

THE NIPPON FOUNDATION-GEBCO

SEABED 2030

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IHO

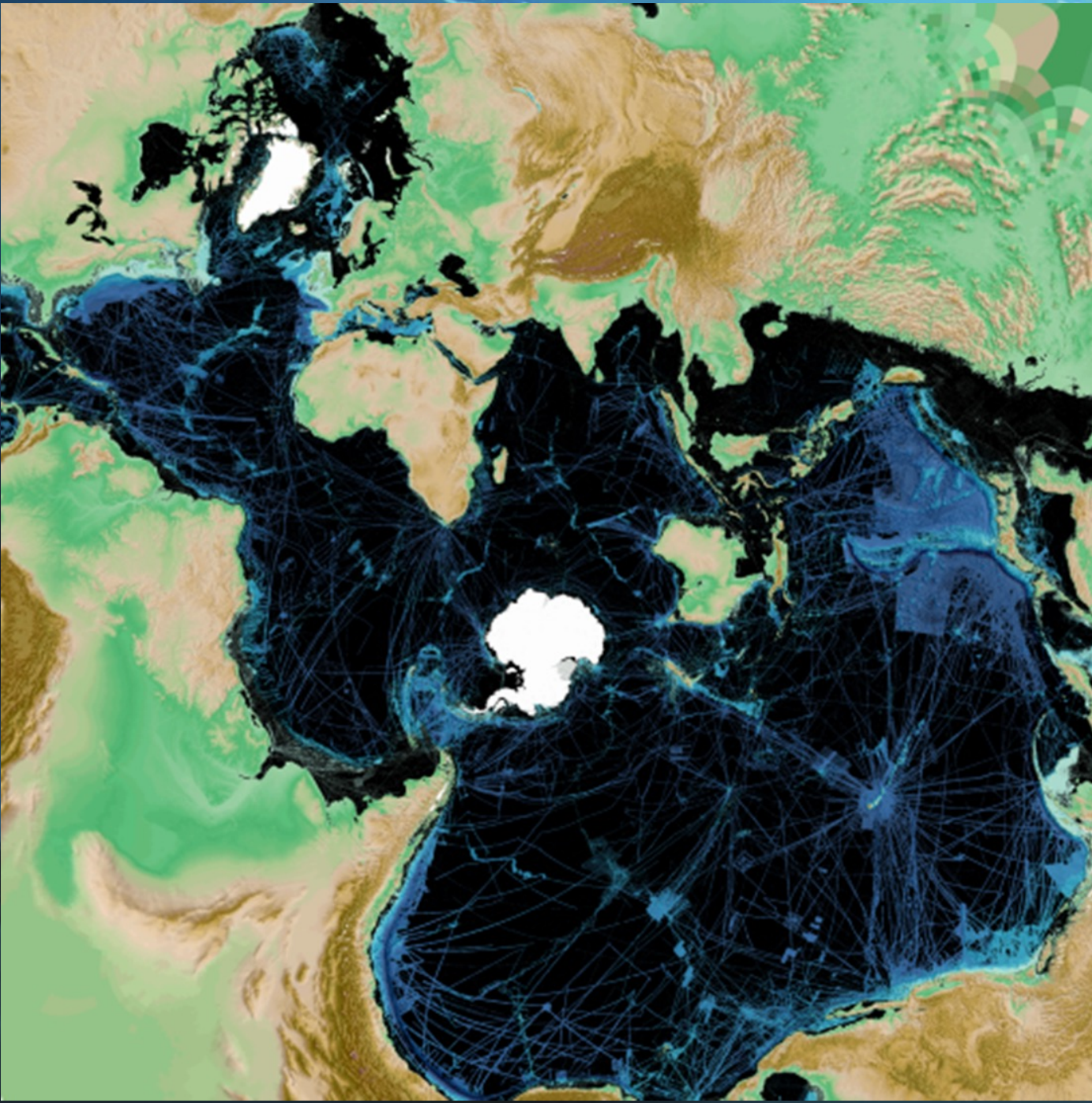
International
Hydrographic
Organization



Intergovernmental
Oceanographic
Commission



2021-2030
United Nations Decade
of Ocean Science
for Sustainable Development



It really is

Our One Ocean!

