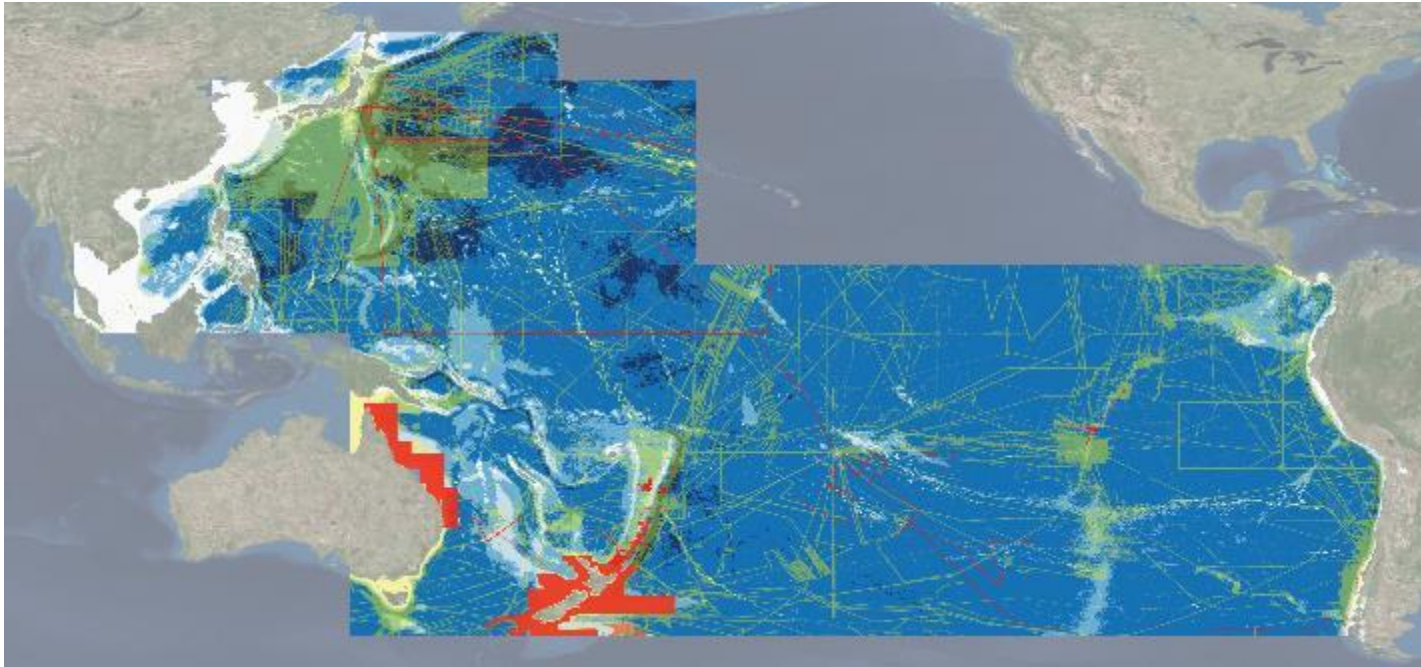


The South and West Pacific Centre



123,515,000 km² of ocean

67,000,000 km² outside national jurisdiction

39 countries and territories

~80% deeper than 3000 m

Includes the two deepest ocean trenches:

Mariana Trench (10,994 m)

Kermadec Trench (10,047 m)

The South and West Pacific Centre Data coverage



Based on Oct 2018 Gap analysis

	Area (km ²)	% of area	Available Data (km ²)	Available Data (% of area)
0 - 200 m	4,989,826	4%	1,342,377	27%
200 - 1500 m	5,258,836	4%	2,156,631	41%
1500 - 3000 m	13,068,933	11%	4,600,667	35%
3000 - 5750 m	93,198,225	75%	19,692,187	21%
5750 - 11000 m	6,999,943	6%	2,919,090	42%
Total	123,515,763		30,710,952	25%

