UN-GGIM-WG on Marine Geospatial Information

NOAA Open House on Nautical Cartography – July 2018

Introduction

- Established by the Committee of Experts through UN-GGIM decision 7/111, noting the need for technical expertise and broad representation

- Provides a high level forum to encourage enhanced global cooperation to address issues related to the availability and application of marine geospatial information – including inland water bodies and waterways, coastal zones, seas and oceans

Work Plan Highlights

- Recognize Capacity Development Initiatives which may Benefit from WG Activities
- Liaise with Relevant Organizations including IHO and GGIM Regional Entities
- **Recognize and endorse established standards for geospatial information in marine and inland waters**
- Produce Communications Plan
- Produce Use Case Report – due in 2020

International Standards

A Guide to the Role of Standards in Geospatial Information Management

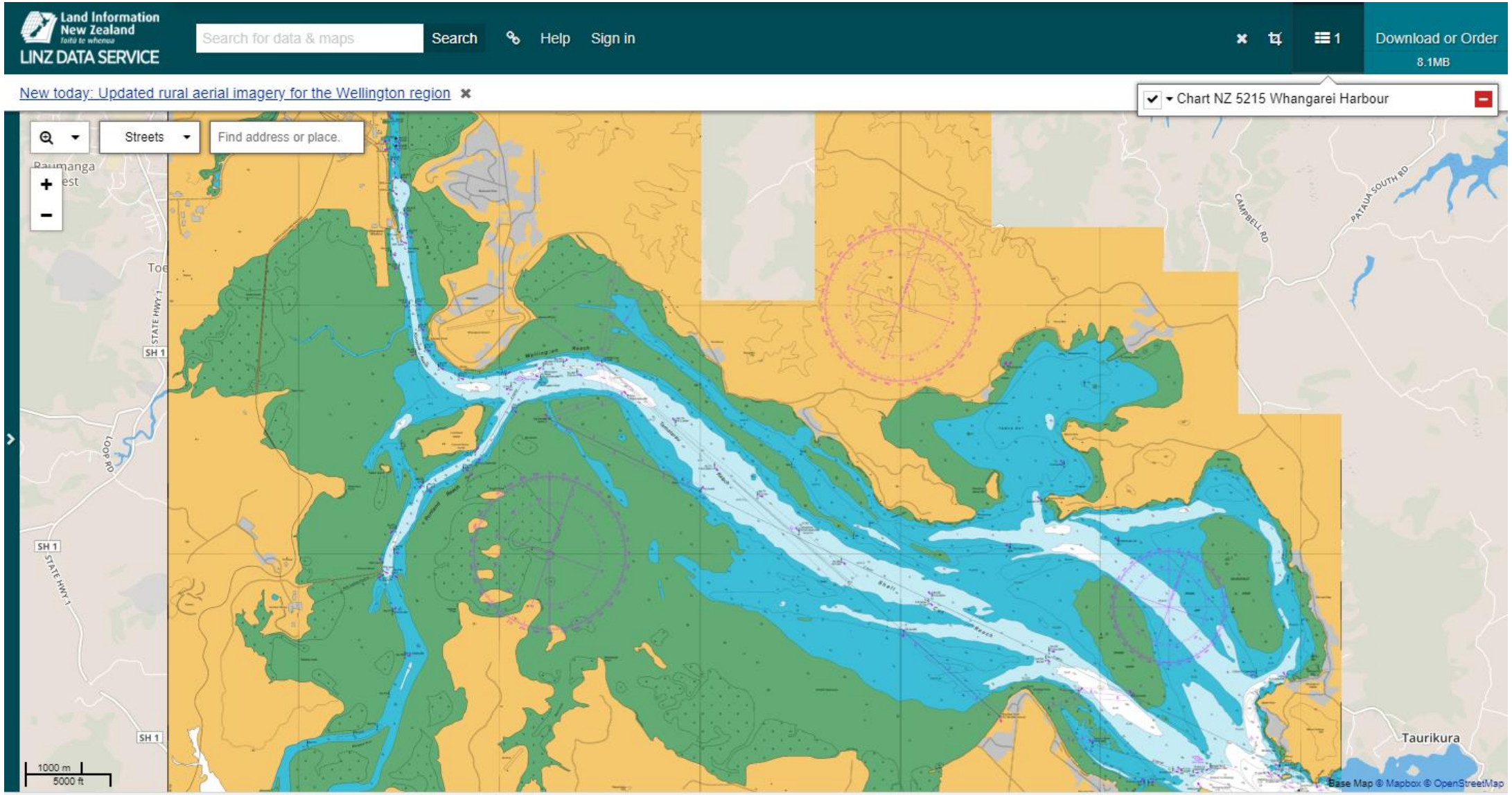
ISO/TC 211
Geographic information/Geomatics

