

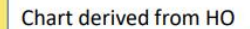
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2.5.2. Examples of industry using data that outperform HO data.



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own charts are easily recognizable due to the steps of bathys, the frequency of spot soundings, the detail of objects along the coastline (eg rocks) as well as how the Geonames are written (DERIVED CHART – Own Chart)



Proprietary chart



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EXAMPLES OF BETTER DATA THAN HO DATA

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- With proprietary charts has higher margins, more freedom on defining prices, no limits on using the cartography, more flexibility to create wider product boundaries, reduced administrative expenses for royalty calculation and reporting.
- 100% of claimed waters of Spain, Portugal, Belgium, Netherlands, Cyprus, Croatia*, Slovenia, Montenegro, Malta, Bermuda, Bahamas, Turks and Caicos, Hong Kong, Gibraltar, Cape Verde are covered with proprietary charts by
- In addition there are other areas of France (open waters in Med and Atlantic including overseas territories in Caribbean, Africa and Pacific), Italy (open waters + coastal waters in Southern Islands around Sicily, Venice and Marano lagoon), Greece (open waters), UK South (coastal waters from Bude in Cornwall to the mouth of Thames river), Norway (open waters), Australia (open waters).

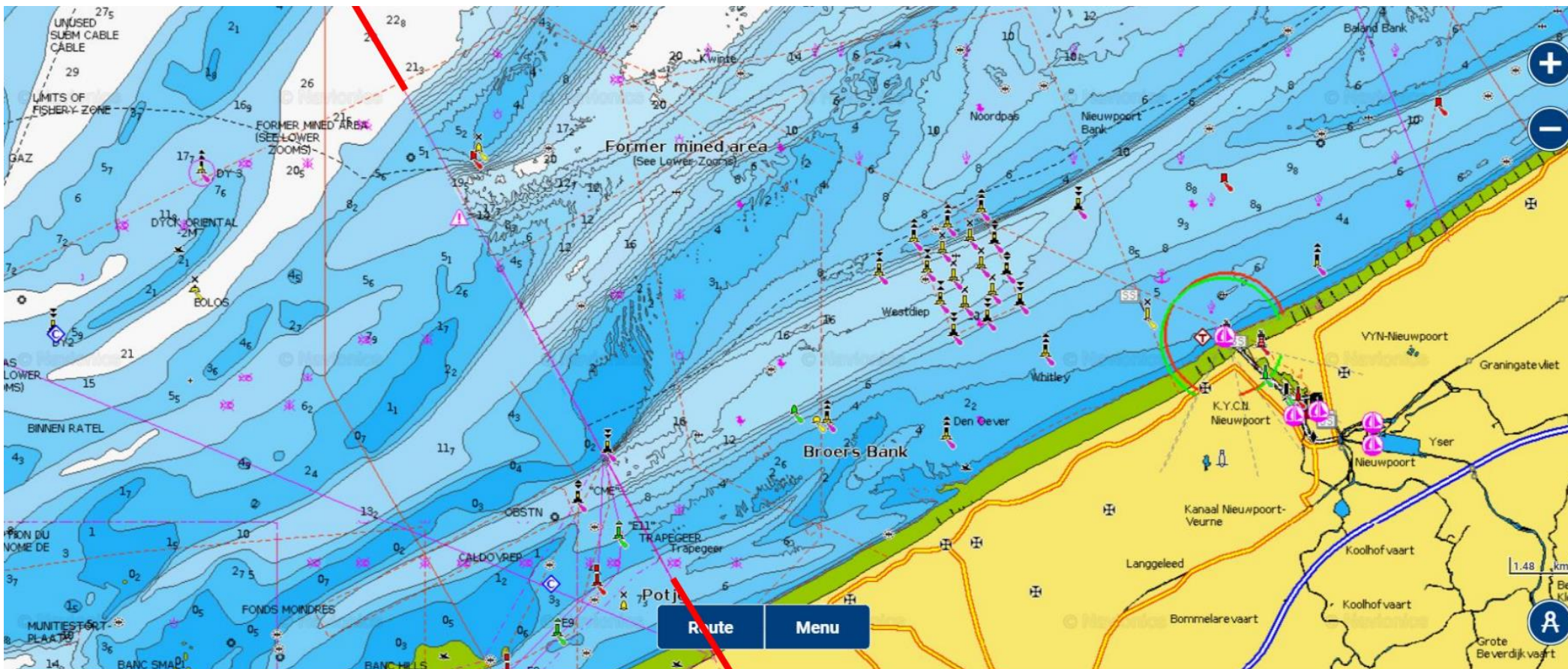


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MANUFACTURER 1 (France/Belgium)



