

M 8.1, 87km SW of Pijijiapan, Mexico

Origin Time: 2017-09-08 04:49:21 UTC (Thu 22:49:21 local)

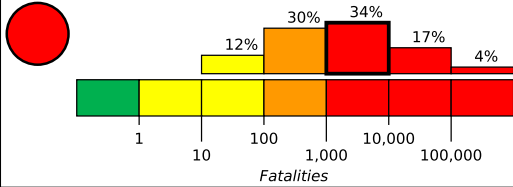
Location: 15.0678° N 93.7150° W Depth: 69.7 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 4 hours, 31 minutes after earthquake

PAGER Version 5

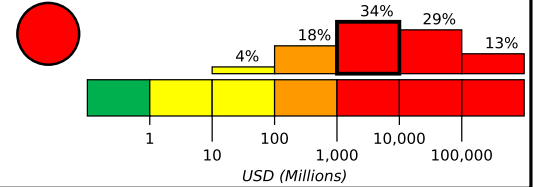
Estimated Fatalities



Red alert for shaking-related fatalities and economic losses. High casualties and extensive damage are probable and the disaster is likely widespread. Past red alerts have required a national or international response.

Estimated economic losses are 0-1% GDP of Mexico.

Estimated Economic Losses

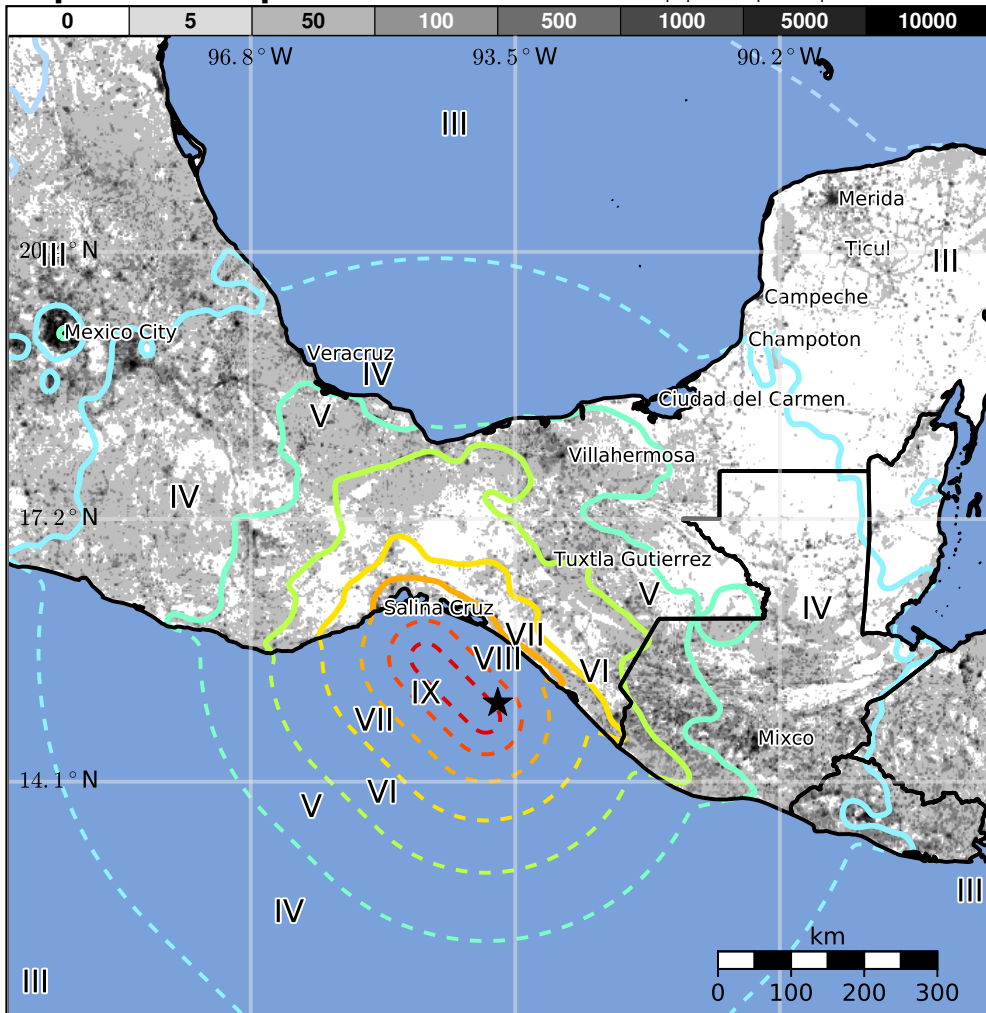


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | —* | 22,225k* | 40,108k | 22,031k | 4,325k | 972k | 547k | 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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block with concrete bond beam and mud wall construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1985-10-11 | 307 | 4.5 | VI(14k) | 0 |
| 1978-07-29 | 294 | 4.9 | VII(14k) | 17 |
| 1991-09-18 | 303 | 6.2 | IX(9k) | 25 |

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

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|------|---------------------------------------|----------------|
| VIII | San Francisco del Mar Viejo | 4k |
| VIII | San Francisco Ixhuatan | 6k |
| VIII | San Mateo del Mar | 5k |
| VIII | Colonia Juarez | 3k |
| VIII | San Luqueno | 1k |
| VIII | Doctor Belisario Dominguez (La Barra) | 1k |
| V | Mexico City | 12,294k |
| V | Guatemala City | 995k |
| IV | Puebla | 1,590k |
| III | San Salvador | 526k |
| III | Merida | 717k |

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/us2000ahv0#pager>

bold cities appear on map.

(k=x1000)

Event ID: us2000ahv0