S-101 ENC
S-102 Bathymetric Surface
S-103 Sub-surface Navigation
S-104 Water Level Information for Surface Navigation
S-111 Surface Currents
S-121 Maritime Limits and Boundaries
S-122 Marine Protected Areas
S-123 Radio
S-124 Navigational Warnings
S-125 Navigational Services
S-126 Physical Environment
S-127 Traffic Management
S-128 Catalogues of Nautical
S-129 Under Keel Clearance Management (UKCM)
S-201 Aids to Navigation Information
S-210 Inter-VTS Exchange
S-230 Application Specific Messages
S-240 DGNSS Station Almanac
S-245 eLoran ASF Data
S-246 eLoran Station Almanac
S-247 Differential eLoran Reference Station Almanac
S-401 Inland ENC
S-402 Bathymetric Inland ENC
S-411 Ice Information
S-412 Weather Overlay

Use Case Report

Report to show the benefits of open (readily available) marine geospatial information – examples…

- Marine data needed for response to disasters and the benefit of having data readily available
- Data needed for determining where to best harvest wind energy and the associated economic impacts
- Nautical charting data for use in mobile technology to assist small island reef fisherman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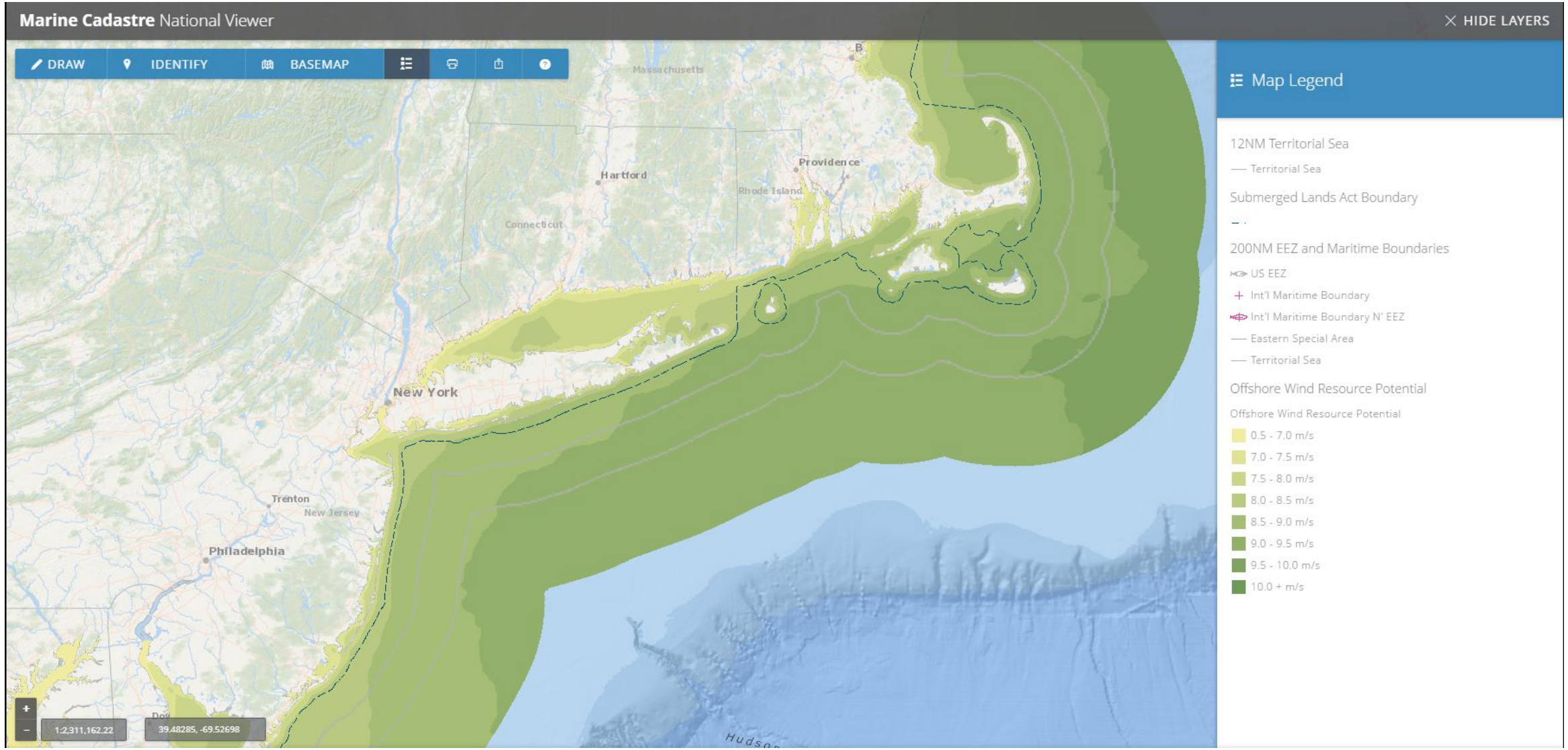
Marine Cadastre National Viewer
HIDE LAYERS
DRAW
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BASEMAP
Massachusetts
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Providence
Rhode Island
Connecticut
New York
Trenton
New Jersey
Philadelphia
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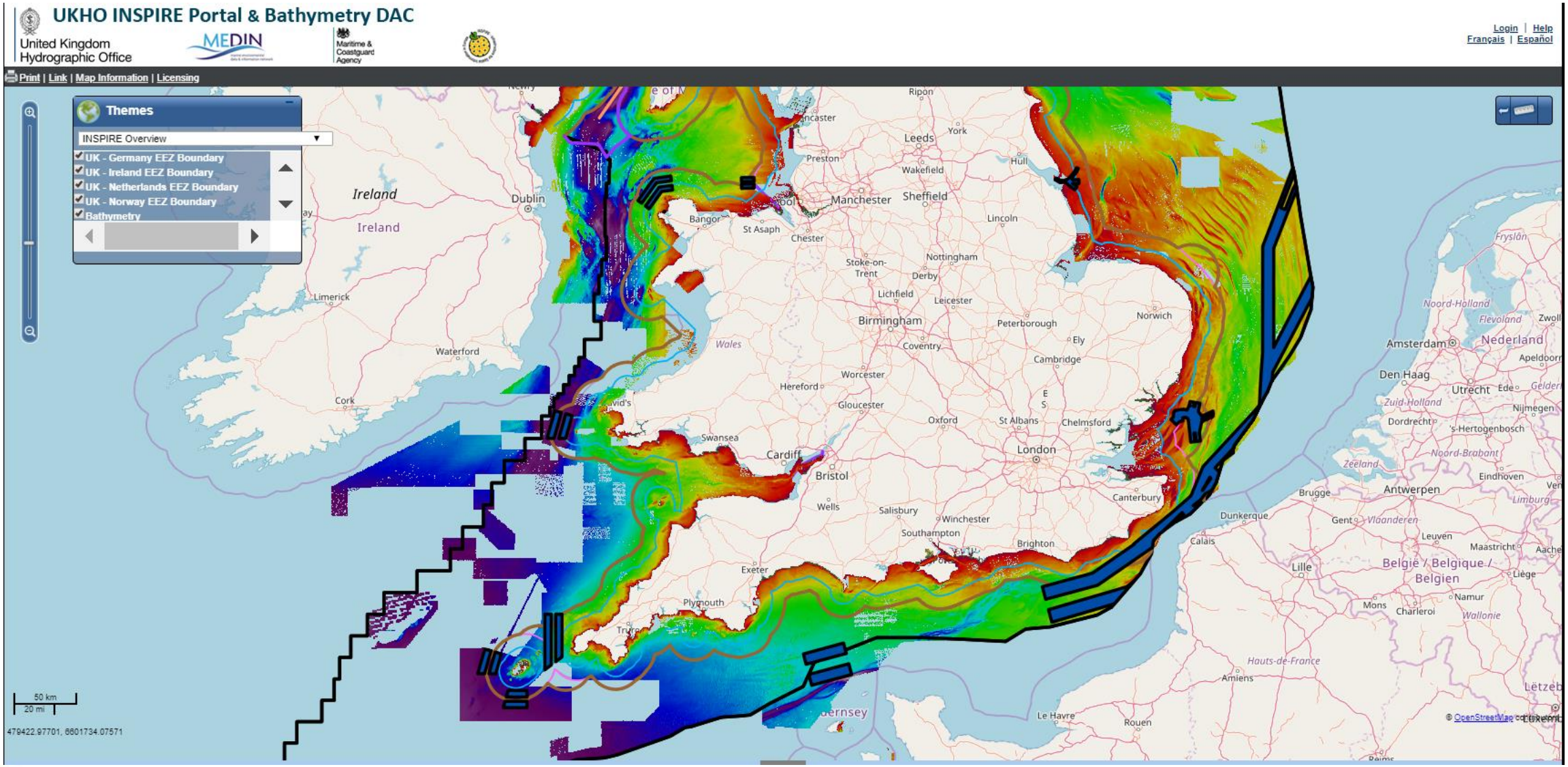
39.48285, -69.52698
Map Legend
12NM Territorial Sea
Territorial Sea
Submerged Lands Act Boundary
200NM EEZ and Maritime Boundaries
US EEZ
Int'l Maritime Boundary
Int'l Maritime Boundary N' EEZ
Eastern Special Area
Territorial Sea
