



Charted Vector

This intelligent dataset is ideal for users needing access to nautical charting in an easy to use vector format which is ready for immediate use in GIS, CAD and similar applications.

The Admiralty Chart has been the mainstay for the safety of life at sea for many years, but encryption and stringent licensing conditions mean that this data is accessible only in approved electronic chart display and information systems (ECDIS).

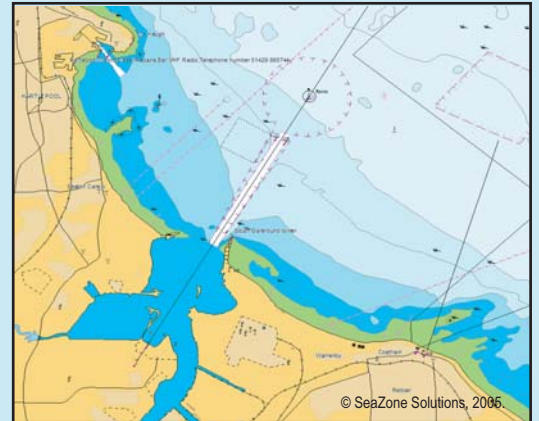
SeaZone solves these problems by supplying data captured from nautical charts in open formats for use in geographic information systems (GIS), Computer Aided Design (CAD) and similar popular software.

Charted Vector also provides an ideal digital chart background for application developers and system integrators working in the maritime environment. The data is easy to use in GIS on the desktop or within webGIS on a corporate intranet.

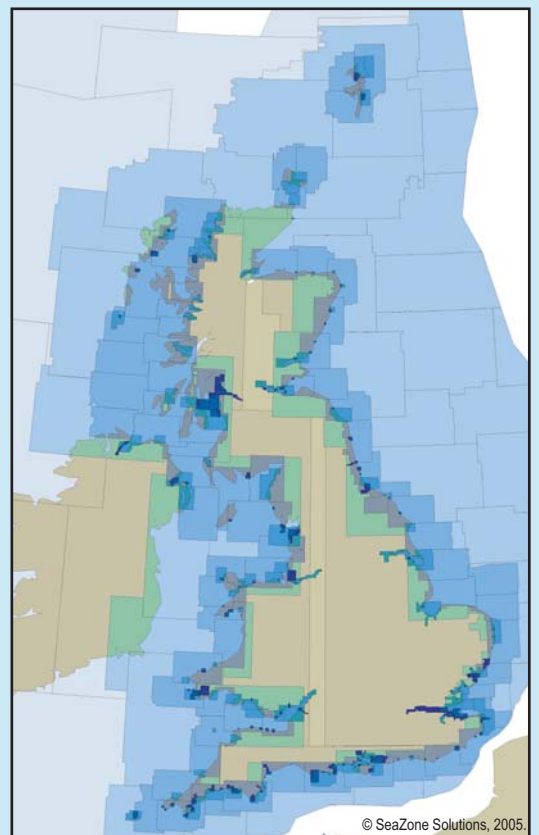
An extension to the standard licensing conditions means that the data can be published on the Internet, either as static images or within an Internet mapping application (with some restrictions).

The data comes fully attributed and supplied with symbology for most major systems designed for immediate use within GIS, webGIS and other Internet mapping applications or for loading onto geospatial databases, without the need for additional software.

SeaZone Charted Vector includes the features present on a navigational chart and is supplied with all of the underlying data specified within the International Hydrographic Organisation (IHO) standard for electronic charting (S-57). The data is ideal for users requiring a digital facsimile of a paper or electronic navigational chart that can be used for 'situation awareness' and similar applications.



SeaZone Charted Vector



SeaZone Charted Vector coverage in UK Waters

Formats and Structure

SeaZone Charted Vector is supplied as standard in ESRI Shapefile, MapInfo TAB and Cadcorp BDS formats. Other formats are available on request. The data is supplied with nautical symbology and GIS project files for all popular GIS software, making it easy and efficient to use.

SeaZone Charted Vector is structured in five scale bands, reflecting the way the data is produced by hydrographic offices. To make it easier for users, SeaZone supplies the different scale levels of Charted Vector in two bands: Offshore and Coastal. Data may be ordered by geographical area or by Admiralty Chart number and is supplied in minimum ½ degree and 2 degree tiles for Coastal and Offshore scale levels, respectively.

Availability

SeaZone Charted Vector is based on official vector data supplied by national hydrographic offices. Although there is complete coverage of the majority of the UK, and some overseas areas, many areas of the world have yet to be captured. Privately produced vector data found in some non-official navigational products is captured and converted to a much lower standard and hence is not used by SeaZone in its Charted Vector dataset.

Benefits of SeaZone Charted Vector

- Essential data for applications where a nautical chart baseline is required
- Full layer control for user defined display
- Fully attributed feature layers with IHO S-57 compliant information
- GIS projects and nautical symbology supplied as standard
- Two scale level bands for offshore and/or coastal use
- Open formats ready for immediate use in GIS formats (e.g. ESRI Shapefile)
- Supplied under licence for internal business use
- Electronic publication licensing available
- All data referenced to WGS84, with other datums available on request

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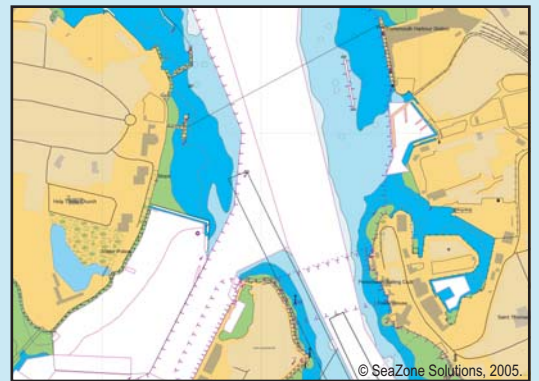
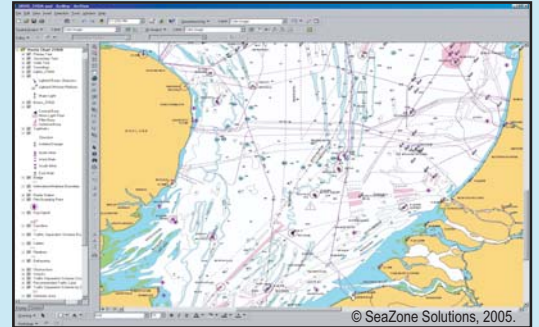


Chart Precision and Datums

All data is referred to the World Geodetic System 1984 (WGS84) and depths to Chart Datum (approximate equivalent to Lowest Astronomical Tide). A chart precision of better than or equal to 0.3 mm gives the precision values shown below:

Level	Approximate Scale	Precision
Offshore	1:500,000	150 m
	1:150,000	45 m
Coastal	1:50,000	15 m
	1:15,000	4.5 m
	1:5,000	1.5 m

SeaZone Solutions Limited is a company owned by Admiralty Holdings Limited, which is a company wholly owned by the Secretary of State for Defence and operated on his behalf by the United Kingdom Hydrographic Office (UKHO)



Creating a Sea-Change in Digital Mapping for the Marine Environment and Coastal Zone