

### Mapping New Zealand's Seafloor

5th South and West Pacific Regional Mapping Community Meeting

**New Zealand Hydrographic Authority** 

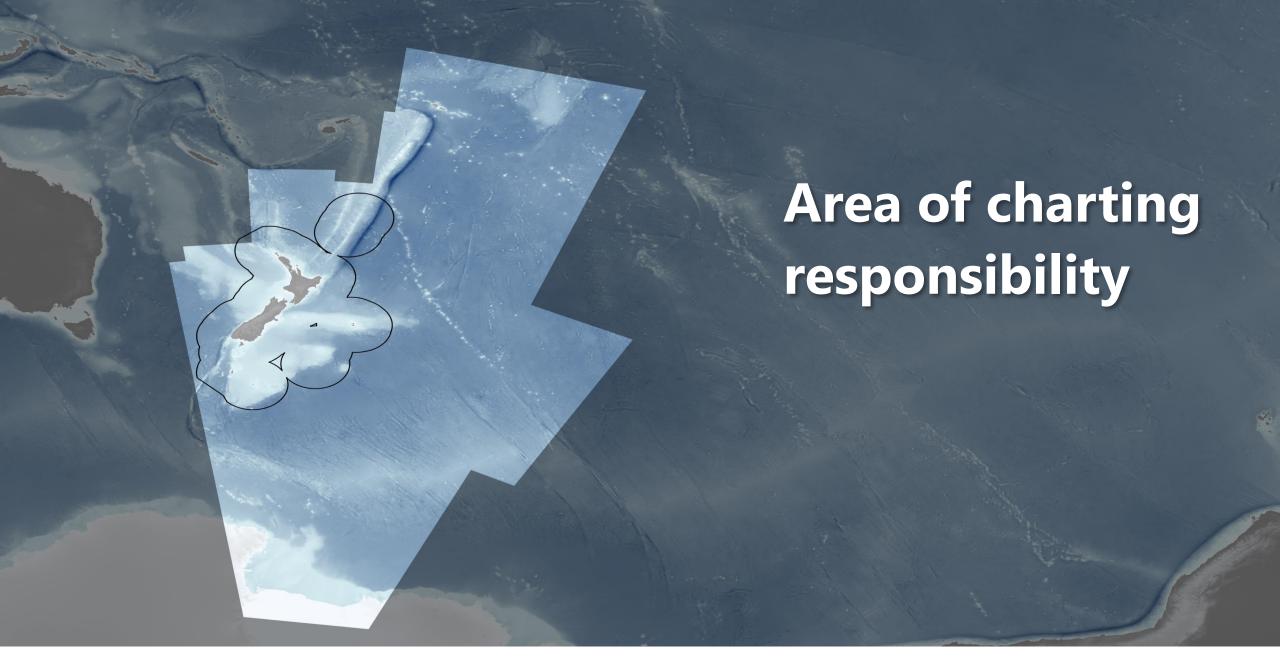
Stuart Caie, Manager Hydrographic Survey



