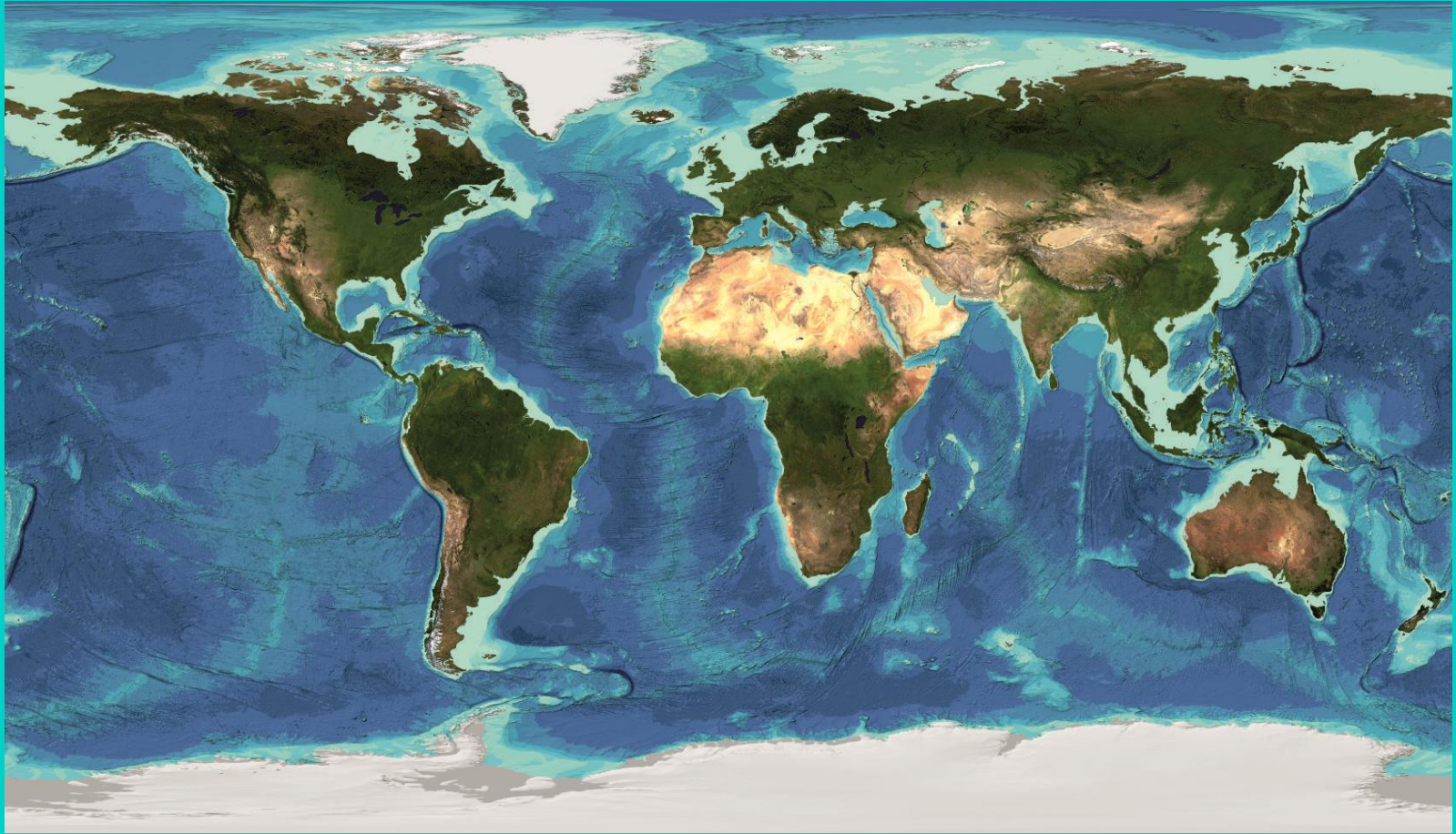


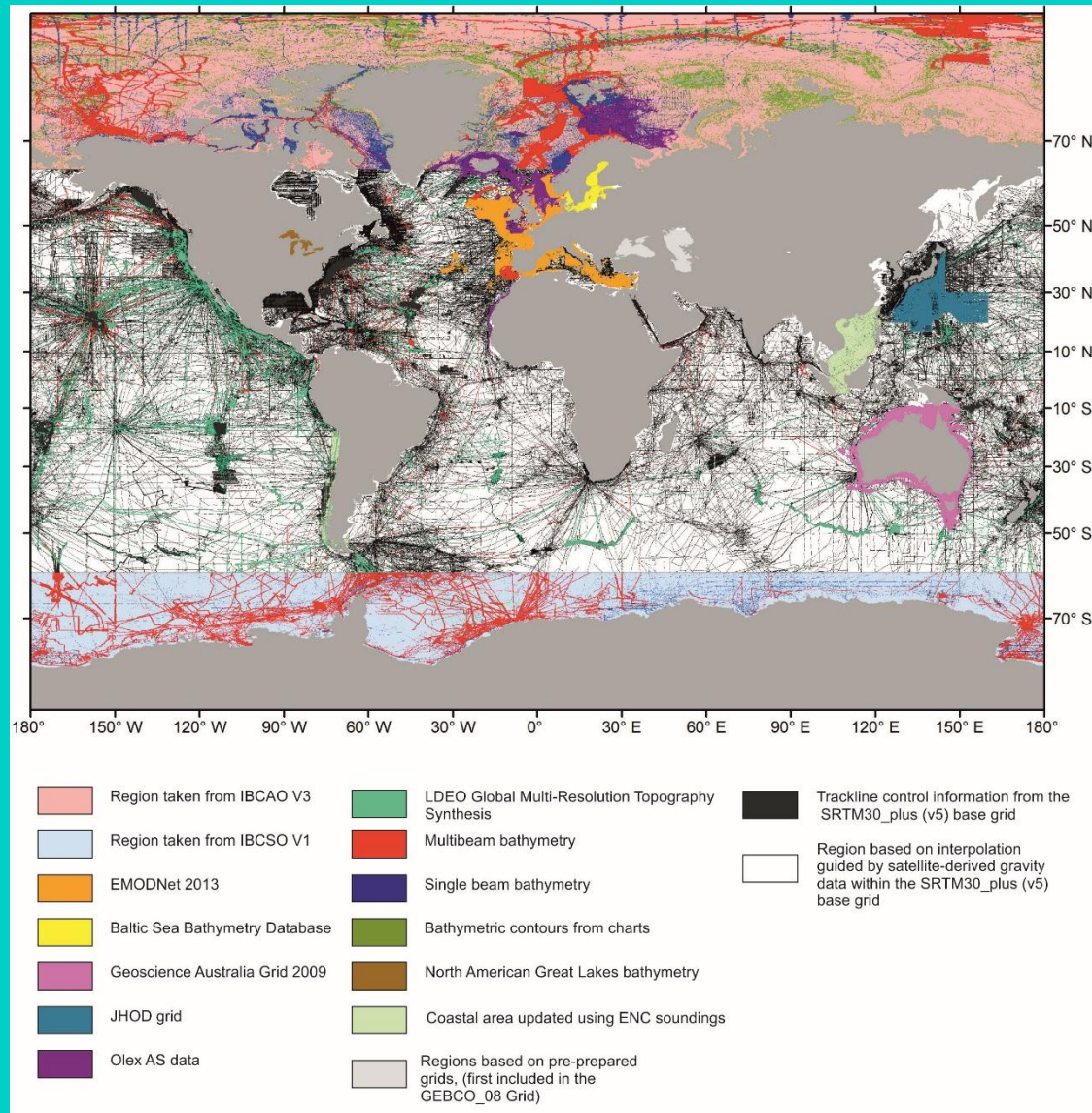
Updating the GEBCO Grid

Pauline Weatherall, GEBCO Digital Atlas Manager, British Oceanographic Data Centre (BODC), National Oceanography Centre (NOC), Liverpool, UK

Current GEBCO grid – GEBCO_2014



Current GEBCO grid – GEBCO_2014



Plans for a new GEBCO grid (2017)

