Land Information New Zealand
Toitū te whenua

New Zealand – National Report

Glen Rowe, Senior Tidal Officer, Location Information

Organisation Structure

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- Land Information New Zealand (LINZ)

  A New Zealand government department responsible for land titles, geodetic and cadastral survey systems, topographic information, hydrographic information, managing Crown property and a variety of other functions.

- New Zealand Hydrographic Authority
  - LINZ assumed hydrographic responsibilities from Royal NZ Navy in 1996.
  - Initially work contracted back to RNZN, now all in-house except for hydrographic surveys.

Organisation Structure

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- Manager Hydrography
- National Hydrographer
- Hydrographic Leadership Team (Manager + 4)
  - Hydrographic Surveyors (2)
  - Nautical Cartographers (7)
  - Manager Chart Production
  - Hydro Systems Technical Lead
  - Hydro Data Analyst
  - Tide Officer

Permanent Tide Gauges

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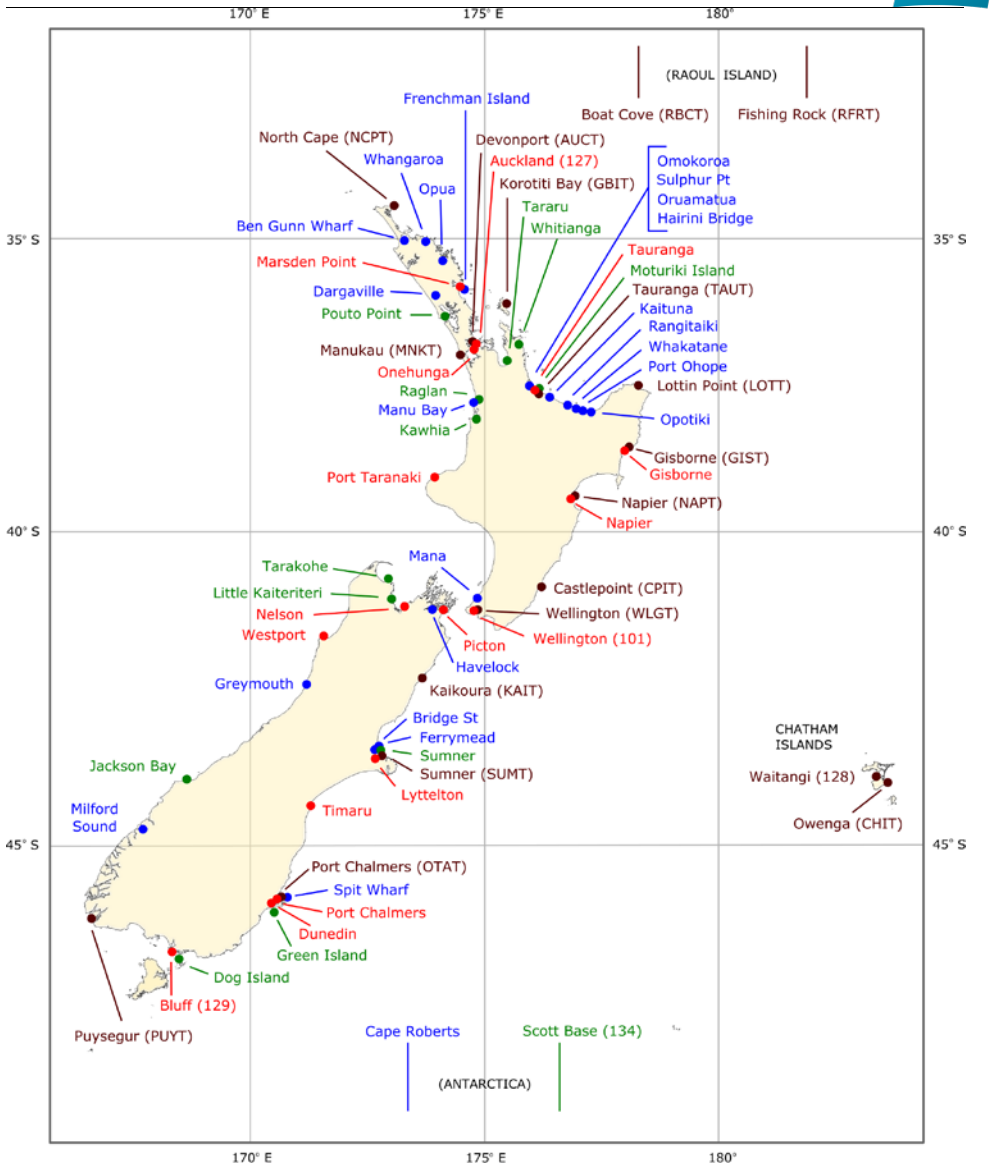

