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Earthquake Shaking Green Alert

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# M 5.4, 89km SSW of Merizo Village, Guam

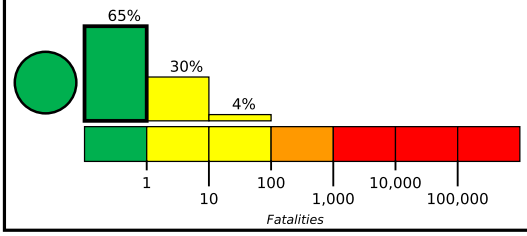
Origin Time: 2020-05-25 23:22:27 UTC (Tue 09:22:27 local)
Location: 12.5776° N 144.2339° E Depth: 20.8 km

**PAGER Version 4**

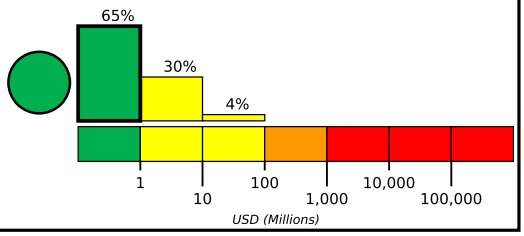
Created: 1 day, 0 hours after earthquake

## Estimated Fatalities

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




## Estimated Economic Losses



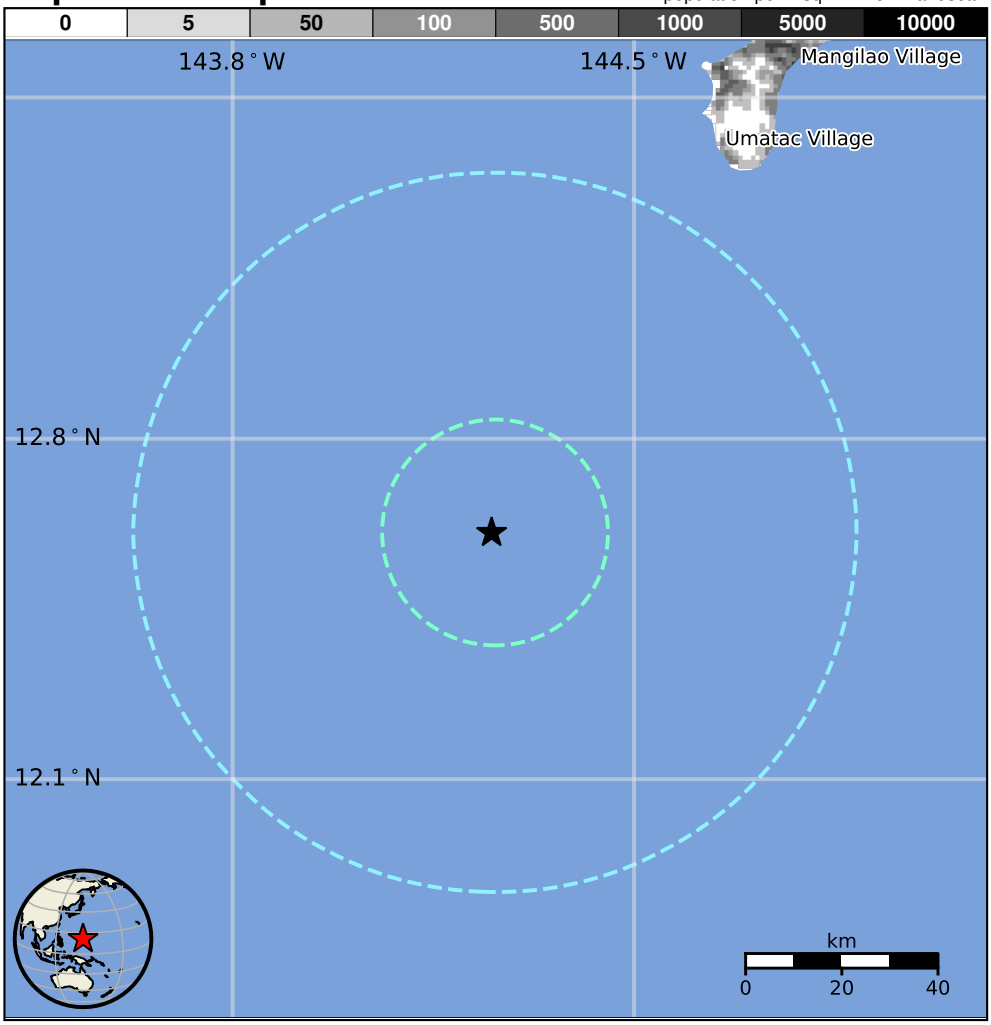

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | –* | 76k* | 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 informal (metal, timber, GI etc.) and heavy wood frame construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 2001-10-12 | 89 | 7.0 | VII(48k) | 0 |
| 2002-04-26 | 74 | 7.0 | VIII(2k) | 0 |
| 1993-08-08 | 83 | 7.7 | IX(3k) | 0 |

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

## Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|---|---|---|
| III | Merizo Village | 2k |
| **III** | **Umatac Village** | **1k** |
| III | Inarajan Village | 3k |
| III | Chalan Pago-Ordot Village | 7k |
| III | Talofofo Village | 3k |
| III | Agat Village | 6k |
| **III** | **Mangilao Village** | **15k** |
| III | Barrigada Village | 9k |
| III | Santa Rita Village | 8k |
| III | Yona Village | 6k |
| III | Mongmong-Toto-Maite Village | 7k |

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/us70009q8z#pager**

**Event ID: us70009q8z**