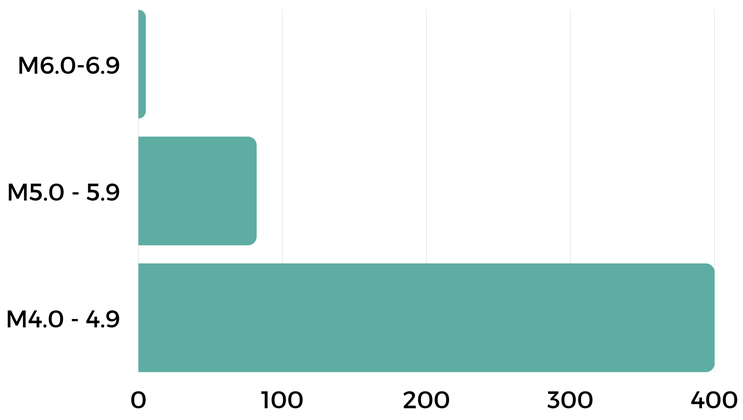
2022 in Review

Lets take a look back at what happened in 2022 at GeoNet, the highlights and the big changes.

Earthquakes

We located **20,000** earthquakes during 2022, around NZ and in the Kermadec region.

The largest, onshore, were two M5.8 earthquakes both felt widely throughout central New Zealand. The first M5.8 was in the Taranaki region on Jan 12, and the second in the Marlborough region on Sept 22. which also had the most felt reports of the year with **44,548!**



Earthquakes located in the NZ region during 2022

Volcanoes

Ruapehu: Raised to Volcanic Alert Level 2 in March, for two months, during an increase in unrest (increased lake temperature and volcanic tremor).

Taupō: Raised to Volcanic Alert Level 1 in September following ground deformation and earthquake activity.

Whakaari/White Island: Is now at Volcanic Alert Level 2 until we can visit and fix the degraded instruments.

All other volcanoes were well behaved!

Network

We added 13 new sites to our network of instruments in 2022.

This brings our total to 708 across New Zealand, Antarctica and the Pacific.

Data

New data tools were added to the website and all of GeoNet data is now available via the Amazon Web Services (AWS) Open Data Program.

We collected around 20 Terrabytes of raw data in 2022!

Social media

Facebook: 138k followers
Twitter: 97k followers

Thank you for contributing to our online community

Landslides

Our landslide team had a busy year with 5 responses over the year.

For the Gisborne storm in March the team mapped over 50,000 landslides, and mapping is still ongoing for the Nelson, Marborough response in August!

Tsunamis

In January the powerful Hunga Tonga-Hunga Ha'apai volcanic eruption caused tsunami activity around the Pacific and New Zealand.

In November 2022 we responded to two tsunamis; a small tsunami on 11 November that was caused by a M7.4 earthquake near Tonga and another in Lake Taupō following a M5.6 earthquake that occurred under the lake.

Strategic Review

The 2022 review was the first undertaken since 2012 and was designed to better understand the potential for GeoNet, with a transparent and open assessment of the service's past and present and the experts' recommendations for the future.

GNS Science Te Pū Ao · Toka Tū Ake EQC · National Emergency Management Agency Te Rākau Whakamarumaru · Ministry of Business, Innovation & Employment Hīkina Whakatutuki · Toitū Te Whenua Land Information New Zealand