Sea Level Data

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- Recorded at 1, 5 or 10 minute intervals
- Received daily, monthly, quarterly
- Multiple formats
- E-mail, ftp, internet
- Archived by LINZ
- Data owned by supplier

Analysis and Prediction

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- Use Mike Foreman's software
- Sea Level Information Management System (SLIMS)
- Annual analyses of permanent sites
- Publish daily high/low predictions for 16 standard ports in NZ Nautical Almanac
- Publish offset corrections for 212 secondary ports in NZ Nautical Almanac

SLIMS

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- Time-series data system
- Data validation, analysis, predictions, tide levels etc
- Editing functions
- Graphical views of data
- Data, constituent sets, tidal levels etc stored in SQL Server database

SLIMS

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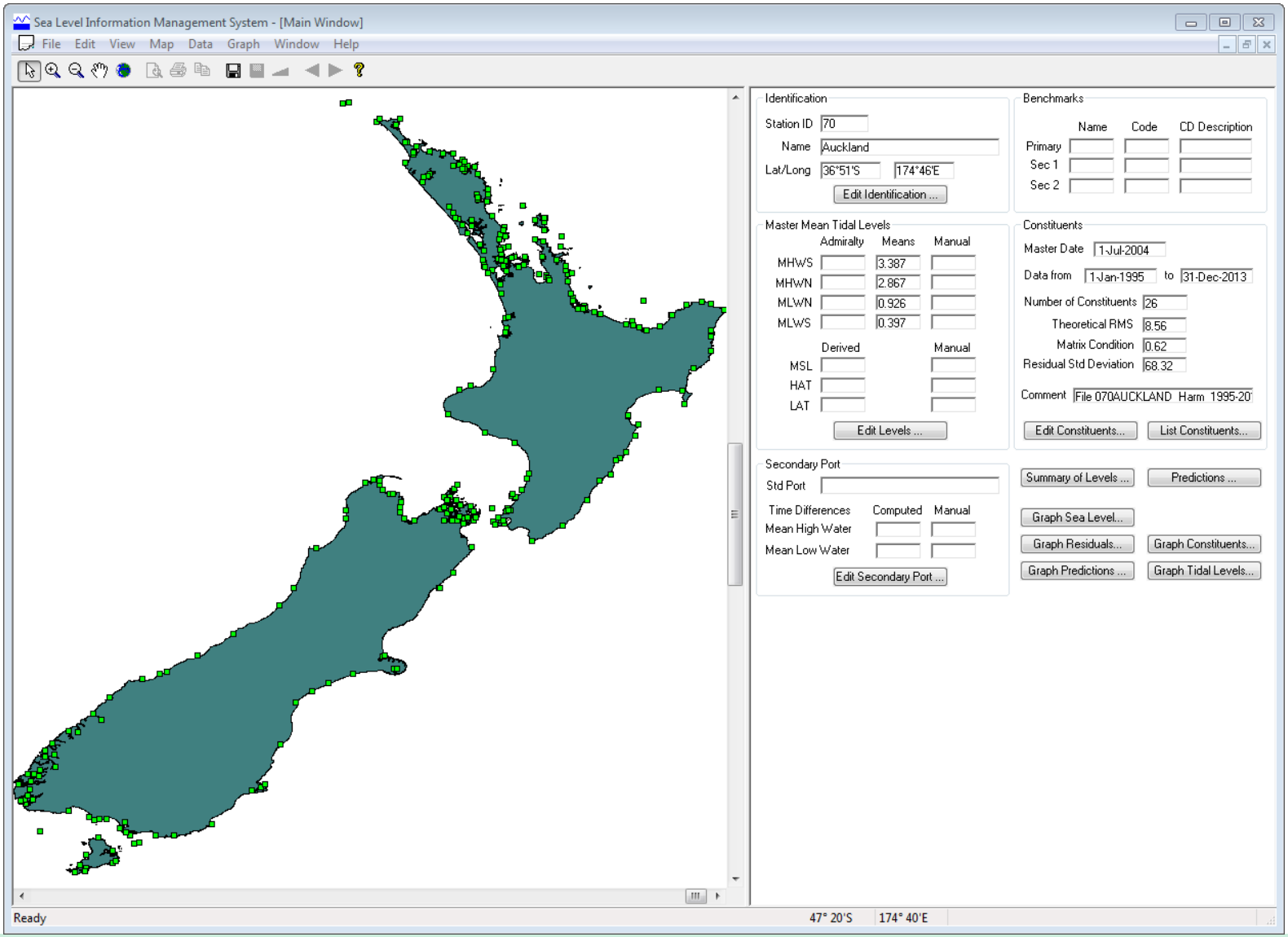

