

GeoNet

Monitoring New Zealand's Natural Hazards

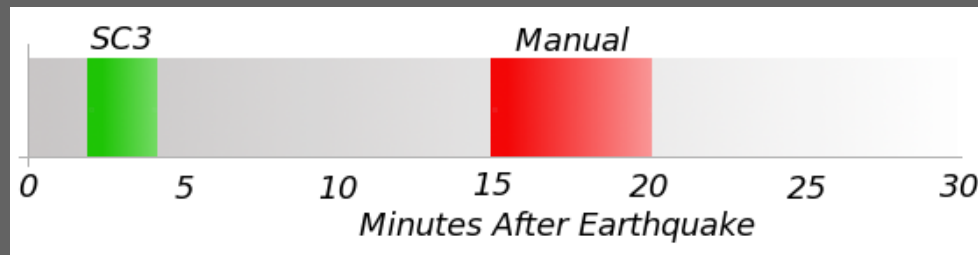


Sara Page
GNS Science



Technology - “We want information now”

- Earthquake information to the public = up to 20min
 - *“Hurry up GeoNet how big was it”*
- Only larger / felt events put on geonet.org.nz
 - *“I felt it, why isn’t it on the website”*
- 2011 start testing Automated system SeisComP3



March 2012 – GeoNet Rapid (Beta)

New Zealand Earthquake Report

Magnitude 5.2, Friday, May 25 2012 at 2:44:49 pm (NZST) reviewed



Quality Descriptions

Best

This earthquake location has been manually reviewed and has the best quality location.

Good

This is an automatic earthquake location with a lot of observations. It is likely to be good quality.

Caution

This is an automatic earthquake location with only a few observations. Treat with caution.

Deleted

Oops! This was not a real earthquake and has been deleted.

Unknown

We don't have any quality information for this location at the moment.

Status Descriptions

Reviewed

This earthquake has been reviewed and confirmed by a duty officer or analyst.

Automatic

An automatic earthquake location that has not been reviewed by a duty officer or analyst.

Deleted

Oops! This was not a real earthquake and has been deleted.

Duplicate

This earthquake location is a duplicate of another one.

Intensity Descriptions

The intensity is measured in the Modified Mercalli (MM) scale and is an estimate of the greatest impact of this earthquake for those close to the strongest shaking.

unnoticeable

When the expected MM is *less than* 3.

weak

When the expected MM is *equal to* 3.

light

When the expected MM is *equal to* 4.

moderate

When the expected MM is *equal to* 5.

strong

When the expected MM is *equal to* 6.

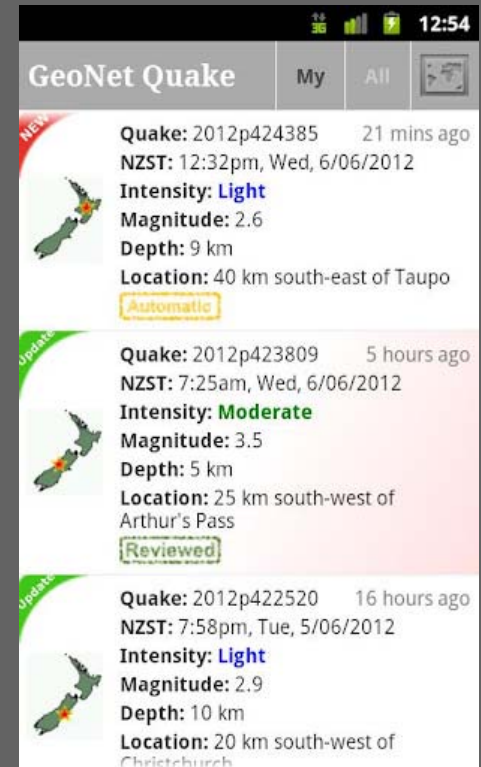
damaging

When the expected MM is *equal to* 7 or *greater*.

Smartphones (March + June)



30,000



13,000

September – the new geonet.org.nz goes live!

The screenshot shows the GeoNet website interface. At the top, the navigation menu includes 'GeoNet', 'Latest News', 'Connect', 'Maps', 'Quakes', 'Volcano', 'Tsunami', and 'More'. A red circle highlights the 'Quakes' menu item. Below the navigation is a green banner with the text 'Welcome to GeoNet - the official source of geological hazard information for New Zealand.' The main content area features a map of New Zealand and a navigation bar with buttons for 'Quakes Info', 'Quakes Map', 'Drums', 'Regions', 'New Zealand', 'All', 'Felt', 'Latest', 'Statistics', and 'Mobile'. The page title is 'Home'. Below the title, a heading reads 'Home' and a sub-heading states 'This is a list of recent earthquakes that may have been felt in the New Zealand region.' Three earthquake entries are listed, each with a small map of New Zealand showing the location of the quake. The first entry is for a weak earthquake (Magnitude 3.1) on November 6, 2012, at 7:06:54 am, located 5 km north-west of Oxford. The second entry is for a moderate earthquake (Magnitude 3.9) on November 6, 2012, at 1:13:45 am, located 35 km west of Milford Sound. The third entry is for a light earthquake (Magnitude 4.1) on November 5, 2012, at 10:38:04 pm, located 15 km south-west of Te Kaha. Each entry includes a 'Felt it?' button.