## New Zealand Hydrographic Authority

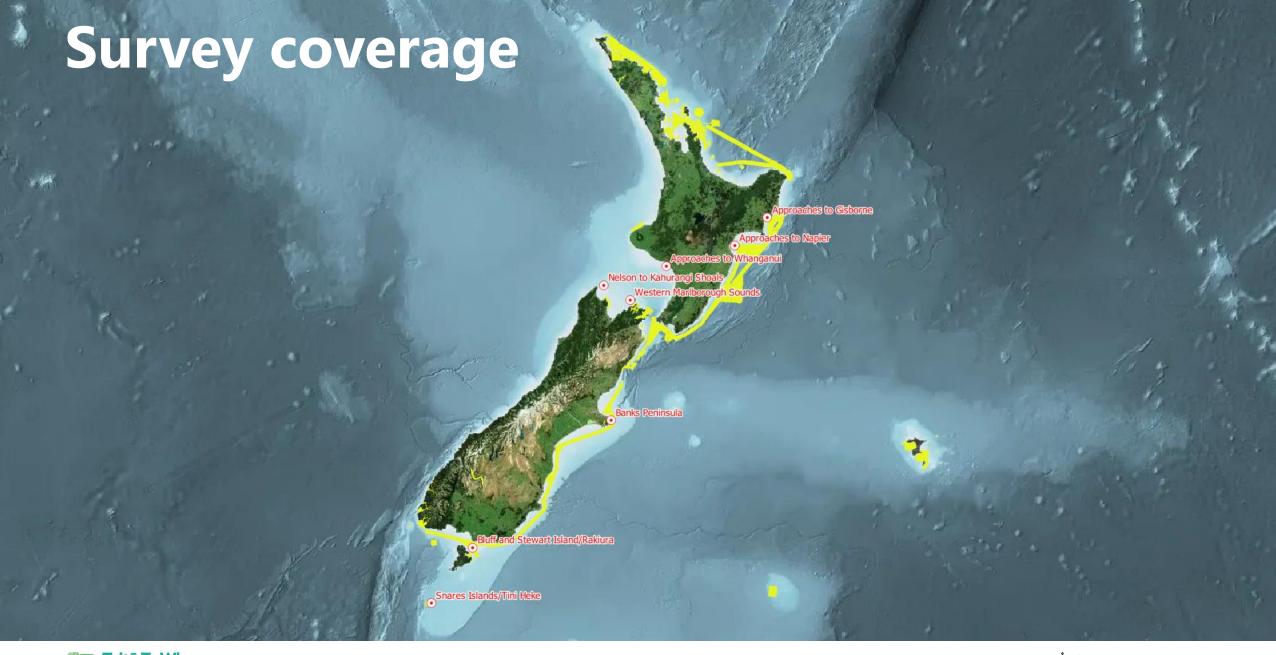






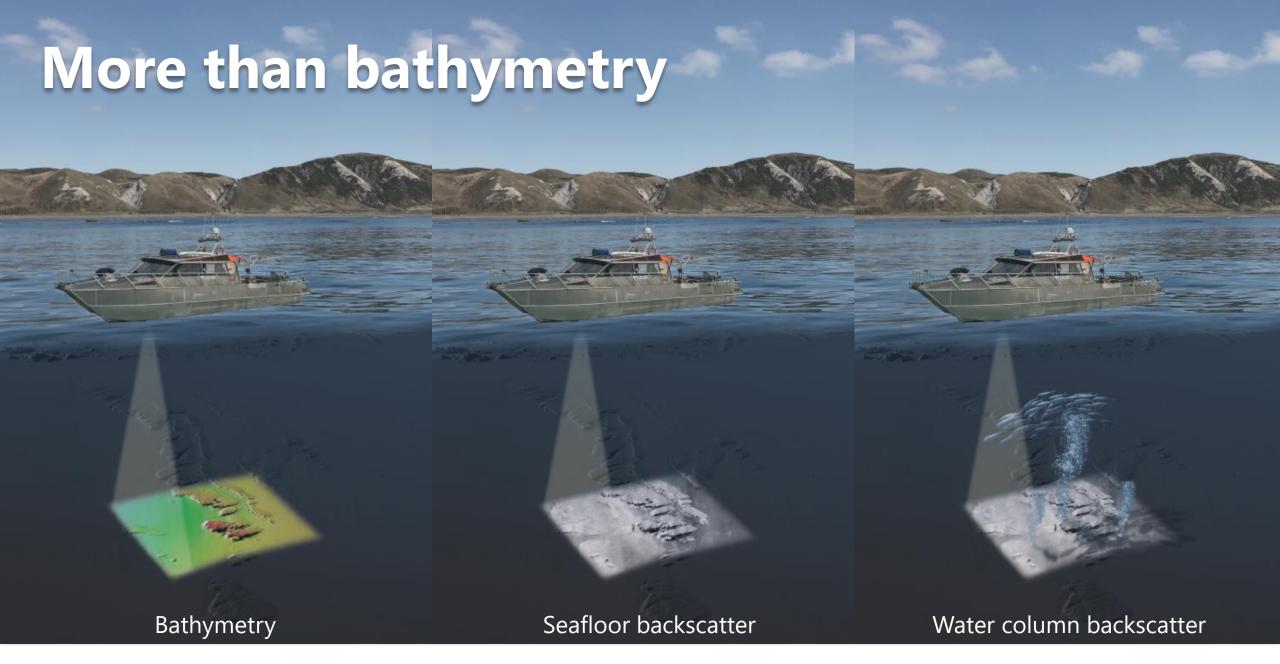












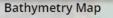




# Partnerships for greater outcomes, long the part of the partnerships of the partnershi







The shape and depth of the seafloor was determined by multibeam echo-sounder sonar technology over 43,300 hectares by the National Institute of Water & Atmospheric Research (NIWA) and Discovery Marine Limited (DML).

