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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

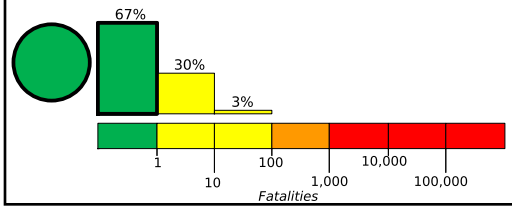
M 5.7, TAIWAN REGION

Origin Time: Thu 2016-05-12 04:29:55 UTC (04:29:55 local)
Location: 24.68°N 122.05°E Depth: 9 km

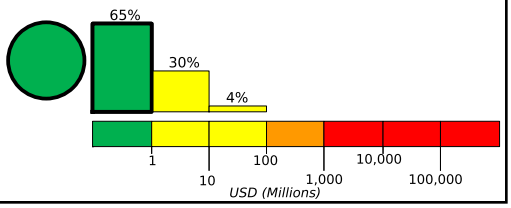
PAGER Version 3
Created: 4 weeks, 6 days after earthquake

Estimated Fatalities

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



Estimated Economic Losses



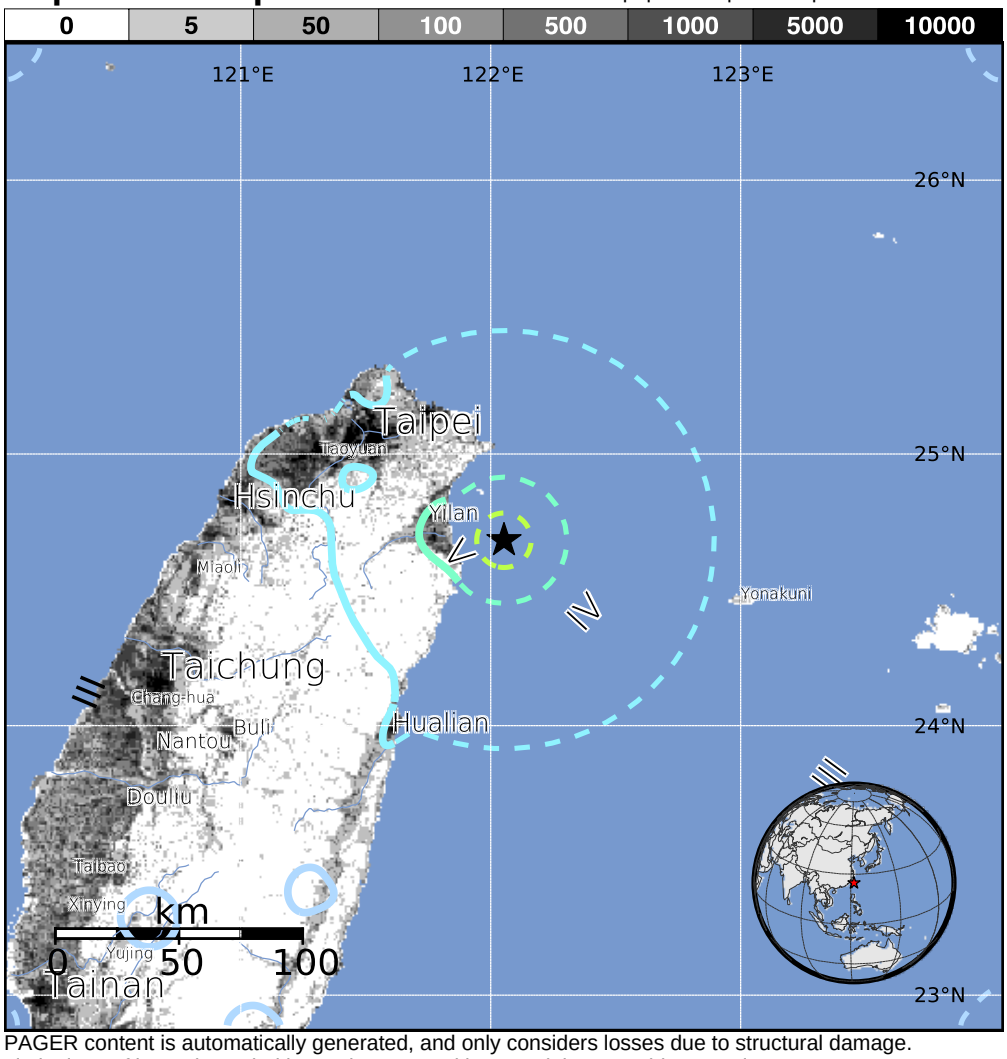
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	9,826k	9,457k	378k	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 resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1975-03-23	235	6.6	V(41k)	0
2000-05-17	113	5.4	VII(94)	3
1999-09-20	148	7.6	IX(1,952k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	**Yilan**	**94k**
IV	**Taipei**	**7,872k**
IV	Banqiao	543k
IV	**Hualian**	**350k**
IV	Keelung	398k
IV	**Taoyuan**	**< 1k**
IV	Taoyuan City	402k
IV	**Hsinchu**	**404k**
III	**Taichung**	**1,041k**
III	**Nantou**	**106k**
III	**Tainan**	**771k**

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/us10005gq4

Event ID: us10005gq4