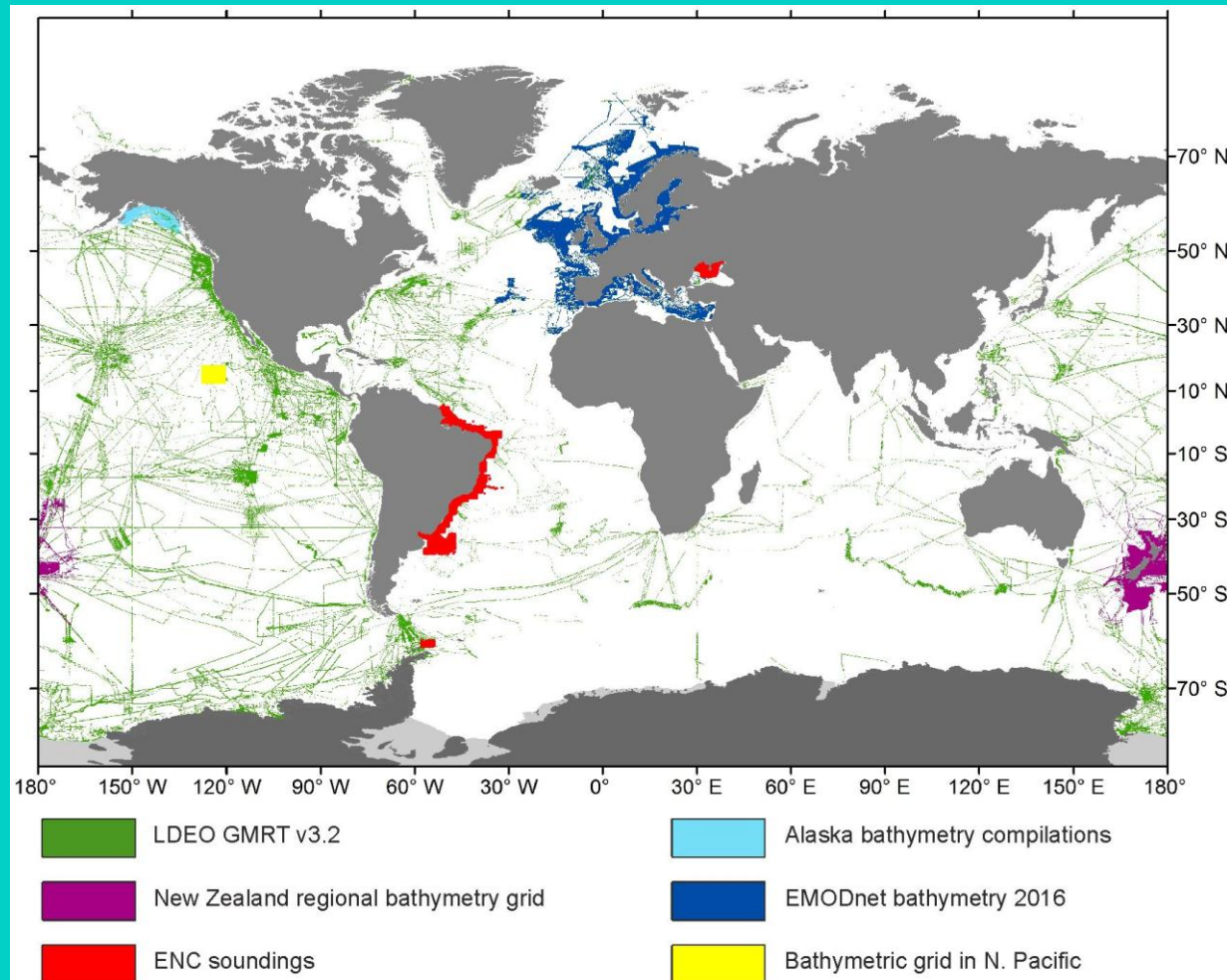
Plans for a new GEBCO grid (2017)

It's aimed that the grid shall:

- Be a global grid at 30 arc-second intervals
- Use the existing GEBCO_2014 Grid as a base
- Include a number of new regional grids, multibeam bathymetry data sets and areas updated with ENC soundings

Plans for a new GEBCO grid (2017)

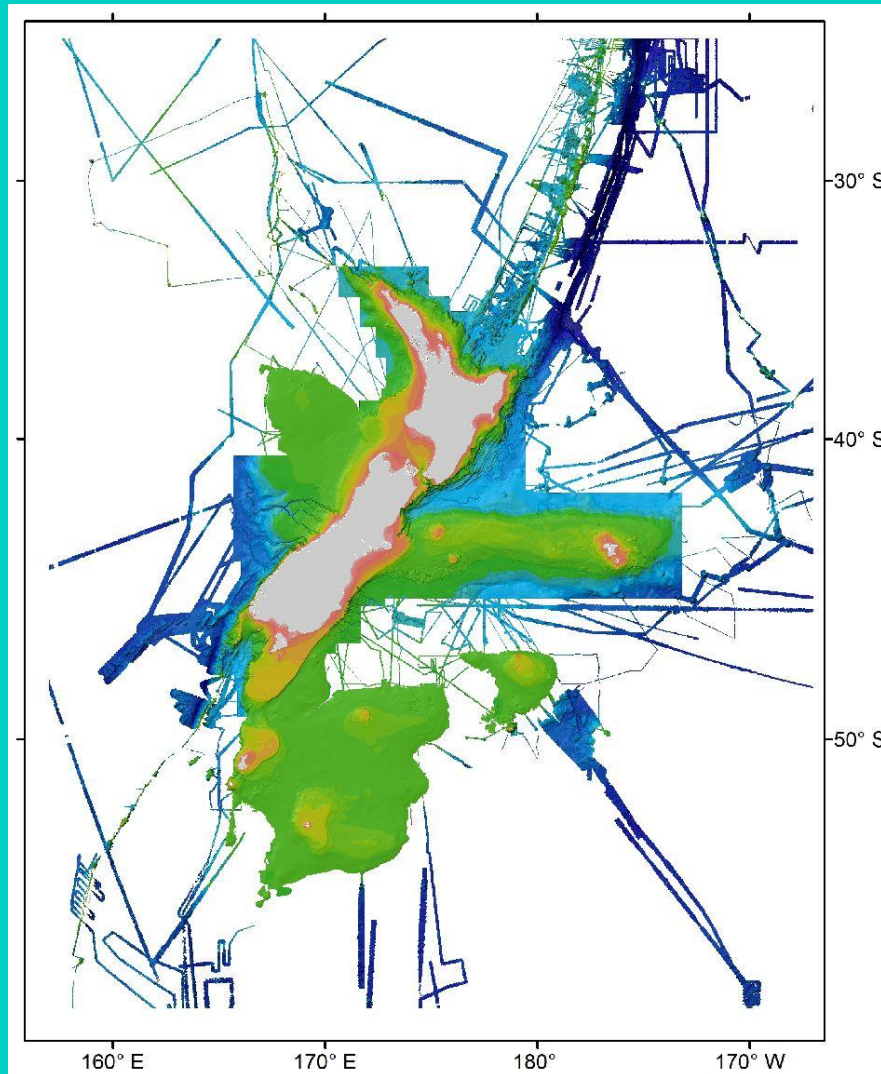
In addition to bathymetric trackline data sets made available through IHO DCDB and other databases. A number of new data sets have been received for inclusion in the global GEBCO grid.



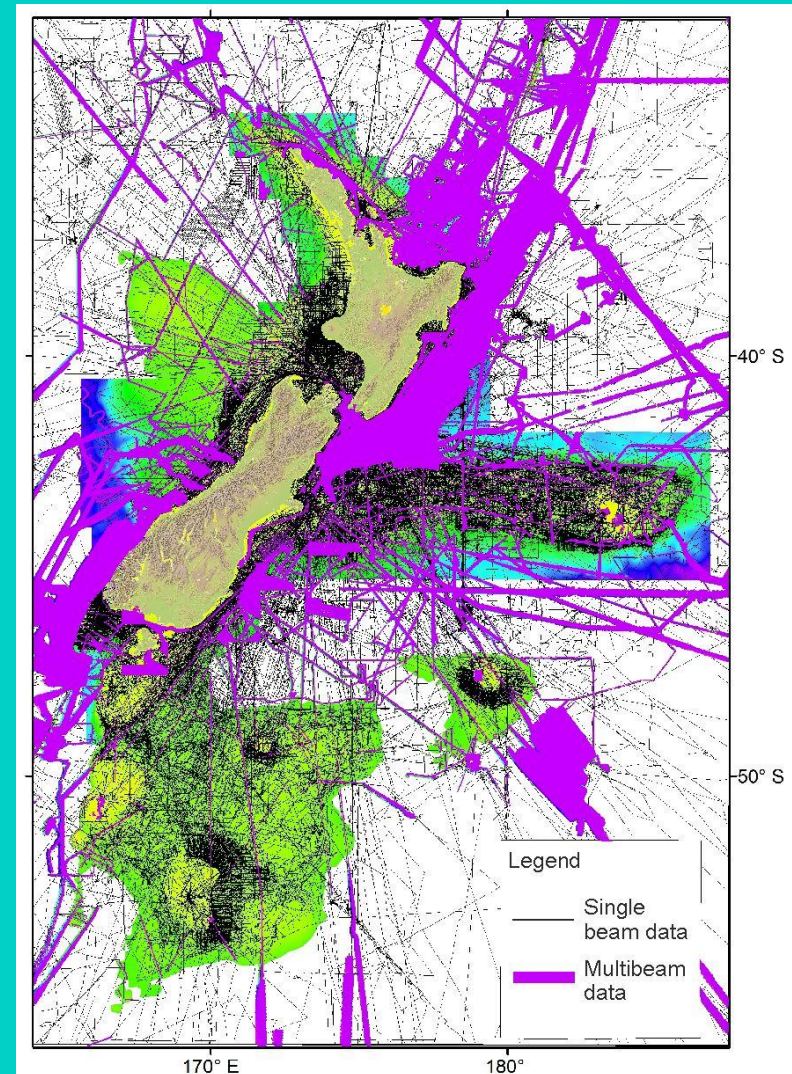
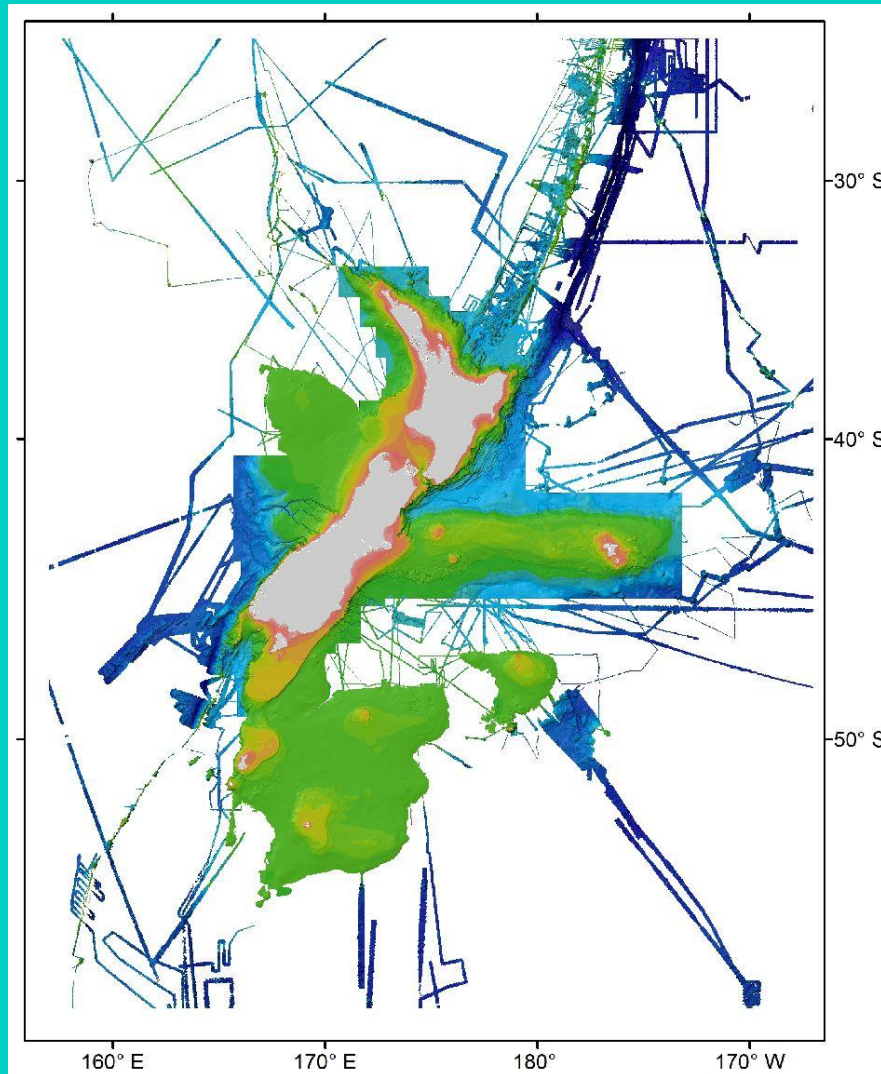
Plans for a new GEBCO grid (2017)