GeoNet Latest News Connect Maps Quakes Volcano Tsunami More EQC & GNS Science

Welcome to GeoNet - the official source of geological hazard information for New Zealand.

Quakes Info Quakes Map Drums Regions New Zealand: All Felt Latest Statistics Mobile

Home

This is a list of recent earthquakes that may have been felt in the New Zealand region.

Public Id: [2012p837175](#)
NZDT: Tuesday, November 6 2012 at 7:06:54 am
Intensity: weak
Depth: 27 km
Magnitude: 3.1
Location: 5 km north-west of Oxford
[Felt it?](#)

Public Id: [2012p836512](#)
NZDT: Tuesday, November 6 2012 at 1:13:45 am
Intensity: moderate
Depth: 3 km
Magnitude: 3.9
Location: 35 km west of Milford Sound
[Felt it?](#)

Public Id: [2012p836220](#)
NZDT: Monday, November 5 2012 at 10:38:04 pm
Intensity: light
Depth: 42 km
Magnitude: 4.1
Location: 15 km south-west of Te Kaha
[Felt it?](#)

geonet.org.nz - Volcanoes

GeoNet Latest News Connect Maps Quakes **Volcano** Tsunami More EOC & GNS Science

Volcanoes Info Volcanoes **Tongariro:** Cameras Drums Quakes Info

Home / Volcanoes / Tongariro

Tongariro

Aviation Colour Code

Status: Volcanic activity has decreased significantly but continues to be closely monitored for possible renewed increase.

POP-UP

Share Tweet +1

Volcano Alerts

The current status of Tongariro.

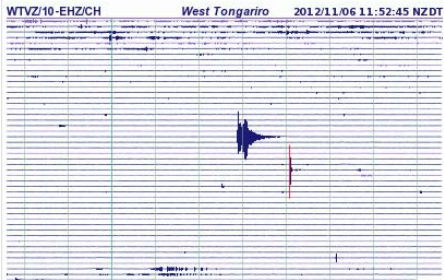
Volcanic Alert Level: **1**

Aviation Colour Code: **YELLOW**

Volcano Drums

Showing seismic activity over the last 24 hours.

WTVZ/10-EHZ/CH West Tongariro 2012/11/06 11:52:45 NZDT




West Tongariro

View Drums

Volcano Cameras

Showing the most recent images from our cameras.



Tongariro

2012 Nov 06 11:30 am NZDT © Institute of Geological and Nuclear Sciences Ltd.

Tongariro

View Camera

geonet.org.nz – Information / data

The screenshot shows the GeoNet website interface. At the top, there is a navigation bar with 'GeoNet' on the left and 'EQC & GNS' on the right. The main navigation menu includes 'Latest News', 'Connect', 'Maps', 'Quakes', 'Volcano', 'Tsunami', and 'More'. A search bar is located in the top right corner. Below the navigation, there are several tabs: 'Our News', 'Our Geohazards', 'Our Resources', and 'About GeoNet'. The 'Our News' tab is active, and a dropdown menu is open, showing options like 'Canterbury Quakes', 'GeoNet Blogs', 'GeoNet News - Archive', and 'Information at your fingertips'. The main content area features a 'Latest News' section with a sub-header 'Te Maari (Tongariro) update'. Below this, there is a paragraph of text describing recent visits to the site. Another update, 'Ruapehu Volcano update', is also visible. A link 'Read more news here!' is provided. Below the link, there is a section titled 'The Current Issue of GeoNet News' with a thumbnail image of the news magazine cover. To the right, there is a 'Connect with Us' section with social media icons for Facebook, Twitter, and RSS, along with a contact form icon. The bottom of the page features a red banner with the text 'GNS Science'.

GeoNet Latest News EQC & GNS

Search

Our News Our Geohazards Our Resources About GeoNet

Latest News

- Canterbury Quakes
- GeoNet Blogs
- GeoNet News - Archive
- Information at your fingertips

Latest News

Te Maari (Tongariro) update

Several visits have been made by teams working at Te Maari. Tasks have included servicing the portable seismometers, visiting the site of the break out from the dammed lakelet, sampling the gas vents and collecting samples of the eruption ejecta. A gas flight has also been completed. We continue to operate four portable seismometers about the active vents, complementing the four permanent installations on Tongariro. We are not recording very many earthquakes in the area presently....

