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Commissione europea

Parlamento europeo

Mappatura integrata degli oceani a tutela dell'ambiente marino nello sviluppo sostenibile

Roberta Ivaldi

Istituto Idrografico della Marina









Oceano trasparente e accessibile

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

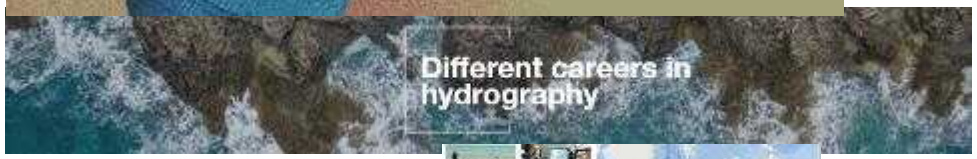


Credits: ©PNRA













GEBCO SCUFN





The GEBCO Sub-Committee on Undersea Feature Names (SCUFN) maintains and makes available a digital gazetteer of the names, generic feature type and geographic position of features on the seafloor.

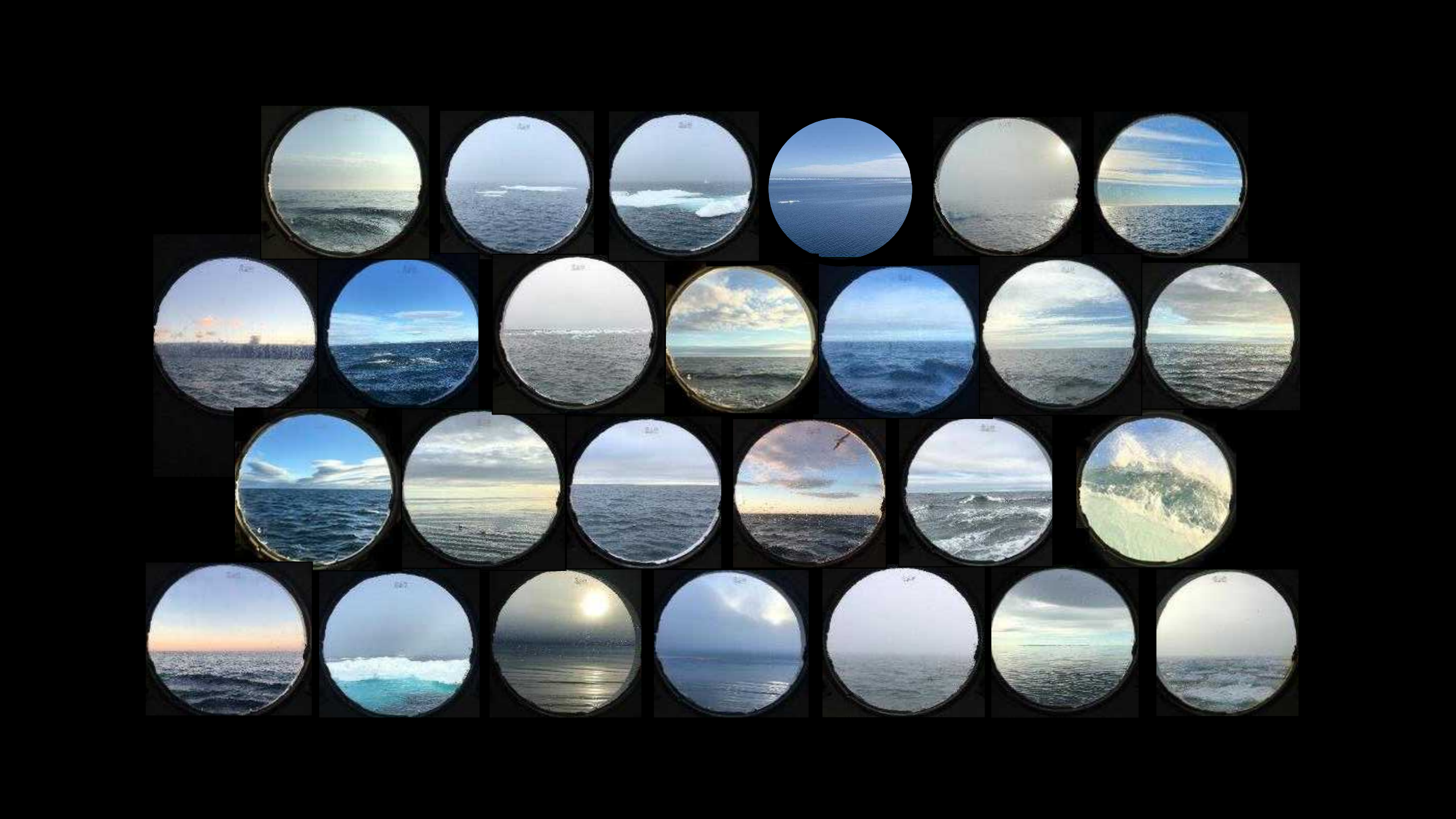








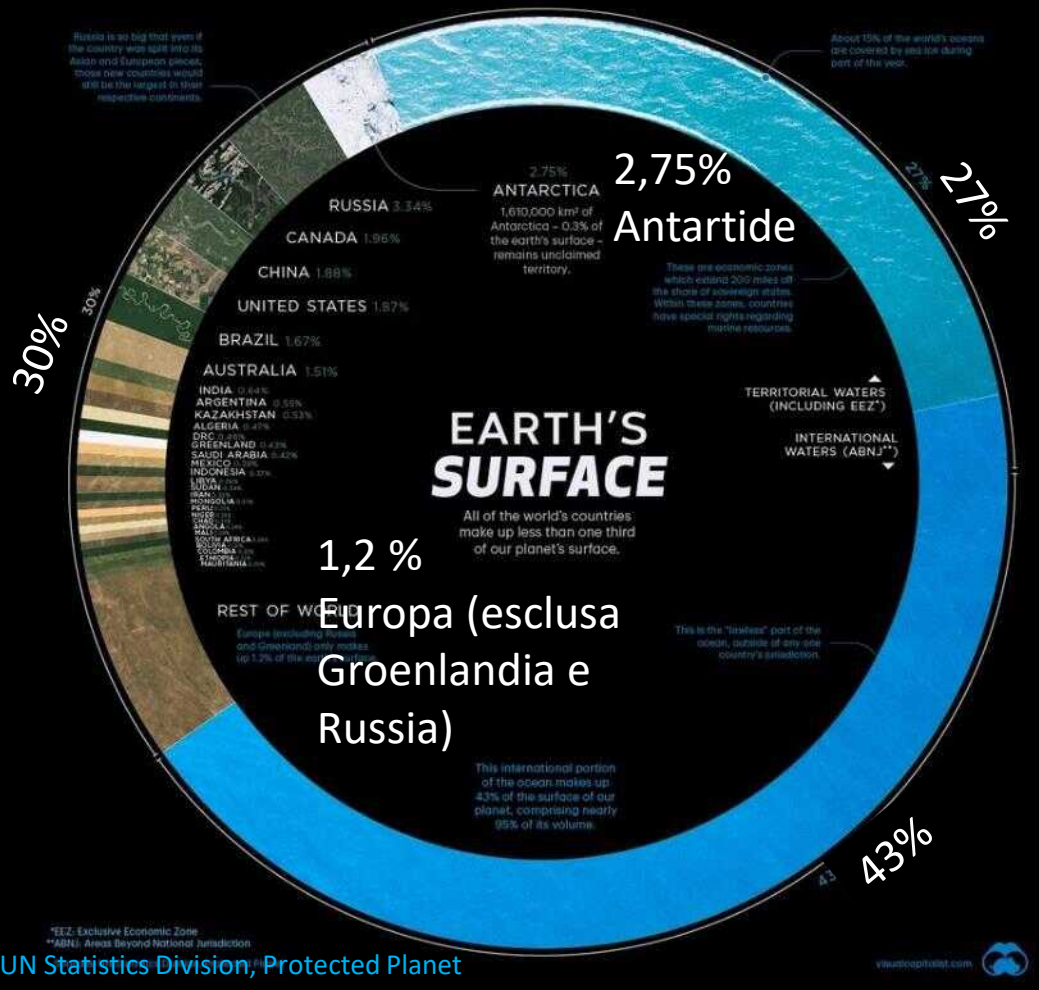




La superficie del Pianeta Terra è pari a più di 510 milioni di km^2

di cui oltre il

70 % è OCEANO



2,75% Antartide

1,2 % Europa (esclusa Groenlandia e Russia)

Circa il 15% dell'oceano globale è coperto da ghiaccio marino durante parte dell'anno

UN Statistics Division, Protected Planet

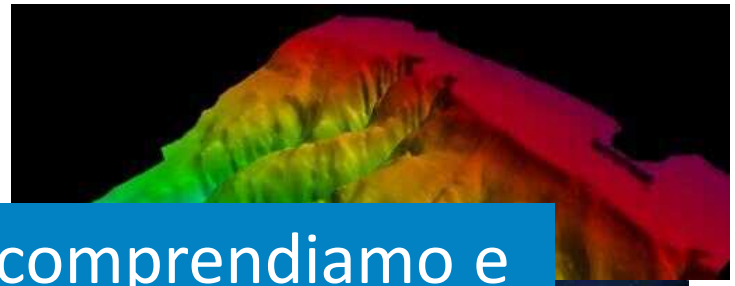
- L’OCEANO è vita, cibo, energia, vie di comunicazione
- L’OCEANO ospita la più eccezionale biodiversità di specie animali, vegetali ed interi ecosistemi
- L’OCEANO regola la temperatura del pianeta
- L’OCEANO è il polmone BLU
- L’OCEANO è salute umana, sicurezza alimentare

I cambiamenti climatici sono indissolubilmente connessi all’OCEANO e alla sua salute.