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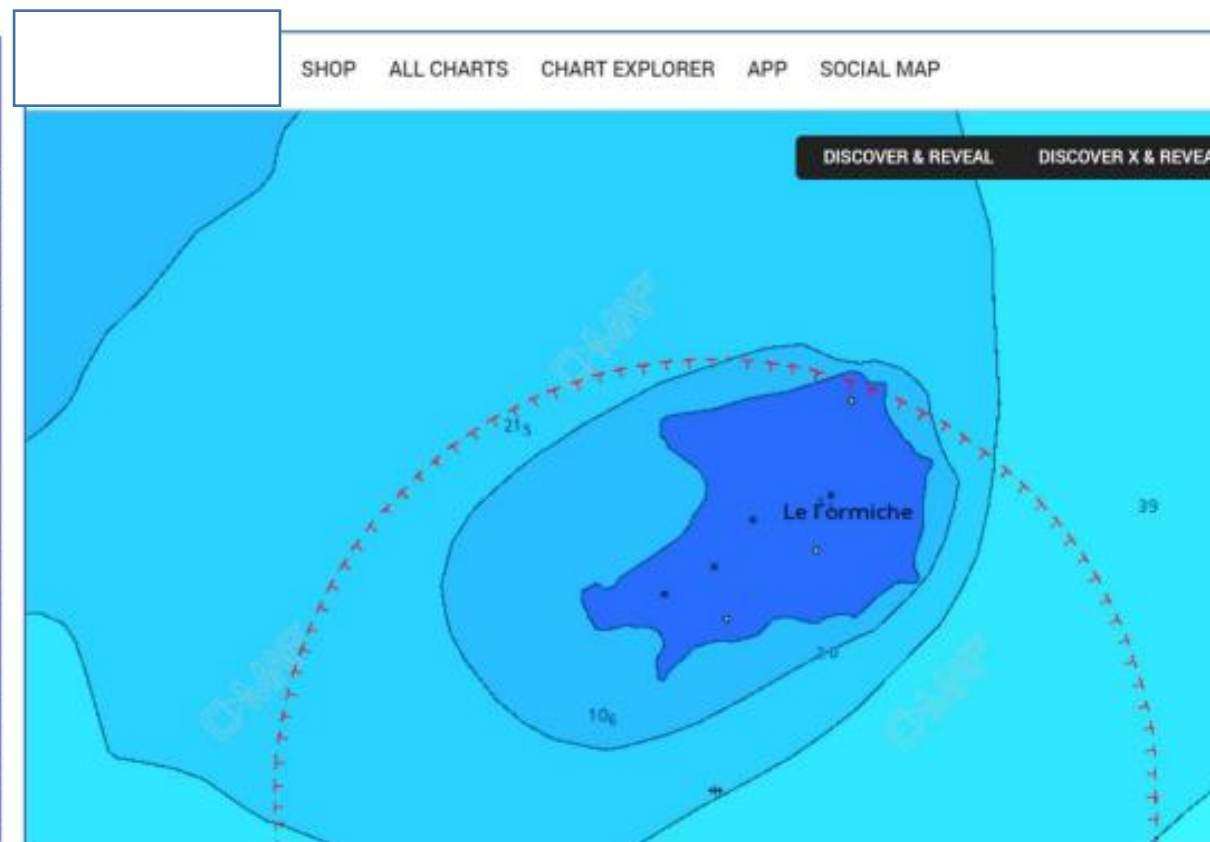
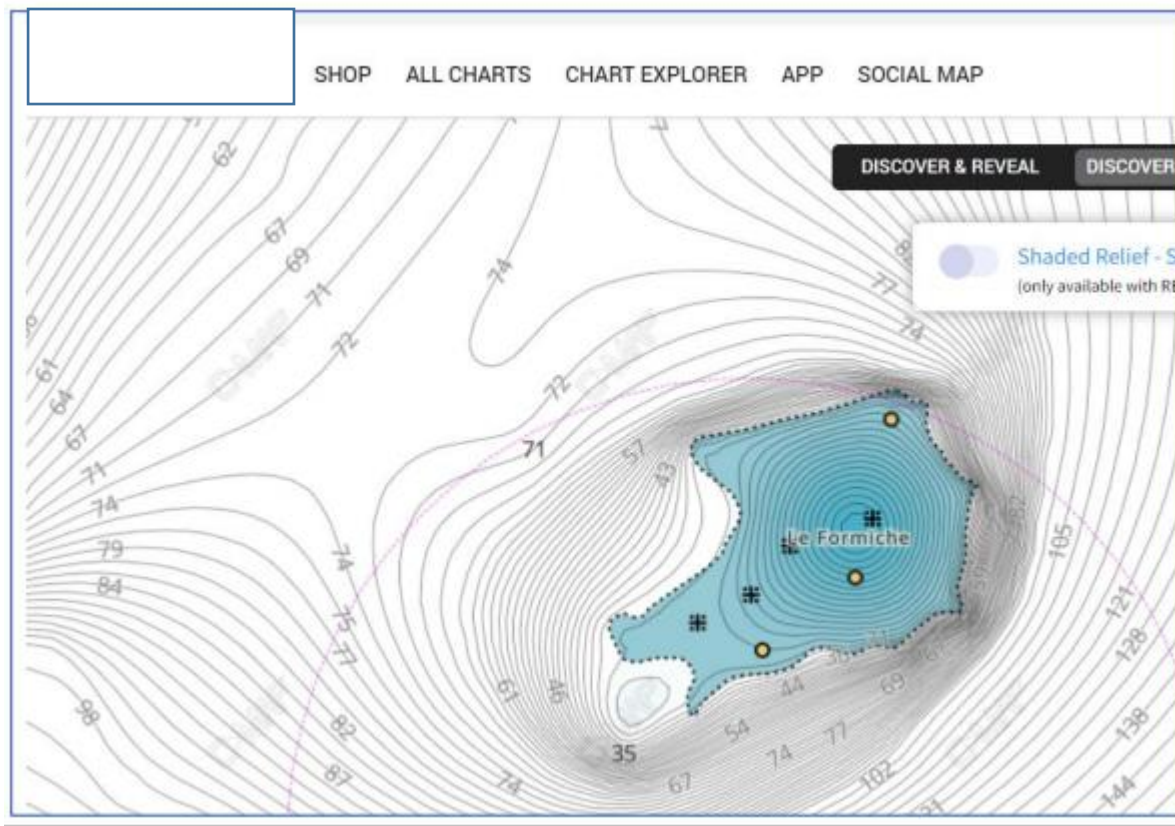


