Earthquake Shaking Green Alert

# M 5.6, 19 km WSW of Emiliano Zapata, Mexico

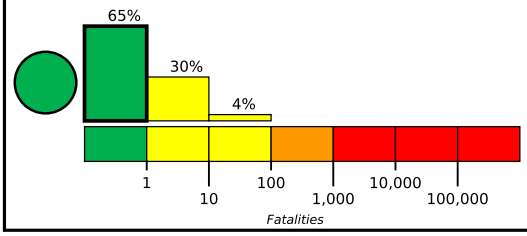
Origin Time: 2023-09-08 15:53:17 UTC (Fri 10:53:17 local)
Location: 19.3112° N 105.1373° W Depth: 5.4 km

**PAGER Version 5**

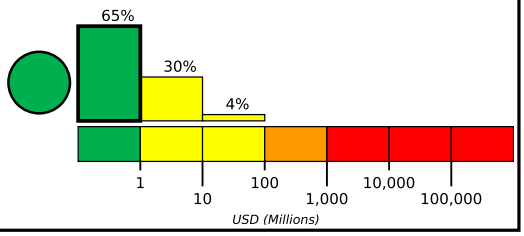
Created: 1 day, 1 hour after earthquake

## Estimated Fatalities

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




## Estimated Economic Losses



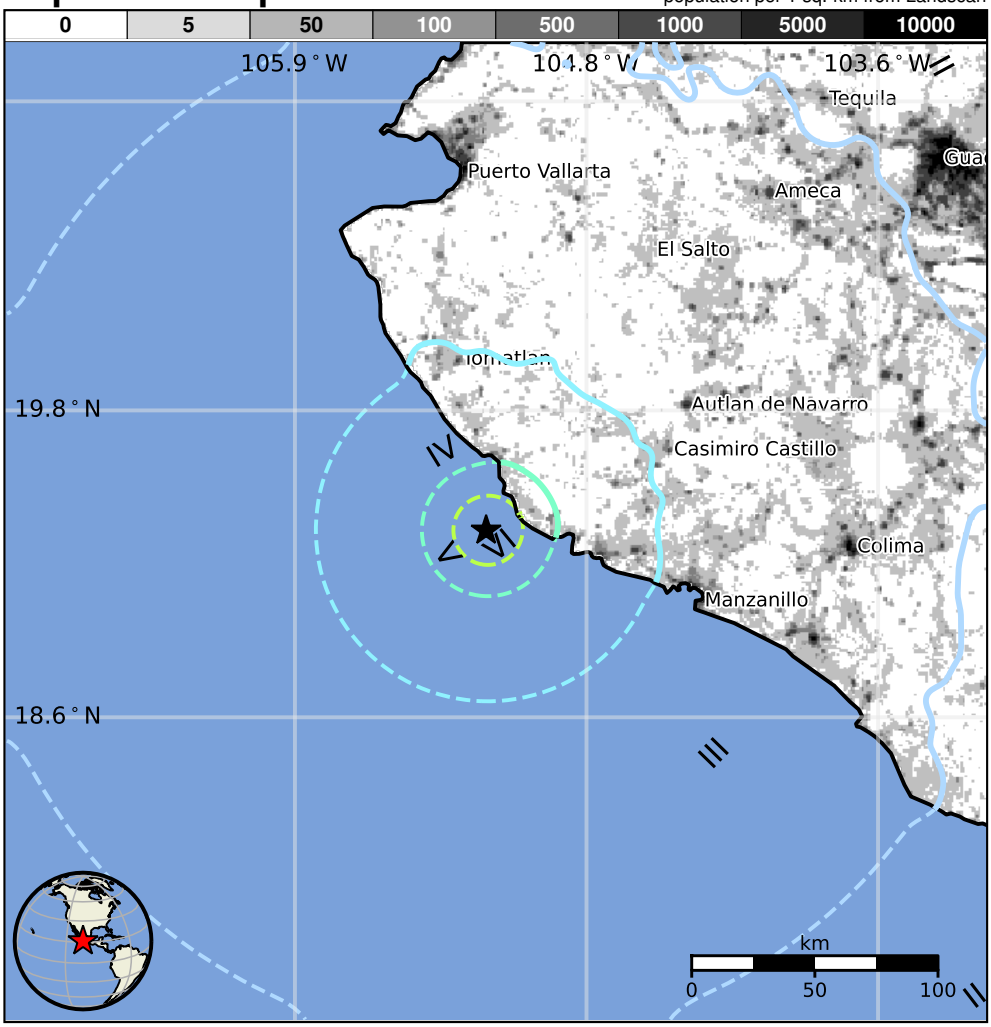

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | –* | 7,985k | 138k | 9k | 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 |
|---|---|---|---|---|
| 2003-01-22 | 122 | 7.5 | VII(300k) | 29 |
| 1997-01-11 | 275 | 7.1 | VIII(13k) | 1 |
| 1985-09-19 | 306 | 8.0 | VII(309k) | 10k |

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 | Emiliano Zapata (El Ranchito) | 2k |
| IV | Las Juntas | 6k |
| IV | San Patricio | 7k |
| IV | Jaluco | 3k |
| IV | La Huerta | 8k |
| IV | Cihuatlan | 17k |
| **III** | **Colima** | **127k** |
| **II** | **Guadalajara** | **1,641k** |
| II | Zapopan | 988k |
| II | Tlaquepaque | 494k |
| II | Tonala | 402k |

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/us7000kub5#pager**

**Event ID: us7000kub5**