Ad oggi, solo il 28.7% del fondale oceanico è mappato con tecniche moderne ad alta risoluzione e vi sono vaste aree dell'oceano profondo, nonché regioni artiche e polari, di cui non sappiamo praticamente nulla in termini di distribuzione delle specie, ecosistemi, processi marini e fattori di stress.

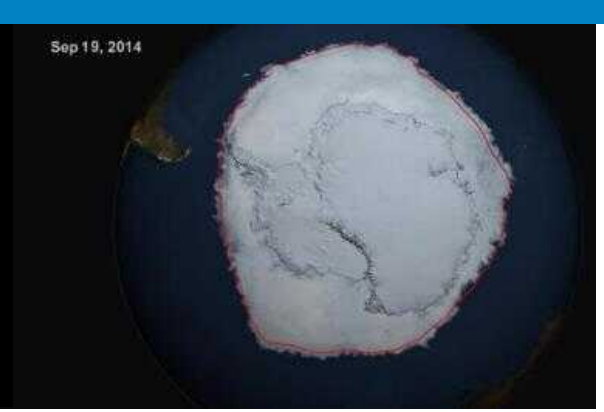






Non possiamo gestire ciò che non comprendiamo e gran parte dell'oceano rimane un mistero.





NASA's Scientific Visualization Studio





Endurance22 Expedition

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UN Ocean Science Decade for Sustainable Development

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

- The Ocean Decade

is a 10-year framework initiative (2021-2030) to identify, generate and use critical ocean knowledge to manage the ocean sustainably.





UN Ocean Science Decade for Sustainable Development

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

Decade Actions contribute to fulfilling the 10 Ocean Decade Challenges, which articulate the most immediate priorities for the Ocean Decade:



1. Understand & Beat Marine Pollution



2. Protect and restore ecosystems and biodiversity



3. Sustainably feed the global population



4. Develop a sustainable and equitable ocean economy



5. Unlock ocean-based solutions to climate change



6. Increase community resilience to ocean hazards



7. Expand the Global Ocean Observing System



8. Create a digital representation of the ocean



9. Skills, knowledge and technology for all



10. Change humanity's relationship with the ocean

UN Ocean Science Decade for Sustainable Development

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Ocean Decade Challenge 7: Expand the global ocean observing system



UN Ocean Science Decade for Sustainable Development

Challenge 8

Create a digital representation of the ocean

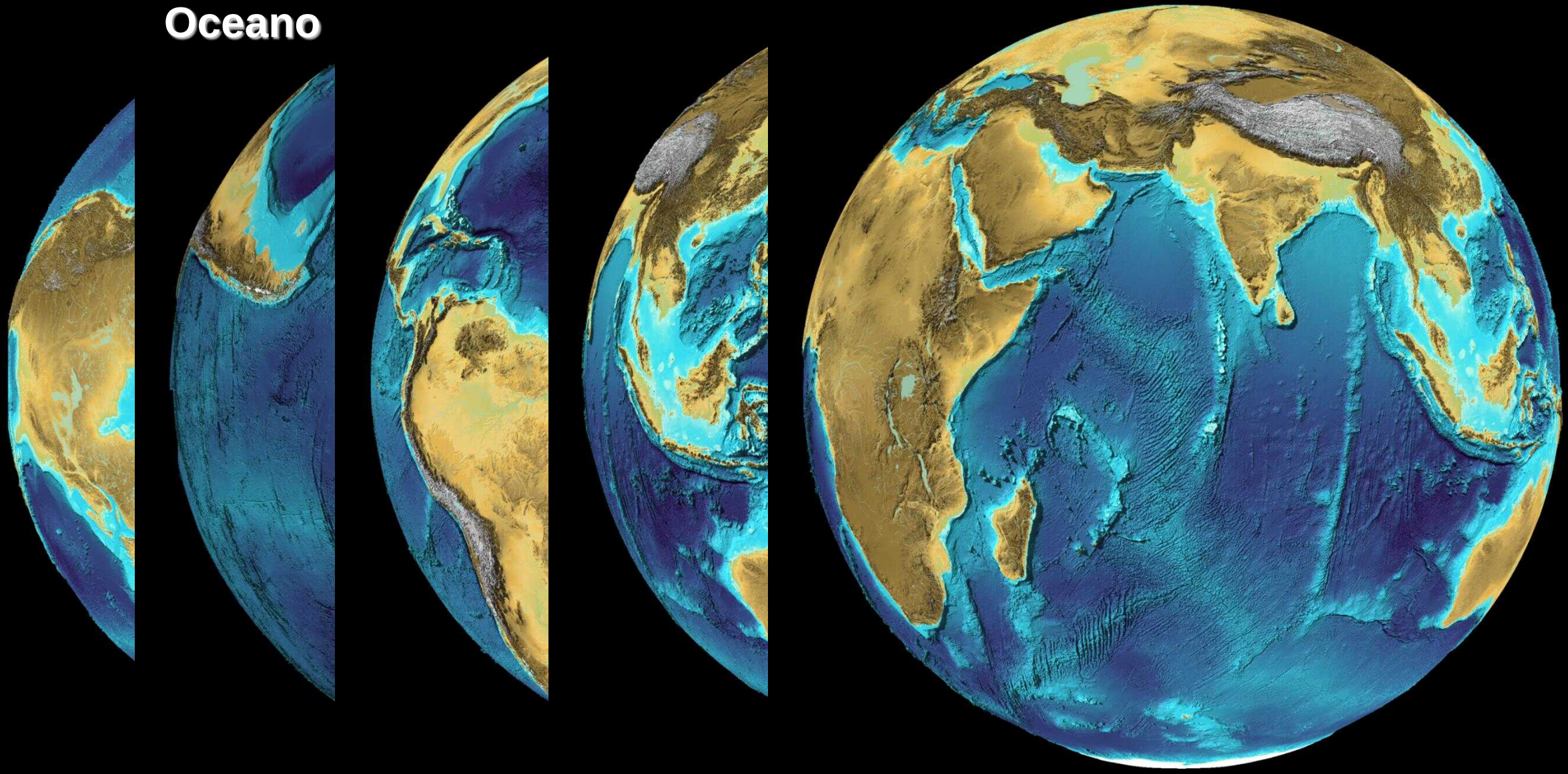
Through multi-stakeholder collaboration, develop a comprehensive digital representation of the ocean, including a dynamic ocean map, which provides free and open access for exploring, discovering, and visualizing past, current, and future ocean conditions in a manner relevant to diverse stakeholders.