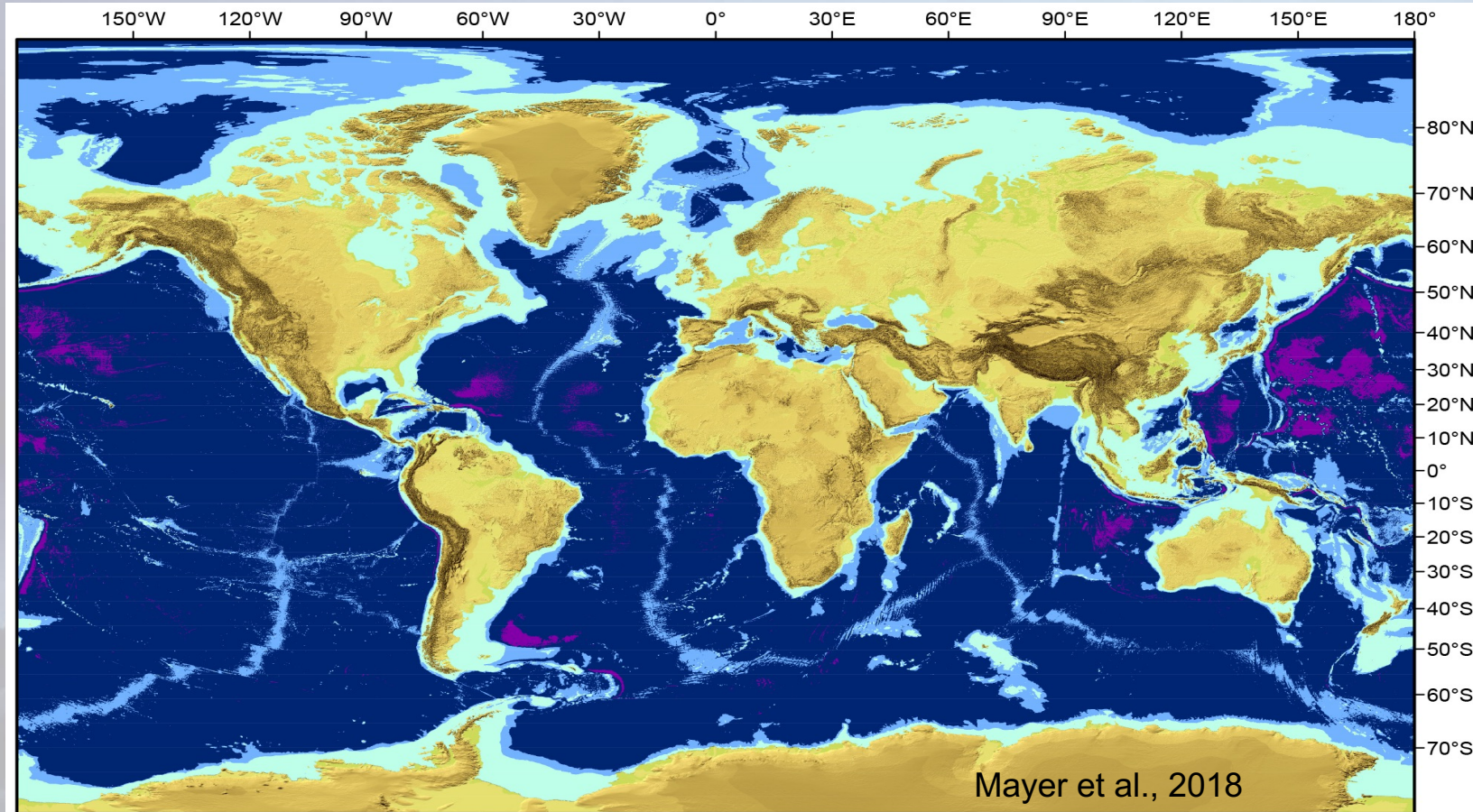
Seabed 2030 Vision:

**100% of our Ocean Floor
mapped by 2030**



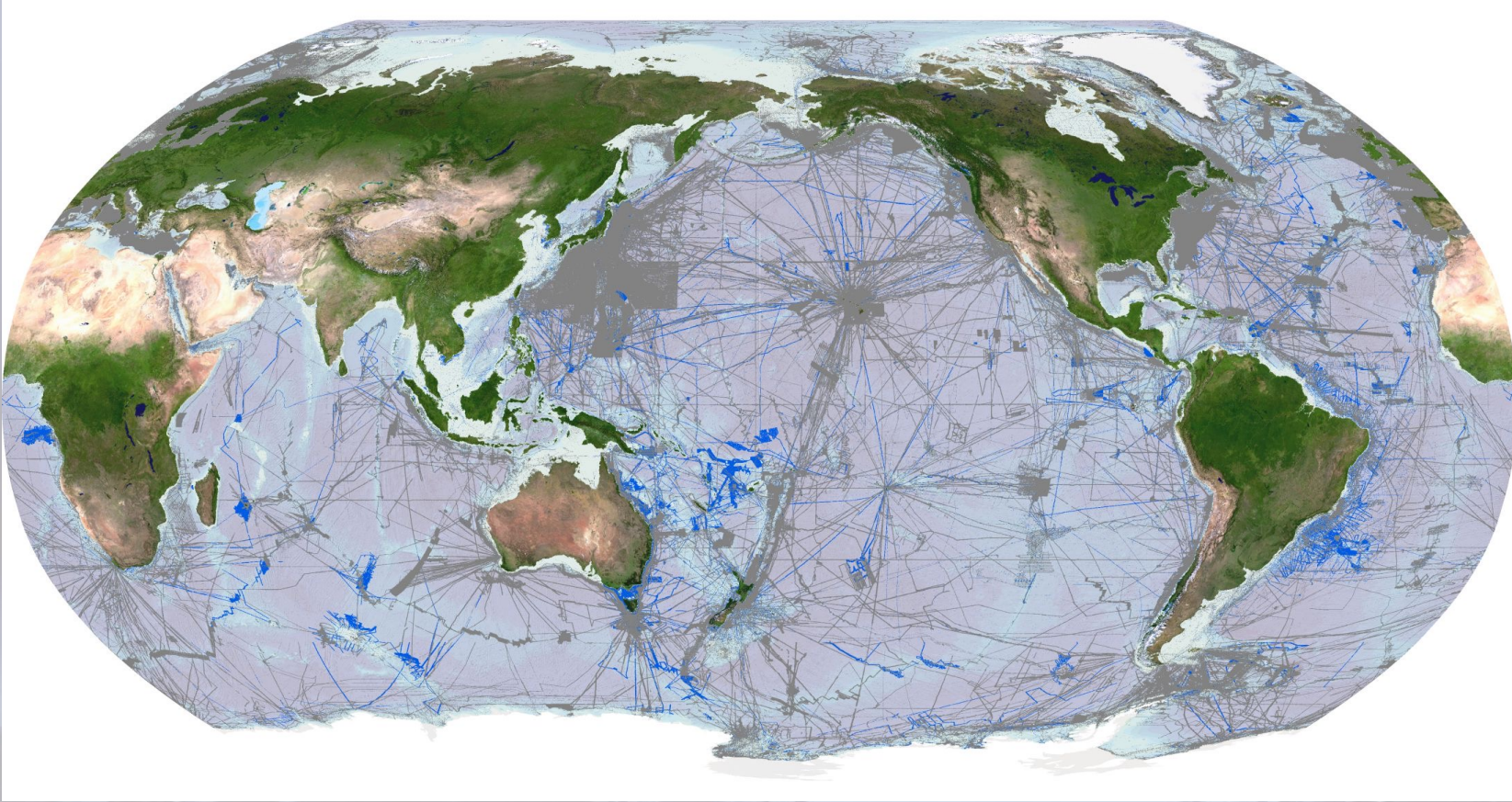
What does "100% mapped" mean?

Depth-dependent resolution goals



- 100x100 m (0-1500 m)
- 200x200 m (1500-3000 m)
- 400x400 m (3000-5750 m)
- 800x800 m (5750-11000 m)

Seabed 2030 - Release of the GEBCO_2022 Grid



23.6 % of the world's seafloor mapped

<https://www.gebco.net/>



The Network of Centers

North Pacific –Arctic Ocean

Stockholm University (**SU**)
University of New Hampshire (**UNH**)

Southern Ocean

Alfred-Wegener-Institut (**AWI**)