- New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand.
- EMODnet 2016 release – bathymetric grid for European waters.
- Global Multi-Resolution Topography Data Synthesis (GMRT) v3.2 - compilation of edited multibeam sonar data provided by the Lamont-Doherty Earth Observatory (LDEO) of Columbia University, USA.
- ENC bathymetric sounding data sets supplied for their coastal waters by Brazil, Ukraine and Uruguay.
- Alaska bathymetry compilations for the Aleutian Islands, Cook Inlet, central Gulf of Alaska and Norton Sound. Made available by the Alaska Fisheries Science Center.
- Bathymetric grid, based on multibeam data, for a region of the North Pacific, 1,800 km southwest of the Mexican Baja Peninsula. Provided by the DEME group, Netherlands.
- Bathymetric grid for the Israeli EEZ.

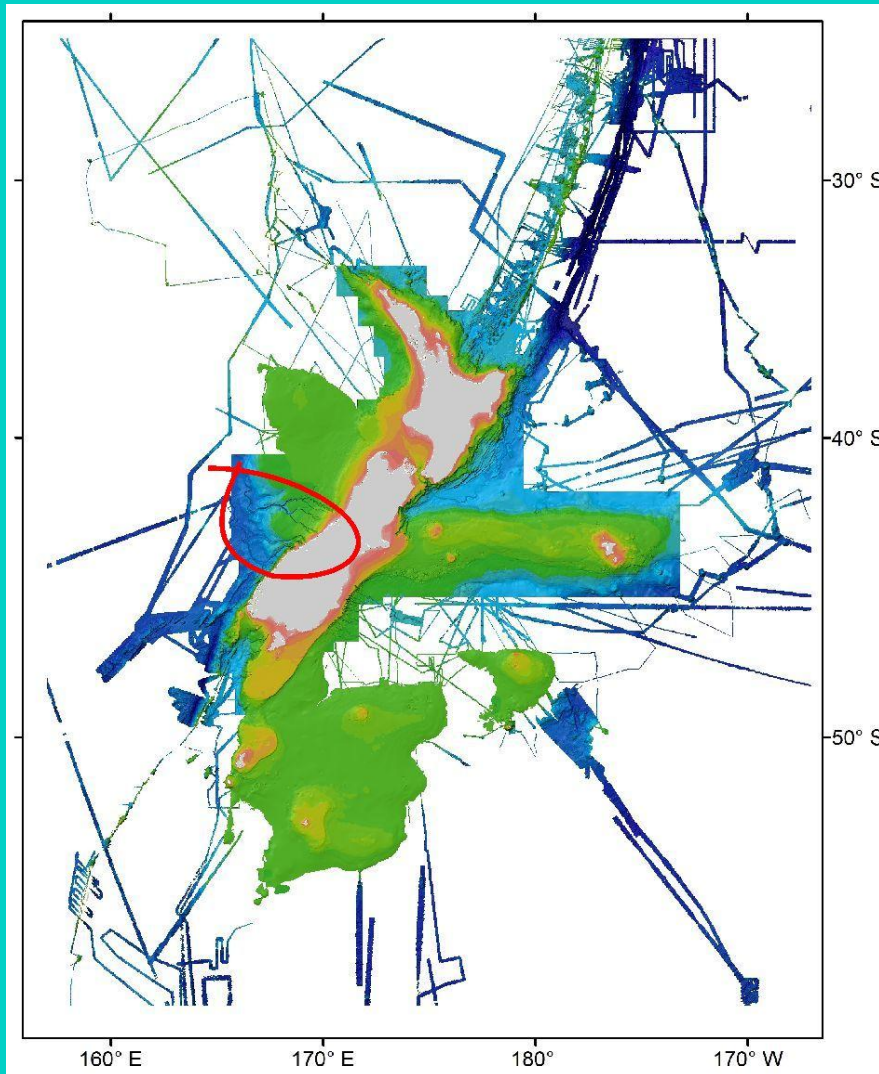
New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand



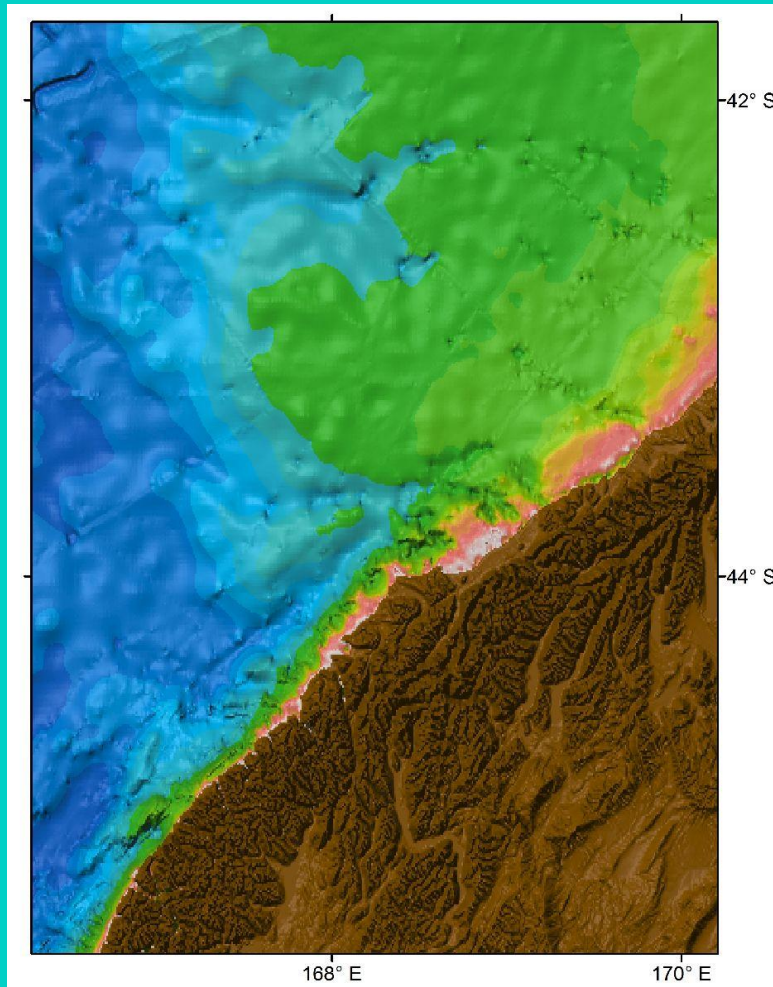
New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand



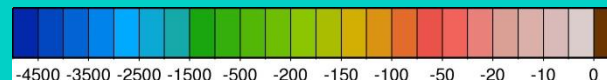
New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand



New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand

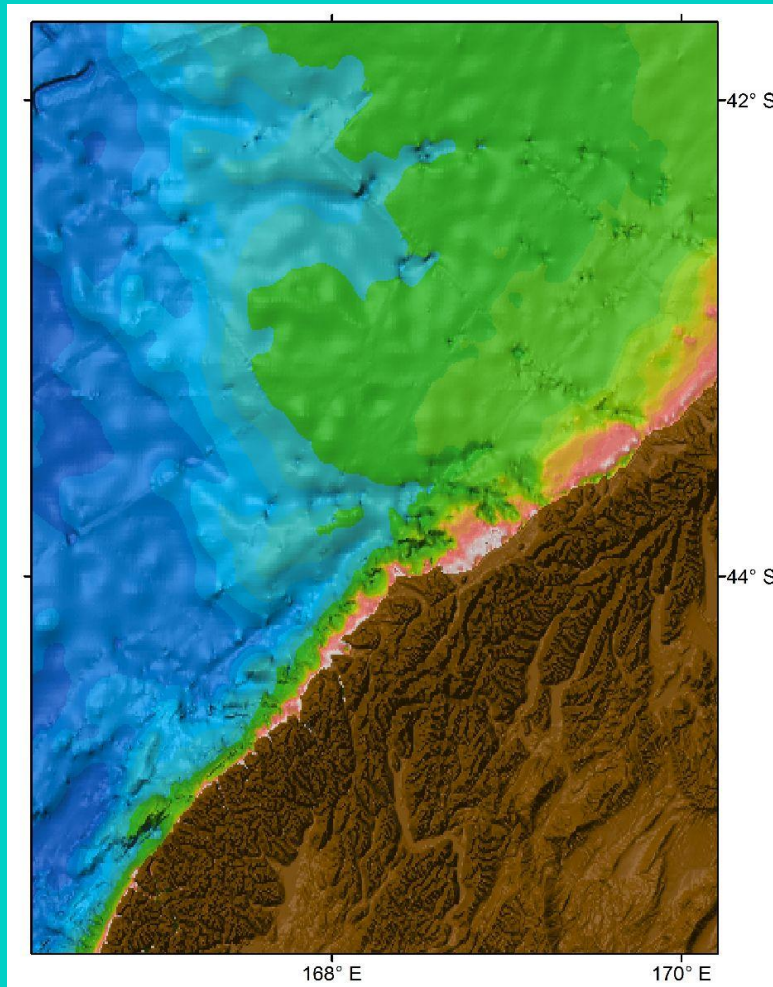


GEBCO_2014

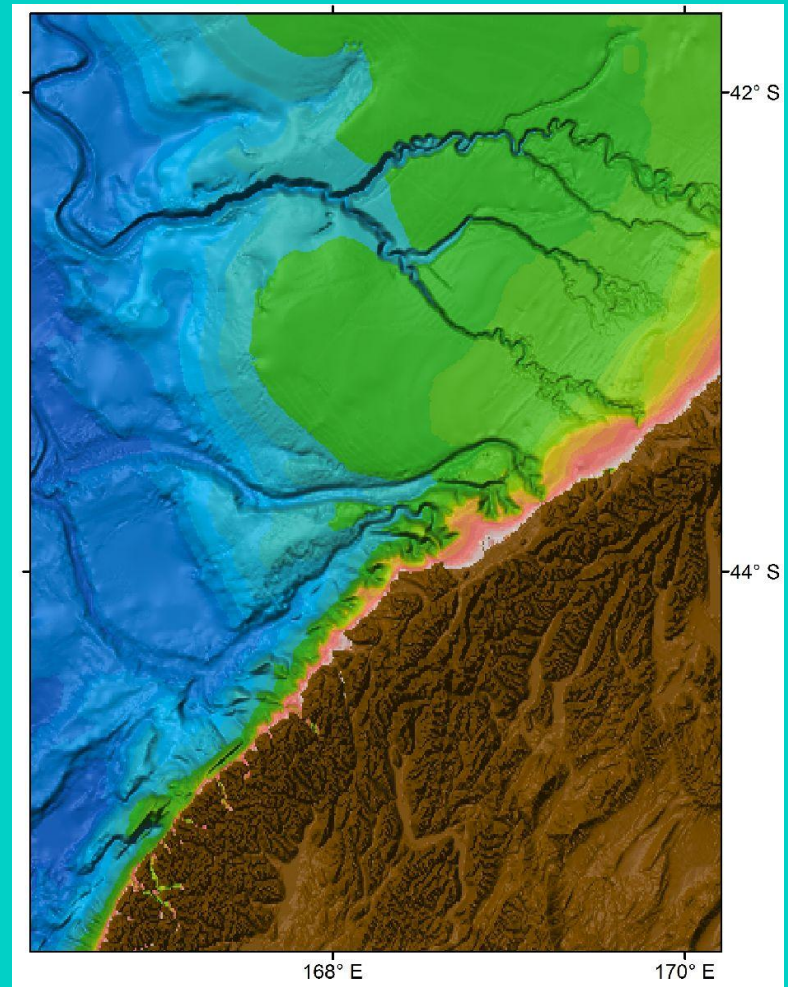


Depth (m)

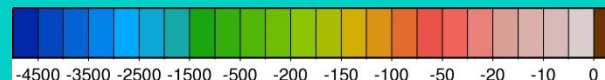
New Zealand Regional Bathymetry grid – made available by the National Institute of Water and Atmospheric Research (NIWA), New Zealand