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Ocean Decade Challenge 8: Create a digital representation of the ocean



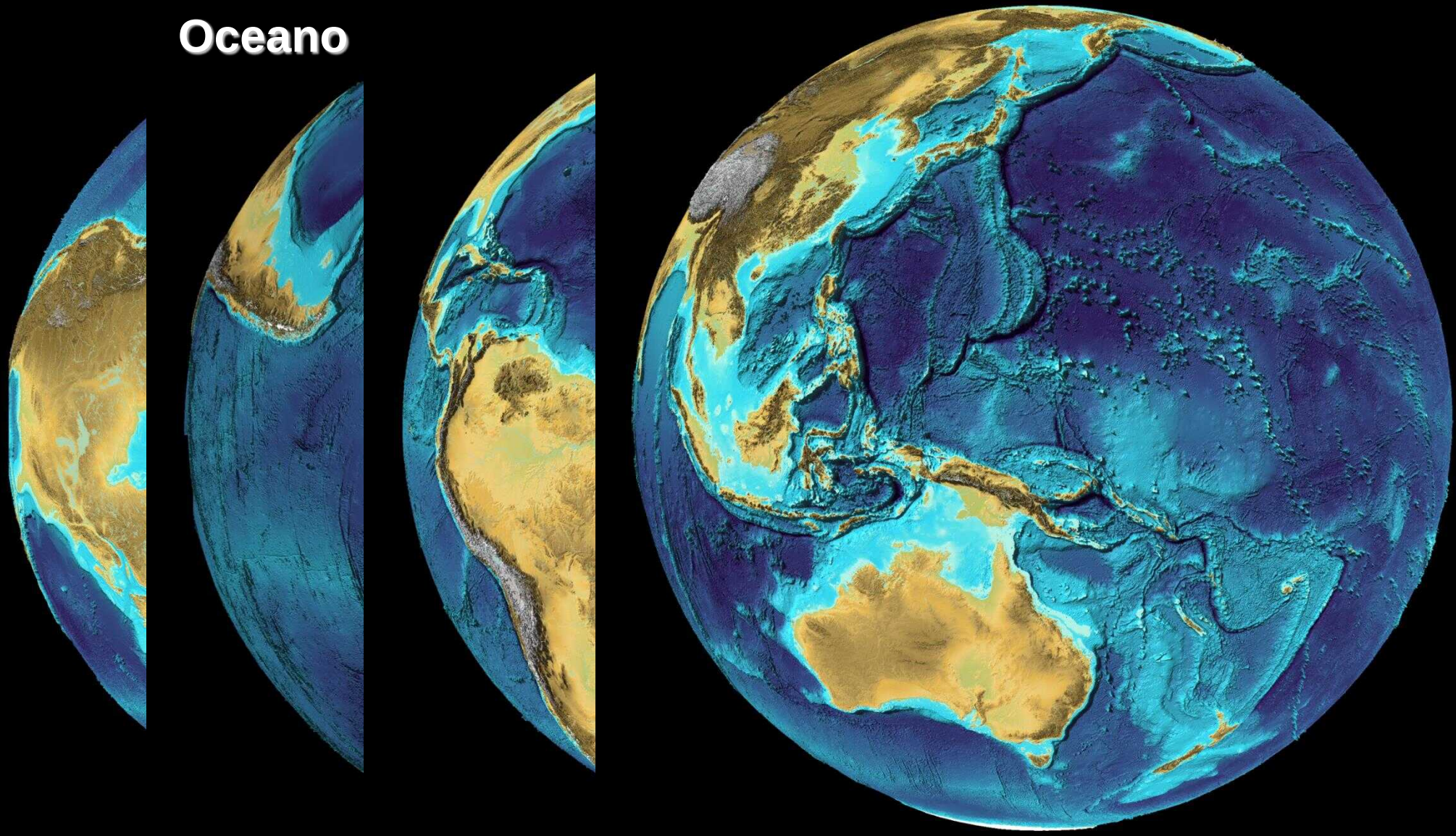
Oceano



Da Sound images of the ocean, 2005

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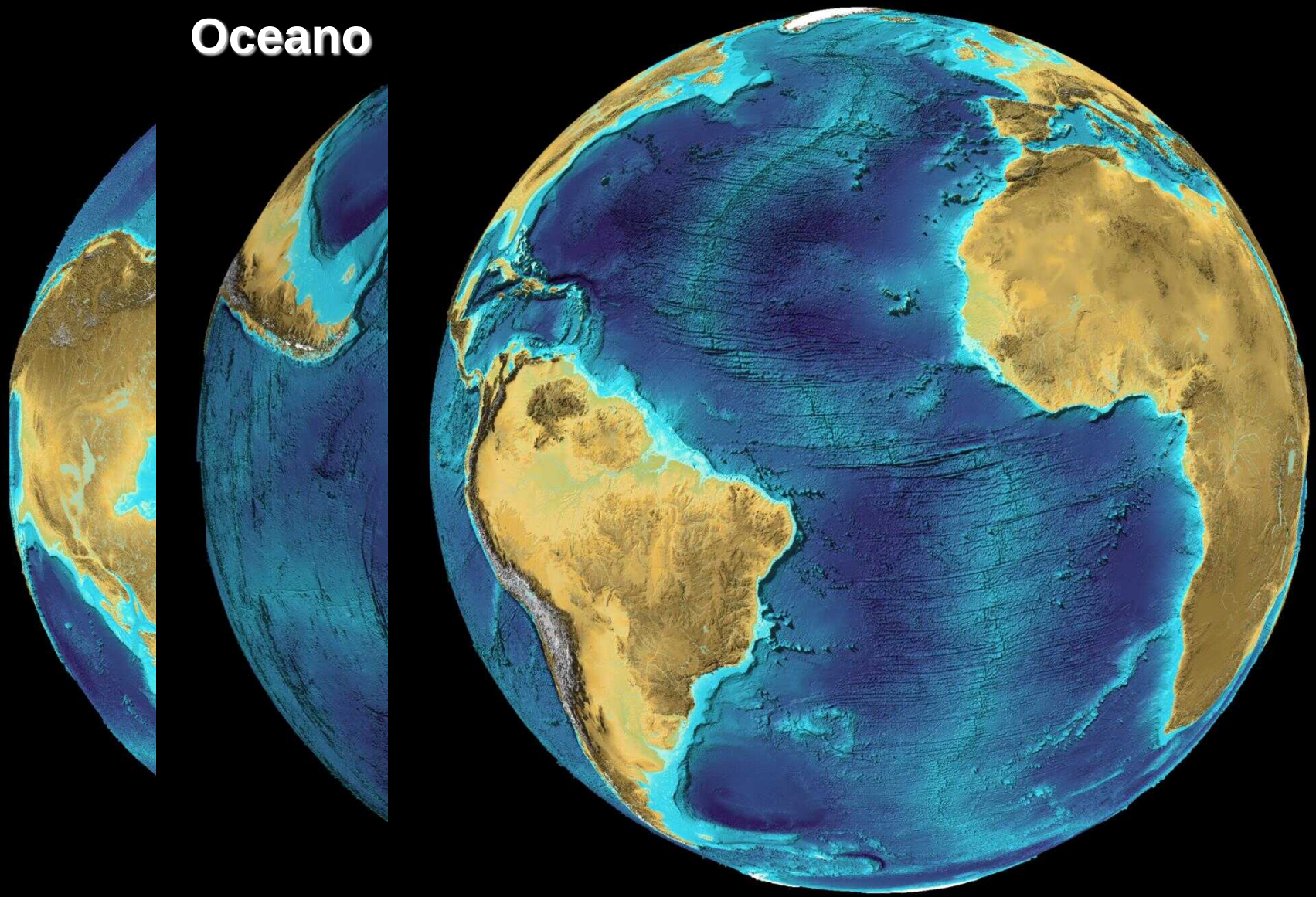