Atlantic-Indian Ocean

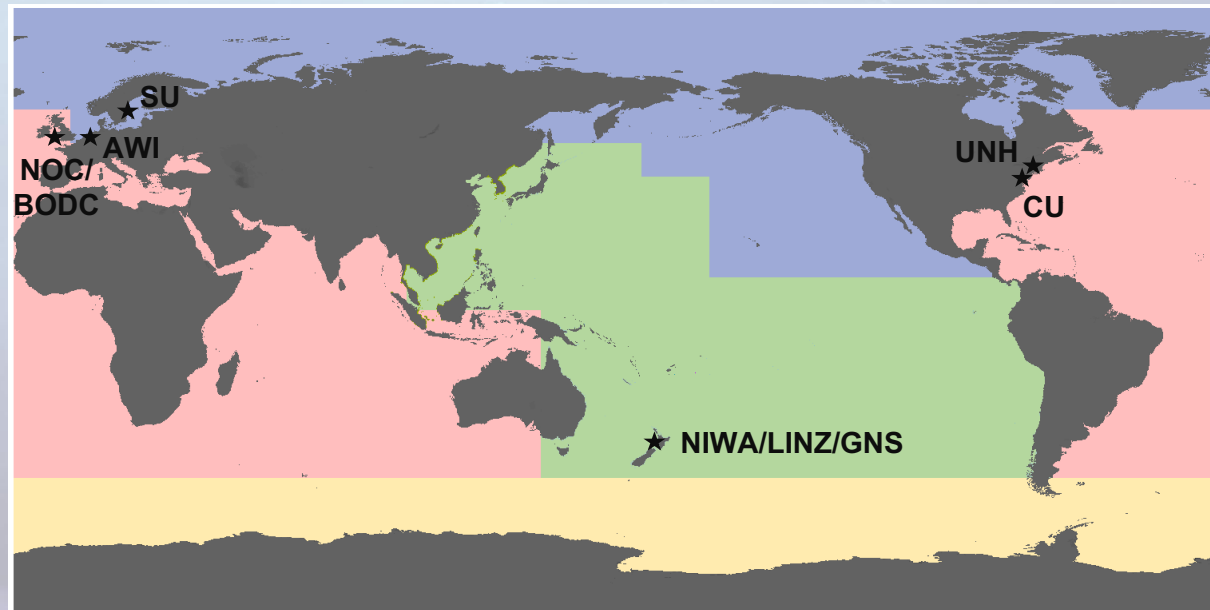
Lamont-Doherty Earth Observatory,
Columbia University (**CU**)

South-West Pacific Ocean

National Institute of Water & Atmospheric Research (**NIWA**)
Land Information New Zealand (**LINZ**)
GNS Science (**GNS**)

