

M 5.9, COOK STRAIT, NEW ZEALAND

Origin Time: Fri 2013-08-16 03:09:08 UTC (16:09:08 local)

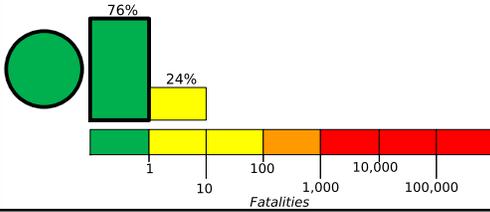
Location: 41.74°S 174.05°E Depth: 8 km

Created: 8 weeks, 1 day after earthquake

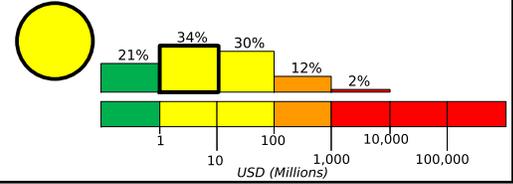
Estimated Fatalities

Yellow alert level for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of New Zealand. Past events with this alert level have required a local or regional level response.

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.



Estimated Economic Losses

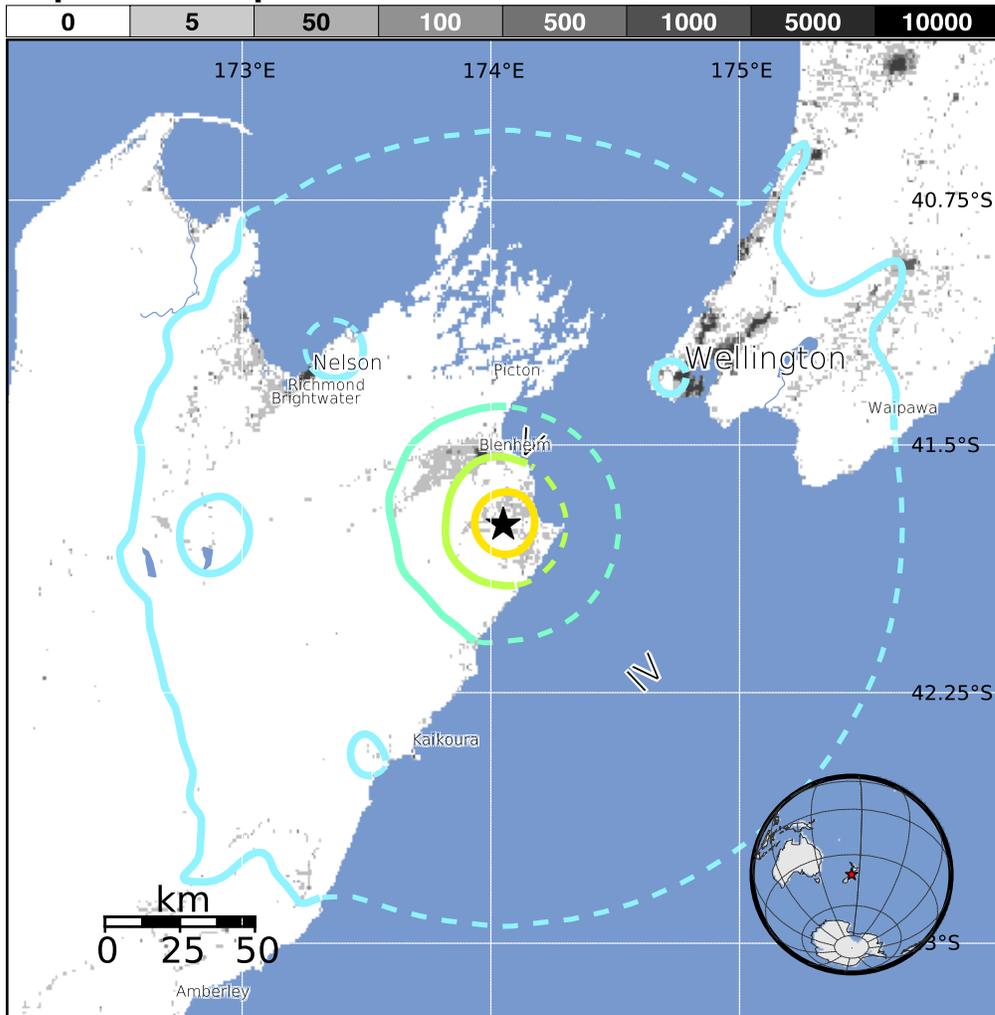


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	269k*	465k	35k	4k	3k	0	0	0	
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+	
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme	
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures:

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-04-11	322	5.7	VI(846)	0
1990-02-10	101	6.0	VIII(61)	0
1990-05-13	256	6.4	VIII(440)	0

Selected City Exposure

from GeoNames.org

MMI City	Population
VI Blenheim	27k
IV Picton	3k
IV Petone	7k
IV Wakefield	2k
IV Mapua	2k
IV Richmond	14k
IV Lower Hutt	101k
IV Porirua	51k
III Wellington	382k
III Palmerston North	76k
III Nelson	59k

bold cities appear on map

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<http://earthquake.usgs.gov/pager>

Event ID: usb000j4kk