Earthquake Shaking Green Alert

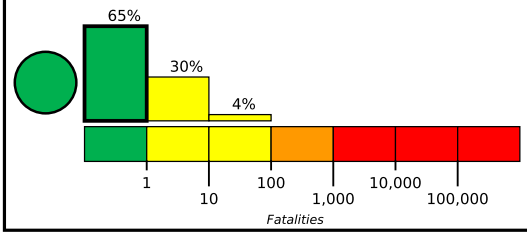
# M 5.5, 125km SW of Mapastepec, Mexico

Origin Time: 2020-05-24 03:52:22 UTC (Sat 21:52:22 local)
Location: 14.6838° N 93.7728° W Depth: 15.8 km

**PAGER Version 3**

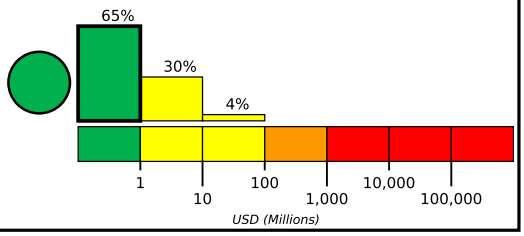
Created: 1 day, 0 hours after earthquake

## Estimated Fatalities




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

## Estimated Economic Losses



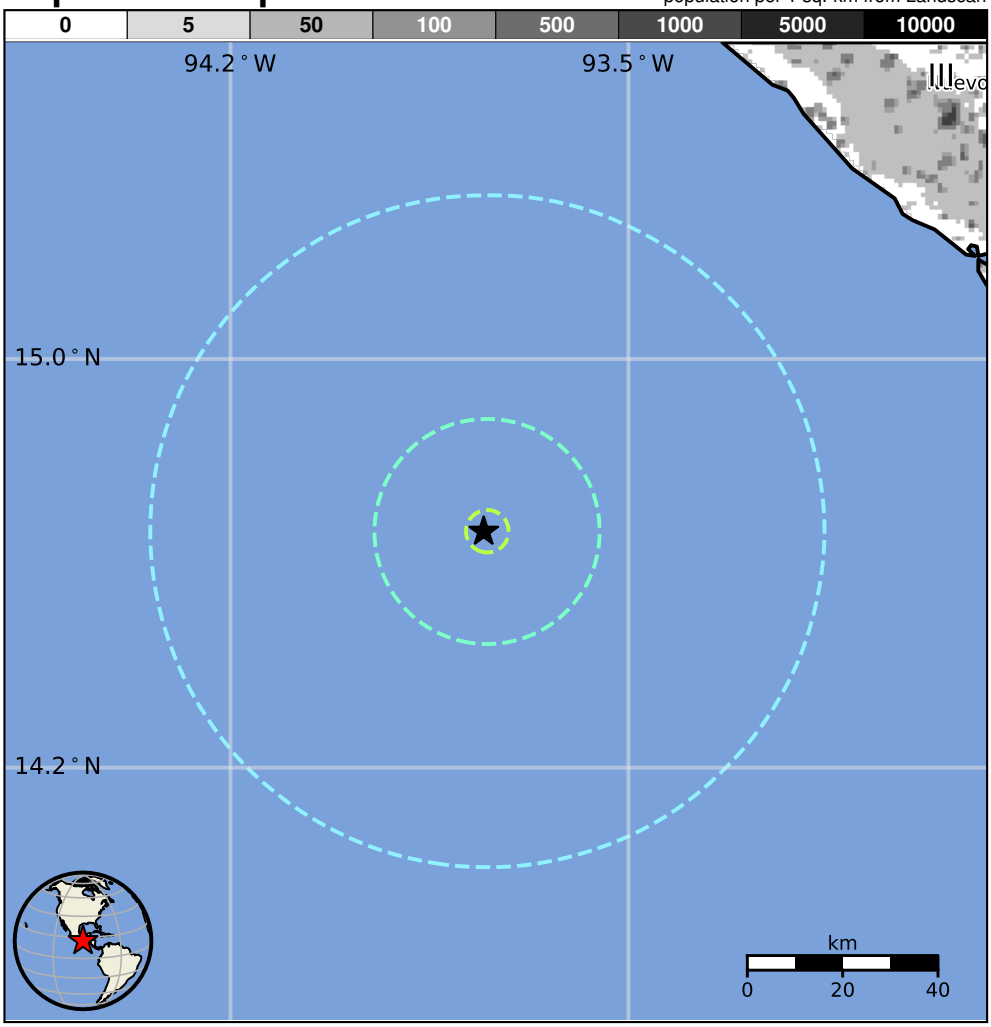

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | –* | 70k* | 0 | 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 |
|---|---|---|---|---|
| 1994-07-04 | 381 | 6.4 | V(118k) | 2 |
| 1975-11-05 | 266 | 5.0 | VI(21k) | 1 |
| 1991-09-18 | 305 | 6.2 | IX(9k) | 25 |

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 |
|---|---|---|
| III | El Palmarcito | 1k |
| III | La Esperanza (El Zapotal) | 1k |
| III | Joaquin Miguel Gutierrez (Margaritas) | 2k |
| **III** | **Nuevo Milenio Valdivia** | **2k** |
| III | Mapastepec | 16k |
| III | Hermenegildo Galeana | 1k |

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/us70009pb6#pager**

**Event ID: us70009pb6**