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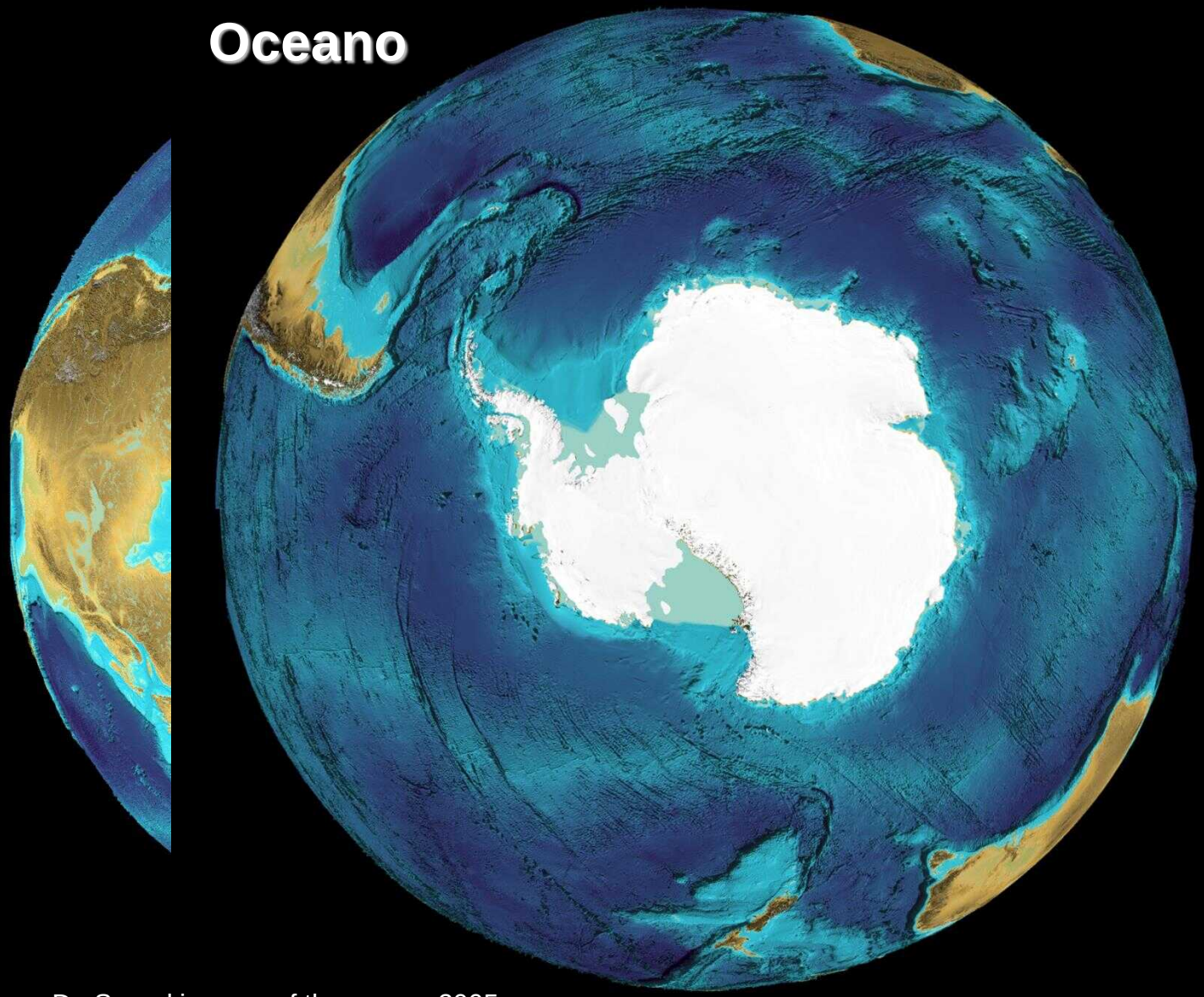
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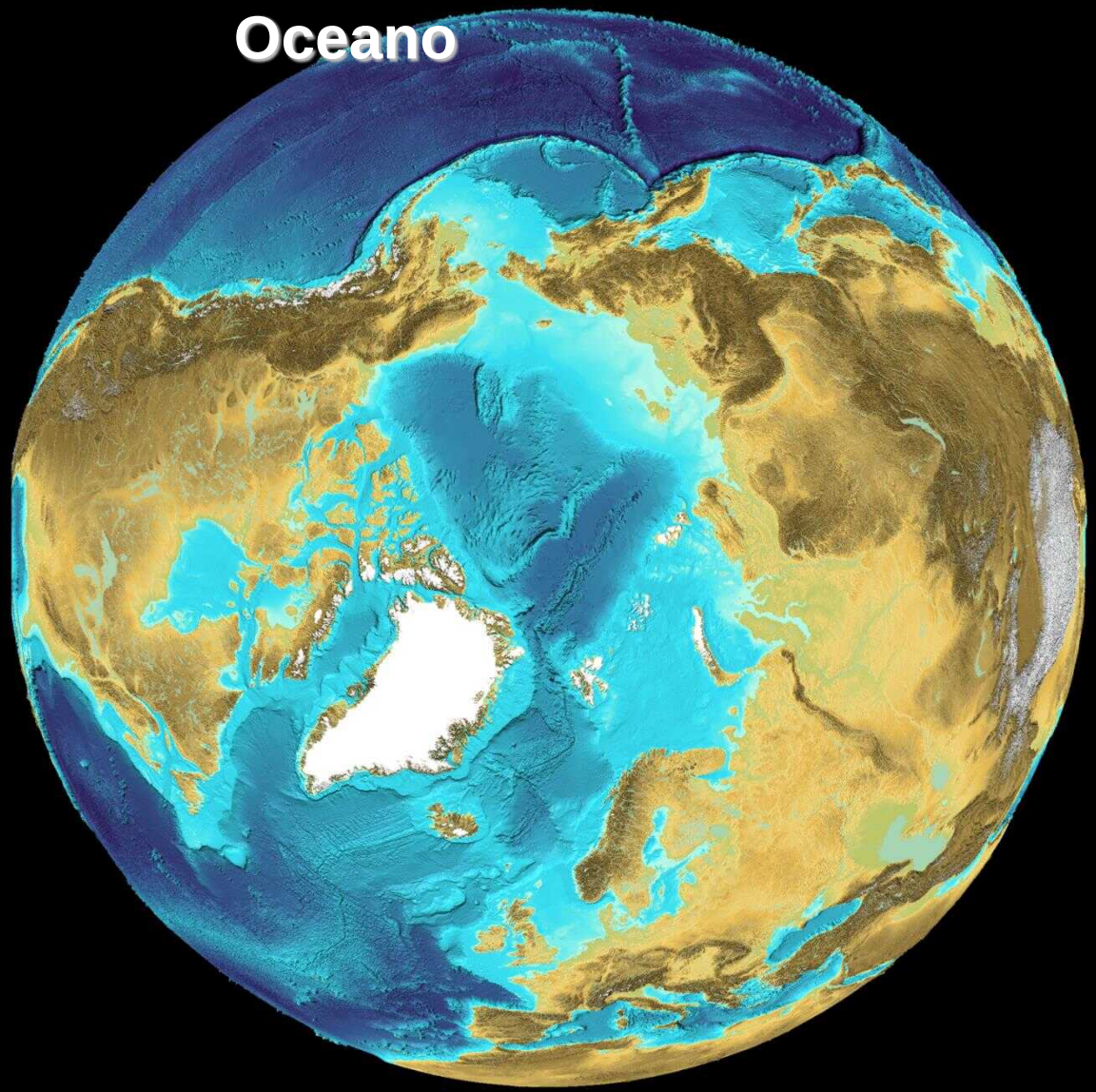
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IHO International Hydrographic Organization

