

UN-GGIM-WG on Marine Geospatial Information



UN-GGIM

United Nations Committee of Experts on
Global Geospatial Information Management

Working Group on
Marine Geospatial Information

Positioning geospatial information to address global challenges

ggim.un.org

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



- 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

A Guide to the Role of Standards in
Geospatial Information Management

ISO/TC 211

Geographic information/Geomatics



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Use Case Report

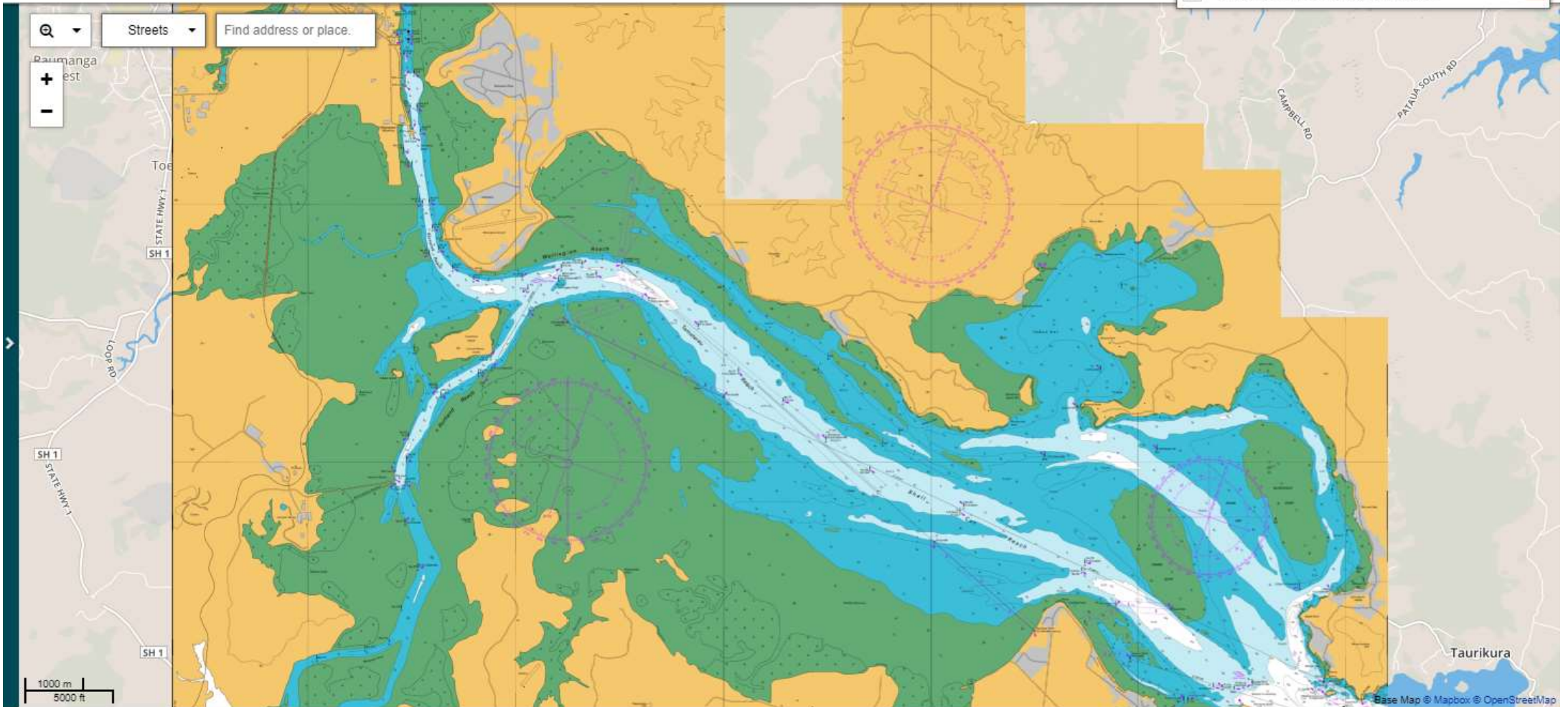
Report to show the benefits of open (readily available) marine geospatial information – examples...

- Arctic Spatial Data Infrastructure
- 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



New today: [Updated rural aerial imagery for the Wellington region](#) 

 Chart NZ 5215 Whangarei Harbour 





Bathymetric Gridded Data Index

CHS offers 500-metre bathymetric gridded data for users interested in the topography of the seafloor. This data provides seafloor depth in metres and is accessible for download as predefined areas.

