

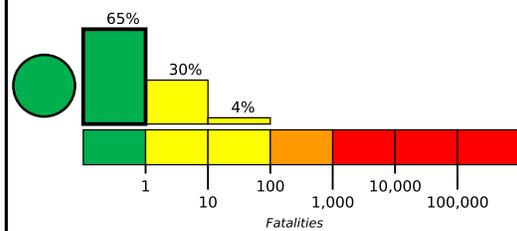
M 6.8, 23km SW of Puerto San Jose, Guatemala

Origin Time: 2017-06-22 12:31:04 UTC (Thu 06:31:04 local)
Location: 13.7527° N 90.9488° W Depth: 46.8 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 2 hours, 3 minutes after earthquake

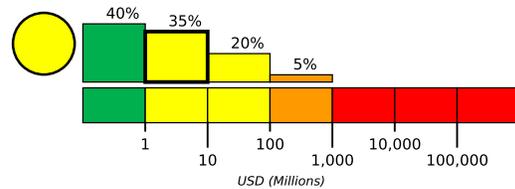
Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Guatemala. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

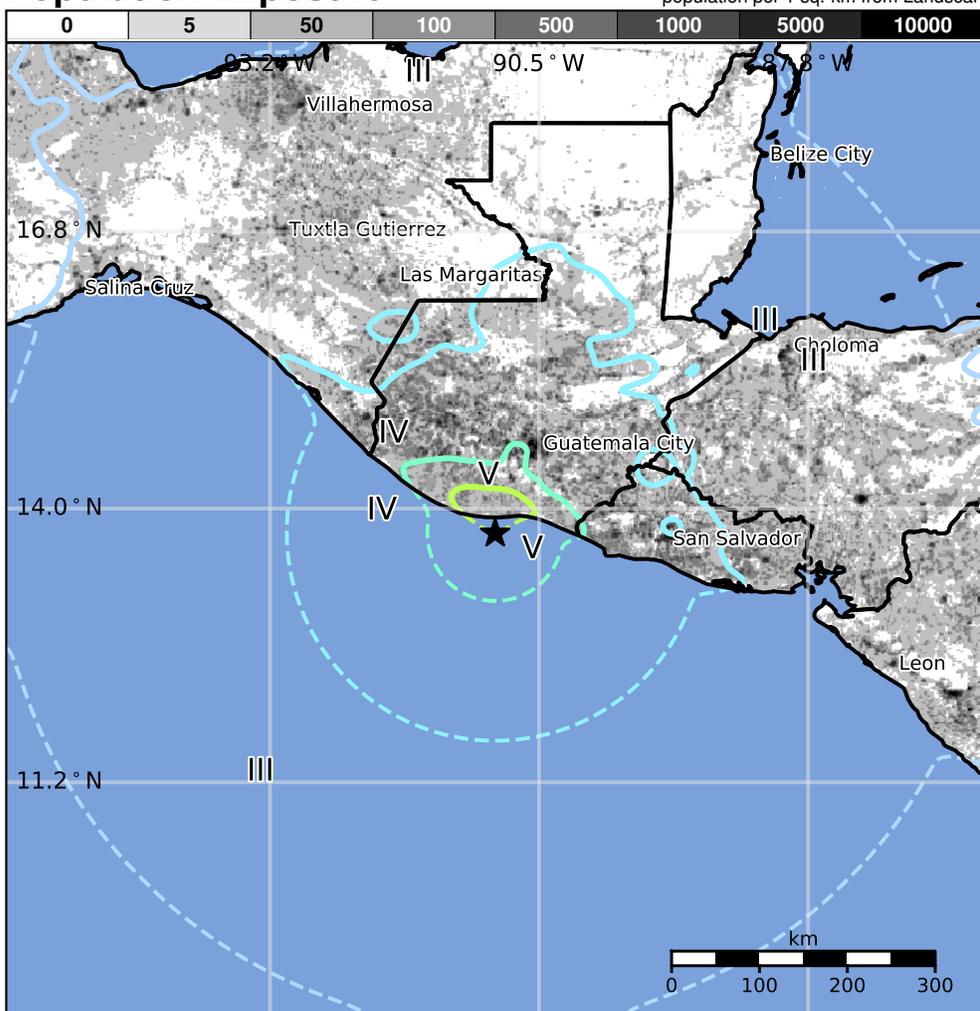


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | —* | 25,596k | 16,383k | 2,972k | 356k | 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



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 informal (metal, timber, GI etc.) construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2001-02-17 | 199 | 4.1 | V(2,250k) | 1 |
| 2001-05-08 | 230 | 5.7 | VII(562k) | 1 |
| 1976-02-04 | 259 | 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 |
|-----|------------------------|-------------|
| VI | Puerto San Jose | 19k |
| VI | La Gomera | 24k |
| VI | Nueva Concepcion | 11k |
| VI | San Miguel Duenas | 8k |
| VI | Masagua | 10k |
| V | Iztapa | 4k |
| V | Guatemala City | 995k |
| IV | San Salvador | 526k |
| III | San Pedro Sula | 489k |
| III | Tegucigalpa | 851k |
| III | 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.

<https://earthquake.usgs.gov/earthquakes/eventpage/us20009p1a#pager>

bold cities appear on map.

(k=x1000)

Event ID: us20009p1a