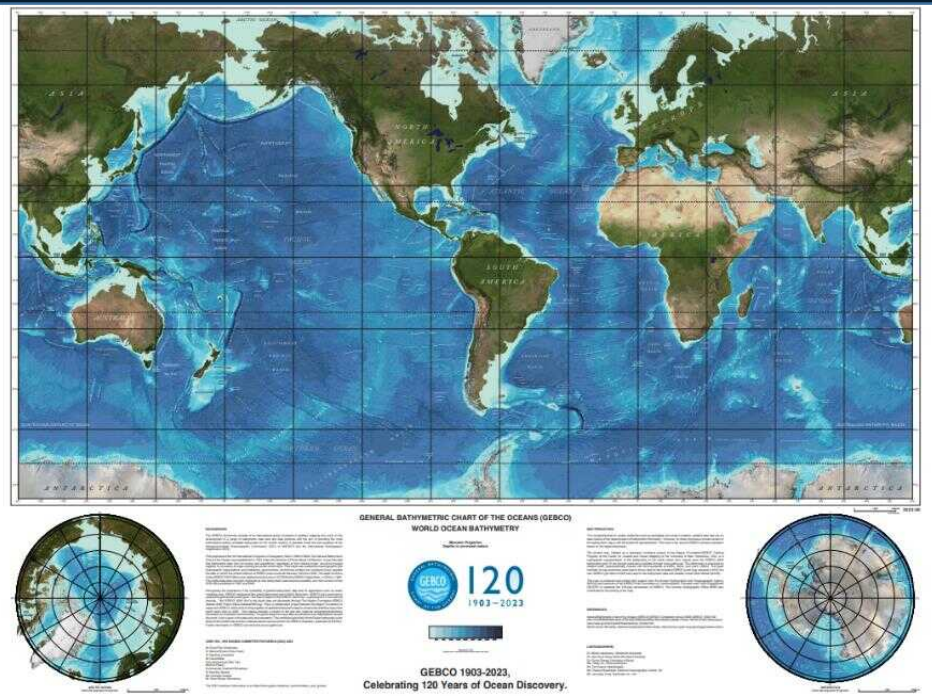
unesco Intergovernmental Oceanographic Commission

GEBCO

GENERAL BATHYMETRIC CHART OF THE OCEANS

Producing free, open and complete seabed data and information for the world's oceans.

hiips://www.gebco.net/



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General Bathymetric Chart of the Oceans

