Earthquake Shaking Green Alert

# M 4.0, 3 km NE of La Parguera, Puerto Rico

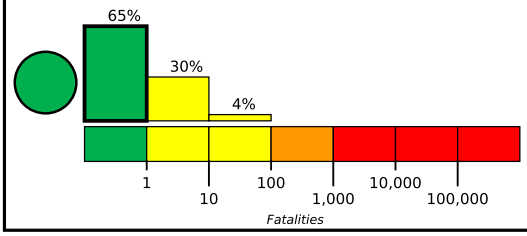
Origin Time: 2020-10-11 07:21:00 UTC (Sun 03:21:00 local)
Location: 18.0008° N 67.0261° W Depth: 10.0 km

**PAGER Version 1**

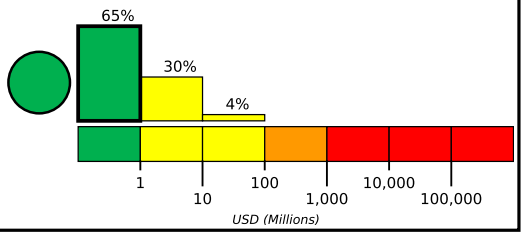
Created: 11 minutes, 51 seconds after earthquake

## Estimated Fatalities

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




## Estimated Economic Losses



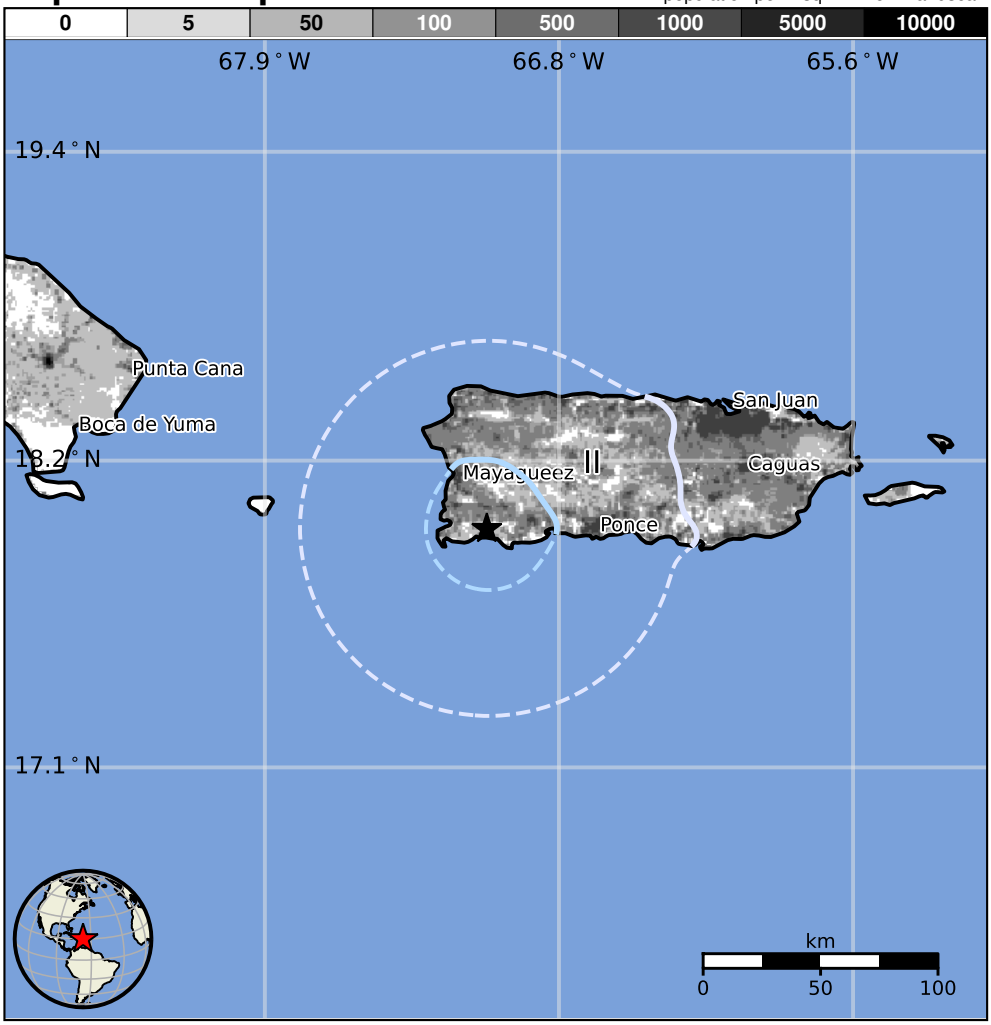

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | 2,172k | 1,423k | 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 informal (metal, timber, GI etc.) construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 1979-03-23 | 216 | 6.6 | VI(605k) | 0 |
| 1980-11-12 | 315 | 5.9 | VII(87k) | – |
| 1984-06-24 | 247 | 6.7 | VII(326k) | 5 |

## Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|---|---|---|
| III | La Parguera | 1k |
| III | Palmarejo | 1k |
| III | Lajas | 5k |
| III | San German | 12k |
| III | Fuig | 1k |
| III | Sabana Grande | 9k |
| **II** | **Ponce** | **153k** |
| I | Bayamon | 203k |
| I | Carolina | 170k |
| **I** | **San Juan** | **418k** |
| I | Salvaleon de Higueey | 124k |

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/us6000c7hy#pager**

**Event ID: us6000c7hy**