SLIMS

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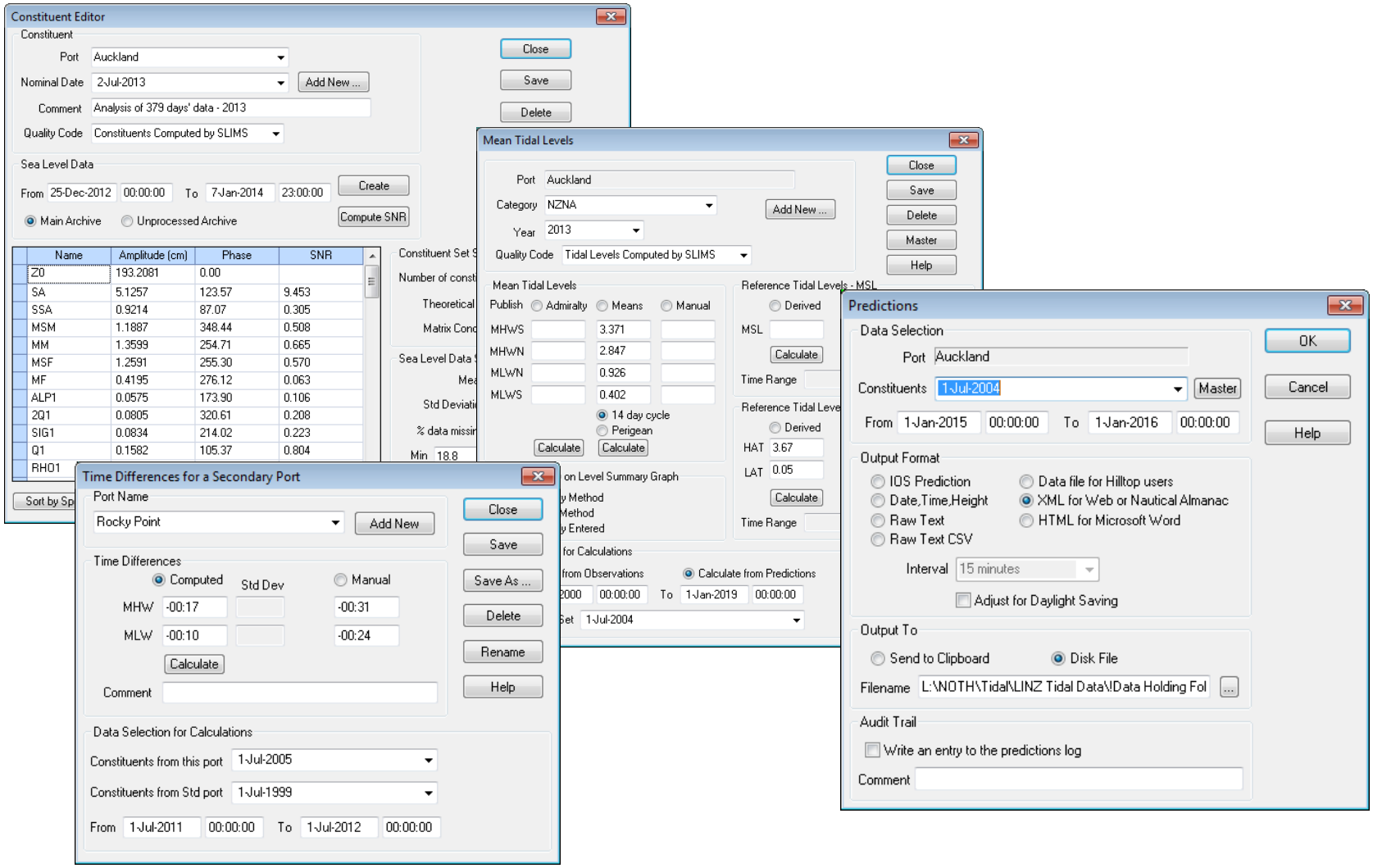