[View on Map](#)

Publisher - Current Organization Name: Fisheries and Oceans Canada
Licence: [Open Government Licence - Canada](#)

Resources

Resource Name	Resource Type	Format	Language	Links
Bathymetric Gridded Data Index	Web Service	ESRI REST	English French	Access
Bathymetric Gridded Data Index	Web Service	ESRI REST	English French	Access
Bathymetric Gridded Data Index	Dataset	SHP	English French	Access

Have your say



[Rate this dataset](#)
[Comment\(s\)](#)

Additional Information

Contact Email: chsinfo@dfo-mpo.gc.ca

Keywords:

[Bathymetry](#) [Depth](#)
[Oceanography](#)

Subject:

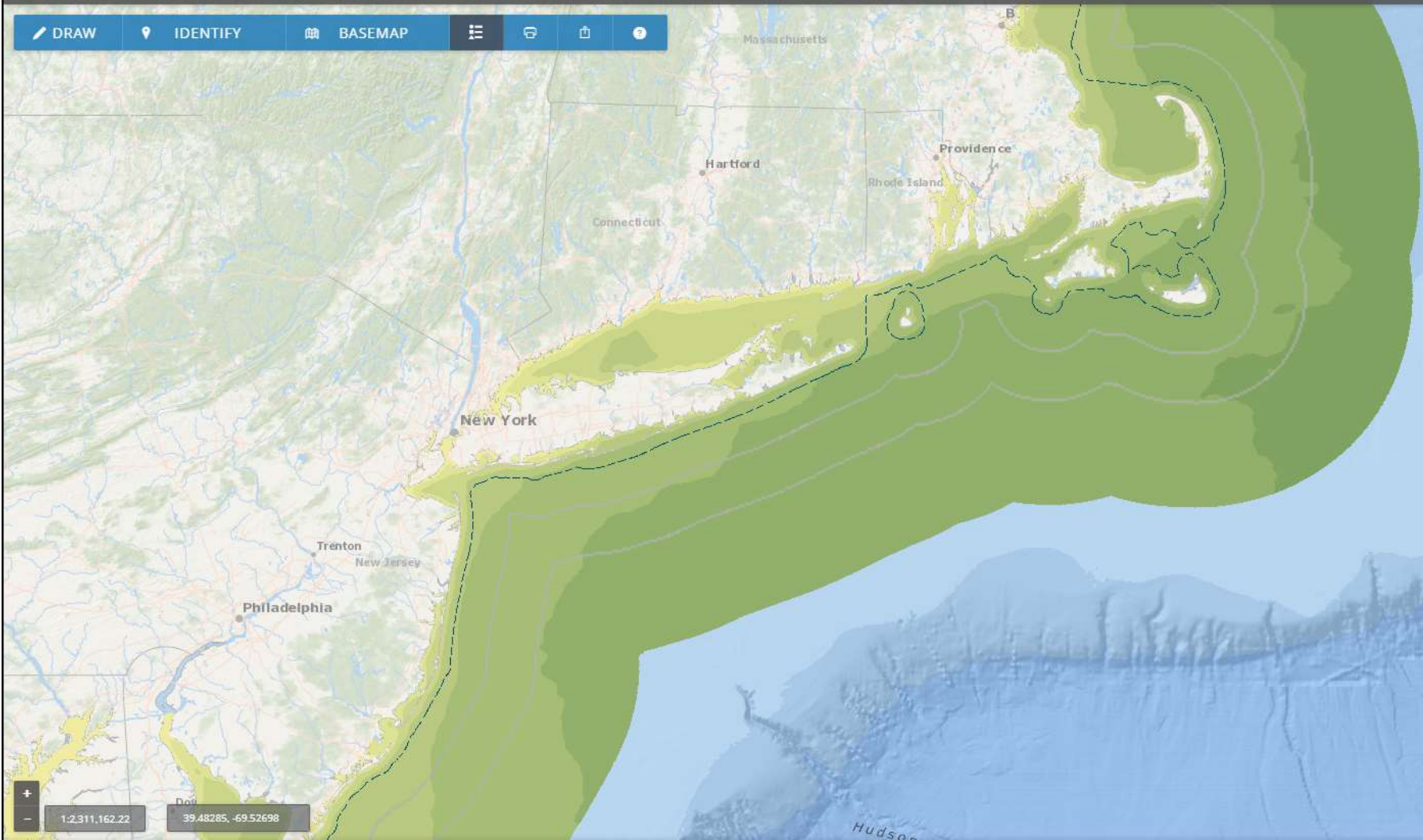
[Form Descriptors](#)

Topic category:

[Imagery Base Maps Earth Cover](#)



