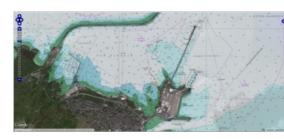
## Raster Charts Entering GIS Fra



OceanWise, UK, has developed a set of specialist tools and methodologies to identify specific content from raster charts. By removing all content to the landward side of the coastline, OceanWise has created a product which can be used seamlessly alongside terrestrial data and as a result is a more consistent and useful dataset for customers.

Ever since the first paper nautical chart was scanned and georeferenced over three decades ago, the geographic information community has struggled to use them efficiently within GIS software and map making solutions. This is due firstly to the chart being designed for use as a finished map in isolation. It contains as part of the output, printed metadata such as source data diagrams, compass roses, notices to mariners and tidal diamond tables to

name but a few. These are usually drawn near the margins or over areas of lesser navigational interest, usually over the top of land features.

## **Conflict with Data Layers**

When raster charts are loaded in a GIS, these superfluous items often conflict with other data layers producing a cluttered and undesirable visual result. Secondly, charts are not produced to a consistent set of scales or bounded to a strict grid or tile set. Instead they are drawn to a set of defined 'usage bands', which dictate when they should be used on-board ship, dependent on whether it is at the berthing, pilotage or passage making stages of a sea-going journey. The result is charts that overlap and depict different information to the user based on the related usage band; often with multiple depictions of a single real world feature. OceanWise's product Raster Charts XL aims to solve this issue.

The new toolset is no longer bound by the limitations when working with raster charts. As well as removing land features, there is potential to remove other features that are not required within the marine component of the chart such as the compass rose which is of little use within a GIS. The simple three-tone depth shading allowing depth soundings and other marine features can also be removed to remain alongside a bathymetry surface of the users' choice. With these tools the raster chart remains a powerful data source and continues to have a place in the future of marine GIS data. As part of the initial release also all scale bars, info blocks and tidal diagrams have been removed.

OceanWise is now rolling out Raster Charts XL as an optional upgrade to its existing Raster Chart data products initially for UK waters before focusing on updating its entire global holdings.

https://www.hydro-international.com/content/news/a-new-era-for-raster-charts-from-oceanwise