SLIMS

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SLIMS

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- New Zealand Nautical Almanac
- LINZ web-site
- MarineMate

- NZ MetService
- OceanFun
- Other 3rd parties on request

- All free of charge

Tsunami Monitoring Network

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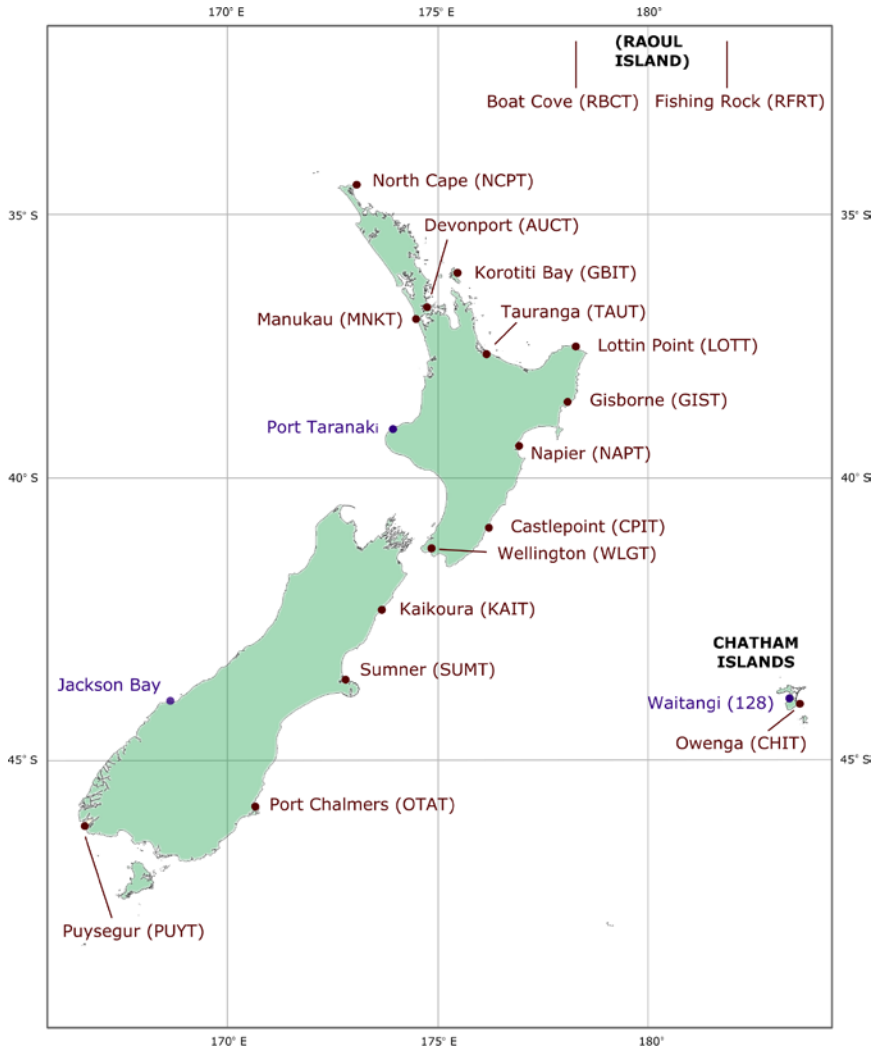
- 17 sites
- Fully operational 2010
- Druck pressure sensors
- 30 sec comms
- Partnership with GNS Science