GEBCO_2014

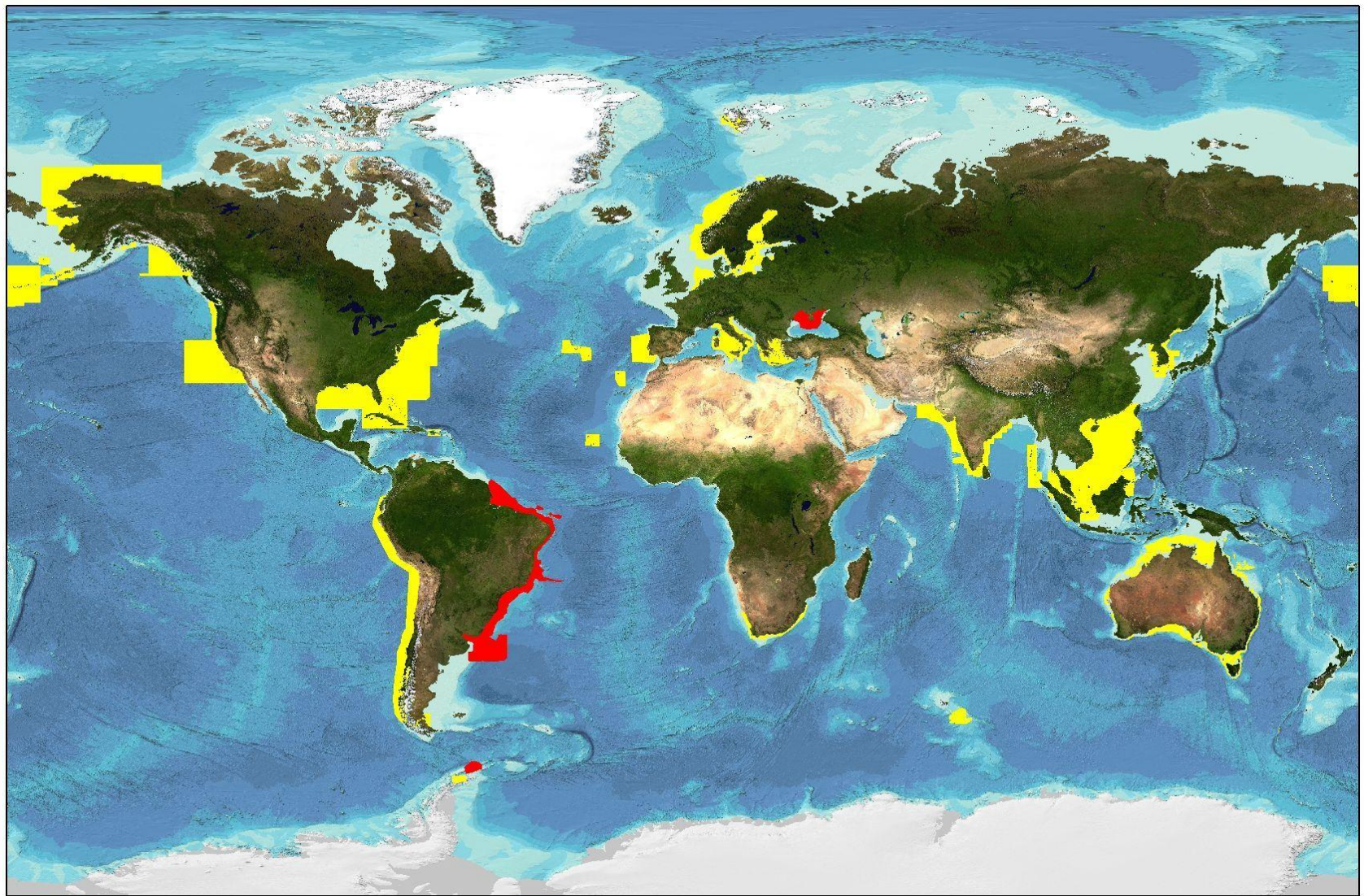


GEBCO_2014 updated with NIWA data set



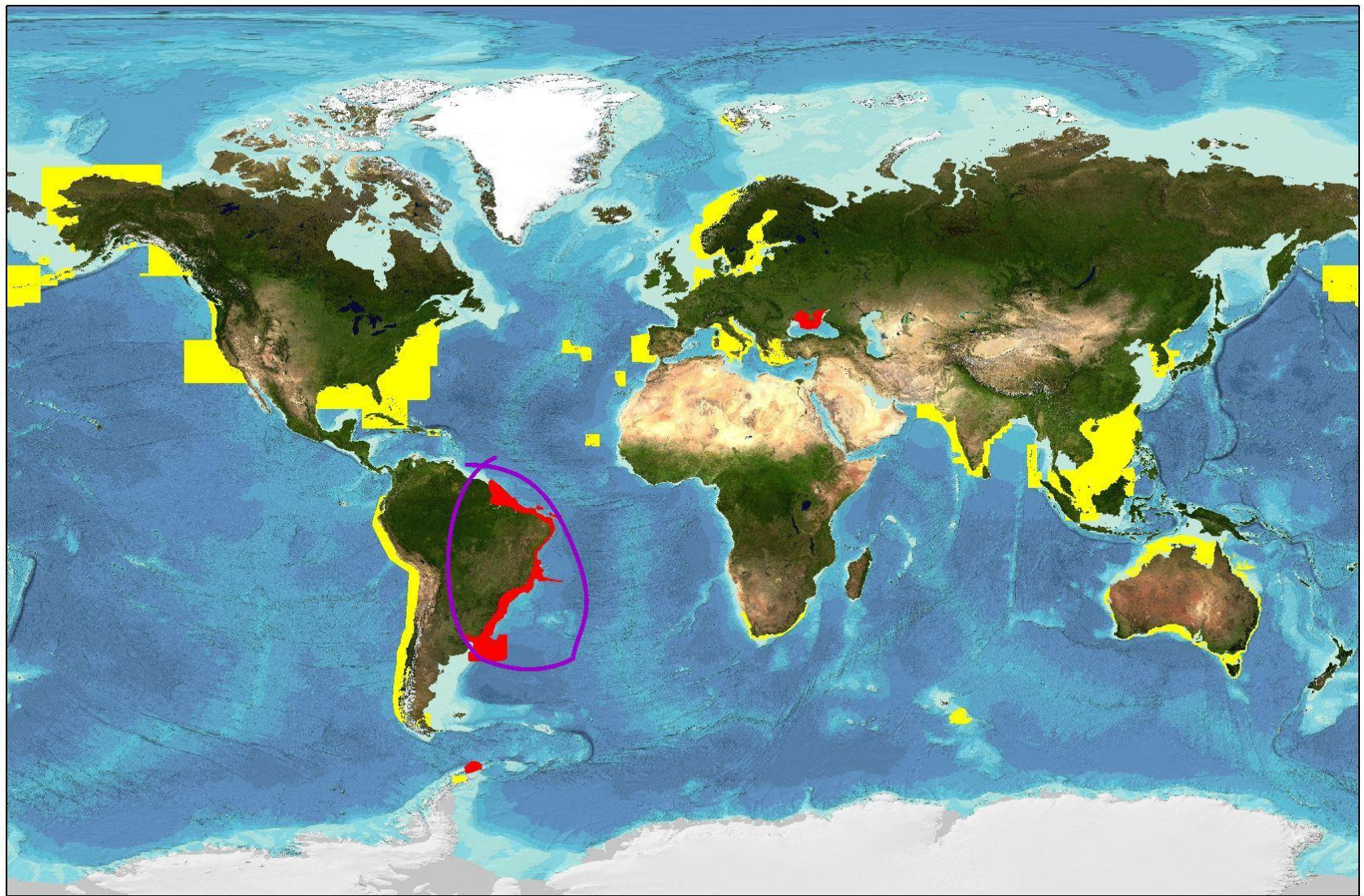
Depth (m)

ENC bathymetric sounding data coverage – provided by IHO Member States



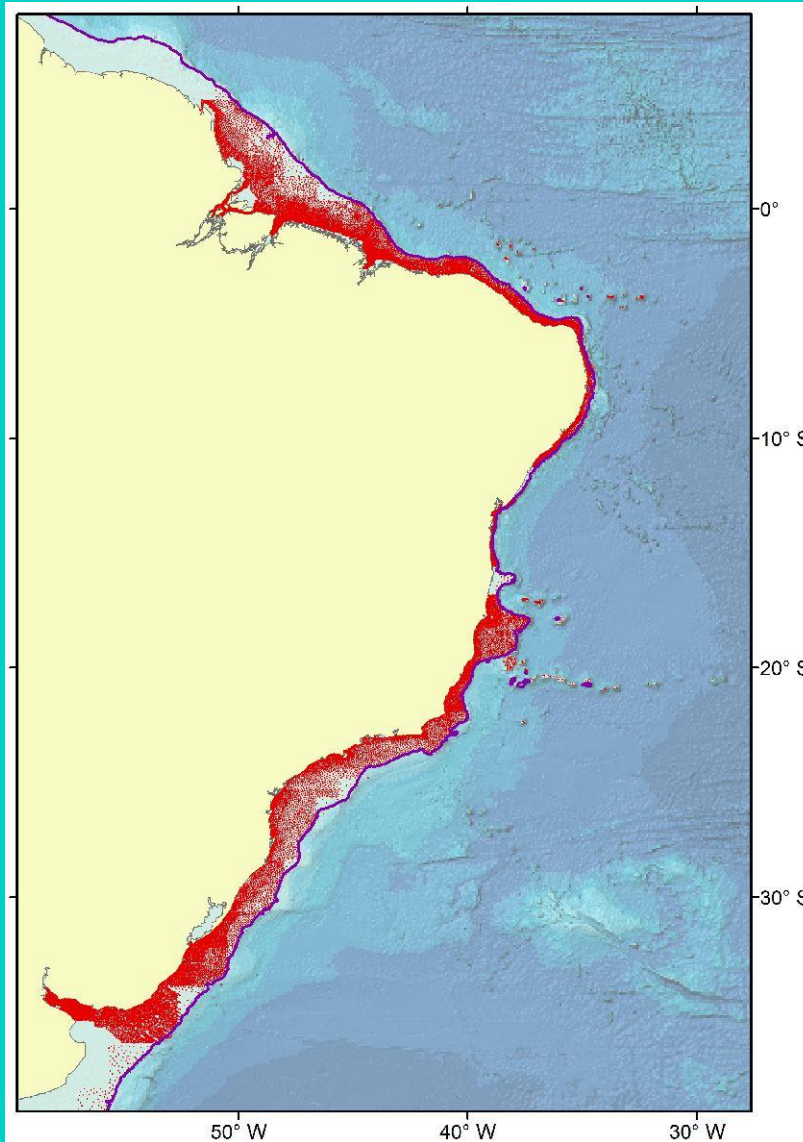
ENC coverage supplied in 2016 shown in red

ENC bathymetric sounding data coverage – provided by IHO Member States



ENC coverage supplied in 2016 shown in red

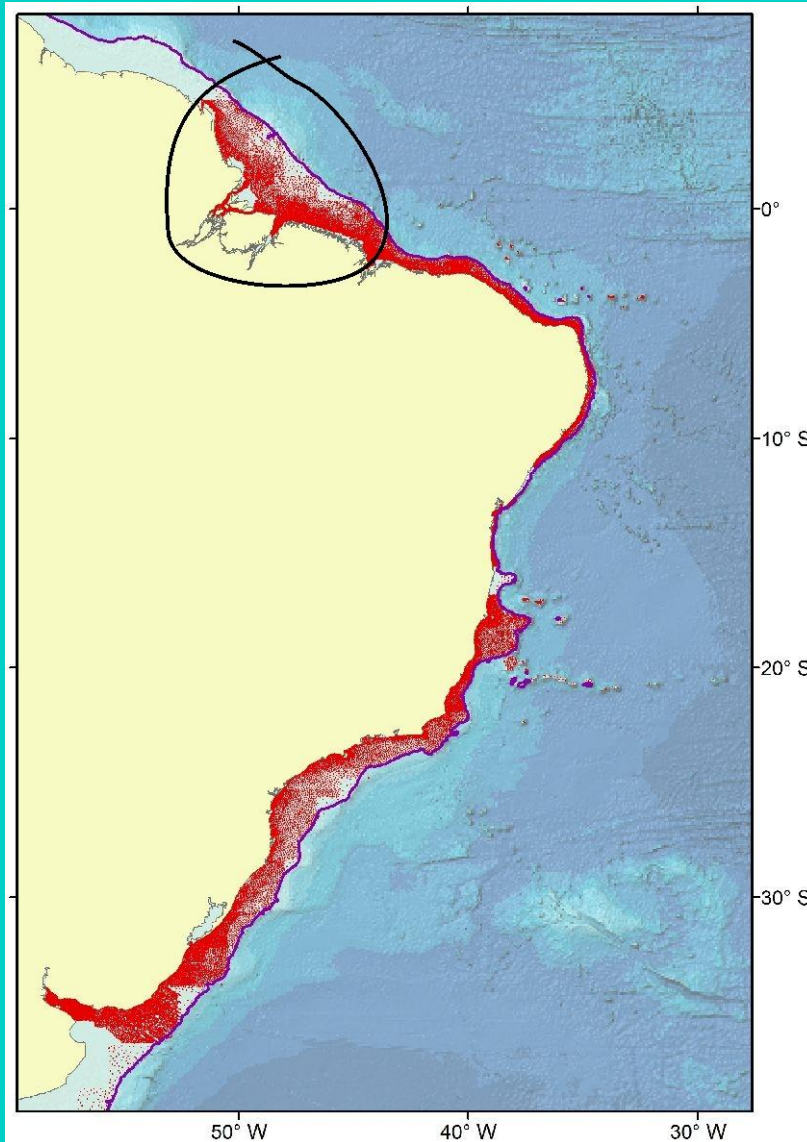
ENC bathymetric soundings



Coverage of ENC bathymetric sounding points (red) recently supplied to GEBCO by Brazil and Uruguay