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MANUFACTURER 2 (ITALY)





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[illegible]

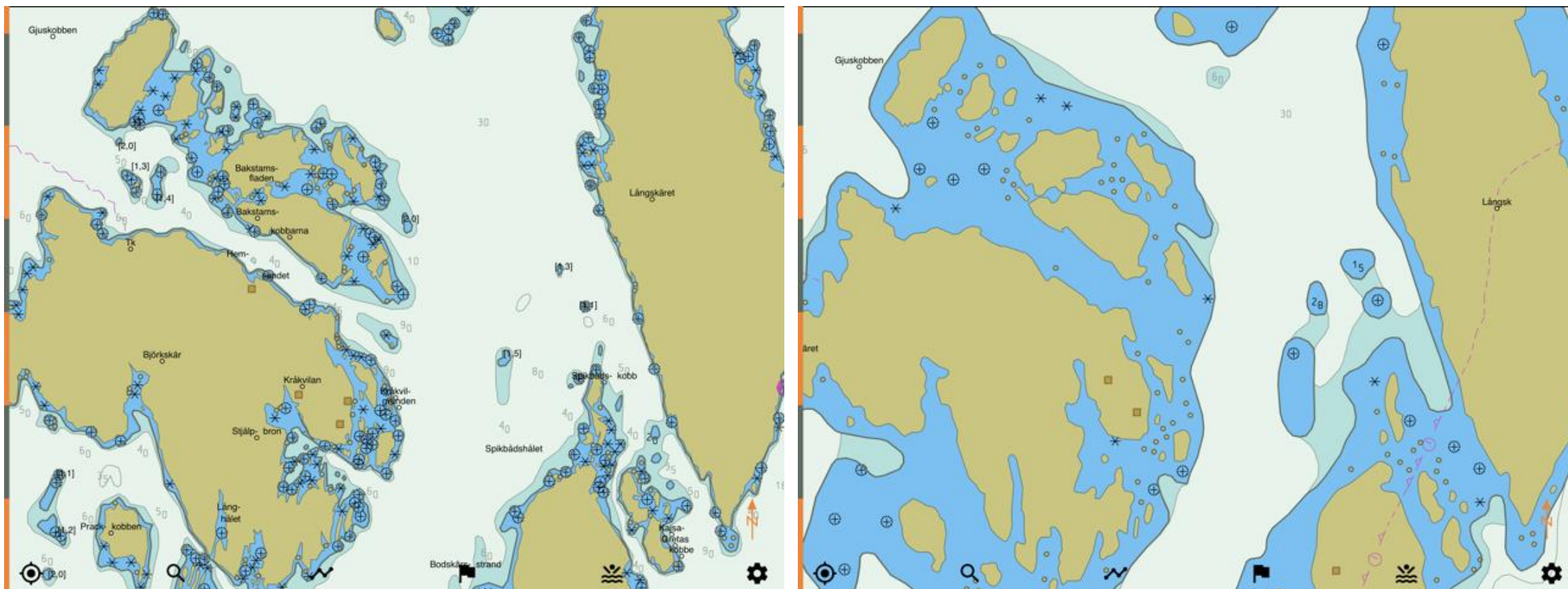


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MANUFACTURER 3 (Sweden)



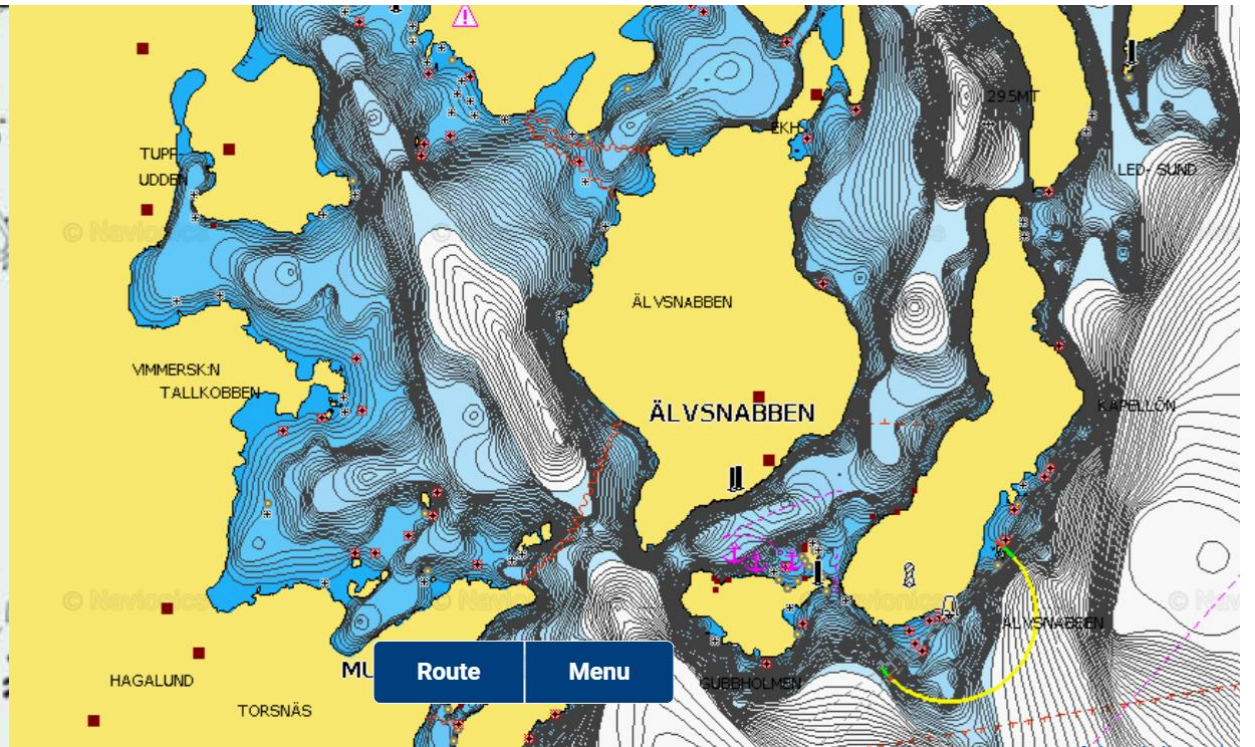


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MANUFACTURER 1 (Sweden)