Global Center

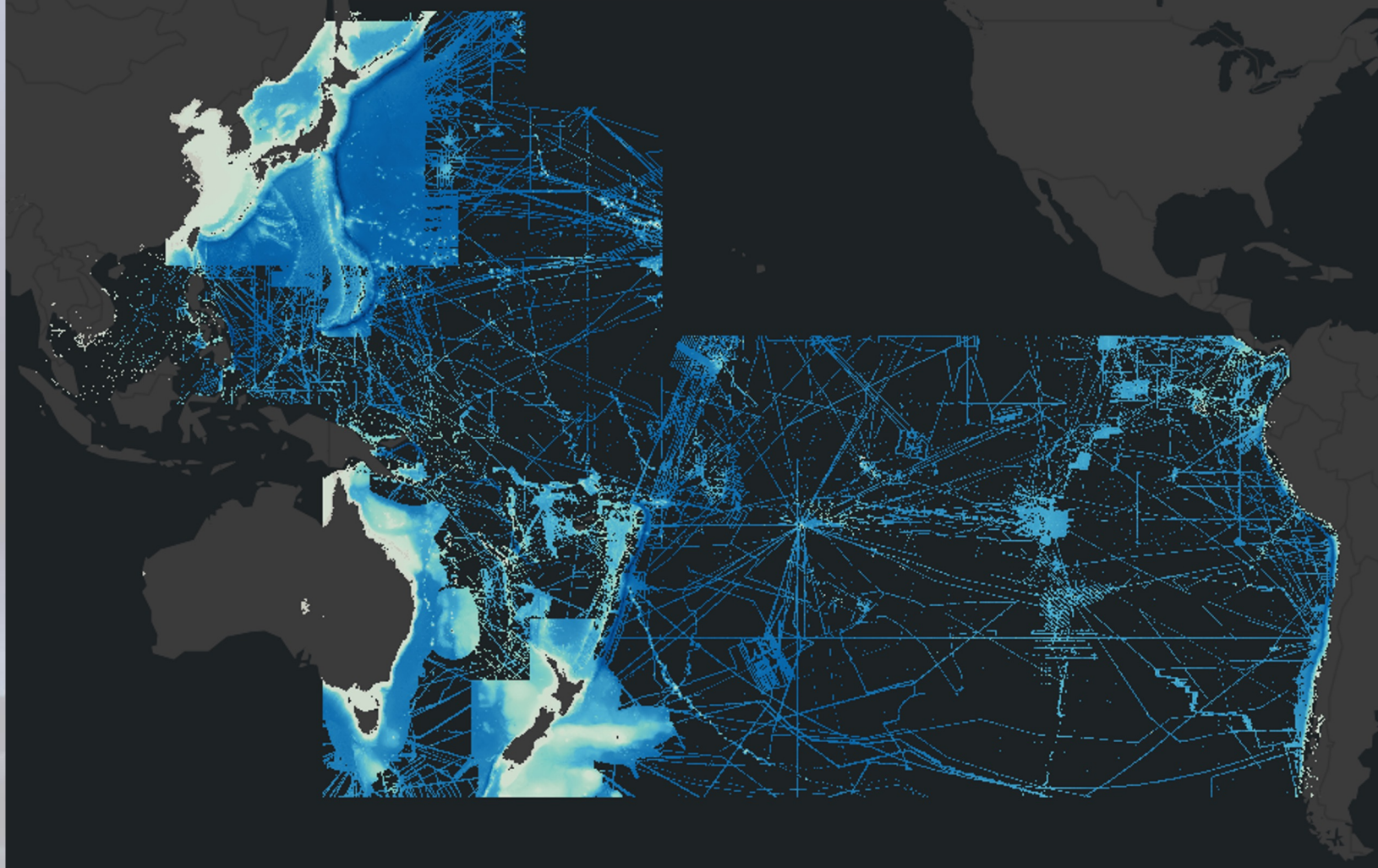
British Oceanographic Data Centre,
National Oceanography Centre (**NOC/BODC**)



THE NIPPON FOUNDATION-GEBCO



SaWPaC Regional Data Assembly for GEBCO 2022



24.5 % of SaWPaC
seafloor mapped



Dataset stacking, NOT averaging depths

Seabed 2030 Phase 2: Mapping the Gaps

$$A + B + C = 100\%$$

Ocean Frontier Mapping

- Use GEBCO Grid to inform location of future mapping
- Advocate for greater mapping activity
- Identify funding for mapping expeditions

Crowd Sourced Bathymetry

- Promoting CSB around the world
- Gaining support of, and data from, contributors at all levels

Technology Innovation

- What can Seabed 2030 do to accelerate uptake of technology to accelerate rate of bathymetric mapping?

SAILDRONE Missions



<https://seabed2030.org/news/saildrone-surveyor-completes-maiden-voyage-san-francisco-hawaii>

UTAS: Two Oceans
Two Technologies



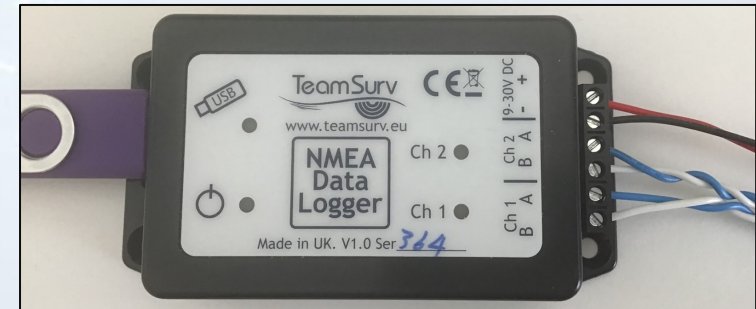
<https://www.mapthegaps.org/projects/utas-operations>



Seabed 2030 - South Pacific Crowdsourced Bathymetry Activities

Inkfish

- 3 Dataloggers installed on fleet since Nov. 2021
- MY Dapple
- 2 Support vessels