DRAW IDENTIFY BASEMAP



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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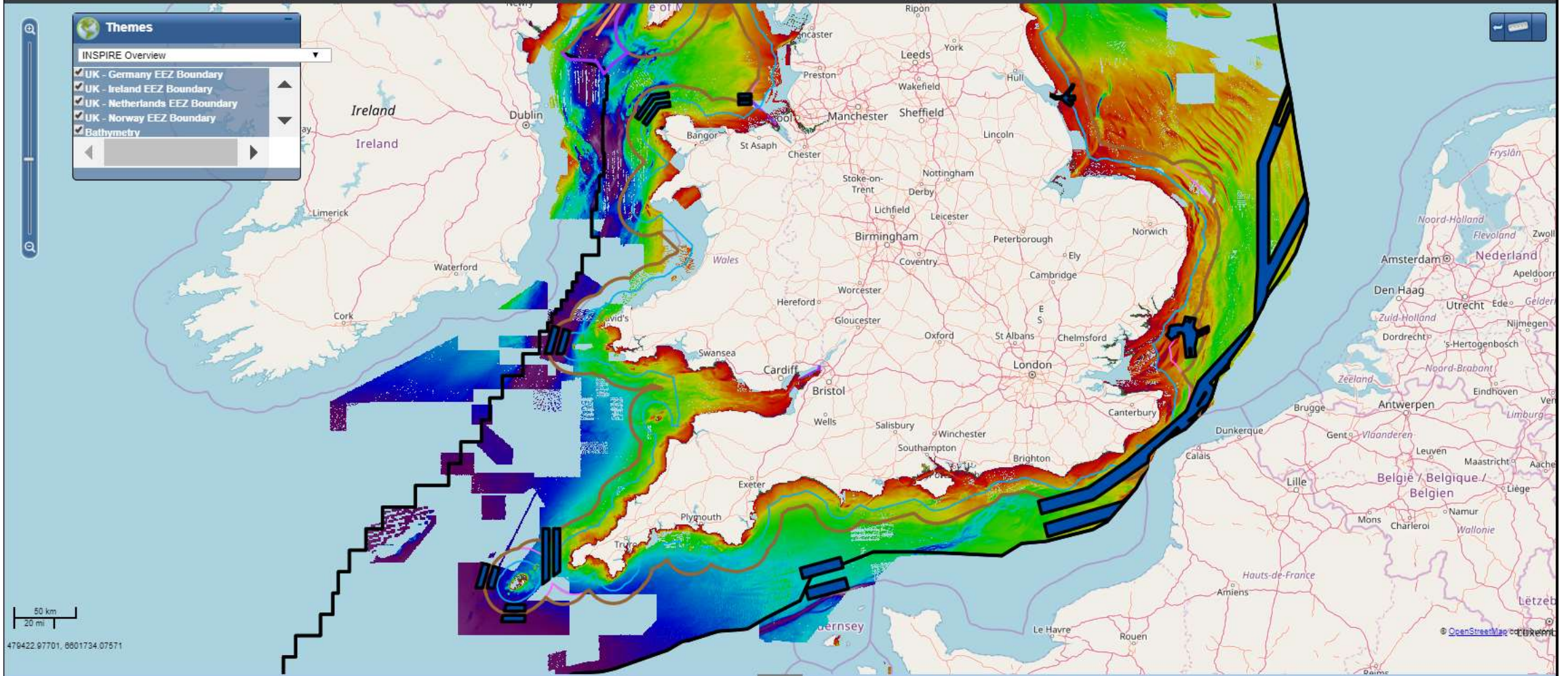




Themes

INSPIRE Overview

- UK - Germany EEZ Boundary
- UK - Ireland EEZ Boundary
- UK - Netherlands EEZ Boundary
- UK - Norway EEZ Boundary
- Bathymetry



Shom catalog

Display

Data

Forecast

Services

Draw

Infonaut