These data collectively illustrate the seafloor diversity and complexity over the entire expanse of this iconic coastal area. A sun-illuminated digital elevation model produced from a 2 metre gridded surface was overlain on hillshaded relief to improve the depth visualisation. Depth contours are also shown.

Click on the map to get the water depth at that point.

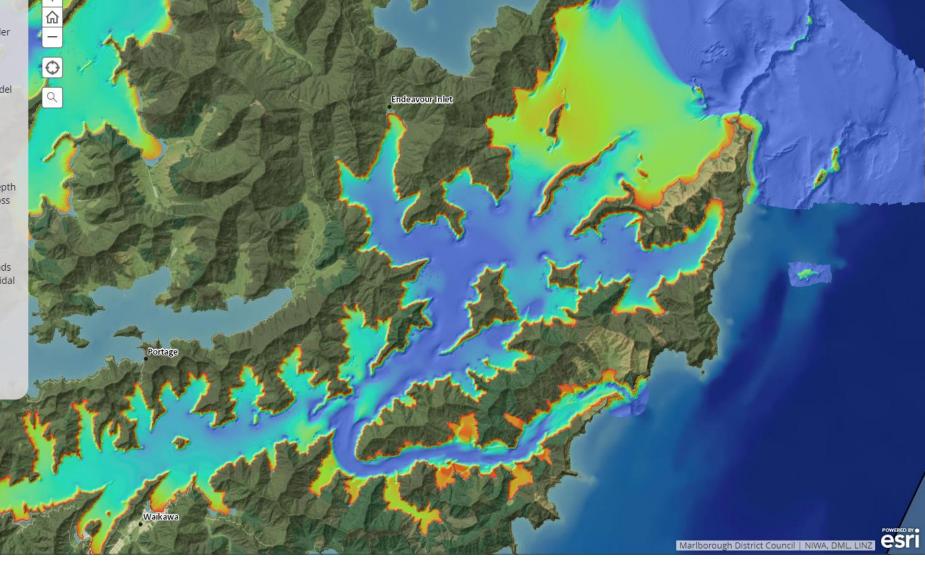
### Tory Channel/Kura Te Au

The powerful tidal forces have scoured out the main channel which ranges in depth from 42-67 metres. The marginal bays are much shallower and have shoals across their entrances.

