

**M 5.9, TONGA REGION**

Origin Time: Sun 2016-04-17 07:31:00 UTC (07:31:00 local)

Location: 23.49°S 174.25°W Depth: 10 km

**PAGER**  
**Version 3**

Created: 6 weeks, 3 days after earthquake

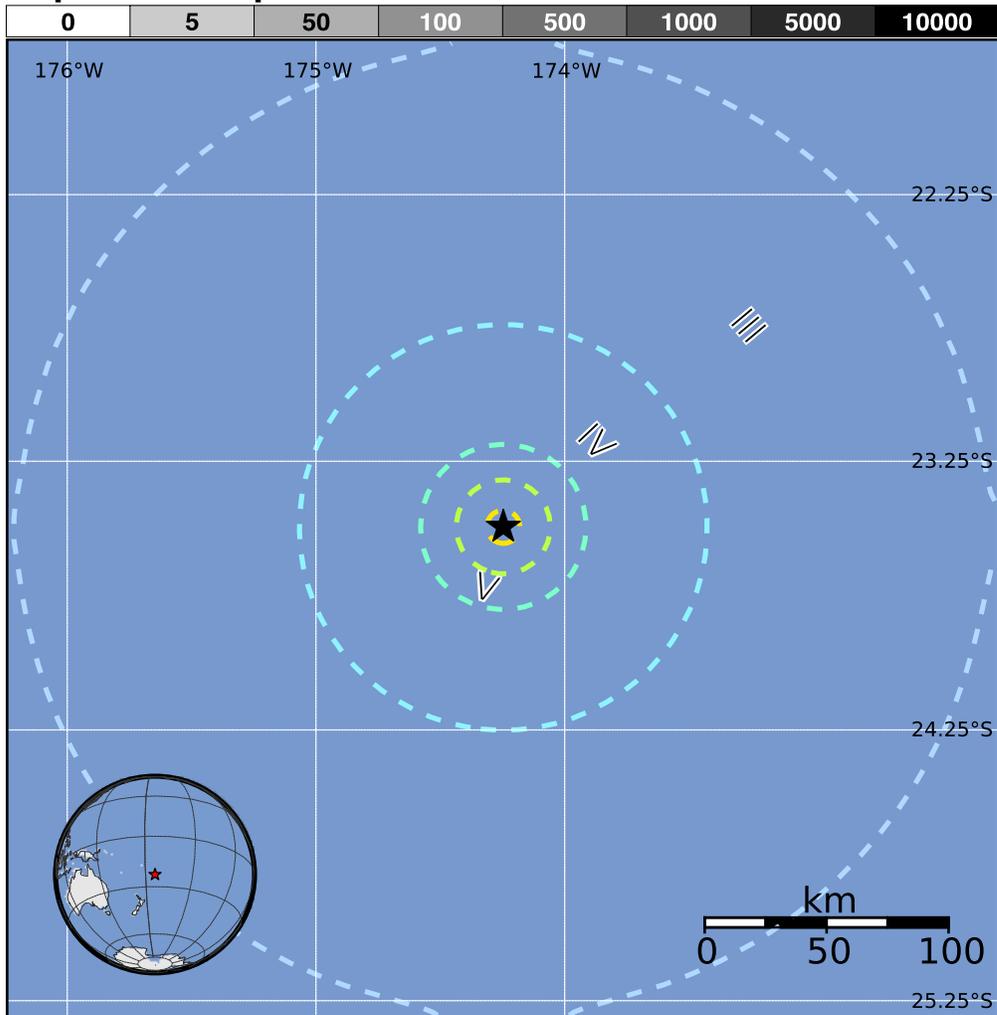


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	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	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
1980-03-31	360	6.1	V(4k)	0
1983-03-21	250	6.7	VII(53k)	0
2006-05-03	384	8.0	VIII(9k)	0

**Selected City Exposure**

from GeoNames.org

MMI City	Population

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/us20005j67>