User

Master data Oceanographic forecast Coastal observations

Charts

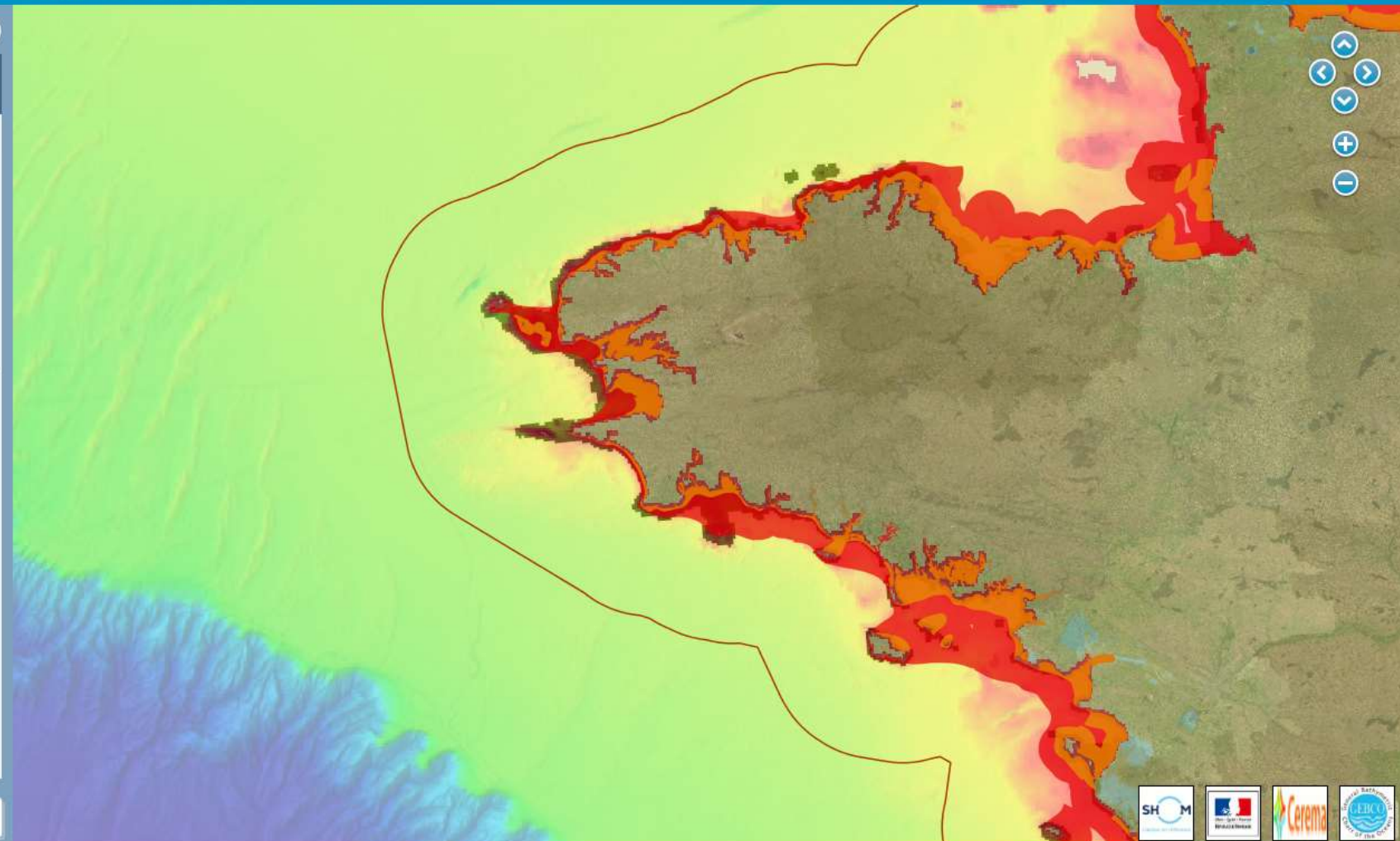
- Assemblage des cartes marines (RasterMarine) du 12/07/2018
- Carte littorale (SCAN Littoral®)
- Raster Marine 150 du 12/07/2018
- Raster Marine 1M du 12/07/2018
- Raster Marine 20 du 12/07/2018
- Raster Marine 400 du 12/07/2018
- Raster Marine 50 du 12/07/2018
- Spatiocartes marines

