

M 6.0, TONGA

Origin Time: Sun 2015-10-18 16:18:35 UTC (16:18:35 local)

Location: 16.20°S 173.26°W Depth: 12 km

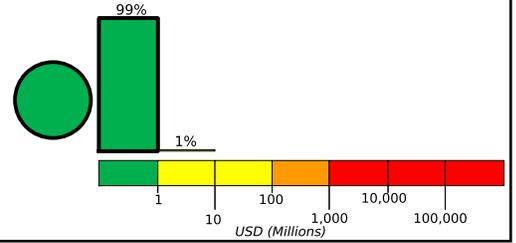
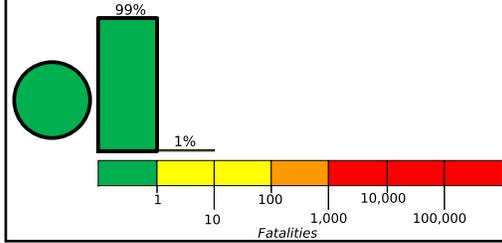
PAGER
Version 5

Created: 6 weeks, 2 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

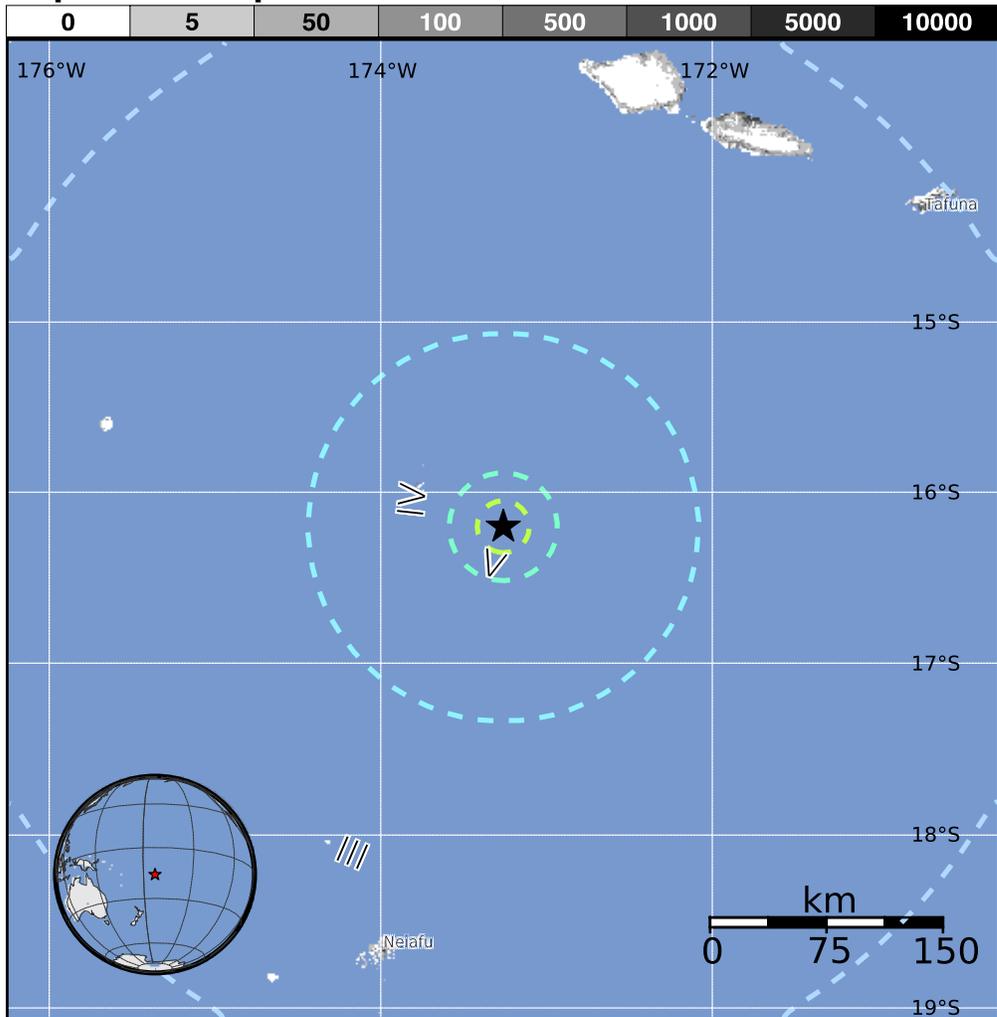


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	275k	1k	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	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 vulnerable to earthquake shaking, though some resistant structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2006-09-28	135	6.9	IV(220k)	0
1977-06-13	270	5.7	VII(4k)	0
1999-01-05	262	5.9	VII(15k)	0

Selected City Exposure

from GeoNames.org

MMI City	Population
III Neiafu	4k
III Nofuoli'i	2k
III Leulumoega	1k
III Afenga	2k
III Malie	2k
III Gataivai	1k
III Apia	40k
III Faleniu	3k
III Leone	4k
III Pago Pago	12k
III Tafuna	11k

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: us10003pie