Ruapehu Volcano update

GeoNet monitoring of Ruapehu volcano has continued although we have been a little distracted by eruptive activity at Te Maari (Tongariro) and White Island. The Crater Lake was last hot in December 2011/January 2012 when temperatures rose to over 35 °C. Since then the lake has cooled, reaching about 16 °C in May and has fluctuated between 18 and 24 °C since then. When visited last week the temperature was 19.5 °C. The lake is a blue-green colour with weak convection near the centre....

[Read more news here!](#)

The Current Issue of GeoNet News

Connect with Us

- Like GeoNet on Facebook
- Follow us on Twitter
- Check out the GeoNet Blogs
- Contact the team at GeoNet
- Get RSS, Email and Apps for your phones

Past issues

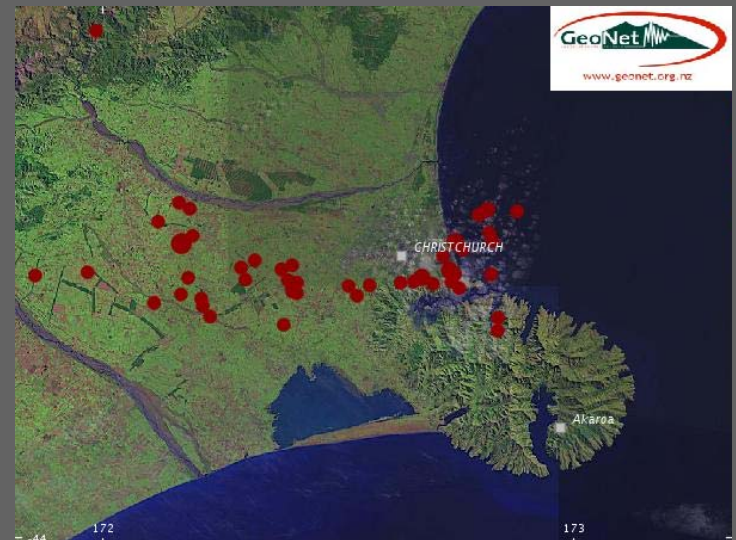
GNS Science

Social Media – The Next Frontier!



The first challenge = Canterbury

- September 4th 2010
- Awareness of GeoNet increased, 'house hold' name
- Website hits:
 - 2009 147 million
 - 2010 Sept 4th → 8th 187 million
- Facebook
 - Pre Sep < 1000 'likes' this quickly rose
 - Lots of Questions and fears
 - 2011 1 billion hits!



Facebook



Wall Photos

GeoNet
Liked · 21 May

Monday MythBusting: Volcanoes in the Sth Island will erupt again. Myth: All volcanic activity is in the Nth Island, as this is where the closest source of magma is. All recent eq activity in the Sth island has been tectonic not volcanic related.

Tag photo Add location Edit

Like · Comment · Share · Edit

49 people like this.

4 shares

Rob Dickinson Way to tempt fate...
21 May at 09:16 · Like · 1

Nicole Thressa Phillips That is good 2 no ;)
21 May at 09:17 · Like · 1

Mandi Coles I know this may seem like a stupid q, but how do you know where the closest magma is?... I dont believe our volcanoes will go off down here I know they are long gone, but do you drill to find out?... take samples etc?
21 May at 09:18 · Like · 4

Michael Bailey Hehe I gotta agree - I know all the science points to it being tectonic related, and I completely agree with all the science, but short of drilling down there and having a look, there's no way to be 100% sure. But still, 99.999% sure is good enough for me :)
21 May at 09:23 · Like · 2

Jozsef Ferencz Here I thought it was common knowledge that the volcanic activity was in the North Island. Eventually even the north island is

Write a comment...

new top level domain .info
- Better selection Better

The Second Challenge = Eruption(s)

August : White Island and Tongariro have small eruptions, both at night.

Website:

- Volcano Alert Bulletins , News stories and Ashfall Prediction maps
- Old system = some delay

Facebook / Twitter:

- Instant information
- Ash / What to do
- Photos to and from public
- quickly confirm/deny rumours





Rumours / Bad News

stuff.co.nz

Magma bubbles higher in Mt Tongariro

ONE NEWS

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Bubbling magma suggests large Tongariro eruption possible - GNS

Published: 11:11AM Friday August 10, 2012 Source: Fairfax / ONE News

Tests have revealed that magma is bubbling high inside Mount Tongariro, which could suggest a larger eruption is imminent.



