

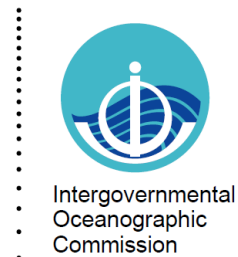
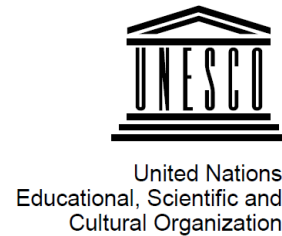


The Nippon Foundation – GEBCO Seabed 2030 Project



Seabed 2030:

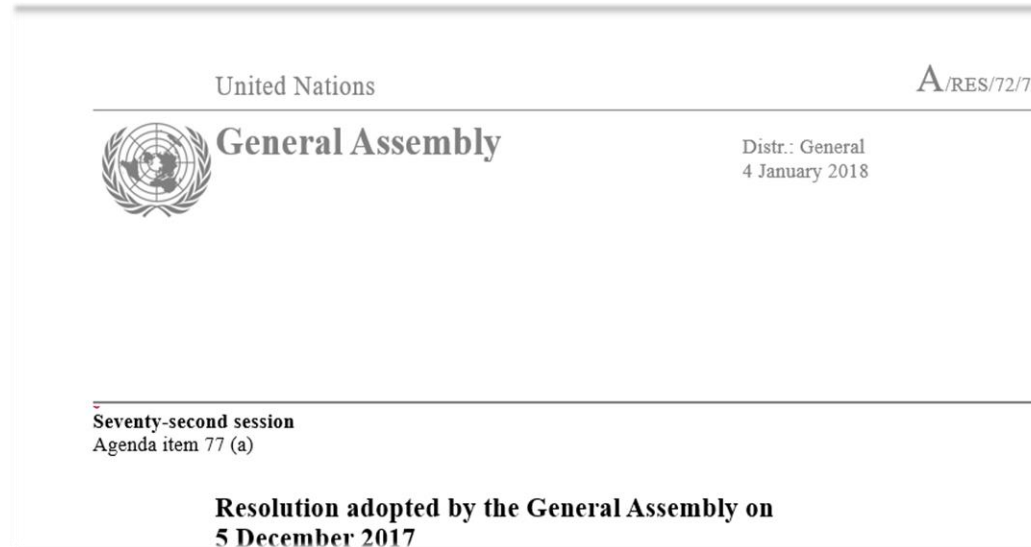
a collaborative project between The Nippon Foundation and GEBCO



Seabed 2030 Vision:

By 2030, the World's oceans are fully mapped and the freely-available GEBCO Ocean Map is a complete map of global ocean bathymetry.

The Decade needs an Ocean Map



5th December 2017: Resolution A/RES/72/73 of the UN General Assembly declaring The Decade



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

Seabed 2030 supporting The Decade



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

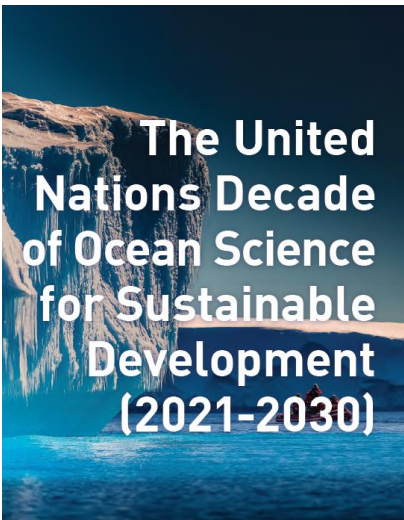
December 2017: Resolution A/RES/72/73 of the UN General Assembly

‘283. *Notes* that the depth of a **significant percentage of the world’s oceans** ... has **yet to be measured directly** and that **bathymetric knowledge underpins** the **safe, sustainable** and **cost-effective** execution of almost **every human activity** in, on or under the sea;’

‘284. *Welcomes* the work of **GEBCO** and the subsequent development of the **Seabed 2030 project** for improving bathymetry globally;’

‘285. *Encourages* Member States to consider contributing to mechanisms that encourage the **widest possible availability of all bathymetric data**, so as to support the sustainable development, management and governance of the marine environment;’