Offshore Wind Resource Potential
Offshore Wind Resource Potential
0.5 - 7.0 m/s
7.0 - 7.5 m/s
7.5 - 8.0 m/s
8.0 - 8.5 m/s
8.5 - 9.0 m/s
9.0 - 9.5 m/s
9.5 - 10.0 m/s
10.0 + m/s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United Kingdom Hydrographic Office
MEDIN
Maritime & Coastguard Agency
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Themes
INSPIRE Overview
UK - Germany EEZ Boundary
UK - Ireland EEZ Boundary
UK - Netherlands EEZ Boundary
UK - Norway EEZ Boundary
Bathymetry
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Le Havre
Rouen
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Wallonie
Noord-Holland
Zuid-Holland
Noord-Brabant
Zeeland
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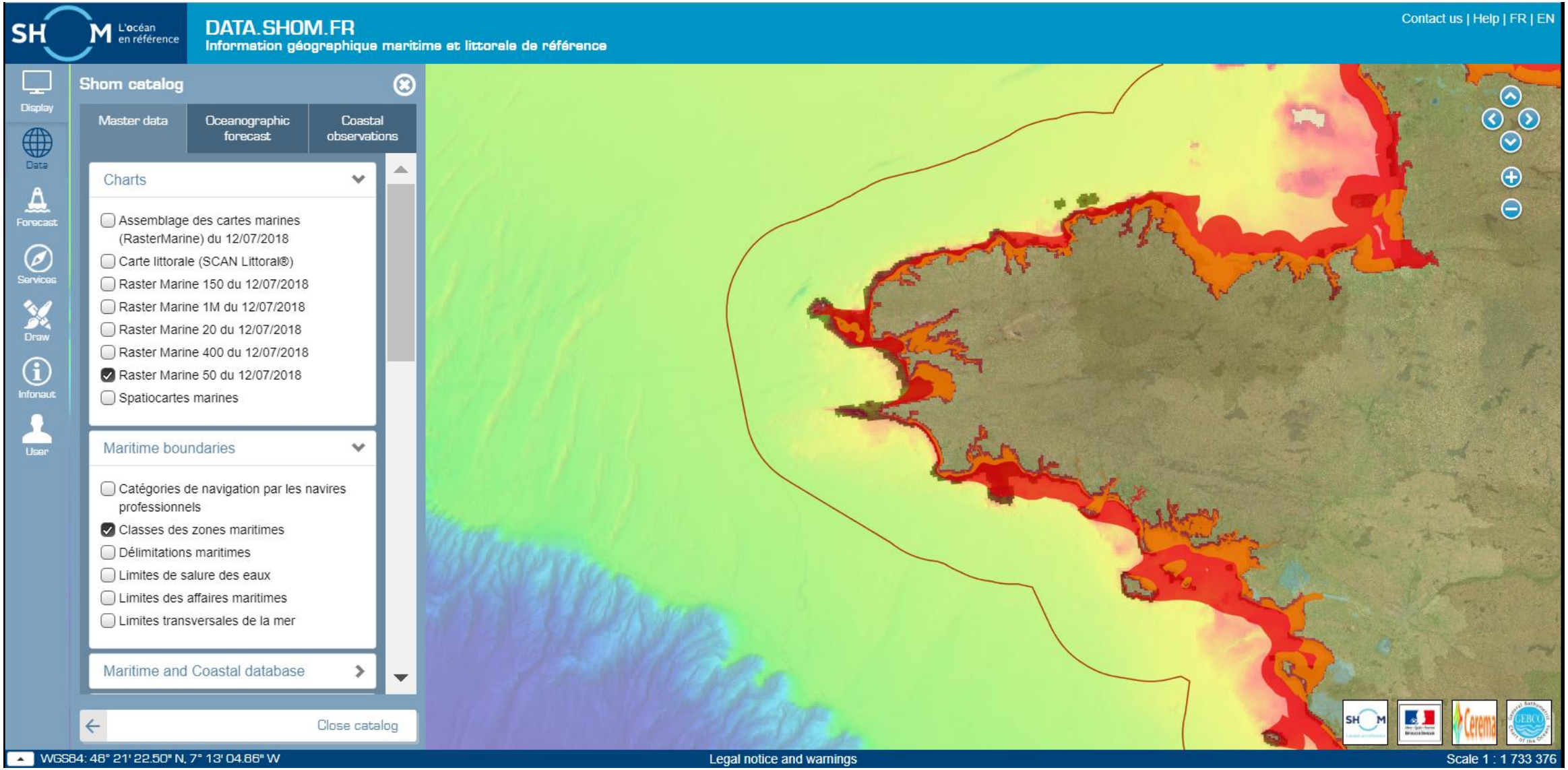
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Display
Data
Forecast
Services
Draw
Infonaut
User
Shom catalog
Master data
