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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

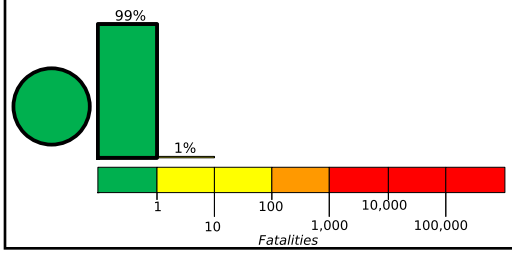
M 5.5, MOLUCCA SEA

Origin Time: Tue 2016-03-29 09:18:11 UTC (09:18:11 local)
Location: 2.39°N 126.10°E Depth: 55 km

PAGER Version 3

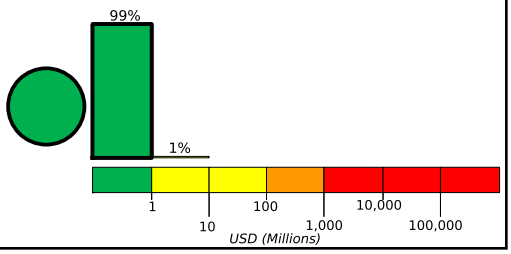
Created: 5 weeks, 2 days after earthquake

Estimated Fatalities



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

Estimated Economic Losses



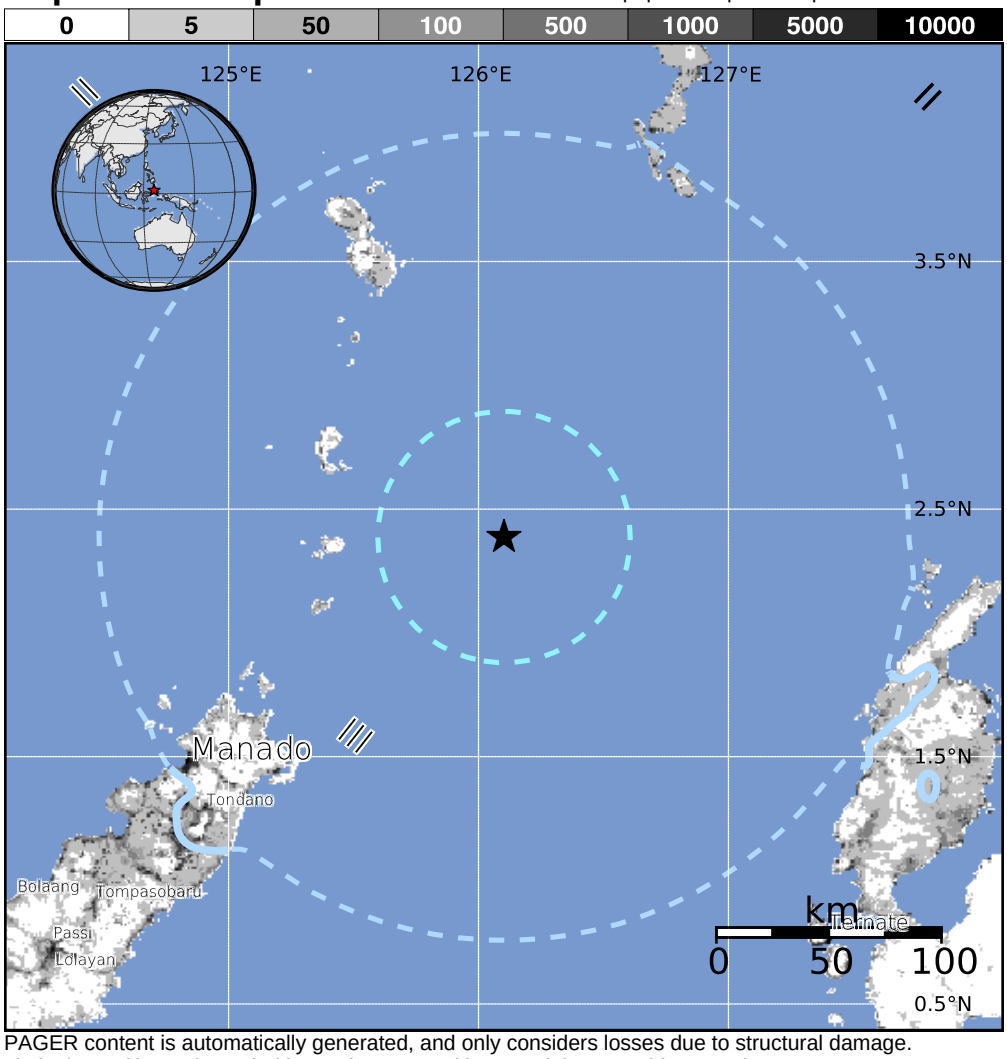
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		6k*	2,999k	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

population per ~1 sq. km from Landscan



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
1979-05-18	192	6.3	V(3k)	0
2007-01-21	139	7.5	VI(283k)	3
1994-01-21	236	6.9	IX(28k)	7

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	**Manado**	**452k**
III	Bitung	137k
III	**Tondano**	**33k**
III	Tomohon	28k
II	Tobelo	10k
II	**Tompasobaru**	**< 1k**
II	Poigar	< 1k
II	**Passi**	**< 1k**
II	**Lolayan**	**< 1k**
II	**Ternate**	**102k**

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/us20005d4l

Event ID: us20005d4l