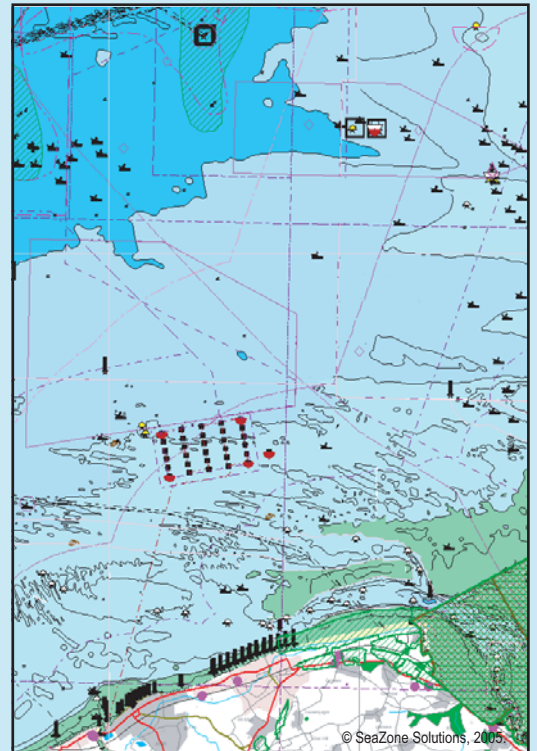
SeaZone Hydrospatial represents a sea-change in the way we think about marine geographic information. It provides users with comprehensive and intelligent mapping for a wide range of governmental and commercial activities. It provides base reference information that is continuous and rich in content. SeaZone Hydrospatial is inter-operable with terrestrial mapping, such as that from Ordnance Survey, thereby contributing to a continuous layer of geographic information that encompasses both land and sea.

Anyone who has used nautical charting as the only source of marine geographic information available to them will be aware of the irregular and missing contours, the conservative depths and the small subsets of the information available. Nautical charting is produced as an aid to navigation and is not intended to be a definitive marine map. SeaZone Hydrospatial avoids these shortcomings by providing source data that is rich in content and includes numerous features not present on charts.

SeaZone Hydrospatial is available in open formats compatible with all popular geographic information systems (GIS) and similar software. Furthermore, SeaZone provides users with all of the supporting information that is required to access the data easily and efficiently. By using SeaZone Hydrospatial to set up a spatial project, many hours of data collation, re-formatting and loading of data can be avoided, resulting in massive savings in time and money. SeaZone Hydrospatial can be stored and managed centrally within a spatial database.

SeaZone Hydrospatial is provided as six logically structured Topic Layers that provide a standard framework to which other user datasets can be added:

- Bathymetry & Elevation
- Natural & Physical Features
- Structures & Obstructions
- Socio-economic & Marine Use
- Conservation & Environmental Protection
- Climate & Oceanography



SeaZone Topic Layers

Each of the Topic Layers is divided into Themes and each Theme is broken down into Feature Types making information easy to locate and query within GIS. Each Feature Type, e.g. undersea pipelines, contains base reference properties that may be extended by including associated or application data from another source. Each feature (or object) is specified with a single object identifier which is unique. Layers of dependent information can be linked to SeaZone Hydrospatial, which acts as a base for a complete spatial data infrastructure. In the UK and Ireland, SeaZone is creating the infrastructure needed to extend the Digital National Framework offshore.

SeaZone Hydrospatial Bathymetry and Elevation Topic Layer is provided at two scale levels: 1:25 000 and 1:250 000, and as a gridded data at a resolution of 1 and 6 arcseconds (approximately 30 m and 180 m). The 1:25 000 data is inter-operable with OS MasterMap Topography Layers, whilst the 1:250 000 data is inter-operable with OS Strategi.

SeaZone Hydrospatial may be ordered for complete regional, national and user defined areas as complete ½ degree tiles (apart from Offshore 1:250,000 Bathymetry and Elevation which is supplied as 2 degree tiles). To support the definitive nature of SeaZone data, information on source and provenance is provided, along with metadata for each Topic Layer to international standards.

Datums

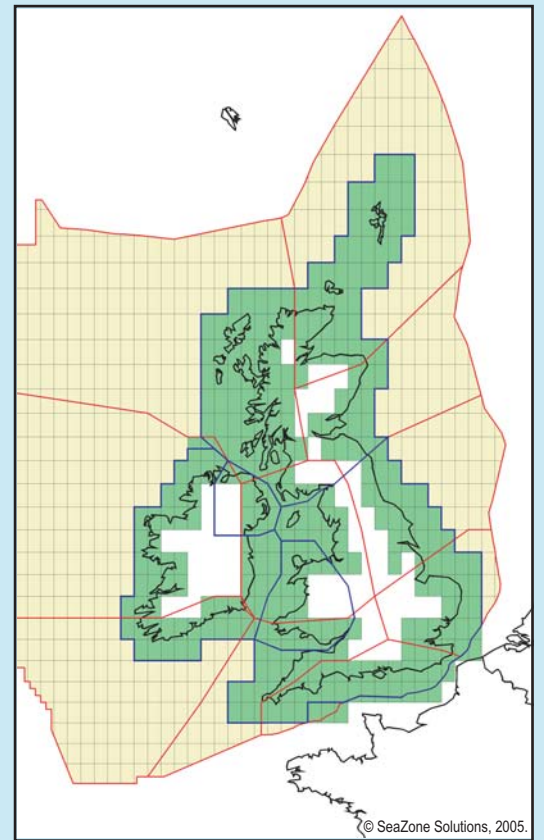
SeaZone Hydrospatial is provided referenced to the WGS84 datum and is supplied unprojected, thereby allowing the user to decide on the co-ordinate system to use. The data is made inter-operable with land mapping by using the 'Base Reference Shoreline' supplied (for Great Britain) by Ordnance Survey, which was transformed to WGS84.

Users requiring SeaZone Hydrospatial to fit exactly to data in British National Grid should use OSTN02, the transfer method recommended by Ordnance Survey, or allow SeaZone to undertake this service on your behalf. All depths and elevations are referenced to Chart Datum. SeaZone can provide these referenced to other vertical datums e.g. Ordnance Datum (Newlyn), if required, thereby creating a seamless 3-D surface from land to sea. For help and more information on transformations, please contact us.

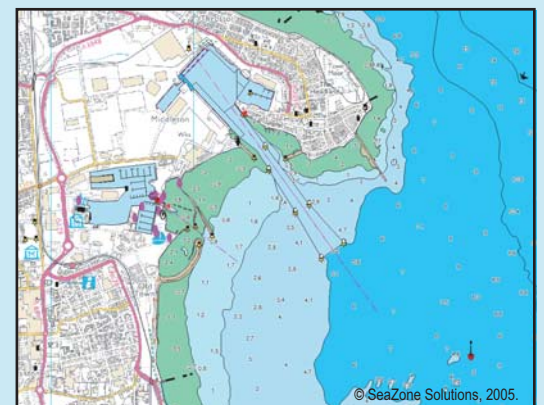
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SeaZone hydrospatial



SeaZone Hydrospatial coverage



SeaZone Hydrospatial interoperable with OS Raster data

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