GeoNet

10 August 

MYTHBUSTER : Magma is bubbling close to the surface of Mt Tongariro = MYTH, magma is present but with the evidence we have, we can't say how deep it is, and does not imply an imminent large eruption...

Like · Comment · Share

 36

 98 people like this.

 View all 63 comments



Write a comment...

9,629 people saw this post

Social Media – Twitter

- Easy to manage (compared to Facebook)
- Can just post links (auto from RSS feeds)
- Less man-power

The screenshot shows a Twitter feed with several tweets. The tweets are as follows:


- Dave @nzkarit** (@nzkarit) 21m: [@geonet](#) awesome work.
- Bart Broadfoot @bbroadfoot** (@bbroadfoot) 23m: My wife probably won't believe you [@geonet](#) but it is worth a shot and thanks for explaining. Excellent work the last fortnight too.
- Jonathan Drake @jofajafa** (@jofajafa) 23h: Suddenly [@geonet](#) became really important again.
- NL2NZ @NL2NZ** (@NL2NZ) 6 Aug: I do hope Dino gets evacuated if White Island blows! [@geonet](#) [geonet.org.nz/images/Volcano...](#)
- WeatherWatch.co.nz @WeatherWatchNZ** (@WeatherWatchNZ) 20h: A huge thanks to GNS & GeoNet for their amazing work over the past week and today - and the days to come! Cheers, [WeatherWatch.co.nz](#)
- Tomas Kriha @TomasKriha** (@TomasKriha) 3 Jul: Seeing as everyone is up, can I just say that the [@GeoNet](#) beta site [ht.ly/1ObSwE](#) rocks on a mobile and there's an app too [#eqnz](#)
- Nathan Wall @_Nathan_W_** (@_Nathan_W_) 3 Jul: Just been playing with [@geonet](#)'s time map [beta.geonet.org.nz/maps/timemap](#) - the circles are a bit scary but makes for some awesome infographics
- Miles Thompson @utunga** (@utunga) 3 Jul: hey - maybe its time to say good on [@geonet](#) for getting their stuff together with the almost real time earthquake reports..
- Marek Kuziel @marekkuziel** (@marekkuziel) 3 Jul: +1 definitely! RT [@00k](#): Two thumbs up to [@geonet](#) for near-real-time quake resolution, and servers that cope with peak load. Well done!

Blogging

GeoNet - Shaken not stirred

Monday, August 6, 2012

About Me




Sara
I am the GeoNet Outreach Coordinator, when I'm not busy locating earthquakes I try and spread the word of GeoNet to the NZ public and councils.

[View my complete profile](#)

Blog Archive

- 2012 (14)
 - August (2)
 - [GeoNet.org.nz - Change is coming!](#)
 - [White Island Eruption Video](#)
 - July (2)
 - June (1)
 - May (3)
 - March (3)
 - January (3)
- 2011 (38)



White Island Eruption Video



This movie is made from photos taken from our cameras on White Island on Sunday Morning 5th Aug. Luckily the moon was out!

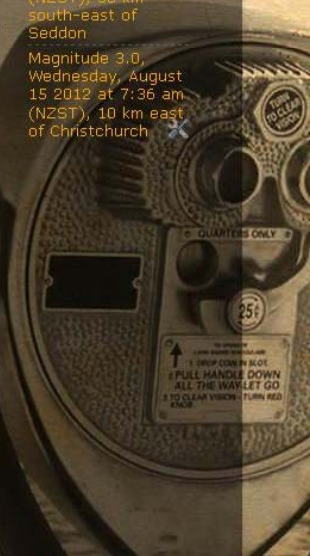
Posted by Sara at 7:37 PM

9 comments:

-  **Zeb** August 6, 2012 7:53 PM
That is pretty darn cool. Thanks for sharing :)
Reply Delete
-  **AngelMum06** August 6, 2012 8:03 PM
so pretty...
Reply Delete

GNS Science - GeoNet: Latest New Zealand Earthquakes.

- Magnitude 2.5, Thursday, August 16, 2012 at 4:47 am (NZST), 20 km west of Waihouaiti
- Magnitude 3.5, Wednesday, August 15, 2012 at 7:32 pm (NZST), 30 km south-east of Seddon
- Magnitude 3.0, Wednesday, August 15, 2012 at 7:36 am (NZST), 10 km east of Christchurch



Geonet-shakennotstirred.blogspot.co.nz

More Blogging

- Science and tech behind Geonet
 - <http://geonet-scienceinaction.blogspot.co.nz/>
- Inside view on GeoNet geekdom
 - <http://geonet-dev.blogspot.co.nz/>





www.geonet.org.nz