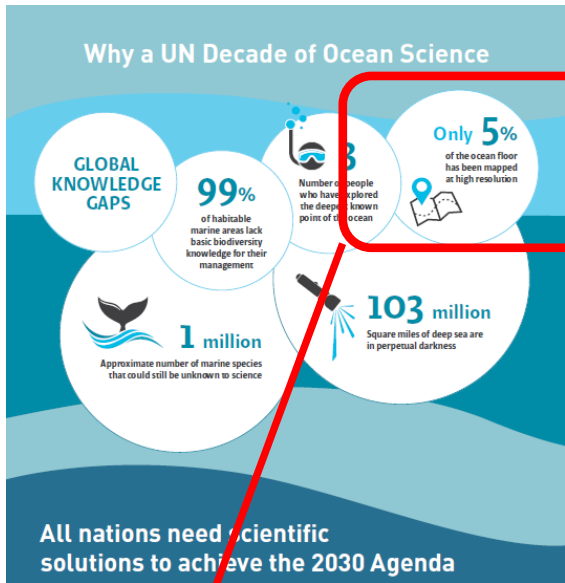
Seabed 2030 supporting The Decade



The Ocean We Need for the Future We Want



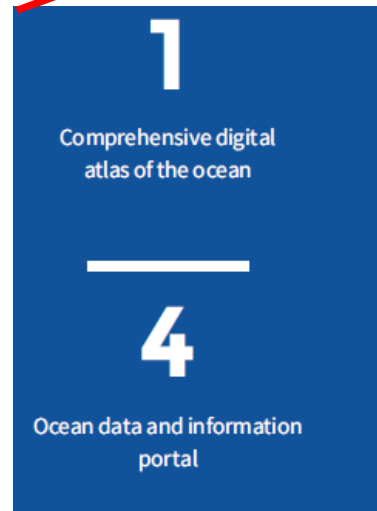
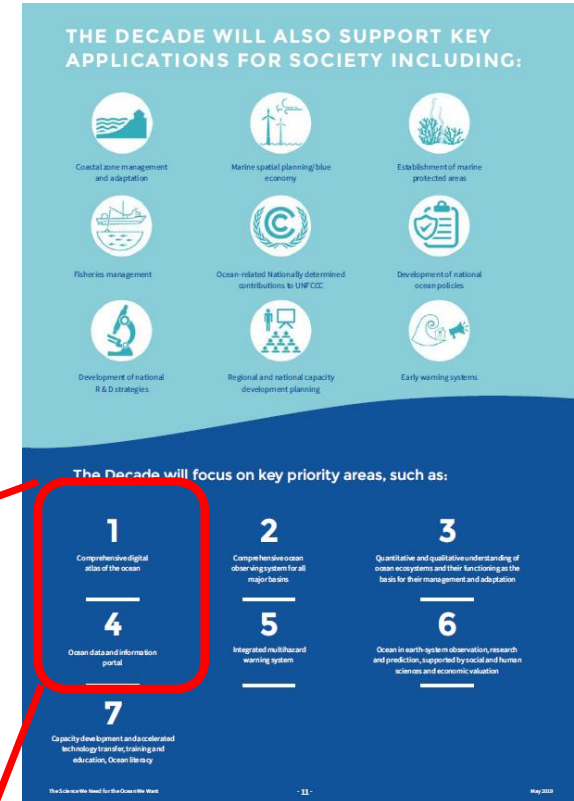
One Planet, One Ocean



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



R&D Priorities 1 & 4



How much of the ocean is mapped?