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

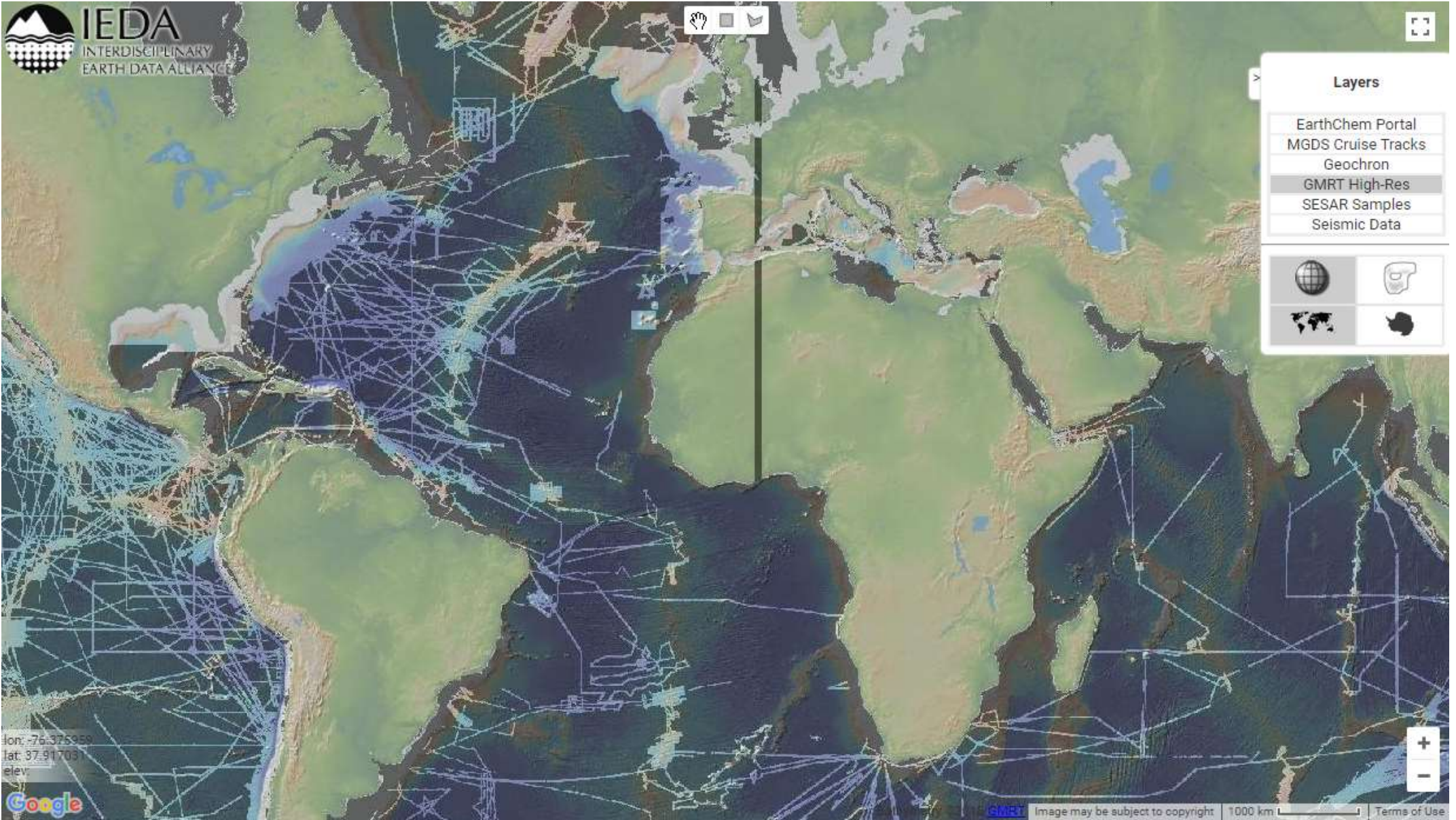


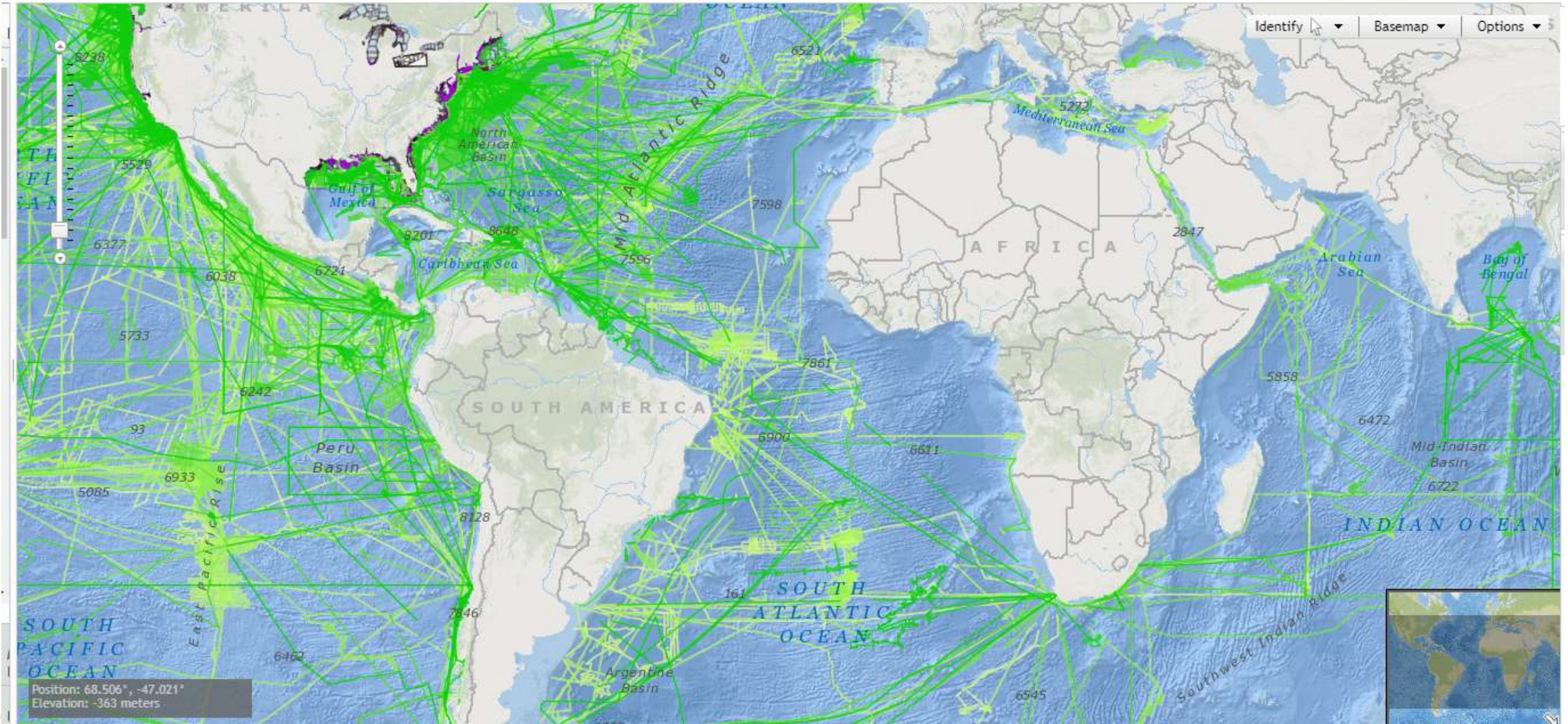
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Legal notice and warnings

