Smart Solutions to Seafloor Mapping in New Zealand

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Challenges
Small country, small population
Large, isolated ocean
- One of the world’s largest EEEs
- 1.3 km² of seafloor per person
- NZ offshore waters more than 20 times the land area

Capability
Many coastal vessels for shallow hydrographical surveys
One deepwater multi-beam research vessel

Recent International Vessels

Smart solutions for high quality bathymetry

Data

Discoverability
LINZ is making available a collection of indexes to enable customers to discover what bathymetric data LINZ holds, assess the suitability of that data for their needs and submit a request to obtain the data of interest.

The indexes can be found at:
https://data.linz.govt.nz/data/category/hydrographic-maritime/bathymetric-indexes/

Gravity Inversion

Satellite gravity, global datasets
Bathymetry of the Ross Dependency and the adjacent Southern ocean 2004, 2016

Airborne gravity, new dataset
ROSETTA, in partnership with DFO
2015 data acquisition
LC-130 flights at 4000 ft and 170 knots
Further lines (filling) planned for 2016
Will invest for bathymetry under ice shelf 2017