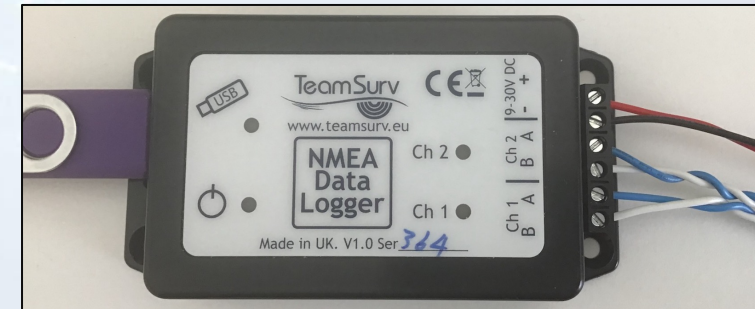
Seabed 2030 - South Pacific Crowdsourced Bathymetry Activities

NZ Department of Conservation

- Government ministry
- Responsible for marine parks and MPAs
- Datalogger installed Sep. 2022



Department of
Conservation
Te Papa Atawhai



Seabed 2030 - South Pacific Crowdsourced Bathymetry Activities

Coastguard New Zealand

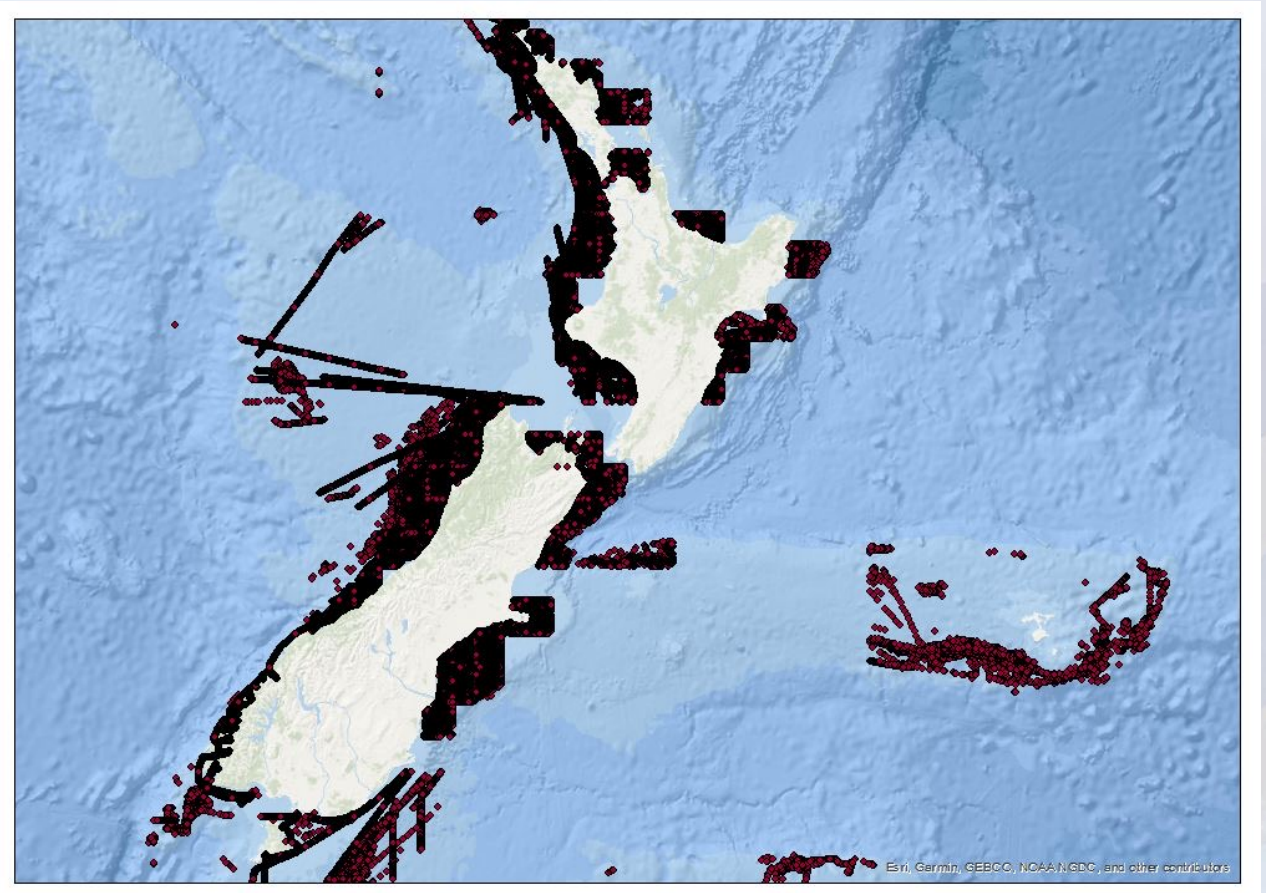
- Primary civilian marine search and rescue organisation.
- Have agreed to having loggers installed
- Willing to share existing bathy data



