Earthquake Shaking Green Alert

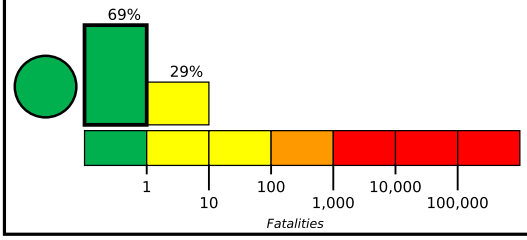
M 4.9, 101 km NE of Maketu, New Zealand

Origin Time: 2020-08-29 12:45:19 UTC (Sun 00:45:19 local)
Location: 37.0192° S 177.1180° E Depth: 10.0 km

PAGER Version 4

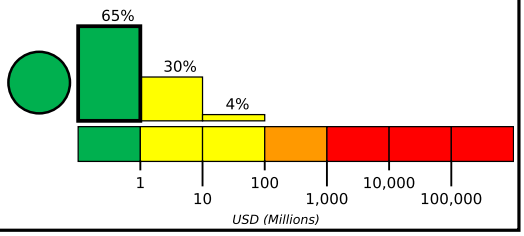
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses



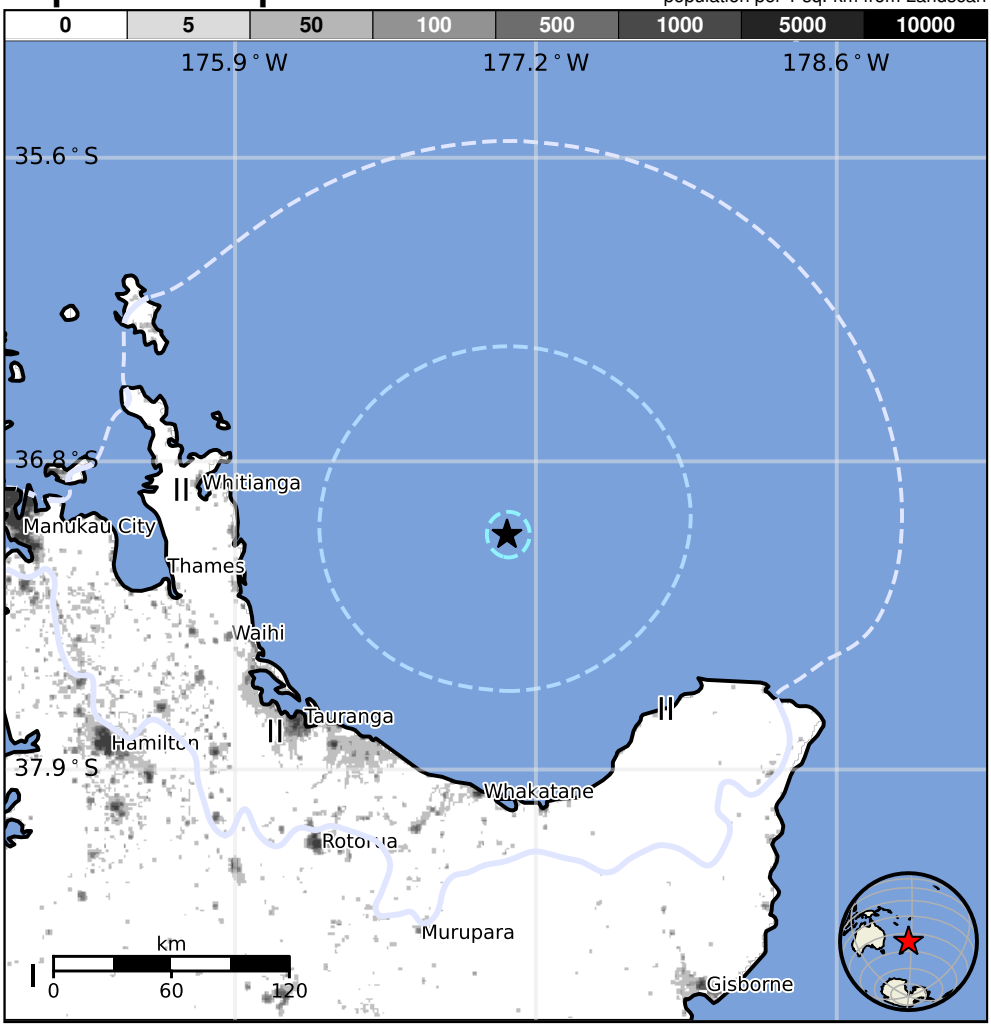
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		401k*	898k	0	0	0	0	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are reinforced masonry and unreinforced brick with timber floor construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2007-12-20	244	6.6	VI(12k)	0
1987-03-02	116	6.5	VIII(16k)	0
2004-07-18	125	5.4	V(1k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
II	Tairua	2k
II	Ngatea	1k
II	Whangamata	4k
II	Paeroa	4k
II	Maketu	1k
II	Katikati	3k
II	**Tauranga**	**110k**
II	**Manukau City**	**362k**
II	**Whakatane**	**19k**
I	**Hamilton**	**153k**
I	**Gisborne**	**34k**

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.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000besr#pager

Event ID: us7000besr