Home » Data and Products

Undersea Feature Names

A digital gazetteer of the names of features on the seafloor



Data & Products

- Gridded Bathymetry Data
- Undersea Feature Names
- GEBCO Web Services
- Printable Maps
- IHO-IOC GEBCO Cook Book
- Historical GEBCO Charts
- Historical Data Sets
- Imagery
- History of GEBCO
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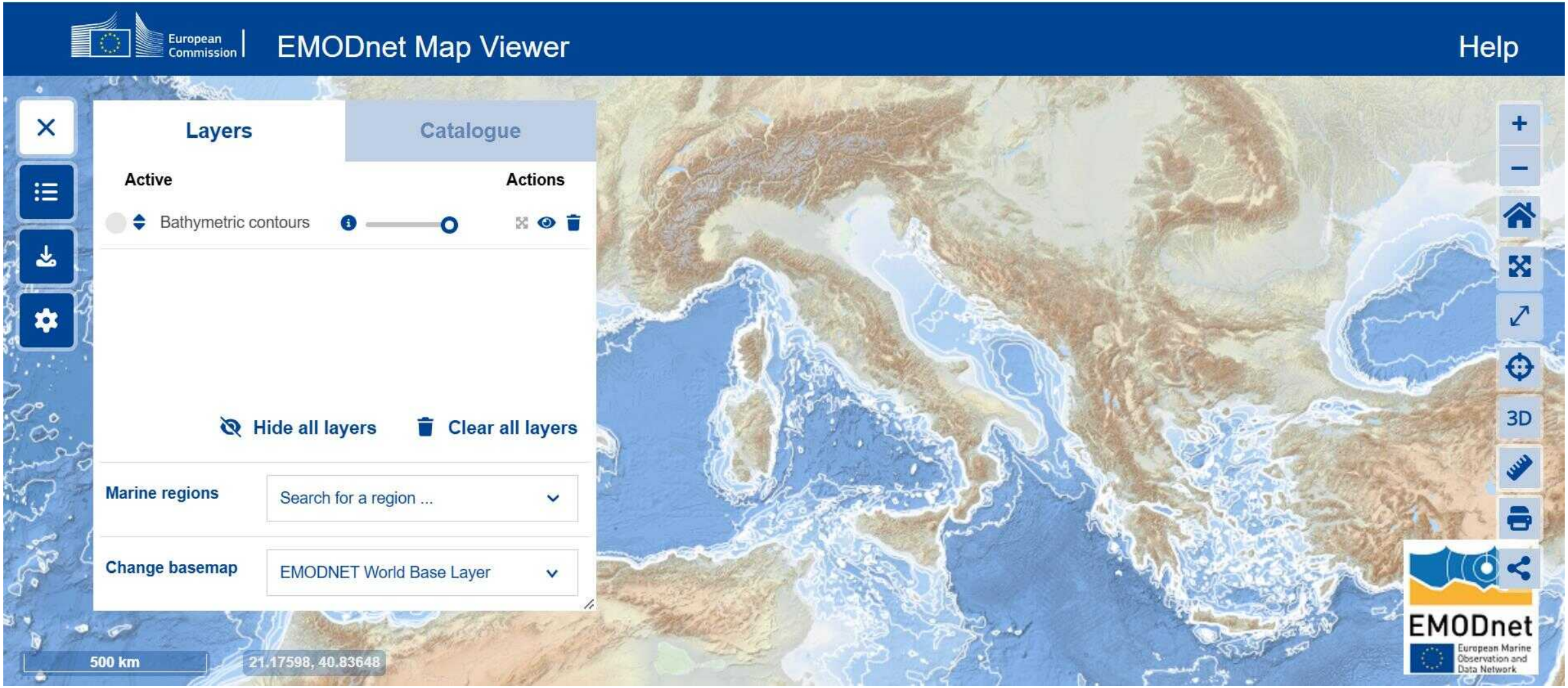


hiips://emodnet.ec.europa.eu/geoviewer/

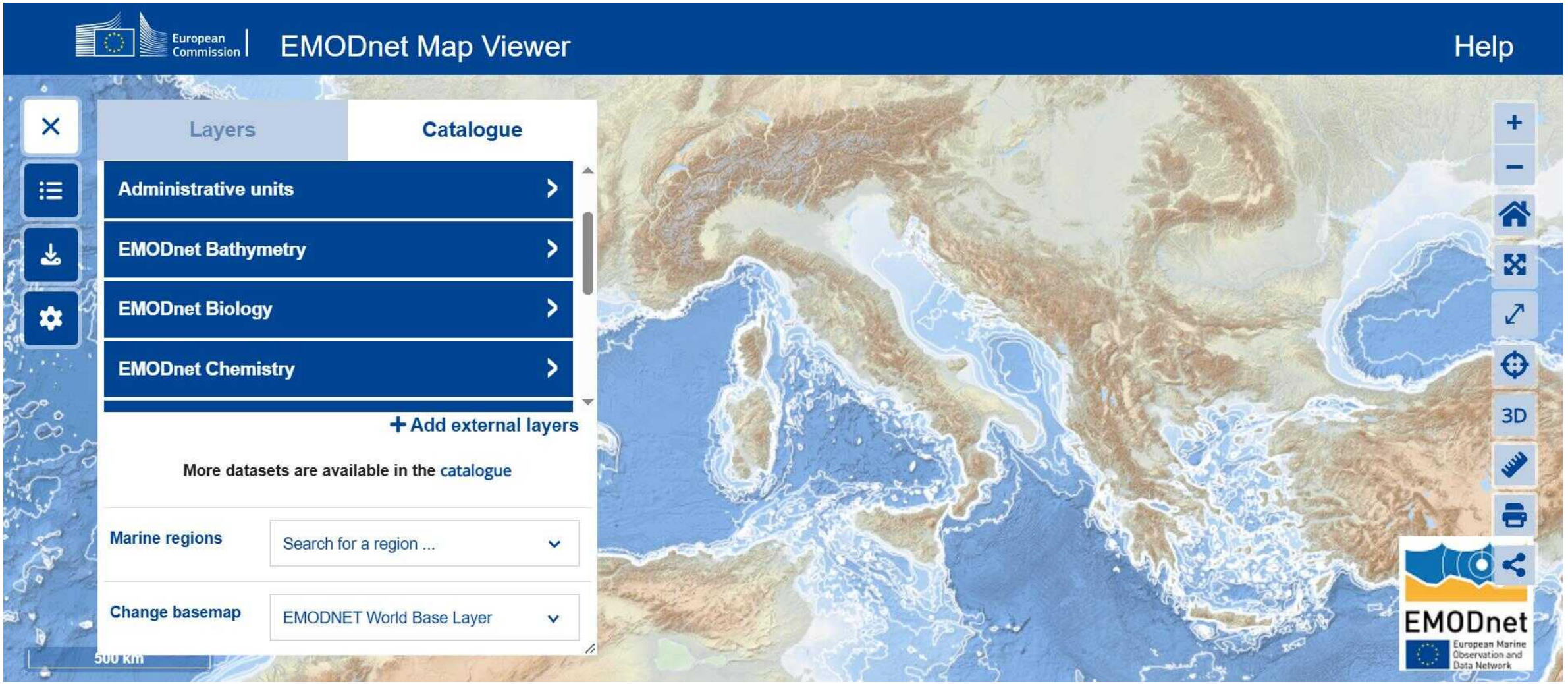
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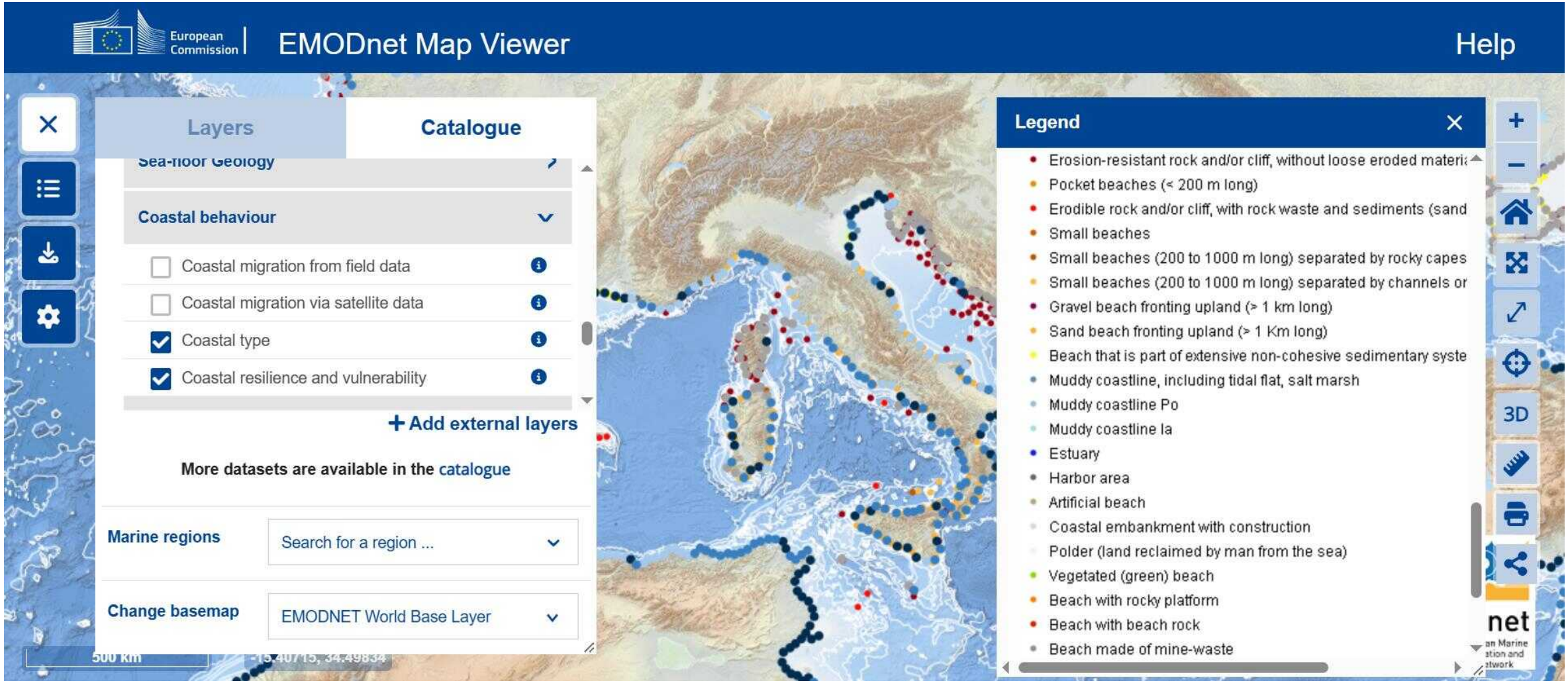
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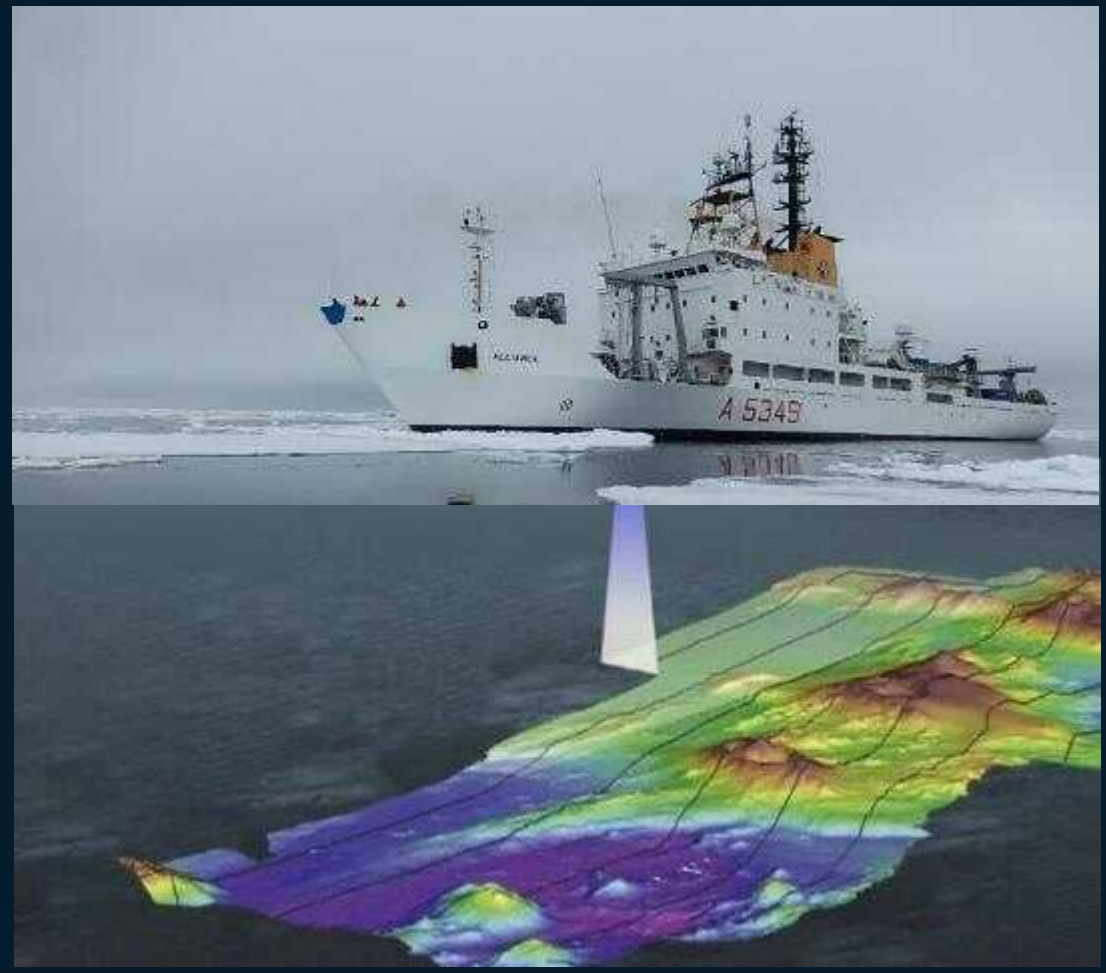
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MARINA Mmilitare