Seabed 2030 - South Pacific Crowdsourced Bathymetry Activities

Commercial fisheries

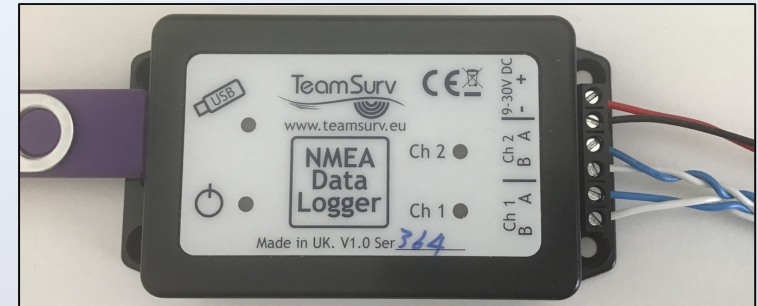
- Expression of interest shown
- Using fisheries echo sounders
- Individual skippers
- Fishing companies



Seabed 2030 - South Pacific Crowdsourced Bathymetry Activities

West Pacific

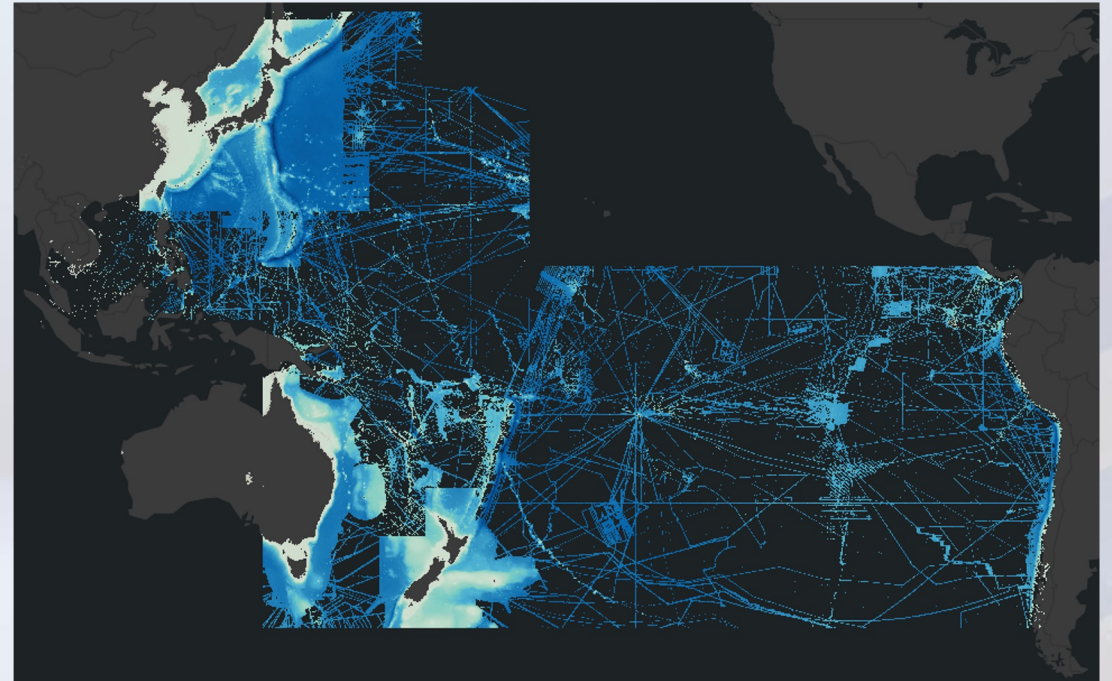
- Palau (~50 loggers installed by US Navy to date)
- Samoa fisheries (expression of interest)
- Solomon Islands (expression of interest)
- Kiribati (expression of interest)