$$X + Y + Z = 100\%$$

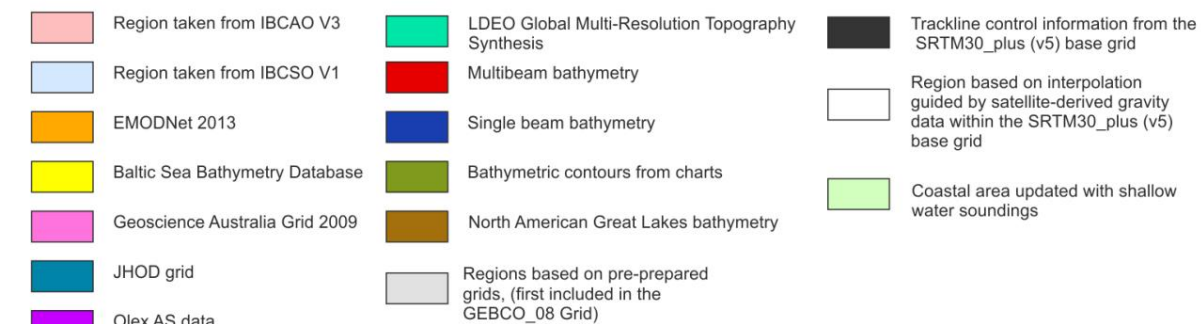
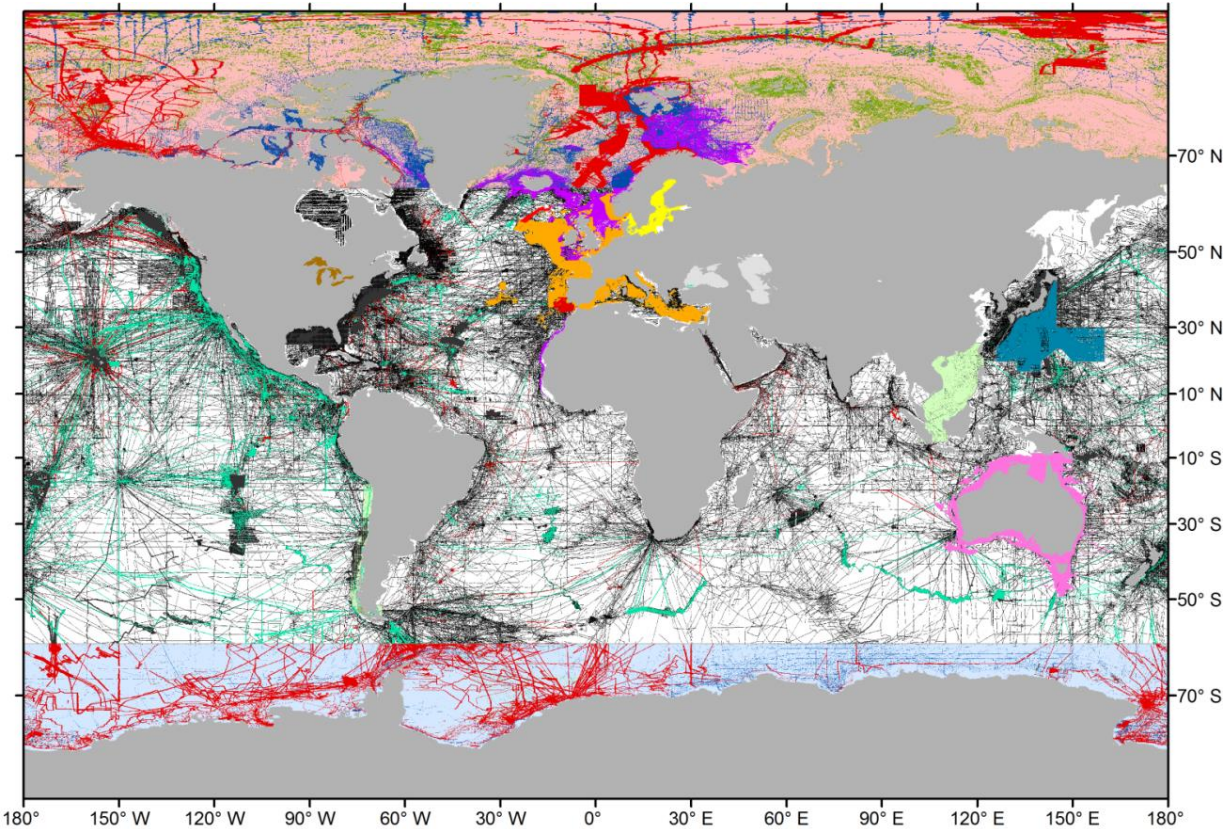
X: Data in GEBCO 2014

X = 6%

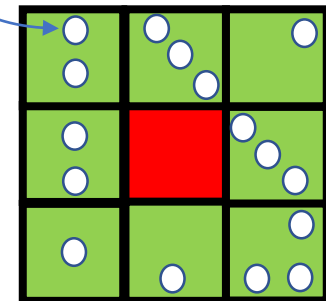
Y: Data that exists but not yet in GEBCO

- Public
- Embargoed

Z: Data that must be measured (map the gaps)