Scale 1 : 1 733 376







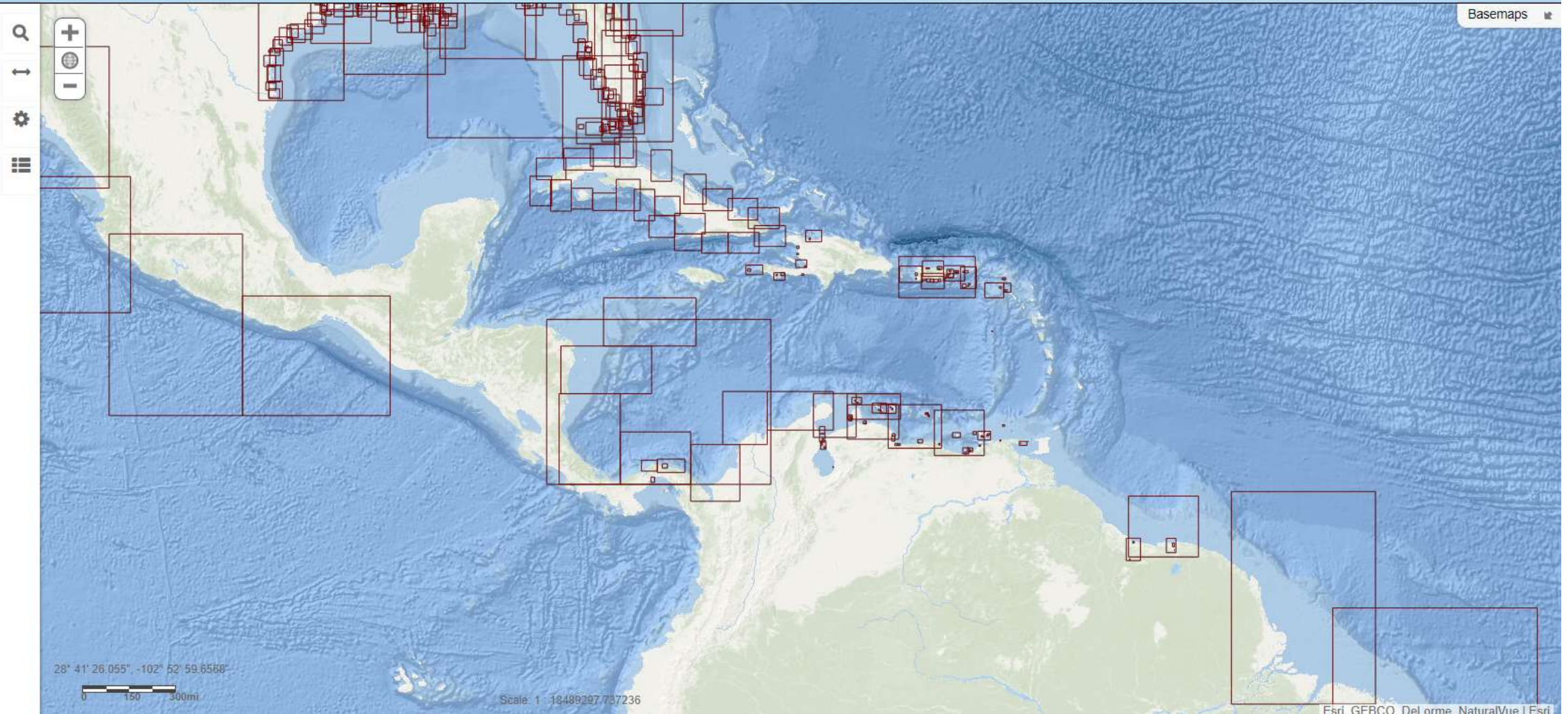
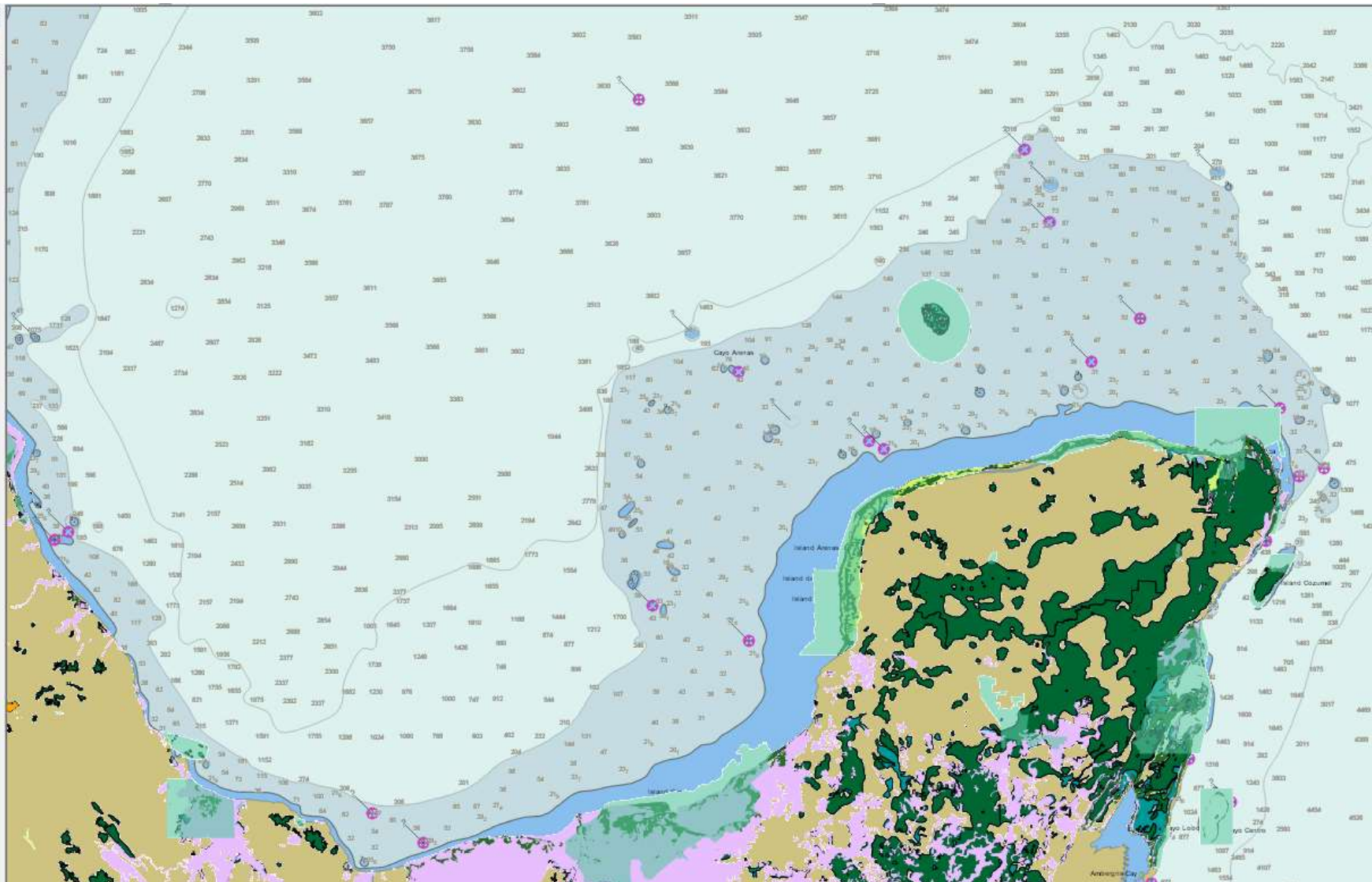