Seabed 2030 - South Pacific Crowdsourced Bathymetry Activities

East Pacific

- Presentation in MSI workshop in Colombia
Sept 2022
- Next SaWPaC annual meeting planned in
Lima, Peru
12-14 Julio 2023



Target Engagement with countries/entities in the region

Working with the IHO Regional Hydrographic Commission CSB/Seabed 2030 Coordinators

- Promote ocean mapping activities
- Promote CSB
- Capacity-building
- Data gaps identification
- Coordinate mapping missions



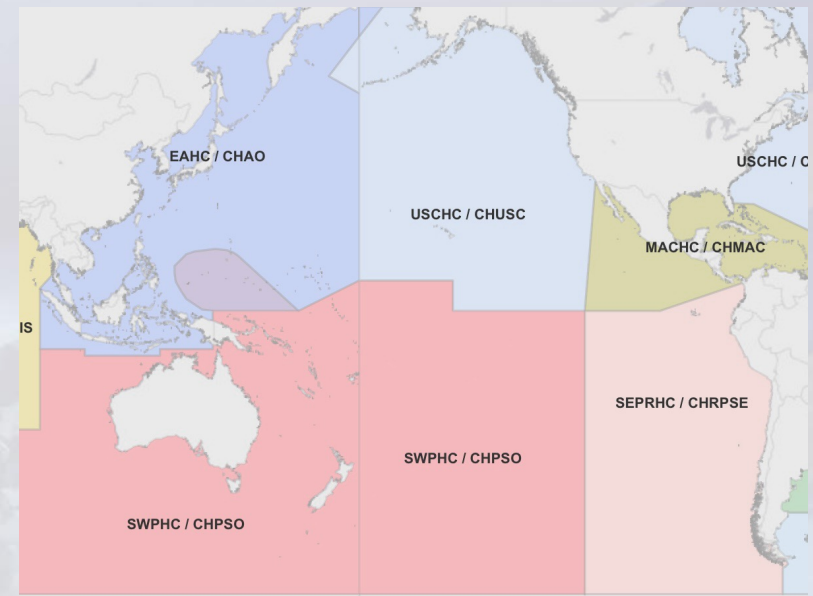
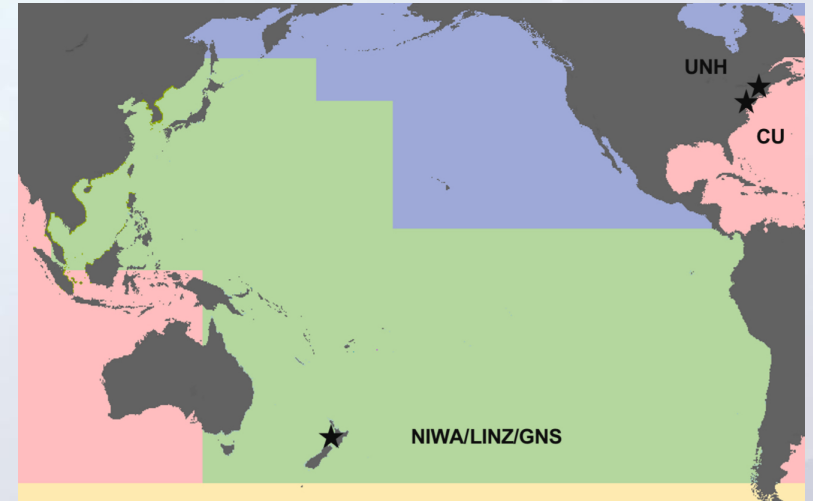
Please answer the SaWPac Community Survey

<https://arcg.is/0ibPqm>

Seabed 2030 - South Pacific Crowdsourced Bathymetry Coordinators

Three IHO Regional Hydrographic Commissions

1. East Asia Hydrographic Commission
CSB Coordinator – **JHOD, Japan**
2. South West Pacific Hydrographic Commission
CSB Coordinator – **Sturt Caie, LINZ**
3. South East Pacific Hydrographic Commission
CSB Coordinator - **None**



Thank you

