

M 6.8, offshore Guatemala

Origin Time: 2017-06-22 12:31:03 UTC (Thu 06:31:03 local)
Location: 13.7174° N 90.9718° W Depth: 38.1 km

PAGER Version 4

Created: 4 weeks, 6 days after earthquake

Estimated Fatalities

Magnitude Range	Percentage
1-2	9%
2-3	25%
3-4	35%
4-5	23%
5-6	7%

Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Guatemala.

Estimated Economic Losses

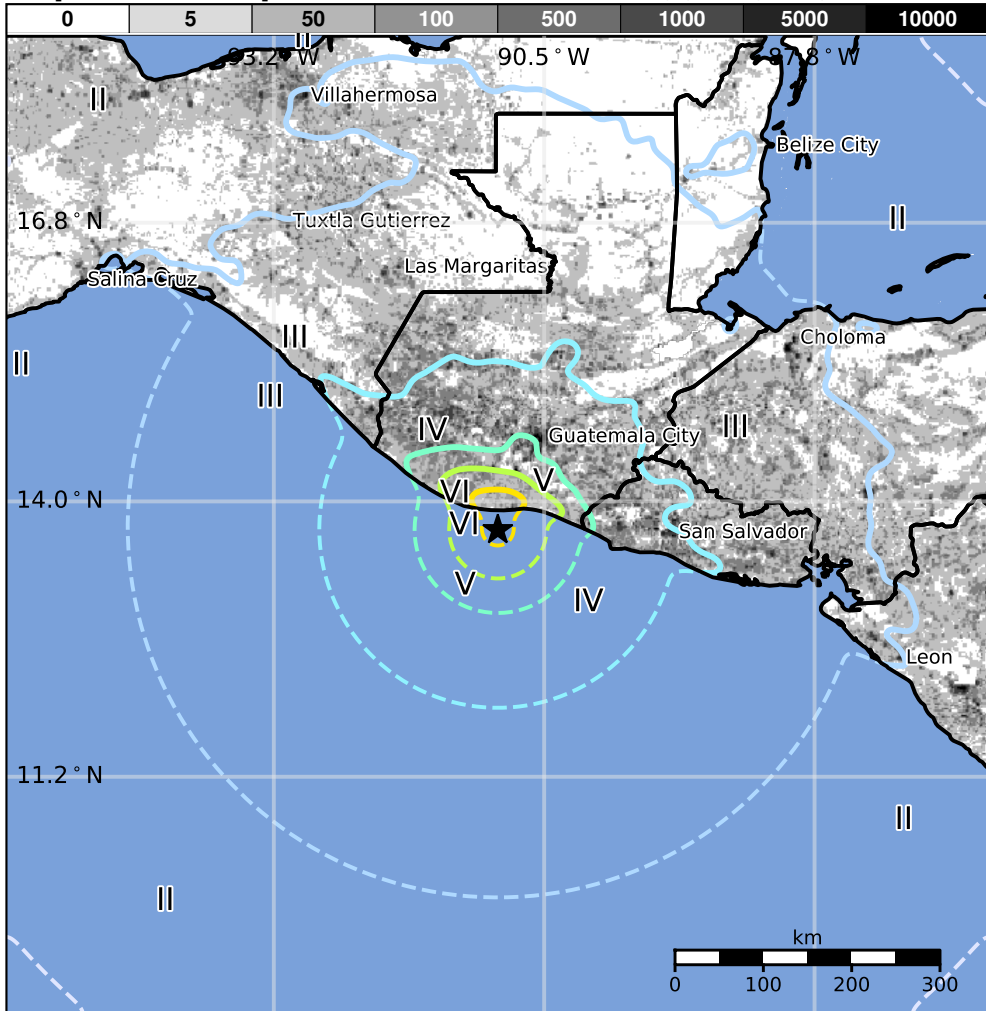
Magnitude Range	Percentage
1-2	7%
2-3	22%
3-4	35%
4-5	26%
5-6	8%

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	12k*	28,980k	11,853k	3,592k	480k	187k	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./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 highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and concrete/cinder block masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1982-06-19	184	7.3	VIII(220k)	43
2001-01-13	256	7.7	VIII(417k)	267
1976-02-04	263	7.5	IX(80k)	23k

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
VII	Puerto San Jose	19k
VII	La Gomera	24k
VI	Iztapa	4k
VI	Masagua	10k
VI	Nueva Concepcion	11k
VI	La Democracia	5k
V	Guatemala City	995k
IV	San Salvador	526k
III	San Pedro Sula	489k
III	Tegucigalpa	851k
II	Managua	973k

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.

bold cities appear on map.

(k = x1000)