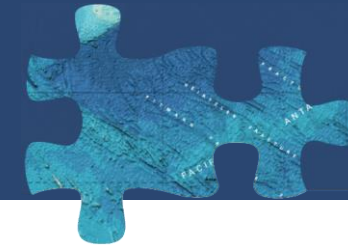


Data point



6% of GEBCO 2014 cells have data
94% interpolated data

Progress to date – GEBCO 2019



$$X + Y + Z = 100\%$$

X: In GEBCO

Y: Exists, not in GEBCO

Z: The gaps

X+Y = mapped

GEBCO 2014

$$X = 6\%$$

32,000,000 square kilometres

GEBCO 2019

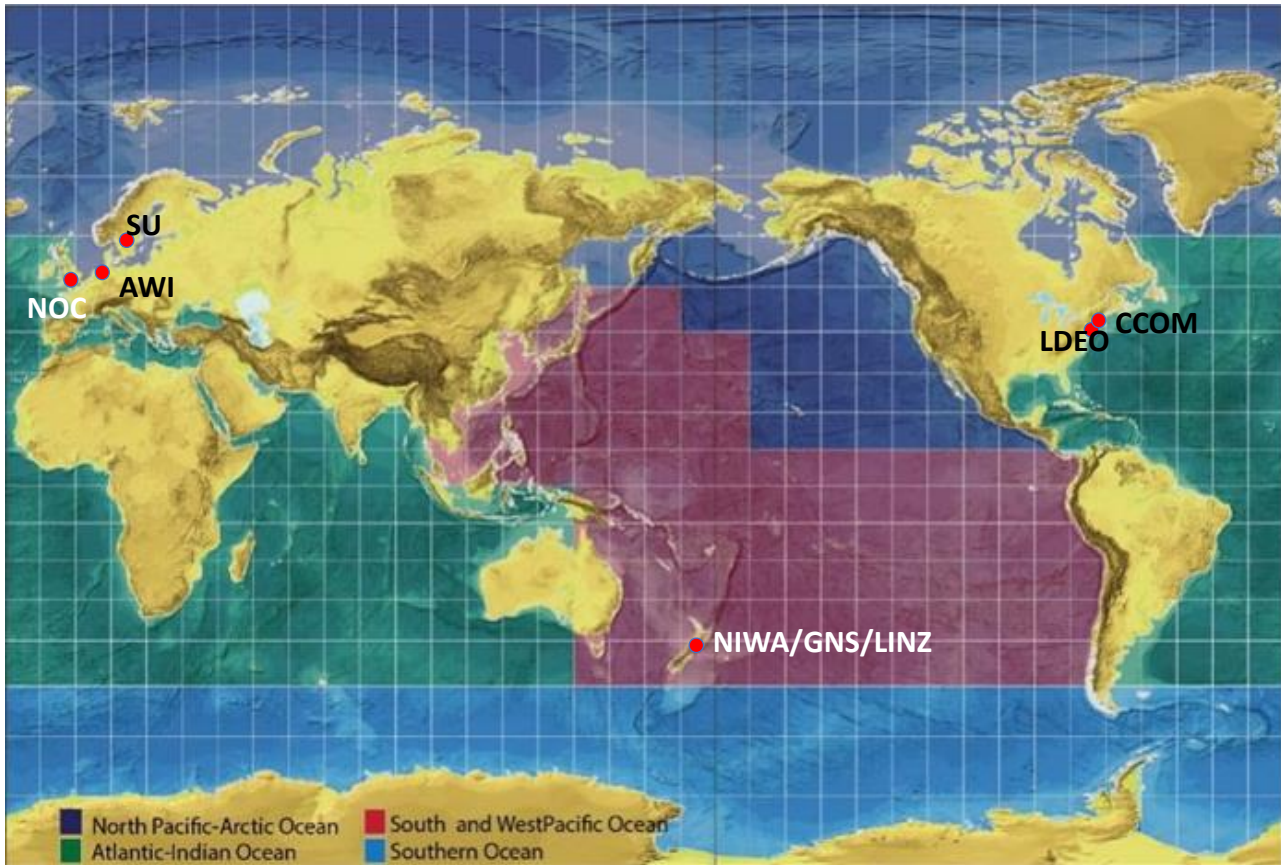
$$X = 15\%$$





- Existing data**
 - Share data with Seabed 2030

- Regional mapping initiatives**
 - Share maps with Seabed 2030



REGIONAL CENTERS

1. North Pacific-Arctic Ocean (SU & CCOM)



Stockholm University



University of New Hampshire

2. South & West Pacific Ocean (NIWA)



NIWA
Taihoro Nukurangi



Land Information
New Zealand
toitū te whenua

3. Atlantic-Indian Ocean (LDEO)

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

4. Southern Ocean (AWI)



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG

5. GLOBAL CENTER



National
Oceanography Centre

NATURAL ENVIRONMENT RESEARCH COUNCIL

6. DATA CENTER

IHO DCDB



2. Optimize

Seabed 2030 encourages all vessel operators to optimize data collection from existing equipment:

- *Turn it on*
- *Collect it*
- *Share it*



Seabed 2030 provides Member States with a mechanism to respond to

UN General Assembly Resolution A/RES/72/73

‘285. *Encourages* Member States to consider contributing to mechanisms that encourage the **widest possible availability of all bathymetric data**, so as to support the sustainable development, management and governance of the marine environment;’

Seabed 2030 allows Member States to make a cost-effective contribution to:

- ✓ UN Decade activities
- ✓ completing the GEBCO Ocean Map,
- ✓ producing the ‘comprehensive digital atlas of the ocean’ (R&D Priority 1)