Tōhoku, Japan - 11 March 2011

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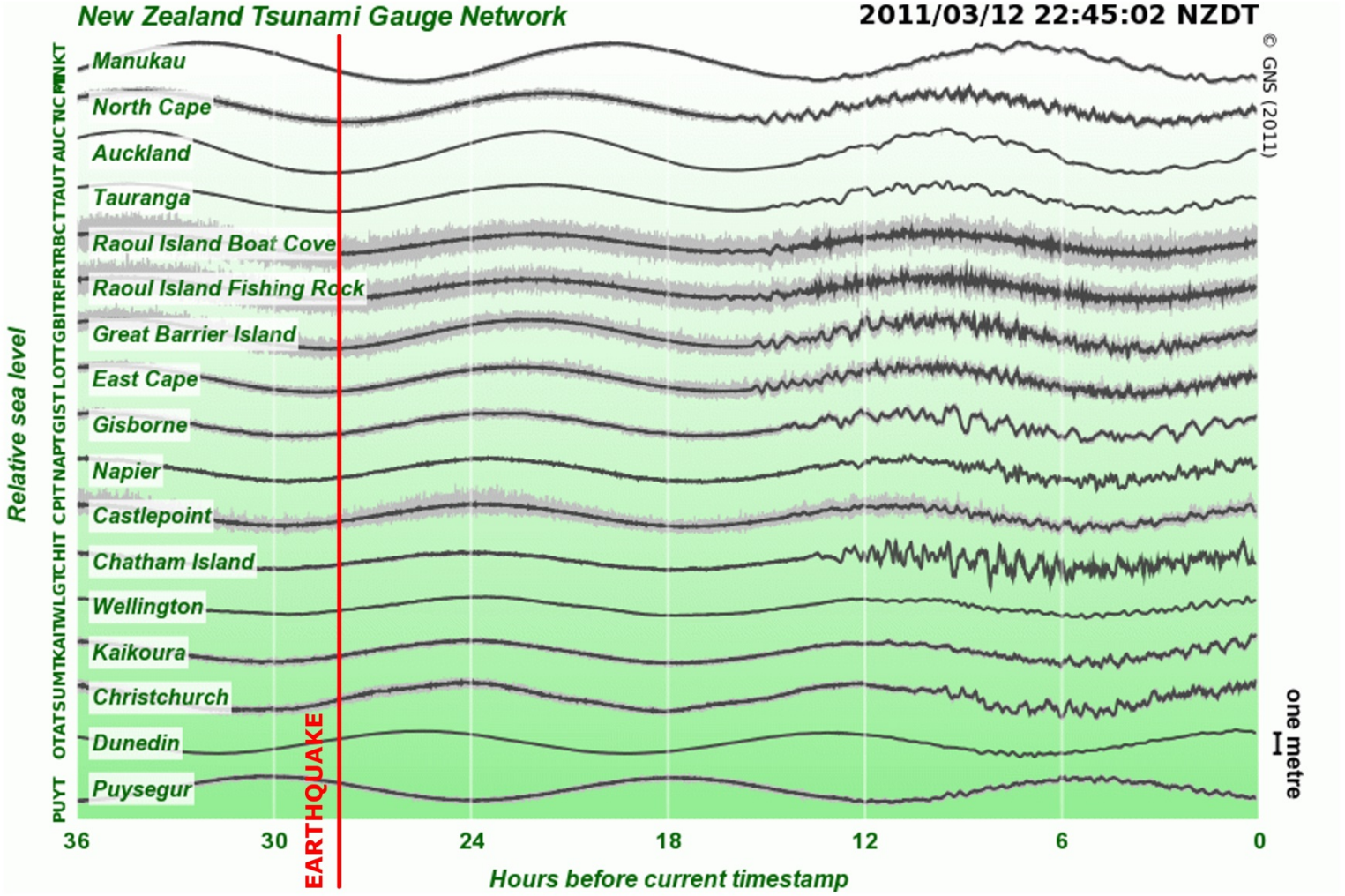


Thank You