### **Endeavour Inlet**

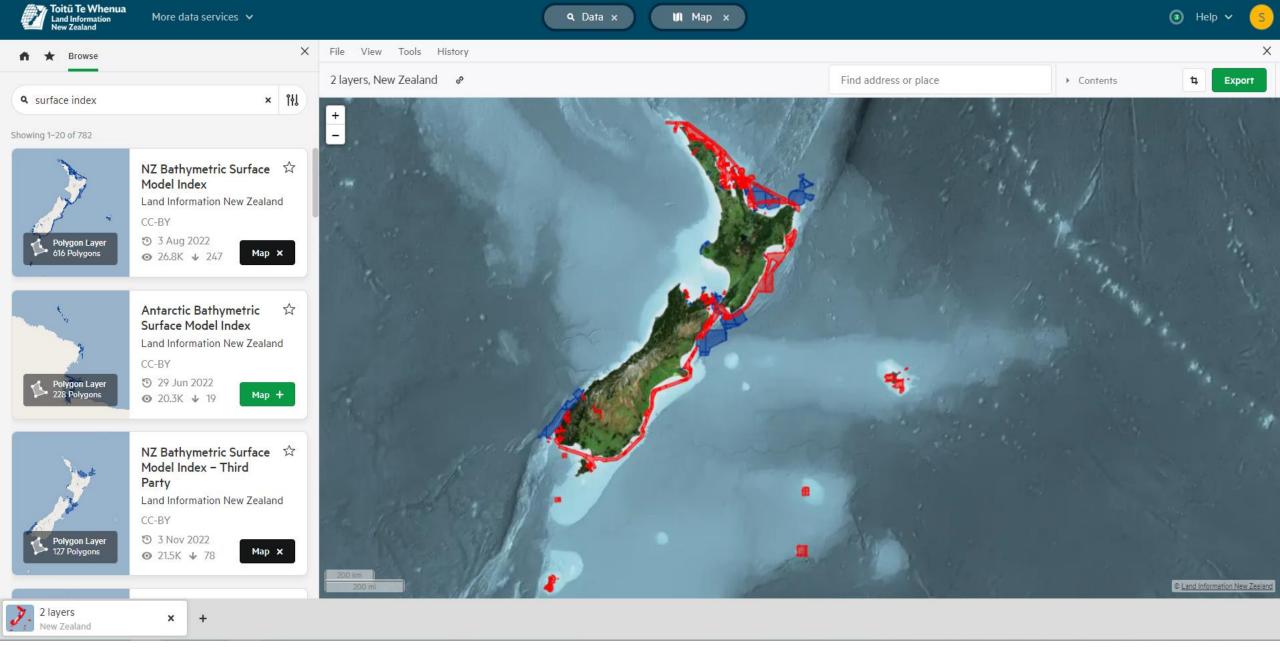
Steep sided with depths ranging from 50m at the entrance to 35 m near the heads of the bay. The inlet shoals steadily at its head to a very shallow and expansive tidal platform.