Oceanographic forecast
Coastal observations
Charts
Assemblage des cartes marines (RasterMarine) du 12/07/2018
Carte littorale (SCAN Littoral®)
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Spatiocartes marines
Maritime boundaries
Catégories de navigation par les navires professionnels
Classes des zones maritimes
Délimitations maritimes
Limites de salure des eaux
Limites des affaires maritimes
Limites transversales de la mer
Maritime and Coastal database
Close catalog
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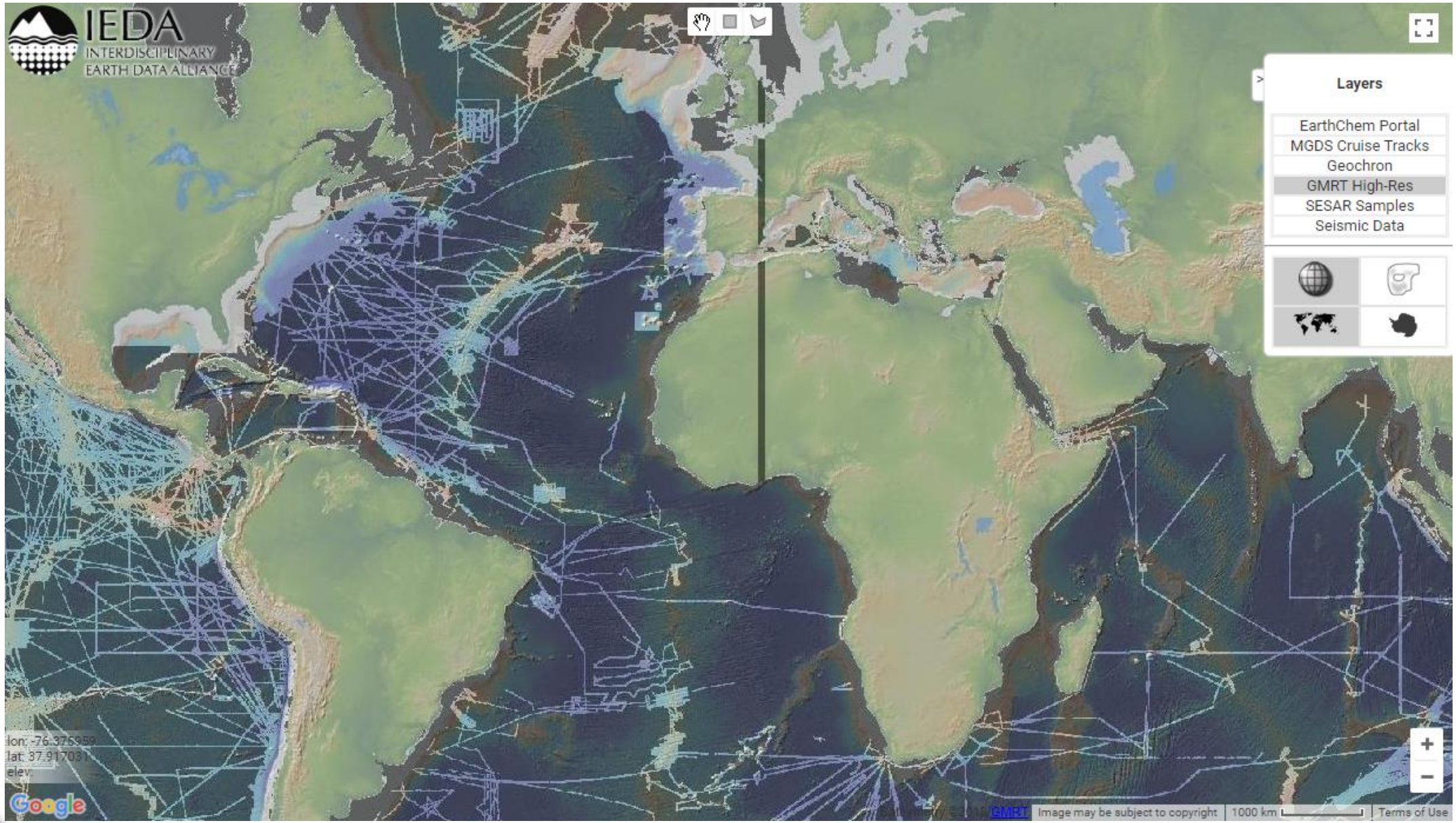
IEDA
INTERDISCIPLINARY
EARTH DATA ALLIANCE
Layers
EarthChem Portal
MGDS Cruise Tracks
Geochron
GMRT High-Res
SESAR Samples
Seismic Data
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lat: 37.917031
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NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Bathymetric Data Viewer