SaWPac mainly deep water ->

Seabed 2030 Phases



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

GEBCO_2014

Data
NOT
in Grid

Map
the
Gaps

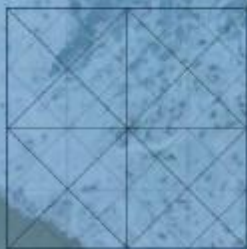


KONGSBERG

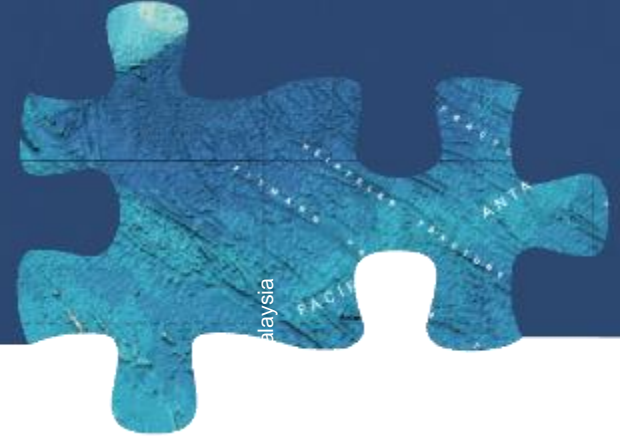
SEABED 2030

Mapping Cloud Integration

26/09/2018

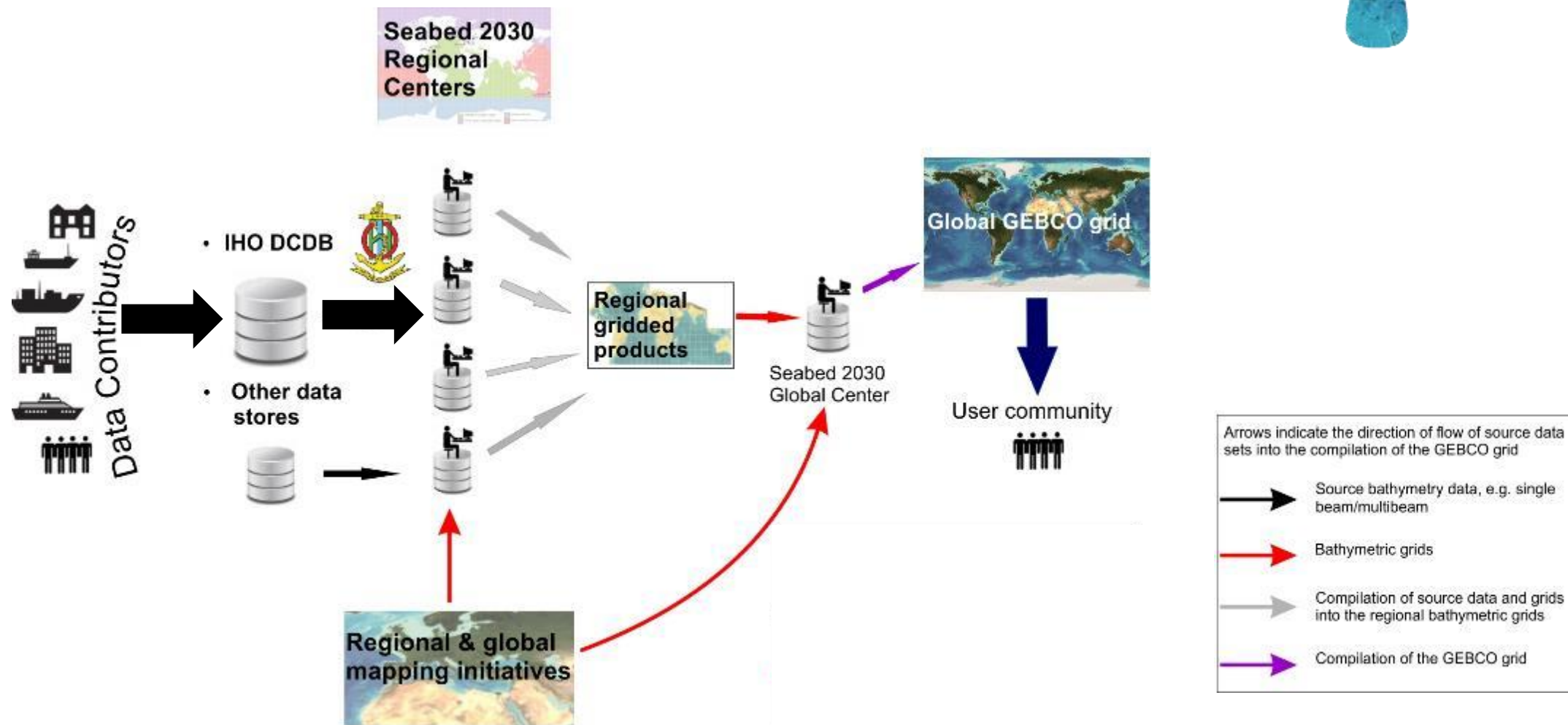


How to complete the GEBCO Grid?