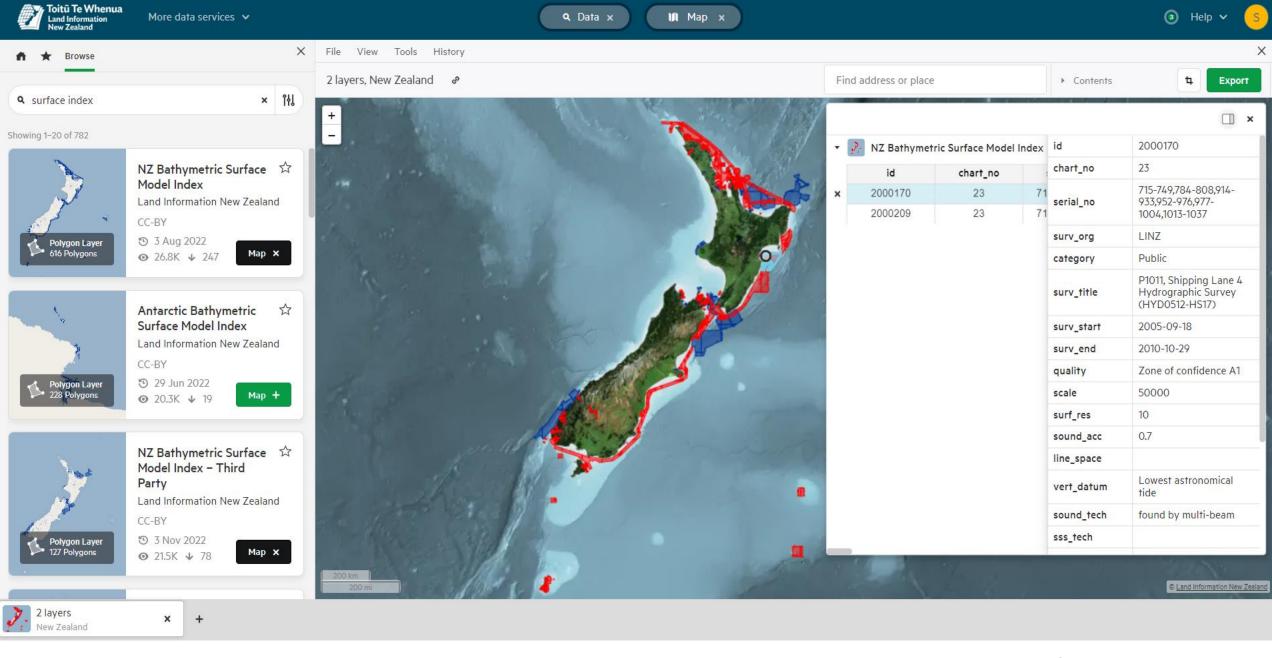












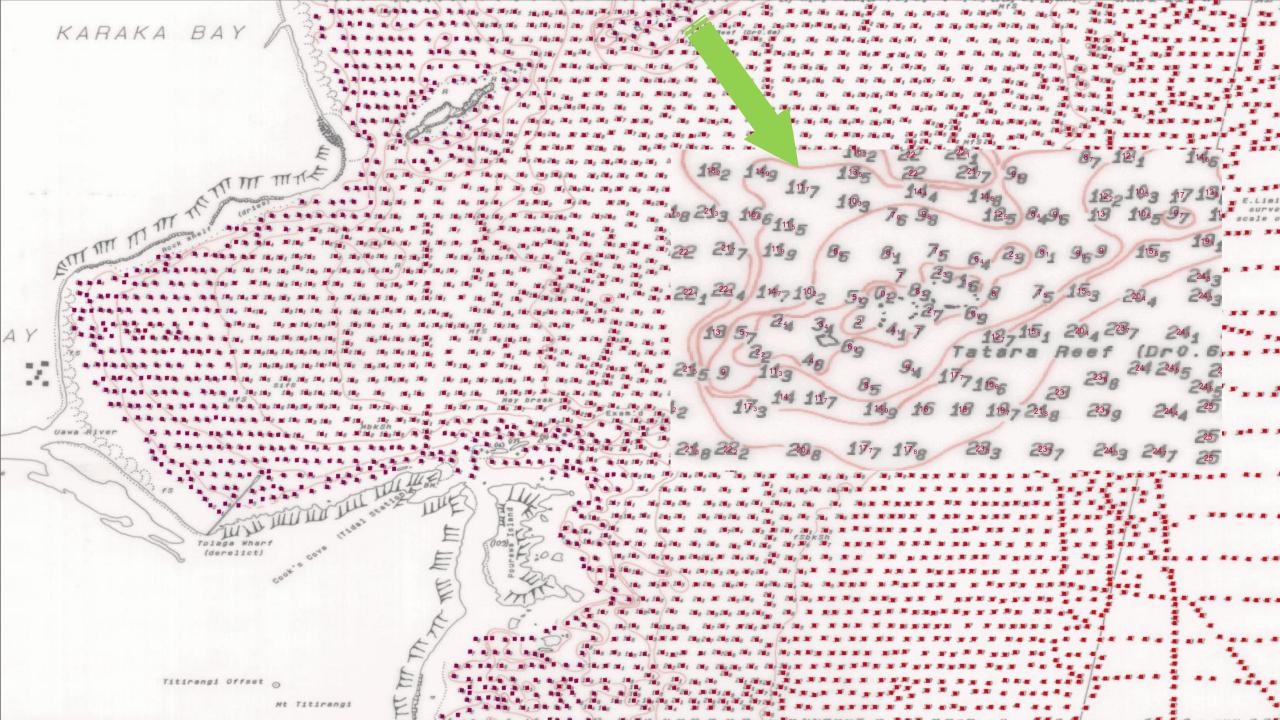






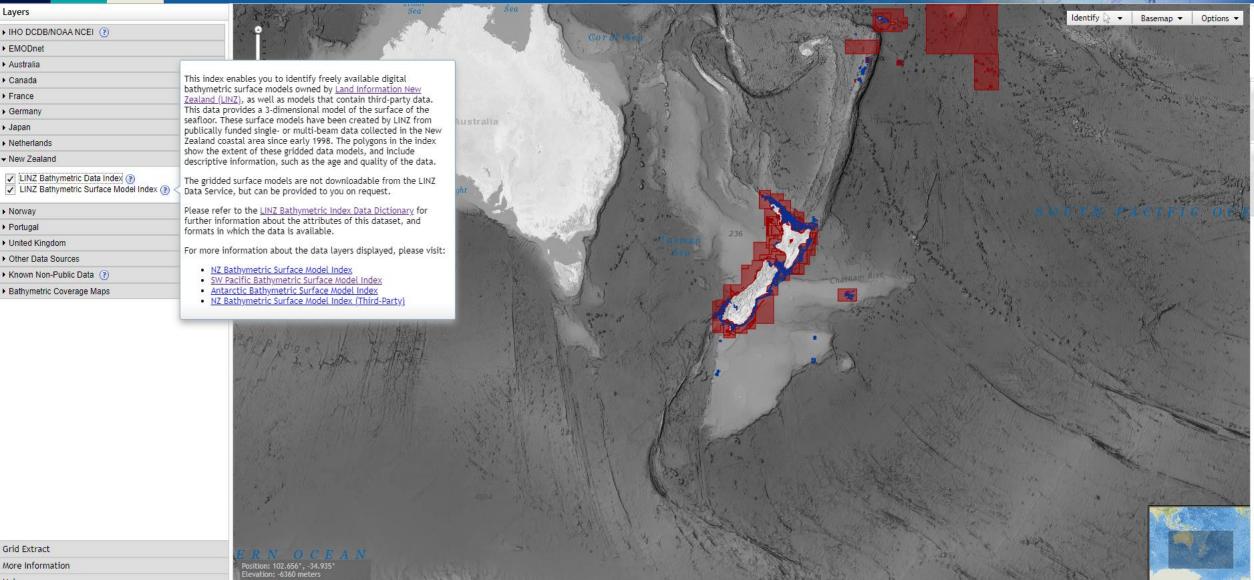








### **Data Centre for Digital Bathymetry Viewer**









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### Marine scientific research

Each year New Zealand receives applications from people from other countries seeking to undertake marine scientific research (MSR) in the New Zealand Territorial Sea, Exclusive Economic Zone (EEZ) and Continental Shelf.

The New Zealand Ministry of Foreign Affairs and Trade on behalf of the New Zealand Government receives and manages MSR applications from New Zealanders seeking to undertake MSR in waters under the national jurisdiction of other States, and people from other countries seeking to undertake MSR in New Zealand's Territorial Sea, EEZ and Continental Shelf.

Information about applying for consent to carry out MSR in New Zealand's waters can be found on the Ministry for Foreign Affairs and Trade website(link is external).