200m contour shown in purple

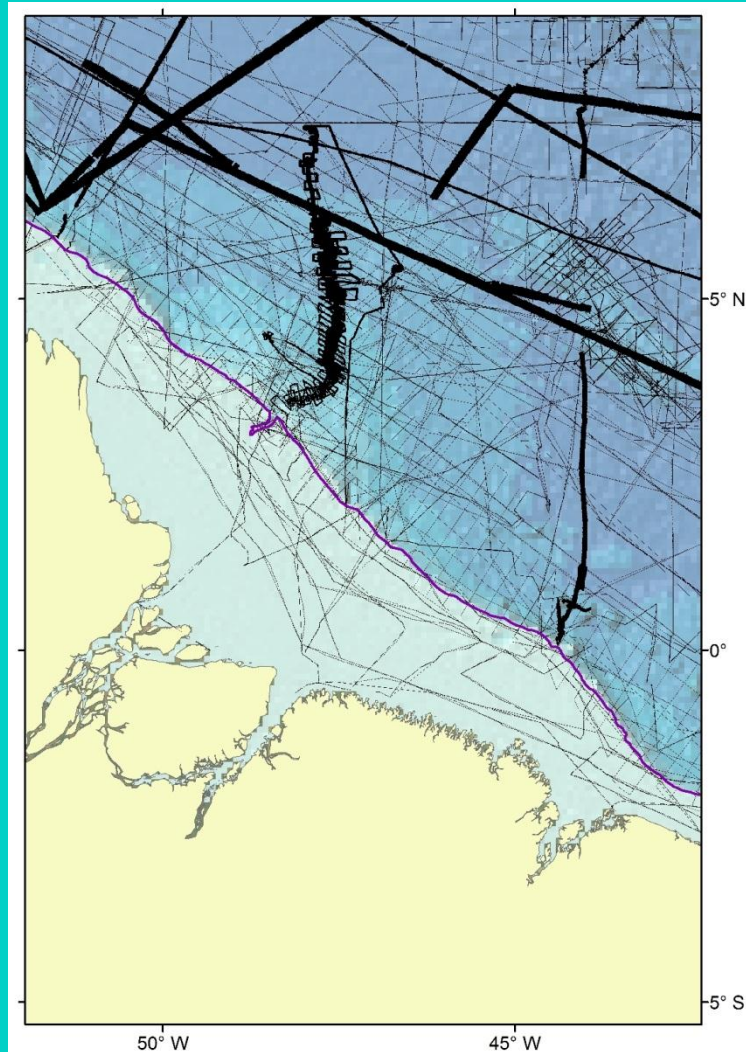
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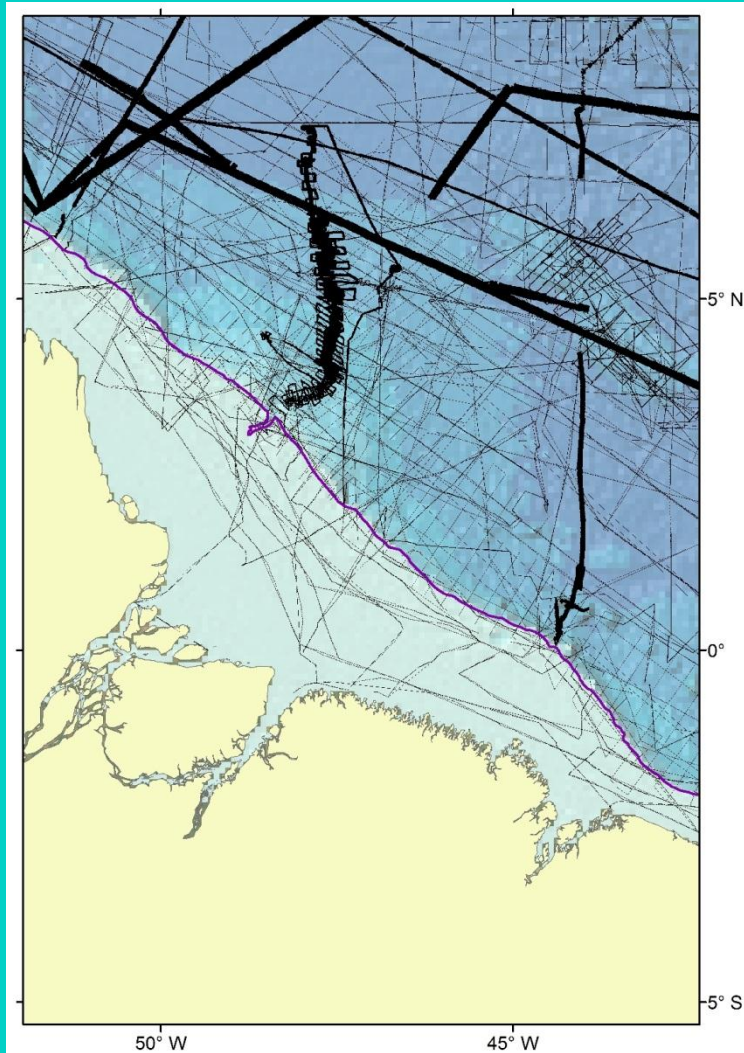
ENC bathymetric soundings



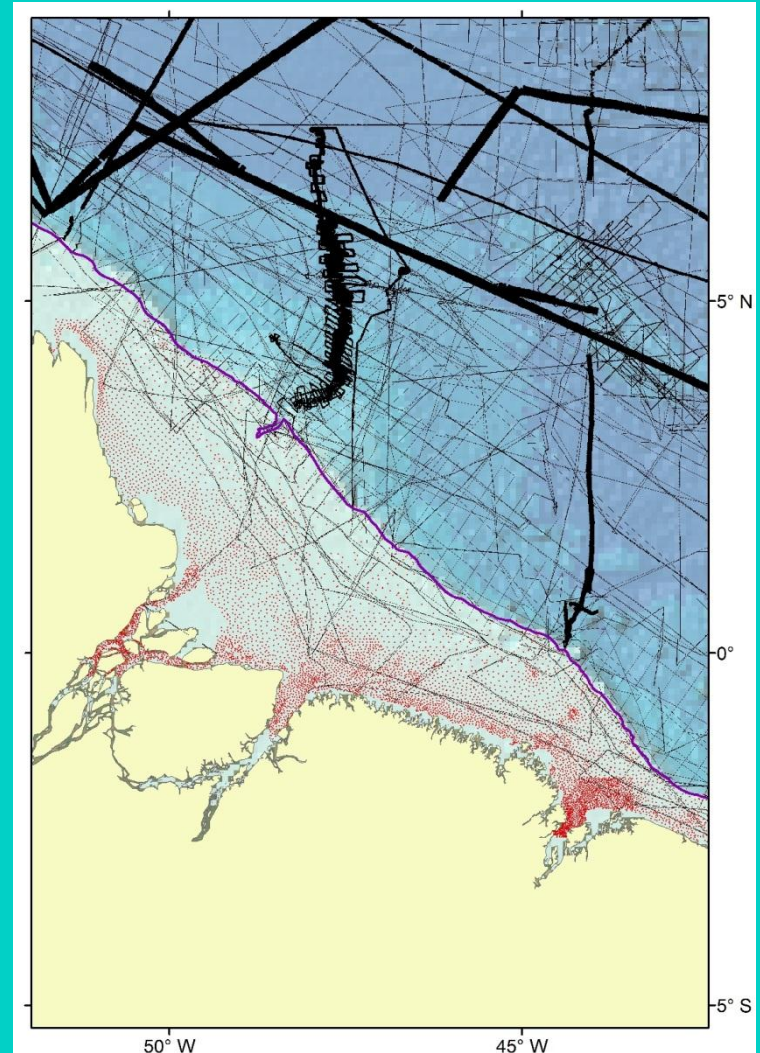
Trackline coverage used in developing
GEBCO_2014 (black lines)