- ✓ Coordinate and inspire mapping expeditions/surveys
- ✓ Global ocean mapping **community**
- ✓ Vast amounts of **data collected** but yet NOT available for the GEBCO Grid (Y)
- ✓ Build on **SCRUM** as GEBCO regional mapping model
- ✓ Build on **TSCOM** for technical advances
- ✓ **Technology innovation**
- ✓ Human **capacity development**

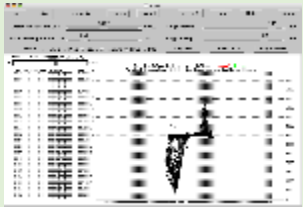
Seabed 2030 Preferred Data Flow



Other supported data flows



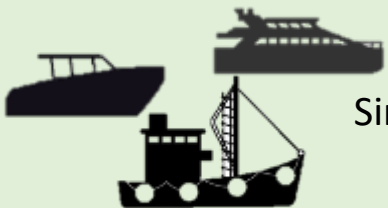
Data Sources



Raw &
Processed
Swath Files



ENC xyz



Single-beam



Gridded data

Options to submitting data directly to Regional or Global Centers:

1) Public data access (*preferred*)

Data forwarded to IHO-DCDB for archive and public access

2) Restricted data access

Data forwarded to IHO-DCDB for archive and restricted access

3) Private data access

Data not forwarded to IHO-DCDB, archived at Seabed 2030 Center
Usage restricted to only inclusion in GEBCO Products;
no distribution of data

How you can get involved



- Contribute data
- Acquire data to fill gaps in coverage
- Regional Mapping Committees
- GEBCO Meetings
- Spread the word!



<https://seabed2030.gebco.net>

@seabed2030 

South and West Pacific Regional Center Mapping Committee Inaugural Workshop

Inaugural Seabed 2030 South and West Pacific Meeting

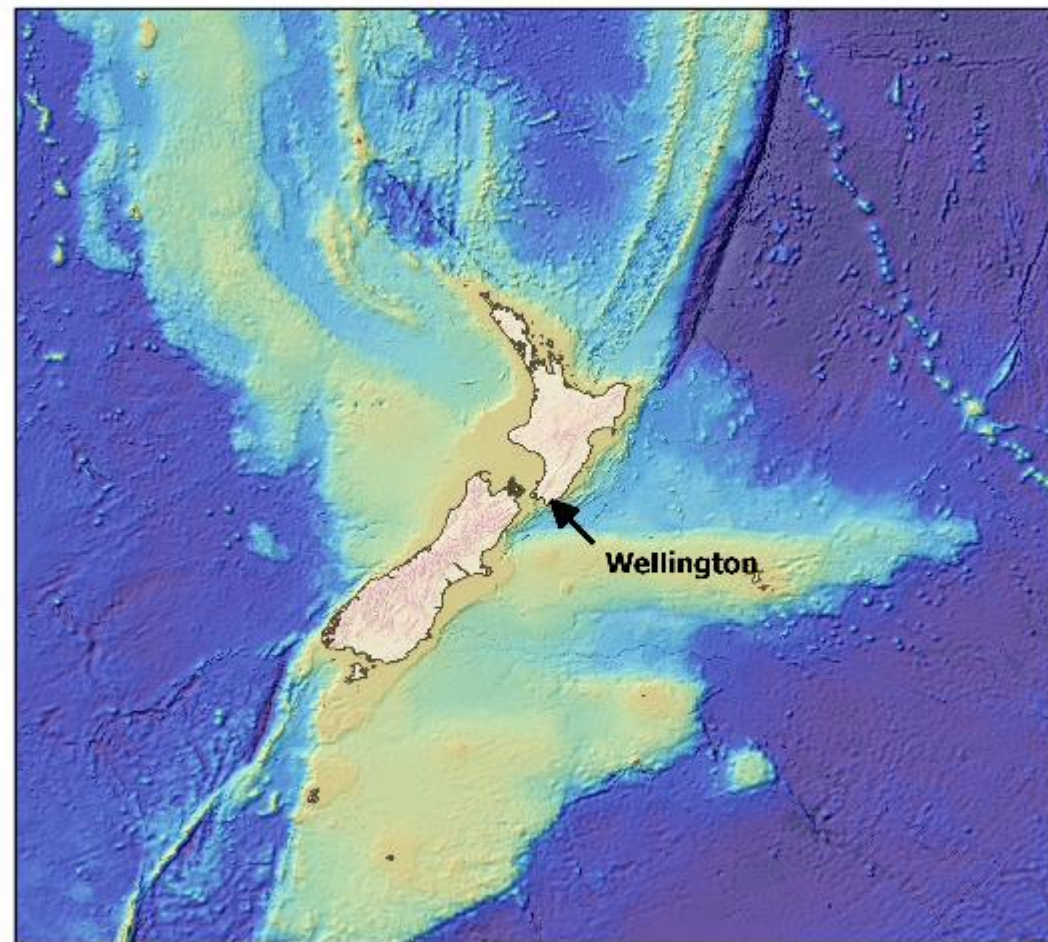
4-6 March 2019 - Wellington, New Zealand

All welcome!