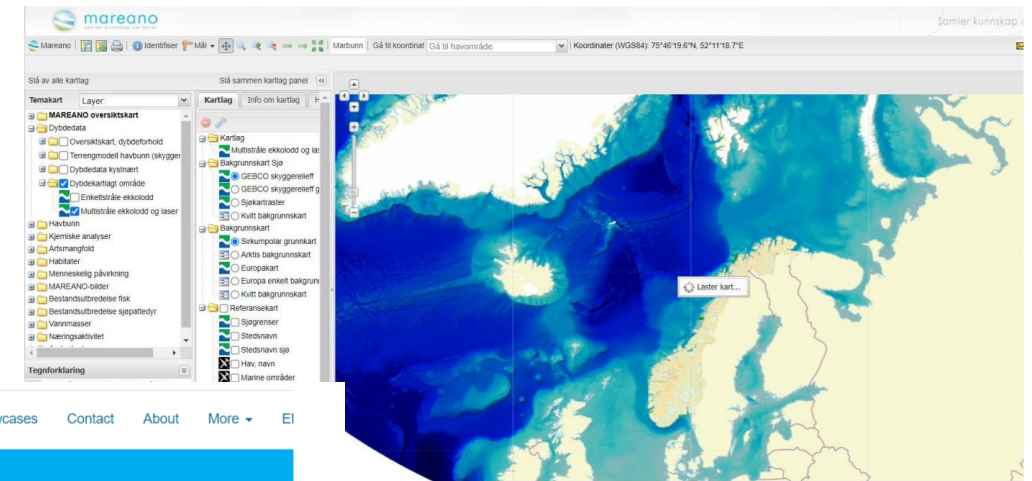
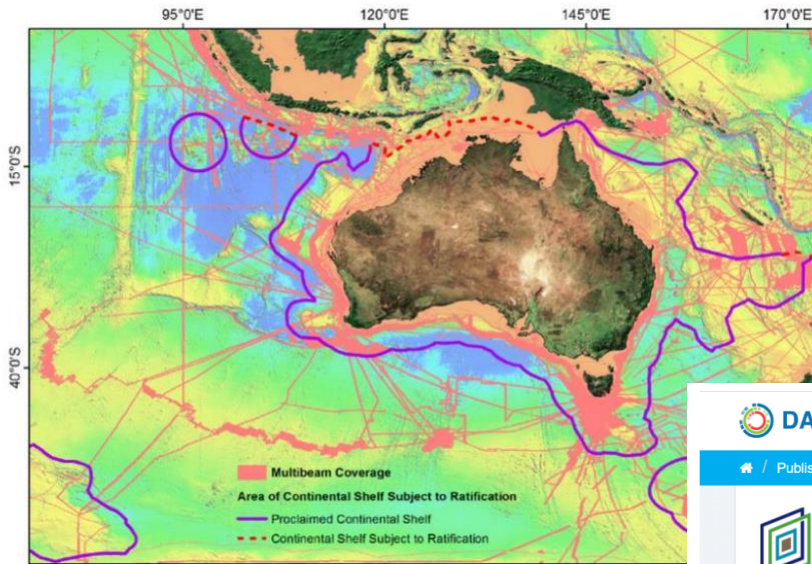


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MANY OPEN PORTALS USED WITH DATA IN SOME CASES FROM HO's
BUT USED IN A WIDER RANGE BY INDUSTRY THEN HO's



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multibeam

20 datasets found for "multibeam" Order by Relevance

INFOMAR Seabed Survey Coverage 1996-2020 (Multibeam)

Geological Survey Ireland

The Integrated Mapping For the Sustainable Development of Ireland's Marine Resource (INFOMAR) programme is a joint venture between the Geological Survey of Ireland (GSI) and the Marine Institute