200m contour shown in purple

ENC bathymetric soundings



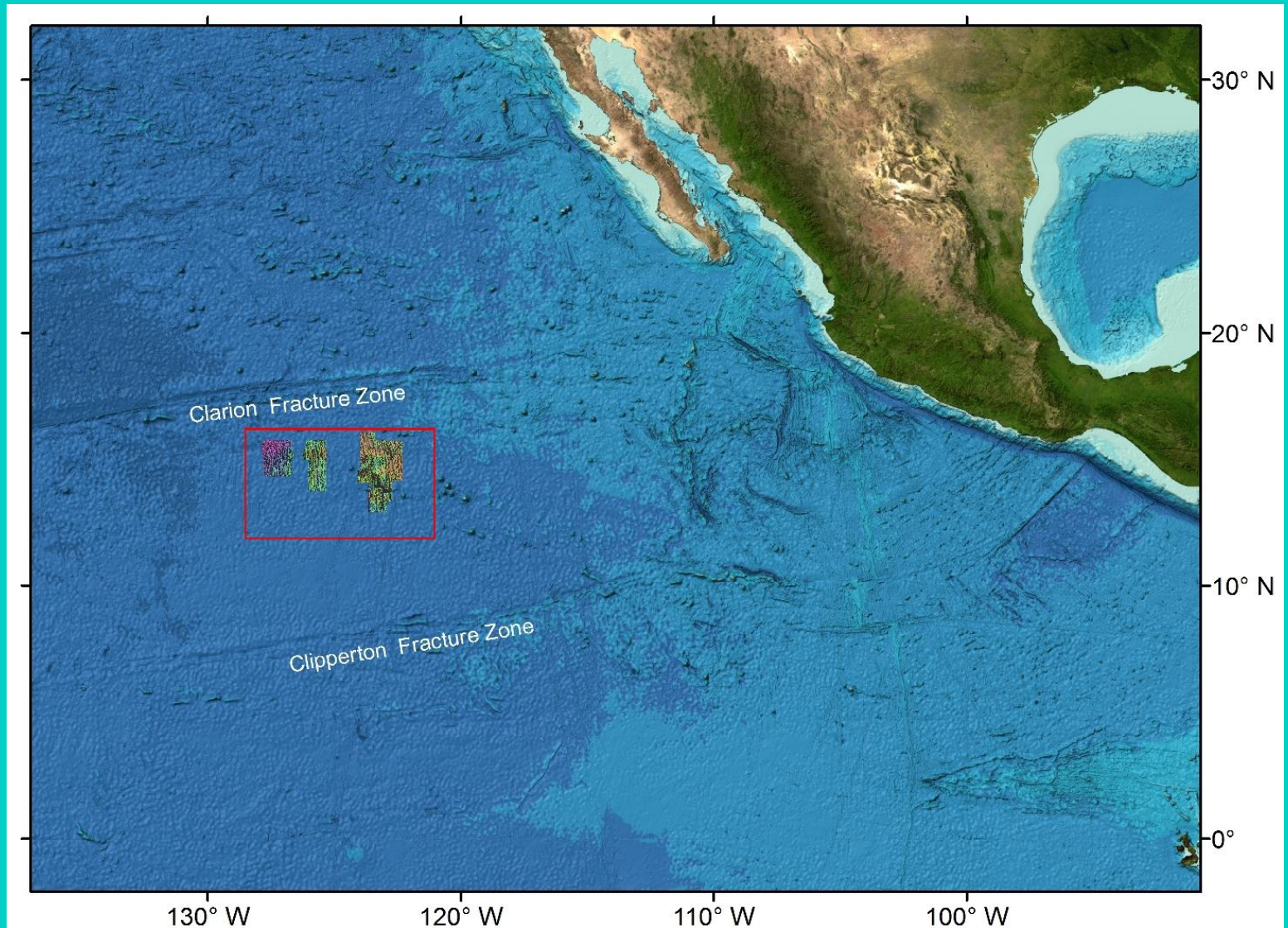
Trackline coverage used in developing
GEBCO_2014 (black lines)



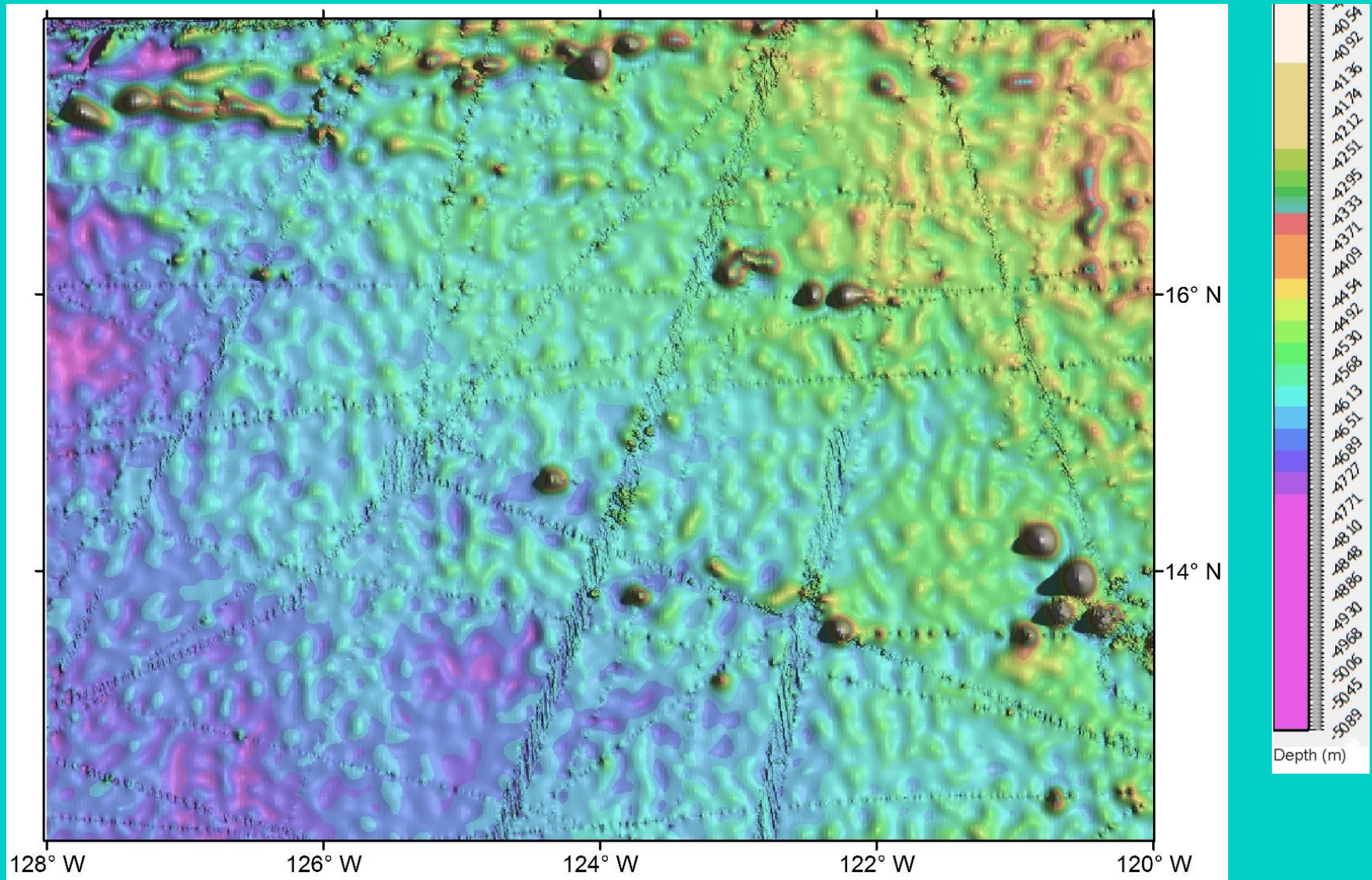
Part of the ENC sounding data set (red)
recently supplied by Brazil

200m contour shown in purple

Multibeam bathymetric grids – Pacific Ocean

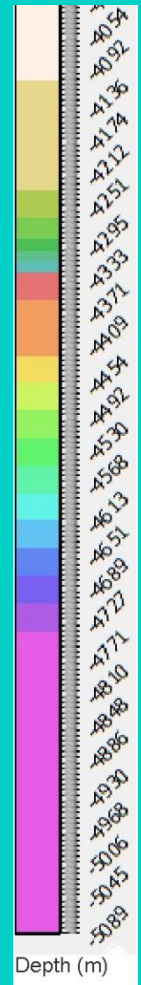
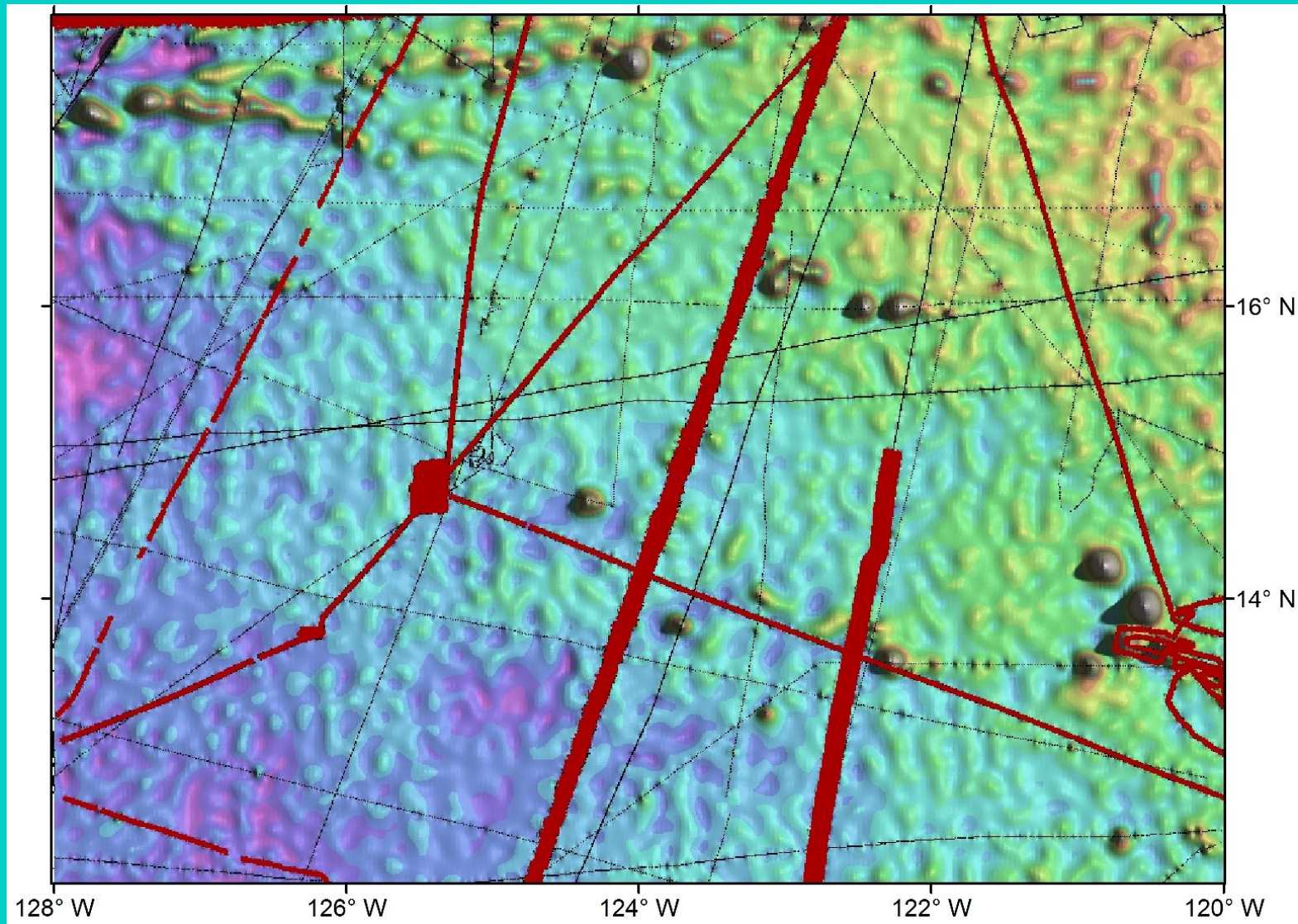


