

M 5.8, SOUTH ISLAND OF NEW ZEALAND

Origin Time: Sun 2016-02-14 00:13:44 UTC (00:13:44 local)

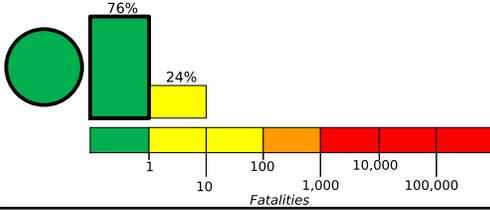
Location: 43.48°S 172.76°E Depth: 8 km

Created: 6 weeks, 4 days after earthquake

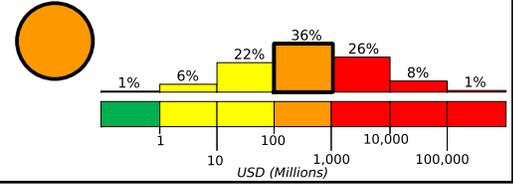
Estimated Fatalities

Orange alert level for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are less than 1% of GDP of New Zealand. Past events with this alert level have required a regional or national level response.

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



Estimated Economic Losses



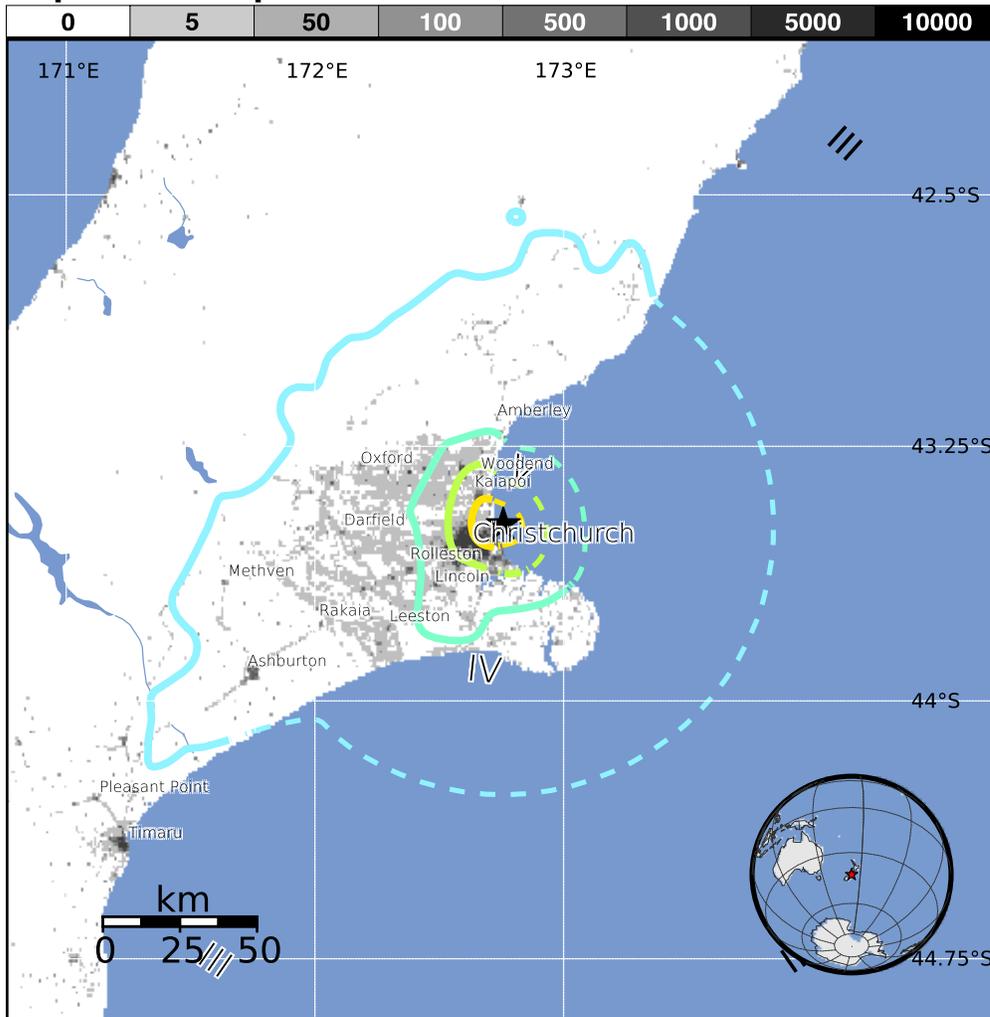
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	81k*	92k	58k	217k	147k	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

population per ~1 sq. km from Landsat



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
2001-12-07	330	5.8	VII(476)	0
1984-06-24	176	6.1	VIII(18)	0
1990-02-10	132	6.0	VIII(61)	0

Selected City Exposure

from GeoNames.org

MMI City	Population
VII Christchurch	364k
VI Kaiapoi	10k
VI Woodend	3k
V Lincoln	2k
IV Amberley	1k
IV Rolleston	3k
IV Tinwald	3k
IV Ashburton	30k
III Timaru	28k
III Hokitika	3k
III Greymouth	9k

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/earthquakes/eventpage/us20005019>

Event ID: us20005019