HIGH NORTH

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EXPLORATION



THE SCIENCE WE NEED FOR THE OCEAN WE WANT

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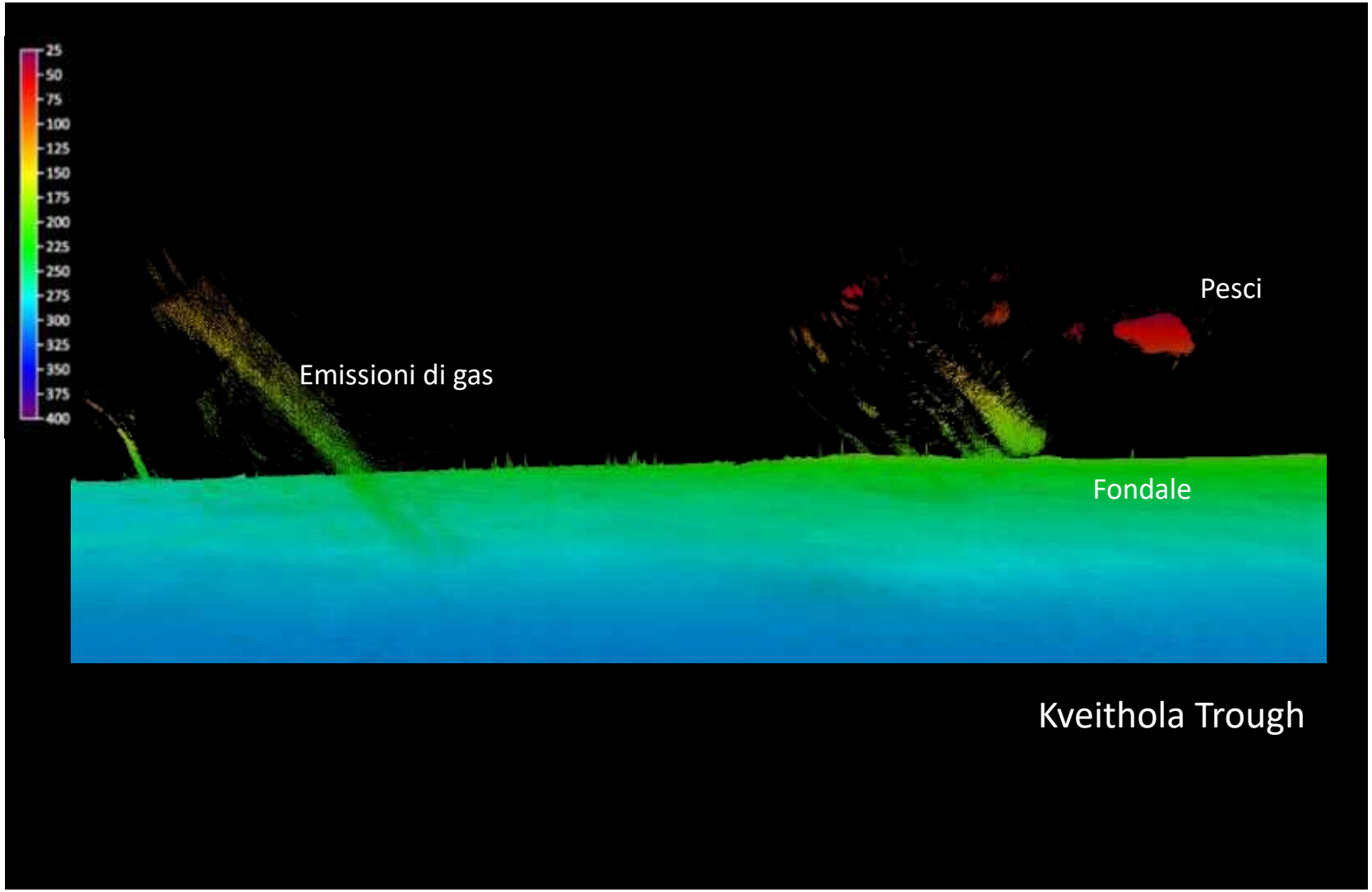
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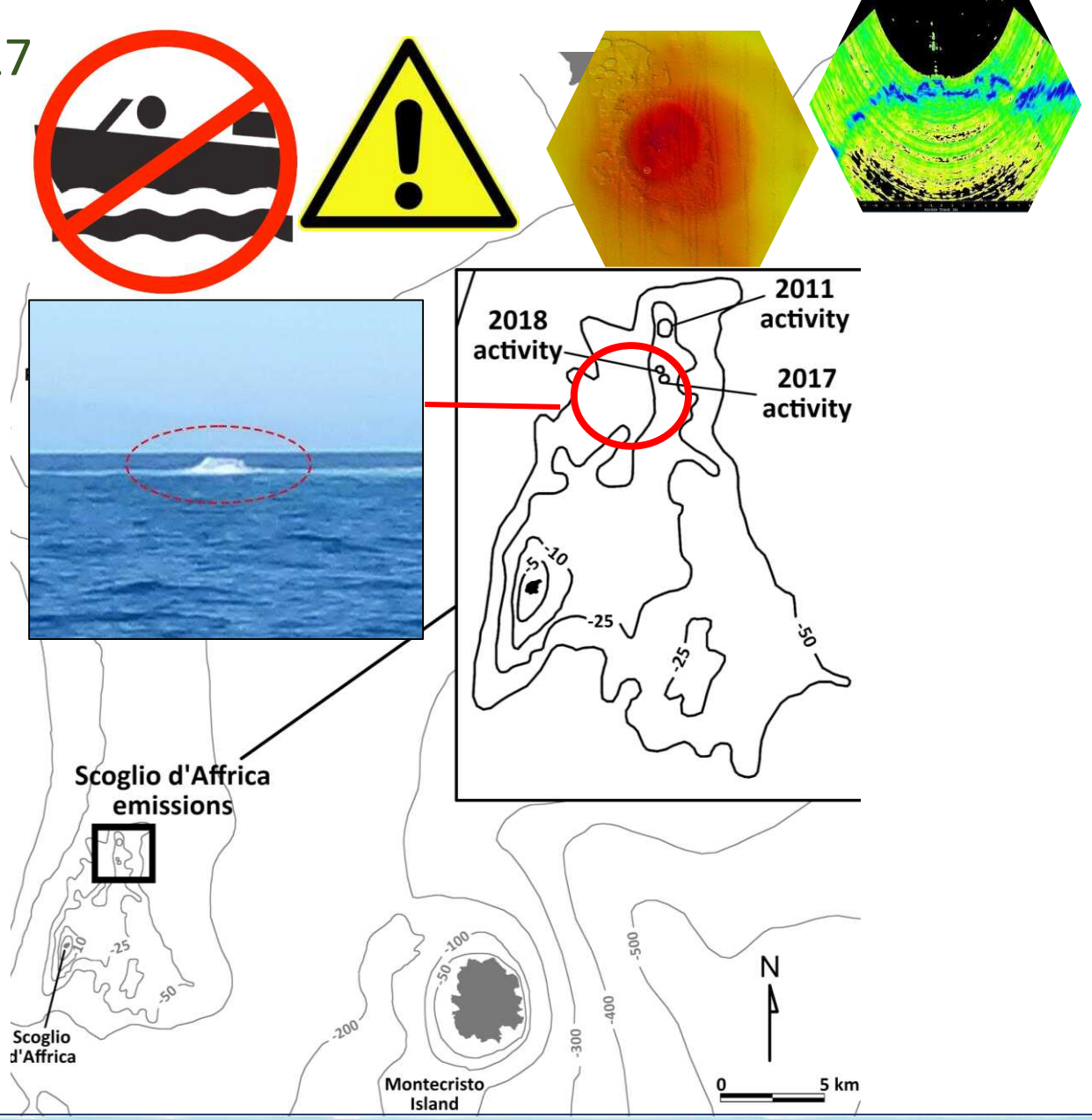
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Scoglio d'Affrica – Mar Tirreno Marzo/Luglio 2017

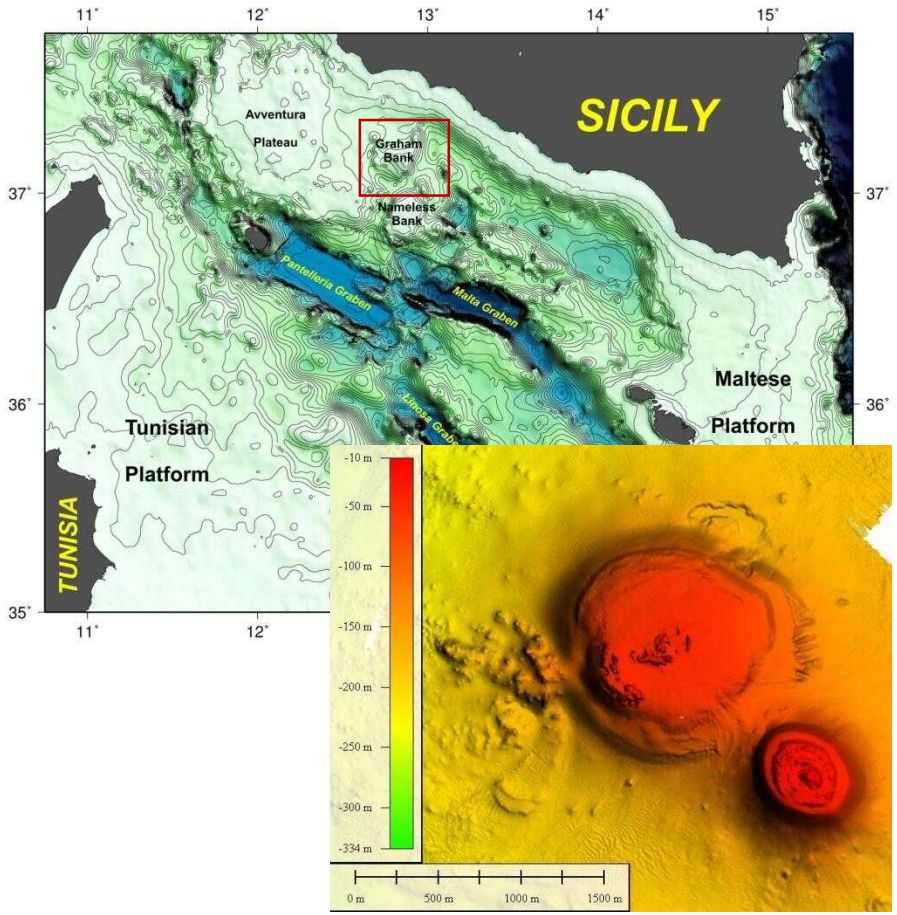


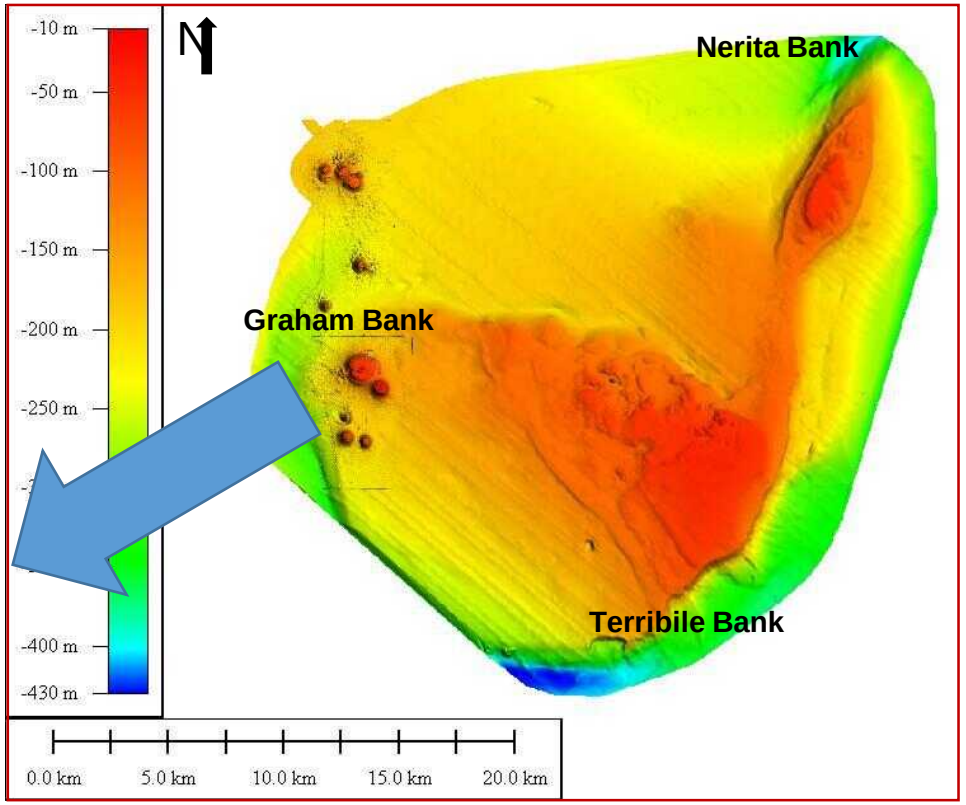
Emissioni diffuse su fondale sabbioso con blocchi e bolle sulla superficie marina nei pressi dello Scoglio d'Affrica, in Rapporto per il Dipartimento di Protezione Civile (Marzo 2017).