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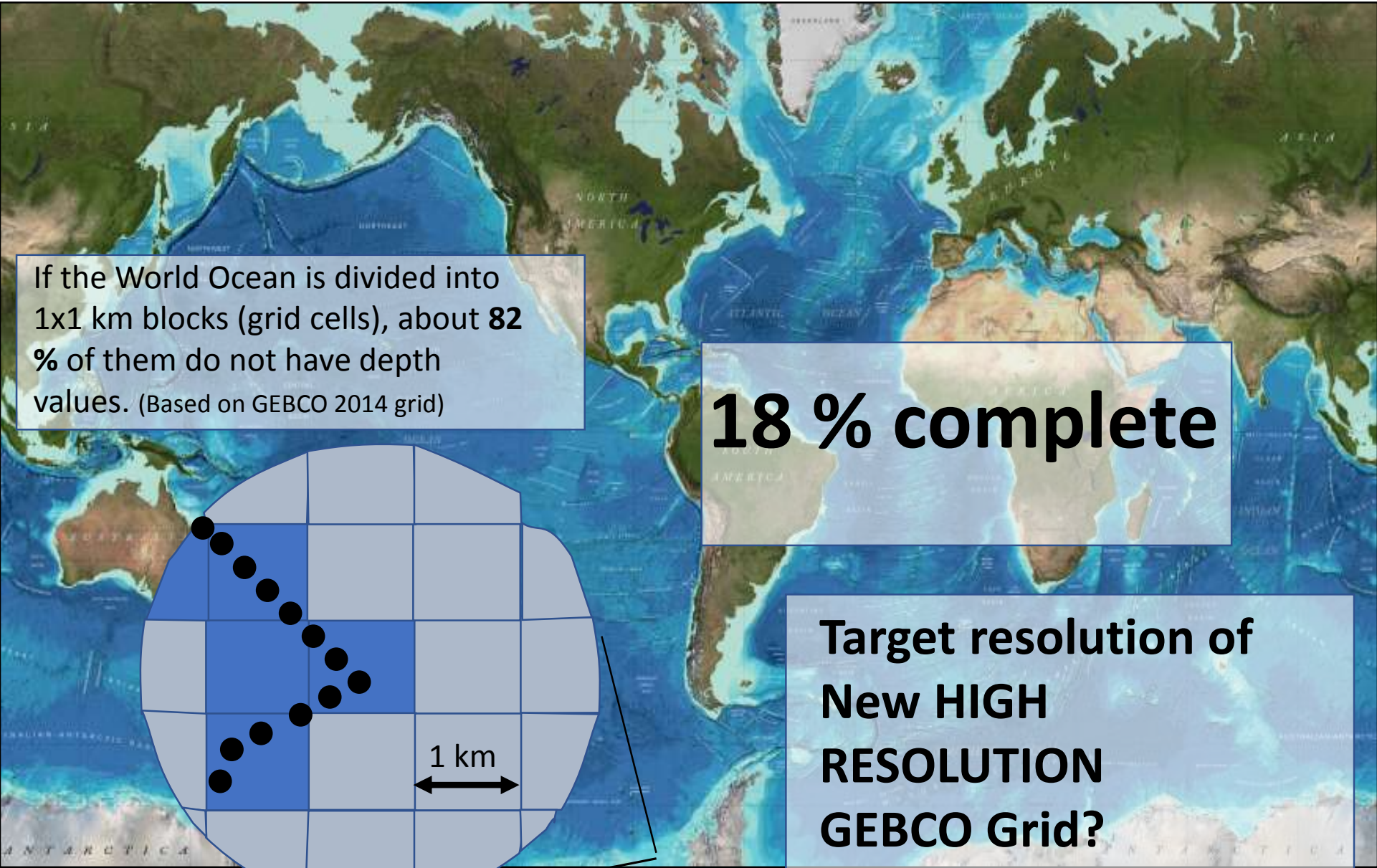
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We're sorry, but the page you are looking for doesn't exist.