- Establish Regional Mapping Committee
- Identify sources of bathymetric data
- Methods for data sharing and management
- Identify upcoming voyages

Register on seabed2030.gebco.net/pacific/

Contact me on pacific@seabed2030.org



Call to Action



- Support data availability at Seabed 2030 target resolution
- Facilitate legal availability at Seabed 2030 target resolution
- Engage with Regional Centers or Global Center
- Support & promote GEBCO activities & products

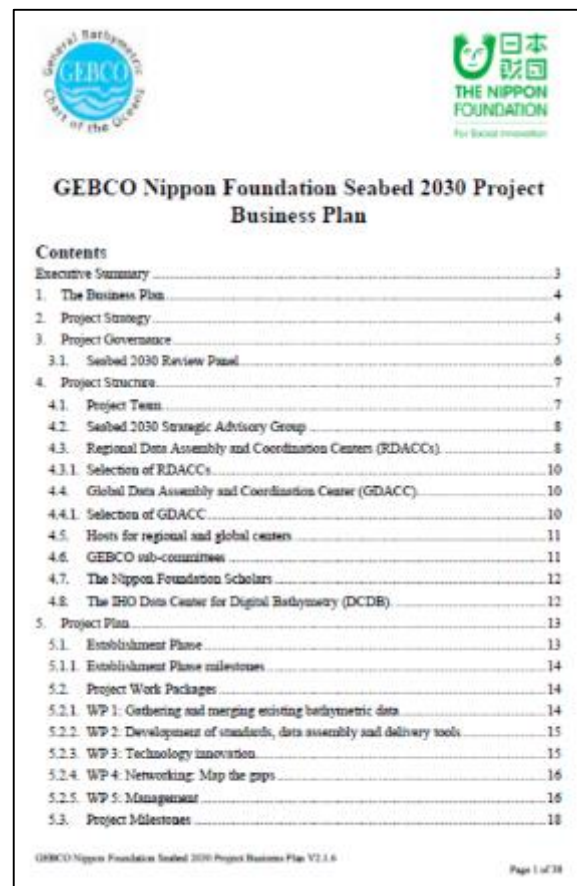
Key Documents



Roadmap

<https://seabed2030.gebco.net/>

10 year Business Plan



GEBCO Nippon Foundation Seabed 2030 Project Business Plan

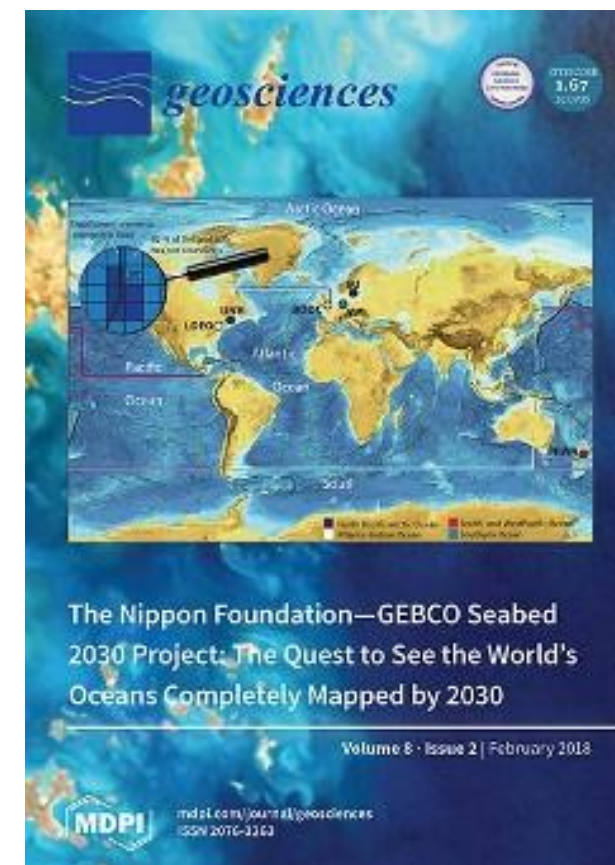
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Technical paper

<https://seabed2030.gebco.net/>
doi:10.3390/geosciences8020063



Thank you!

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NIWA

Taihoro Nukurangi

Break down of the source of data types that the GEBCO grid is based on



Grid cell type (30 arc-second)	GEBCO_2014	New grid
Interpolation guided by satellite-derived gravity data	66.5%	62.4%
Interpolation guided by computer programme, e.g. GMT	14%	14.3%
Multibeam	9%	12.4%
Single beam	1.9%	1.8%
Pre-generated grid	2.7%	4.3%
Unidentified track type	3.9%	2.8%
Isolated soundings, e.g. ENC soundings	0.1%	0.1%
Contours	1.9%	1.9%