Earthquake Shaking Green Alert

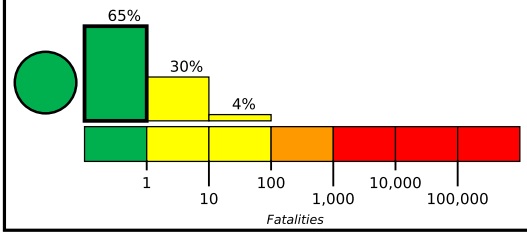
M 5.7, 5 km S of El Pacayal, Mexico

Origin Time: 2021-12-13 07:03:08 UTC (Mon 01:03:08 local)
Location: 15.5517° N 92.0435° W Depth: 180.1 km

PAGER Version 5

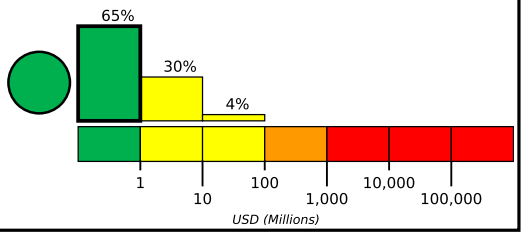
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



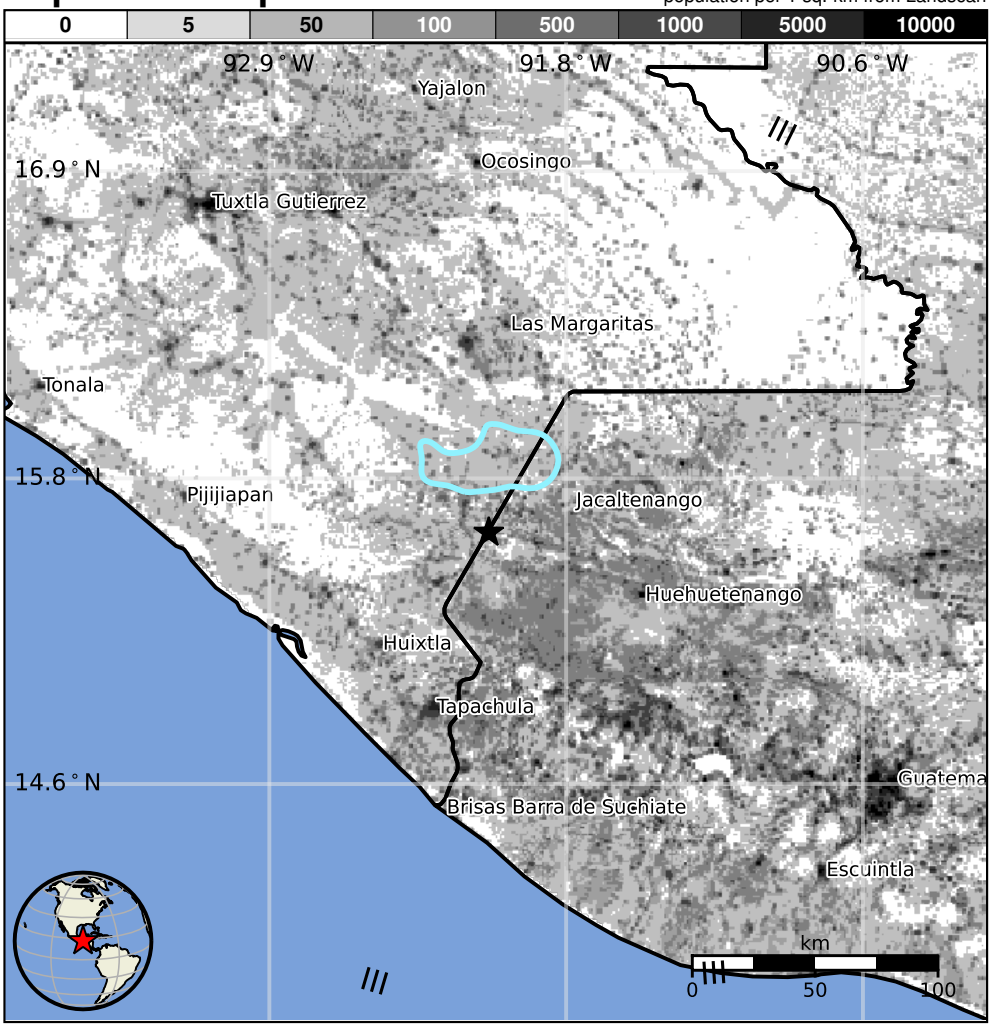
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	18,830k*	717k	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	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

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-02-17	371	4.1	V(2,250k)	1
1975-11-05	171	5.0	VI(21k)	1
1976-02-04	311	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
IV	Lazaro Cardenas	1k
IV	Chicomuselo	5k
IV	Frontera Comalapa	19k
IV	Nueva Libertad (El Colorado)	1k
IV	Nenton	3k
IV	Doctor Rodulfo Figueroa (Tierra Blanca)	2k
III	Quetzaltenango	132k
III	Chimaltenango	82k
III	Tuxtla	481k
III	**Guatemala City**	**995k**
III	**Escuintla**	**103k**

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.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000gbt6#pager

Event ID: us6000gbt6