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Hydrographic
Organization

EXTENSIVE DATA COLLECTION EXAMPLE FROM SPAIN 1

Source	Coverage	Comment
Geonames.org	Worldwide	Land geonames, www.geonames.org
NGA geonames	Worldwide	Coastal geonames , https://geonames.nga.mil/geonames/GNSHome/index.html
Gebco Gazetteer of Undersea	Worldwide	Underwater geonames , https://www.gebco.net/data_and_products/undersea_feature_names/
Emodnet Seabed	Europe	Seabed habitats https://emodnet.ec.europa.eu/en/seabed-habitats
EEA	Europe	Protected areas, www.eea.europa.eu/themes/biodiversity/natura-2000
Rule10 (former Claymoreclan)	Worldwide	Traffic Separation Schemes, www.rule10digital.com
Sigcables	Worldwide	Submarine cables, www.sigcables.com/index.php/apropos
Ministerio Fomento, Puertos del Estado	Spain	Tides, currents, buoys, www.puertos.es/en-us
Ministerio Agricultura, Alimentacio y Medio Ambiente, (MAGRAMA)	Spain	Protected Areas, www.mapa.gob.es/es/pesca/temas/proteccion-recursos-pesqueros/reservas-marinas-de-espana/default.aspx
Ministerio Transportes, Movilidad y Agenda Urbana	Spain	Hydrography, coastline, beaches, roads, lidar, ortophoto www.idee.es/csw-codsi-idee/srv/spa/catalog.search#/home , https://pnoa.ign.es/web/portal/inicio
Gobierno de Cantabria	Spain, Cantabria Region	Protected Areas, fishing areas, beaches https://turismodecantabria.com/disfrutala/playas , https://mapas.cantabria.es/
Confederación Hidrográfica del Segura (CHS)	Spain	Hydrography, geonames, roads, protected areas www.chsegura.es/portalthsic/apps/webappviewer/index.html?id=db44c41d2c7448409e9c4bab590e3828&codif=&nombre=Publico

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EXTENSIVE DATA COLLECTION EXAMPLE FROM SPAIN 2

Source	Coverage	Comment
Confederación Hidrográfica del Guadiana (CHG)	Spain, Guadiana Region	Hydrography, geonames, nautical chart of Alqueva lake (Spanish coverage), info on Guadiana river, www.chguadiana.es/visorCHG
ATLAS Tenerife	Spain, Tenerife	Marine contours, geonames , https://ide.tenerife.es/portalweb
Xunta de Galicia Min.Industria, Energía y Turismo	Spain, Galicia	Marine protected areas , Geonames http://mapas.xunta.gal/visores/conservaciondanatureza/
Gobierno Dep. Medio Ambiente, Planificacion Territorial, Agricultura y Pesca, Gobierno Vasco	Spain, Pais Vasco	Hydrology , Protected Areas, Lakes, marine contours, lidar https://www.geo.euskadi.eus/geobisorea
Institut Cartogràfic i Geològic de Catalunya (ICGC)	Spain, Catalunya	Orthophotos, coastline, www.icgc.cat/Aplicacions/Visors
Generalitat da Catalunya, Departament de Territori i Sostenibilitat	Spain, Catalunya	Parks, https://parcsnaturals.gencat.cat/ca/inici

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EXTENSIVE DATA COLLECTION EXAMPLE FROM SPAIN 3

Source	Comment
Agencia Pública de Puertos de Andalucía (51marinas)	www.puertosdeandalucia.es
Port Tarragona	www.porttarragona.cat
Port Authority of Las Palmas	https://www.palmasport.es/en/port-authority/
Autoridad Portuaria de Valencia	https://www.valenciaport.com/
Club de Regatas Mazarrón	www.crmazarron.com
Club Nautico Lo Pagán	https://cnlp.es/
MDL Marinas (Sant Carles Marina)	https://www.mdlmarinas.co.uk/marinas/mdl-sant-carles-marina/
Marina Vela Barcelona	https://marinavela.com/en/
Real Club de Regatas de Cartagena	https://clubregatascartagena.es/
Puerto de Addaya	https://www.puertoaddaya.com/
Calero Marinas (Puerto Calero, Marina Lanzarote, Marina La Palma, Marina Jandia)	www.caleromarinas.com
El Monte Real Club de Yates de Bayona	https://www.mrcyb.es/
Puerto de Castellon	www.portcastello.com
Puerto Tazacorte	www.puertotazacorte.com