Please check entered address and try again *or*

[go to homepage →](#)



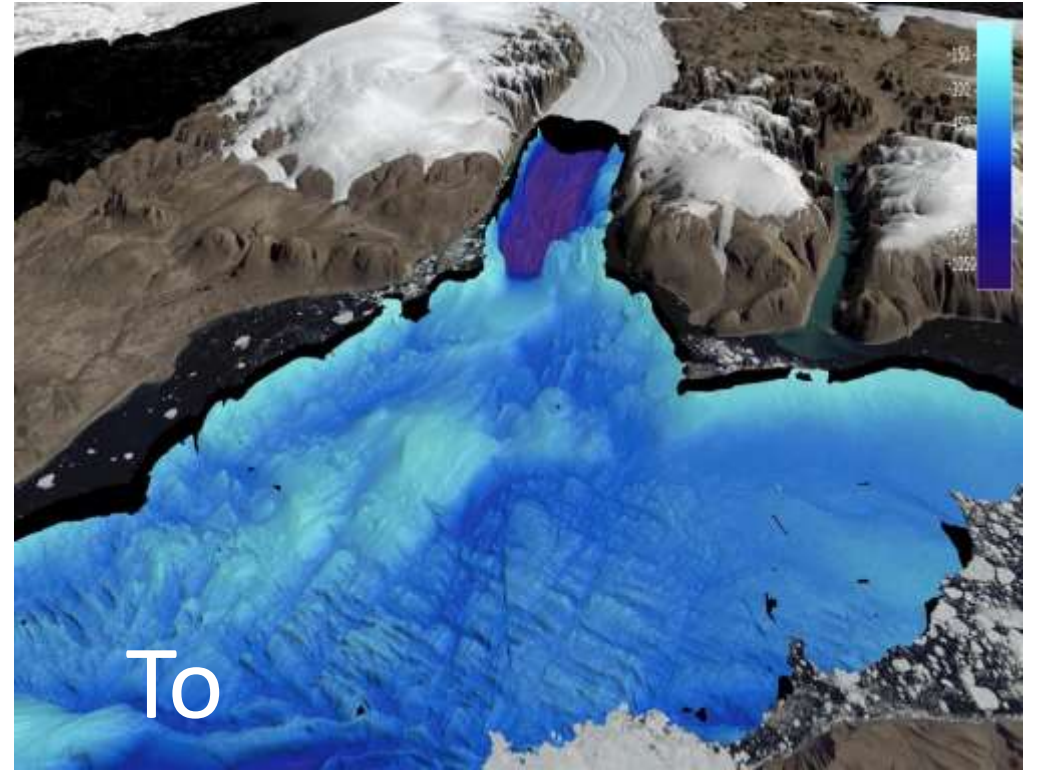
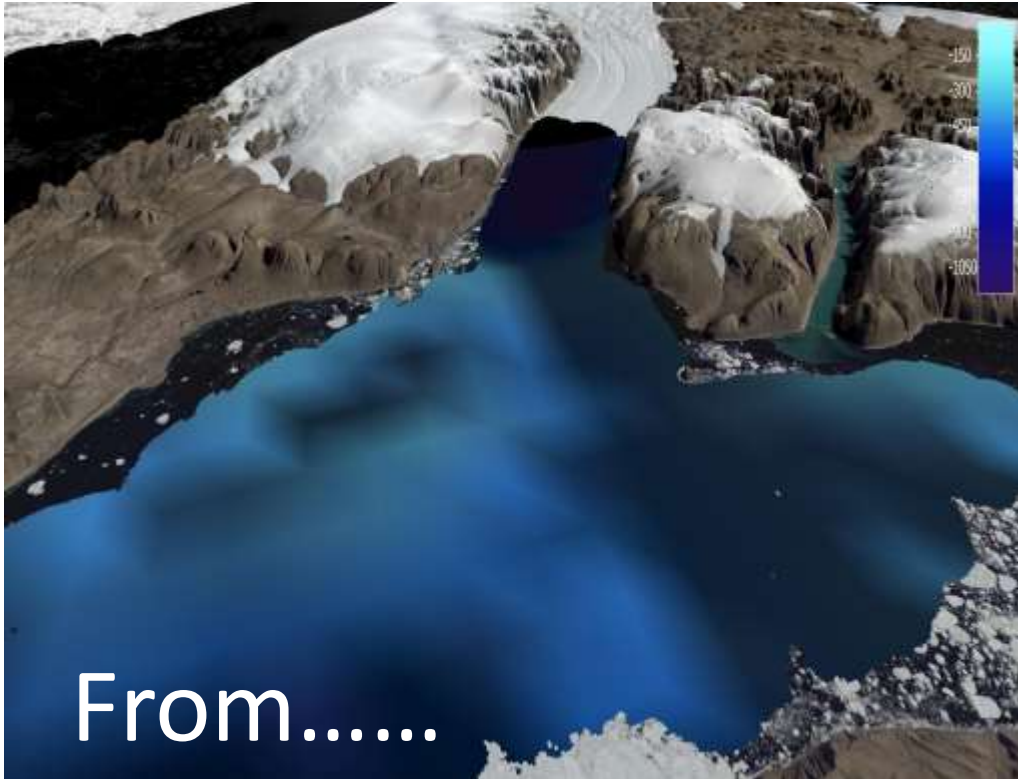


If the World Ocean is divided into 1x1 km blocks (grid cells), about **82 %** of them do not have depth values. (Based on GEBCO 2014 grid)

18 % complete

Target resolution of New HIGH RESOLUTION GEBCO Grid?





Membership – Current Composition

17 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 and OGC

March 7 – 9, 2019

Busan, Republic of Korea



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Thank You

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