NOAA > NESDIS > NCEI (formerly NGDC) > Maps > Bathymetry

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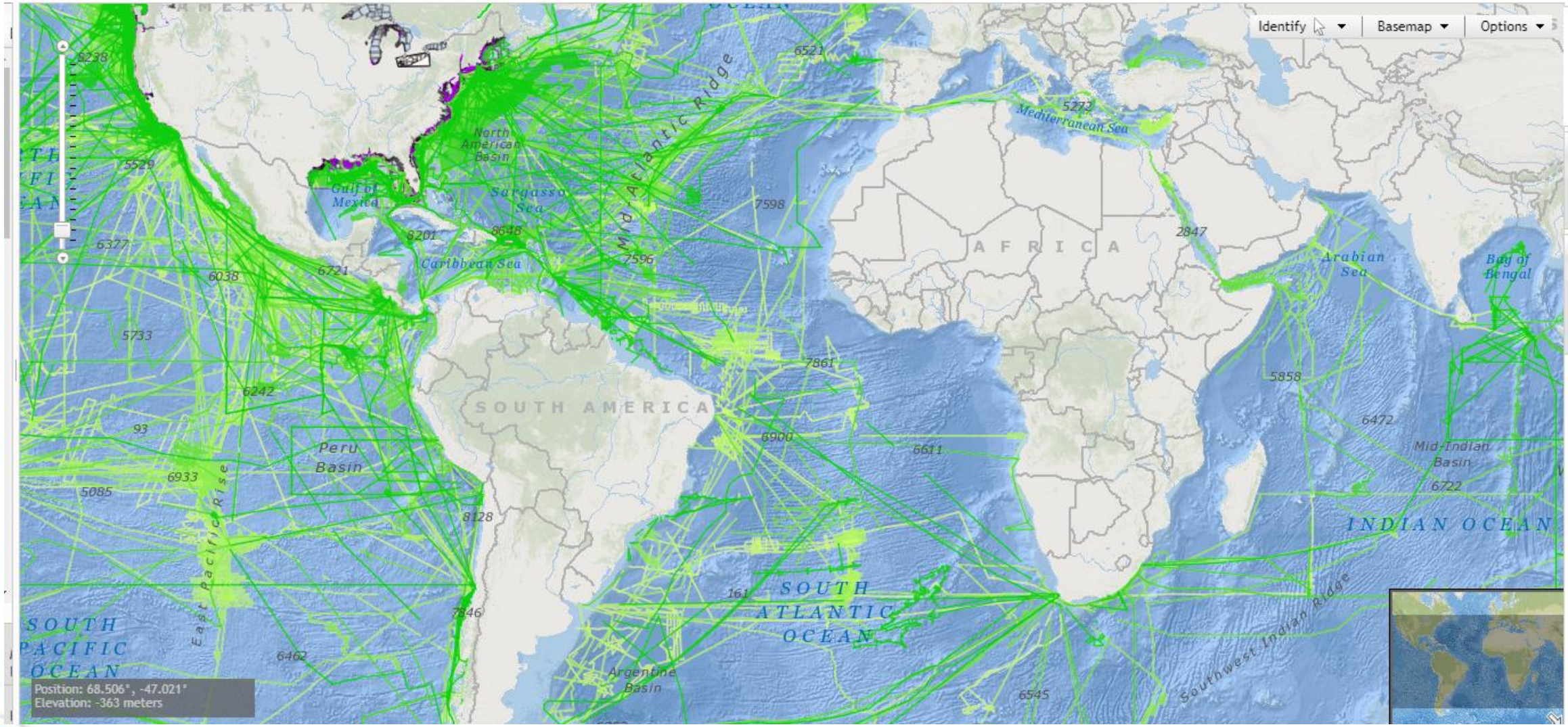
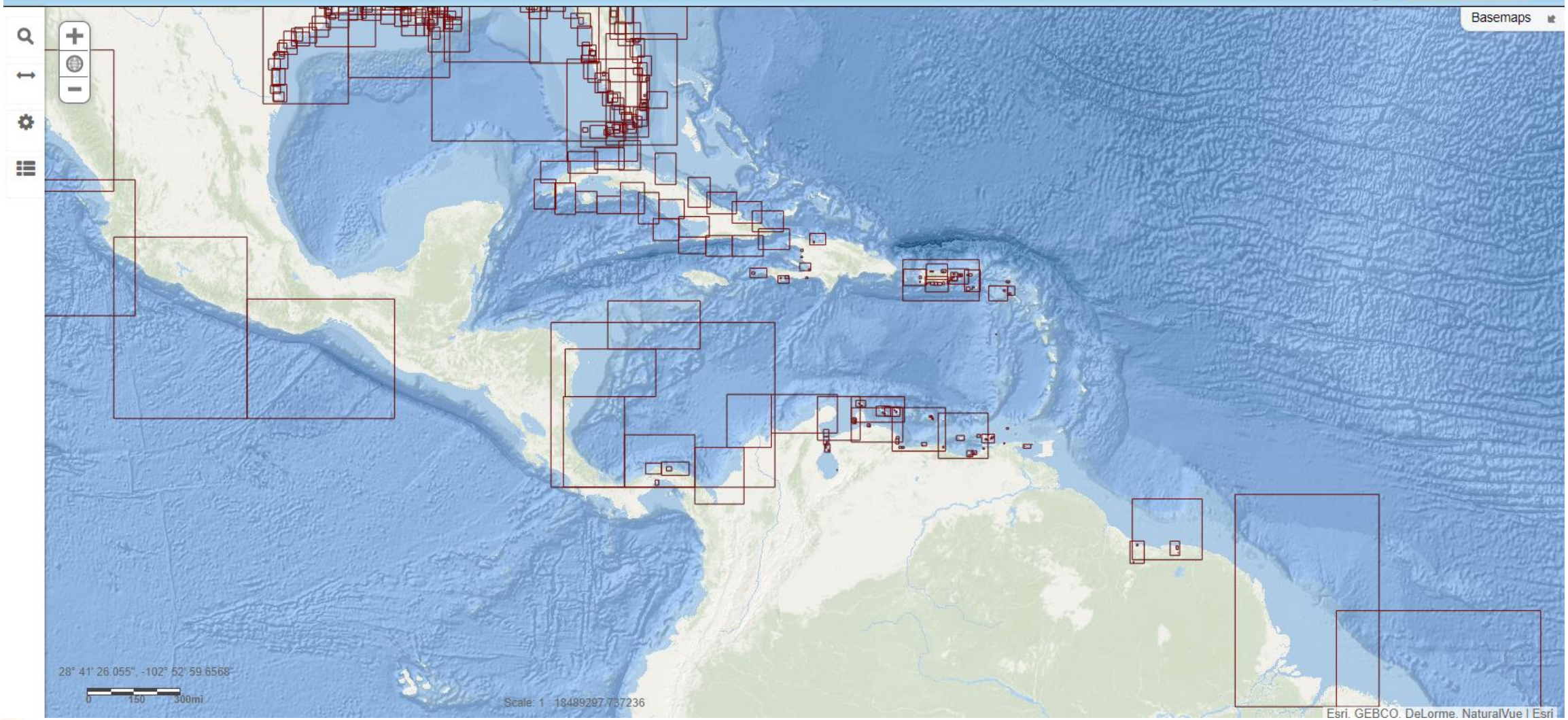
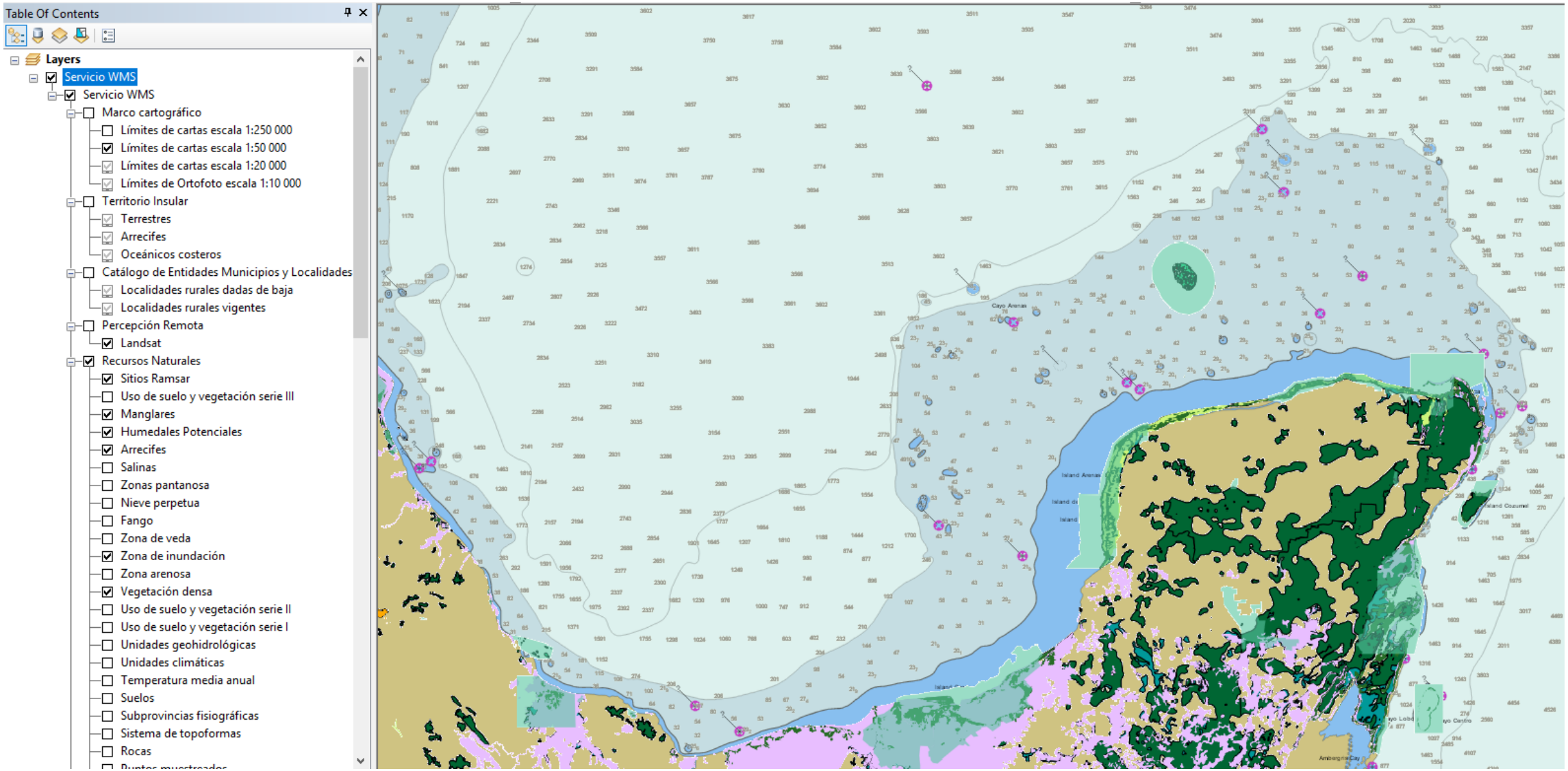


MACHC ENCOnline

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Membership – Current Composition

13 Member States
2 UN-GGIM Private Sector Network Members (Esri and Ocean Wise)
The International Hydrographic Organization
Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs, United Nations

co-Chairs – Burkina Faso and United States of America

First Expert Meeting

Scheduled in conjunction with the International Hydrographic Organization's Marine Spatial Data Infrastructure Working Group

March 7 – 9, 2019
Busan, Republic of Korea

Thank You