

M 5.8, TONGA

Origin Time: Mon 2013-07-15 13:59:04 UTC (01:59:04 local)

Location: 15.43°S 173.06°W Depth: 15 km

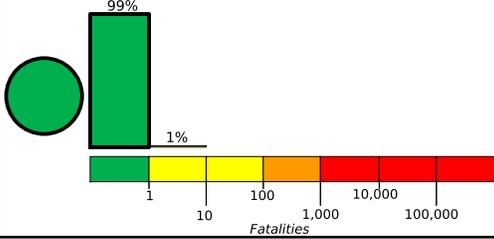
PAGER
Version 6

Created: 17 weeks, 1 day 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

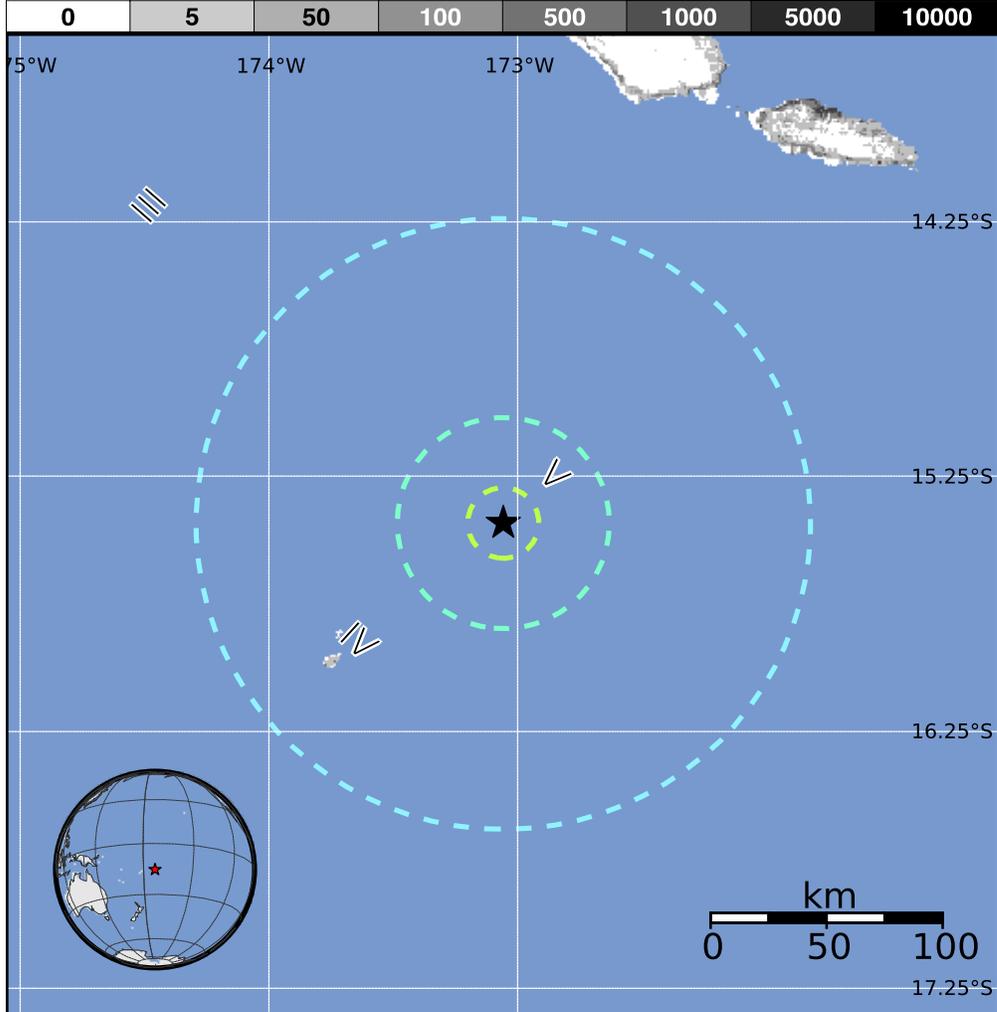


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	184k*	2k	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	171	6.9	IV(220k)	0
1977-06-13	361	5.7	VII(4k)	0
1999-01-05	353	5.9	VII(15k)	0

Selected City Exposure

from GeoNames.org

MMI City	Population
III Gataivai	1k
III Nofoali`i	2k
III Leulumoega	1k
III Fasito`outa	2k
III Satapuala	1k
III Matavai	1k
III Siusega	2k
III Apia	40k
III Malie	2k
III Faleula	3k
III Vaiusu	2k

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: usb000ief4