

M 6.3, TONGA

Origin Time: Thu 2013-05-23 21:07:46 UTC (09:07:46 local)

Location: 20.56°S 175.76°W Depth: 149 km

PAGER
Version 12

Created: 2 weeks, 4 days 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

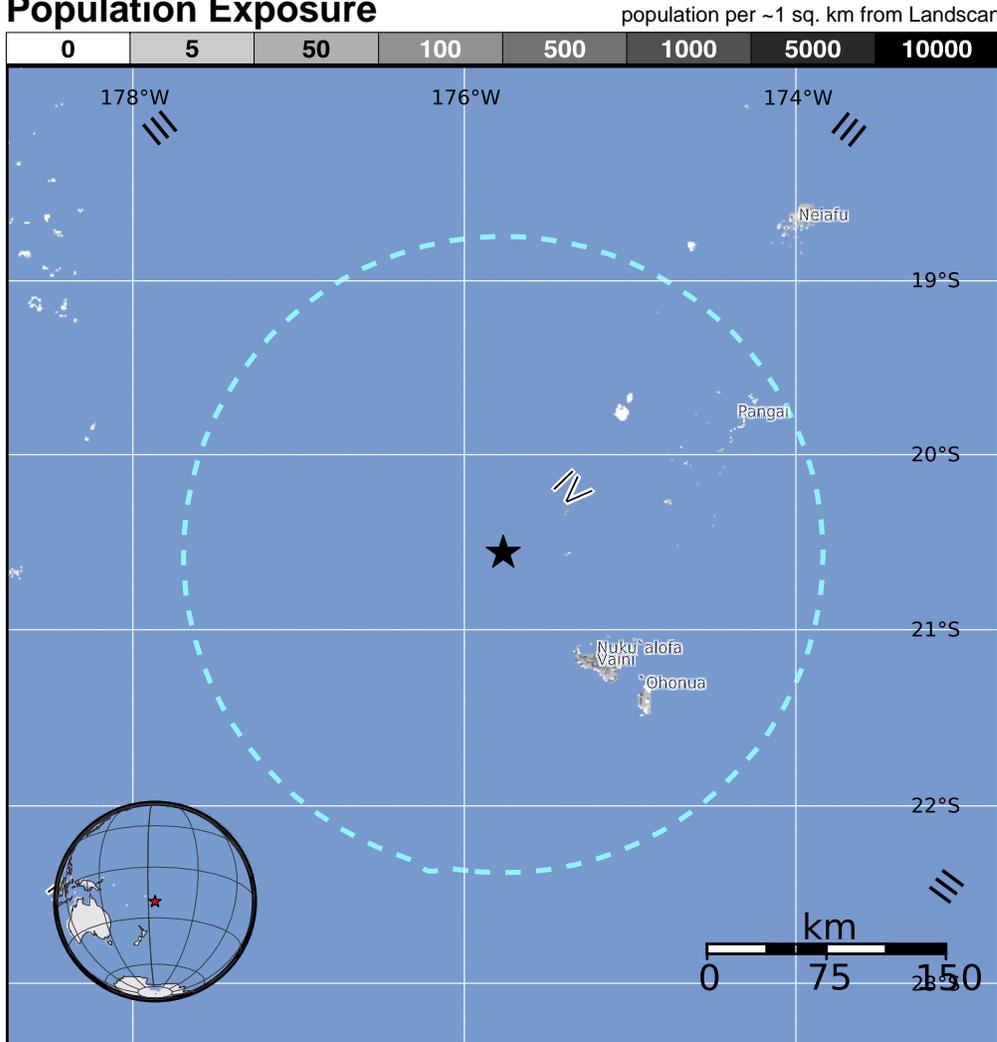


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	- -*	21k*	105k	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	Moderate/Heavy	Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	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 vulnerable to earthquake shaking, though some resistant structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-01-24	148	6.1	V(74k)	0
1983-03-21	117	6.7	VII(53k)	0
2006-05-03	176	8.0	VIII(9k)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Nuku'alofa	22k
IV	Havelu	3k
IV	Vaini	3k
IV	Pangai	2k
IV	`Ohonua	1k
III	Neiafu	4k

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.