Multibeam bathymetric grids – Pacific Ocean



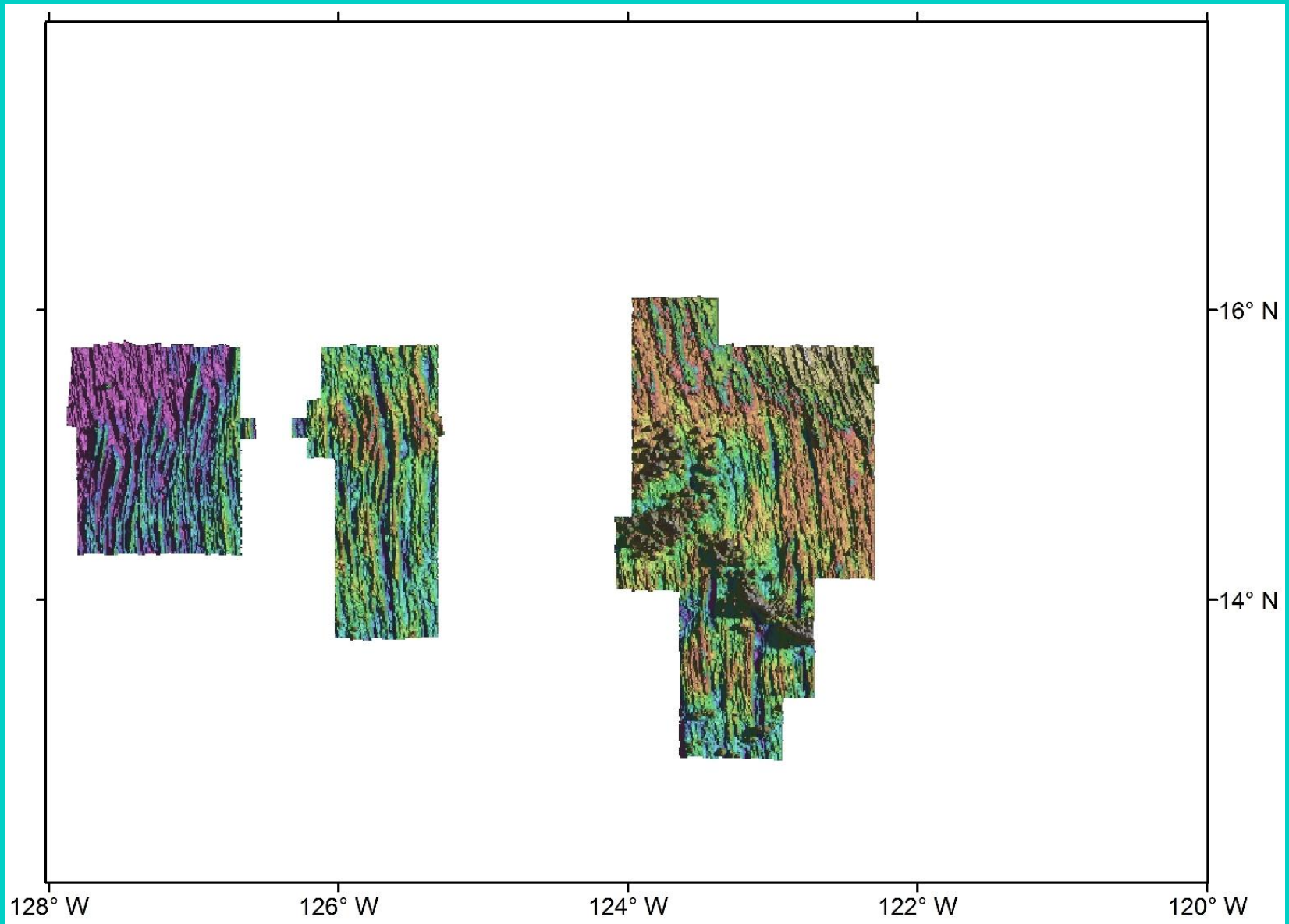
GEBCO_2014

Multibeam bathymetric grids – Pacific Ocean

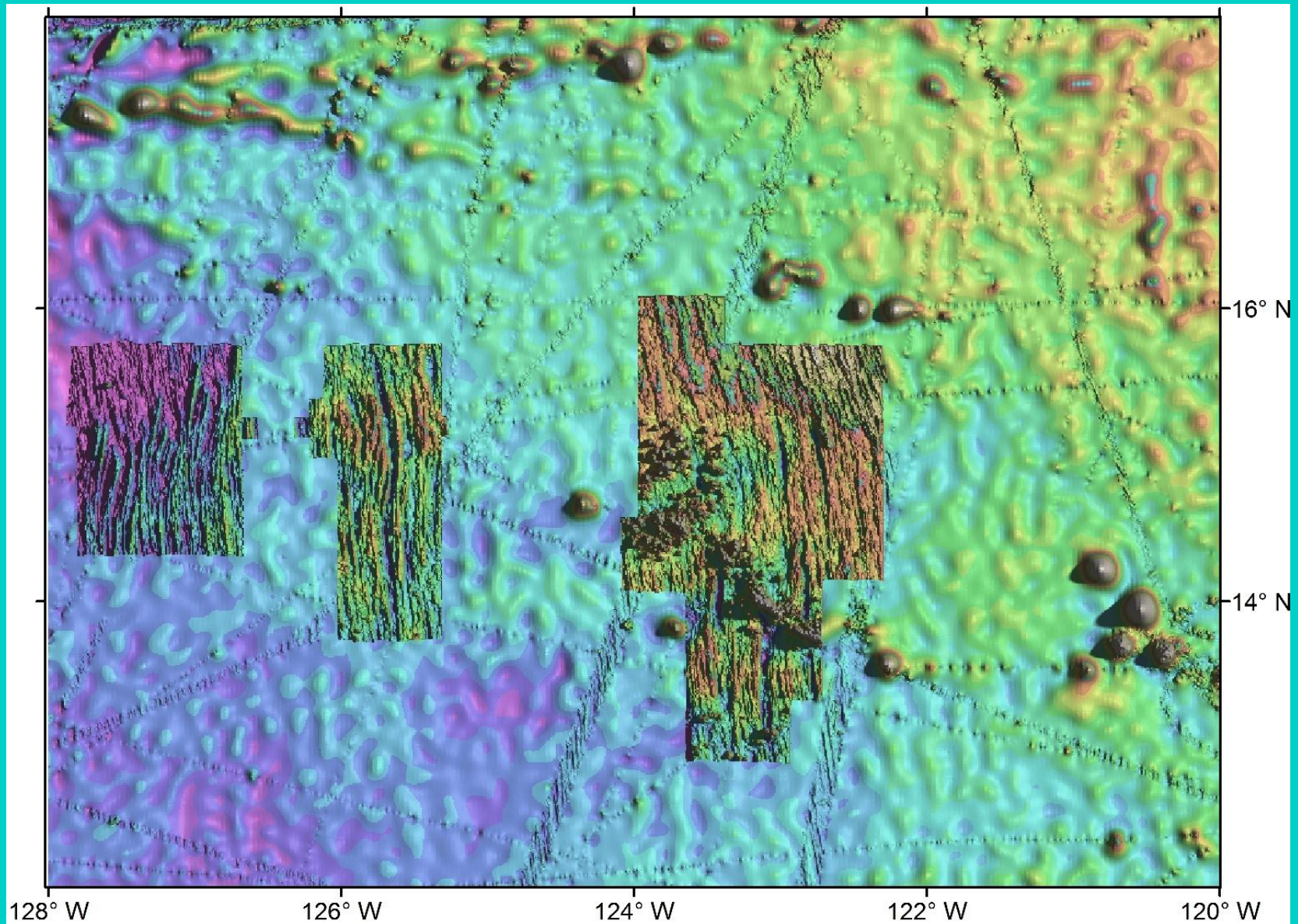


GEBCO_2014 overlain by track line control. Red =
multibeam; black = single beam

Multibeam bathymetric grids – Pacific Ocean



Multibeam bathymetric grids – Pacific Ocean



Thank you

Any questions?