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Banco Graham - Canale di Sicilia



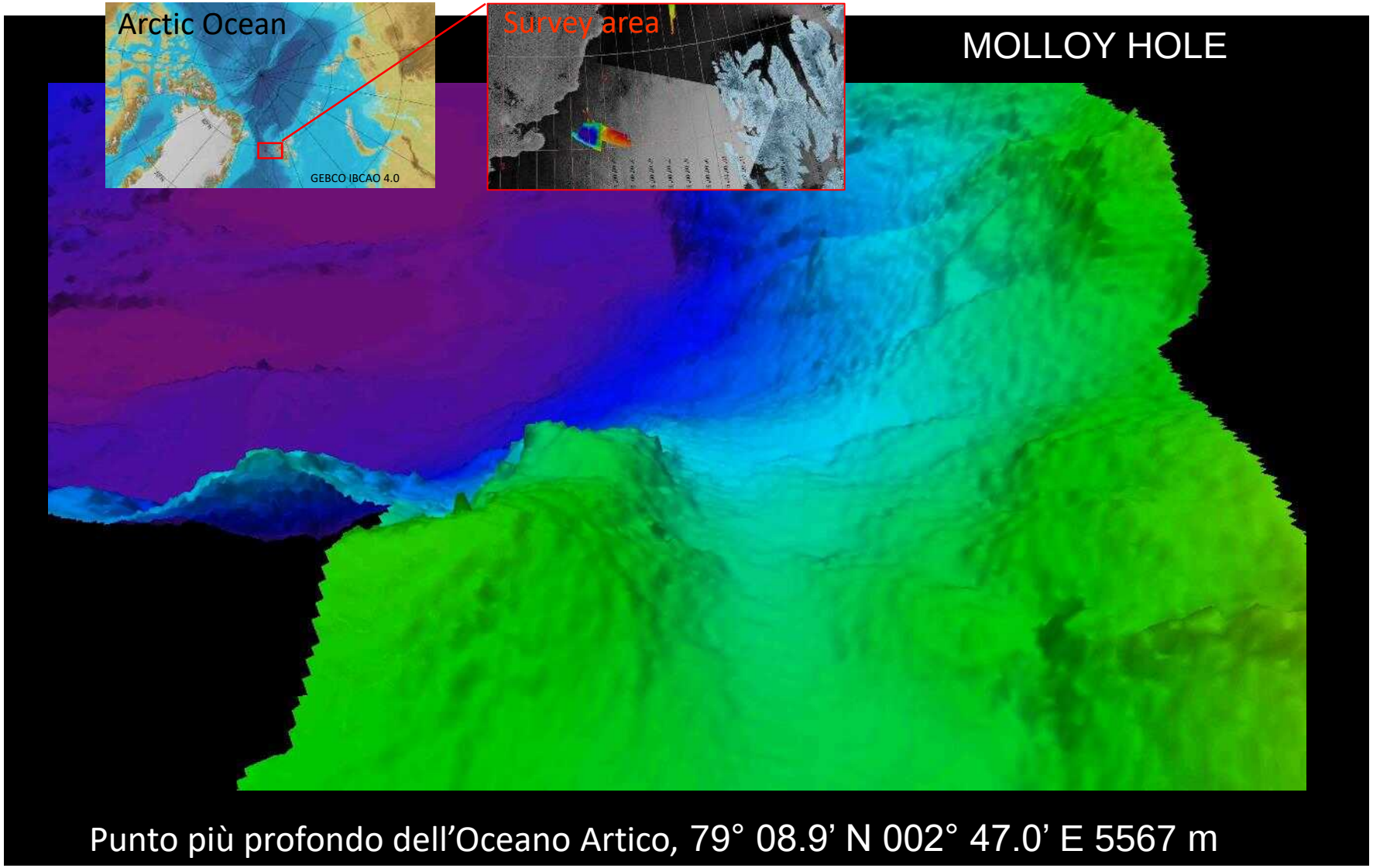


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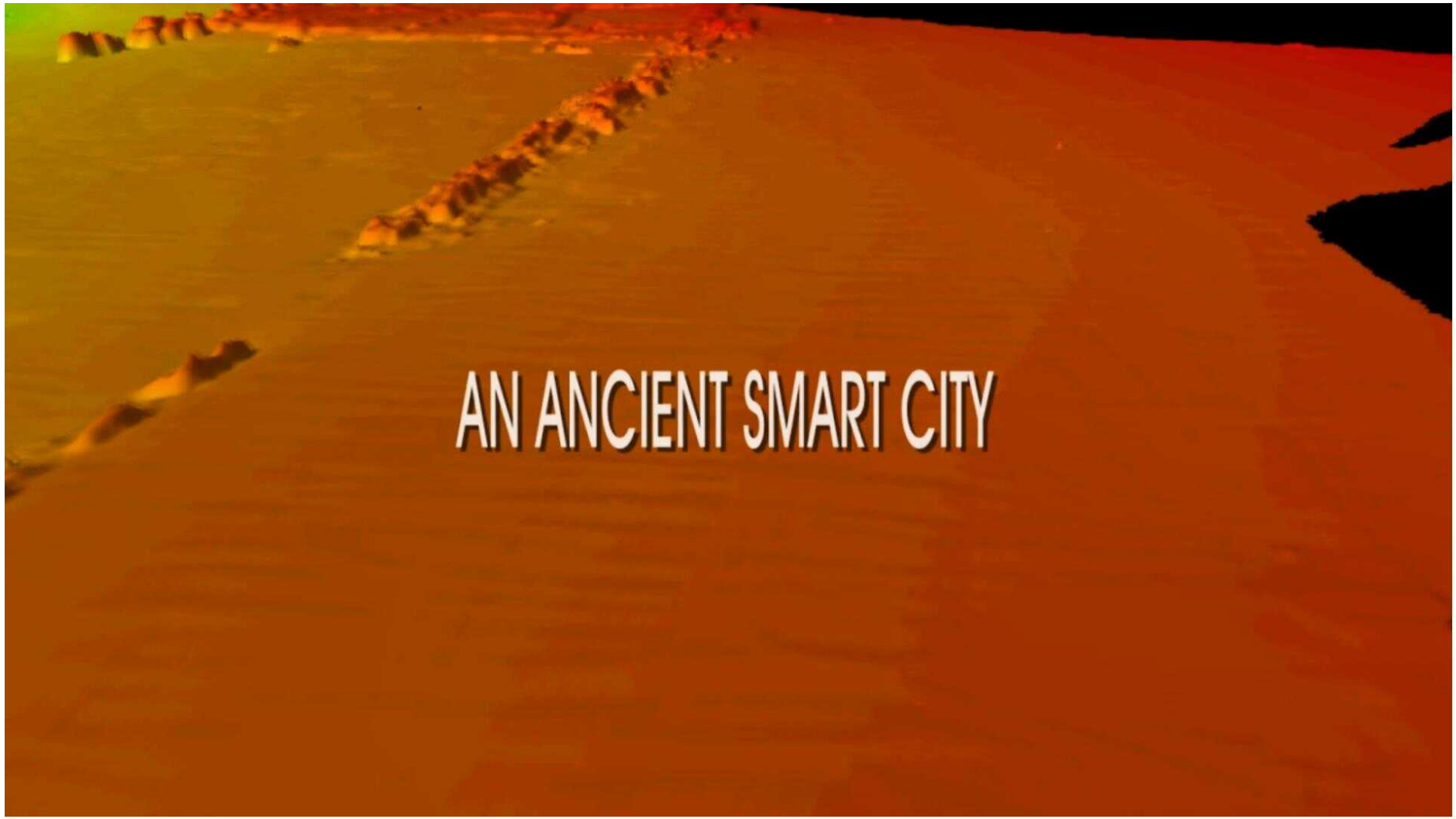


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The Science We Need for the Ocean We Want.



Grazie

roberta_ivaldi@marina.difesa.it

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