Consents granted to applicants to undertake MSR usually contain





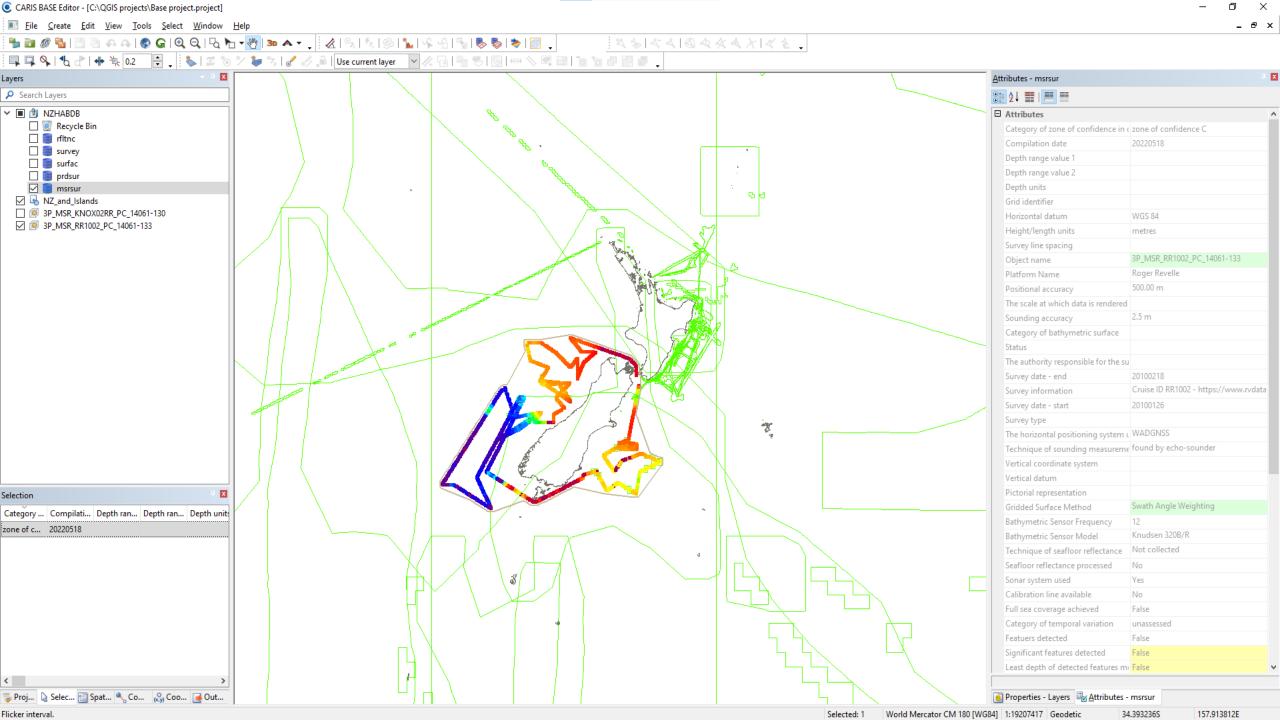
## Transiting vessels – New Zealand's EEZ

- Now easier to collect bathymetric data during transit in NZ's EEZ
- Marine science research application not required
- Toitū Te Whenua Land Information New Zealand authorised to request vessels to activate their seafloor mapping systems during transit
- Submit data to NZ for inclusion in GEBCO grid
- If your vessel undertakes transits of NZ's EEZ please contact MSR-NZ@linz.govt.nz for further information and a request to collect bathy data

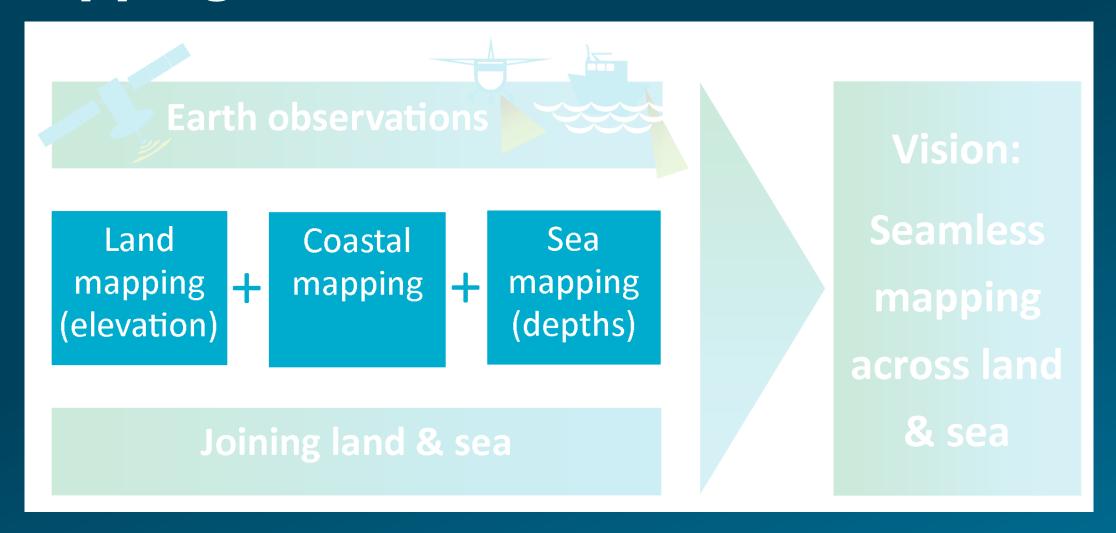








### Mapping NZ 2025







# Coastal Mapping



Hihi, Northland – topographic LiDAR and MBES bathymetry

