

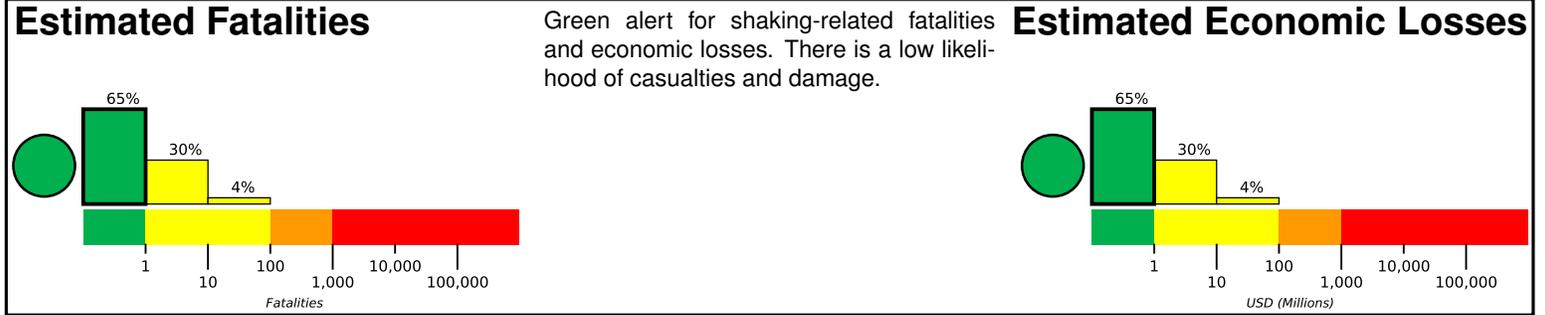
M 6.1, 111km SW of Porgera, Papua New Guinea

Origin Time: 2018-02-28 02:45:45 UTC (Wed 12:45:45 local)

Location: 6.1696° S 142.4681° E Depth: 16.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 5 weeks, 5 days after earthquake

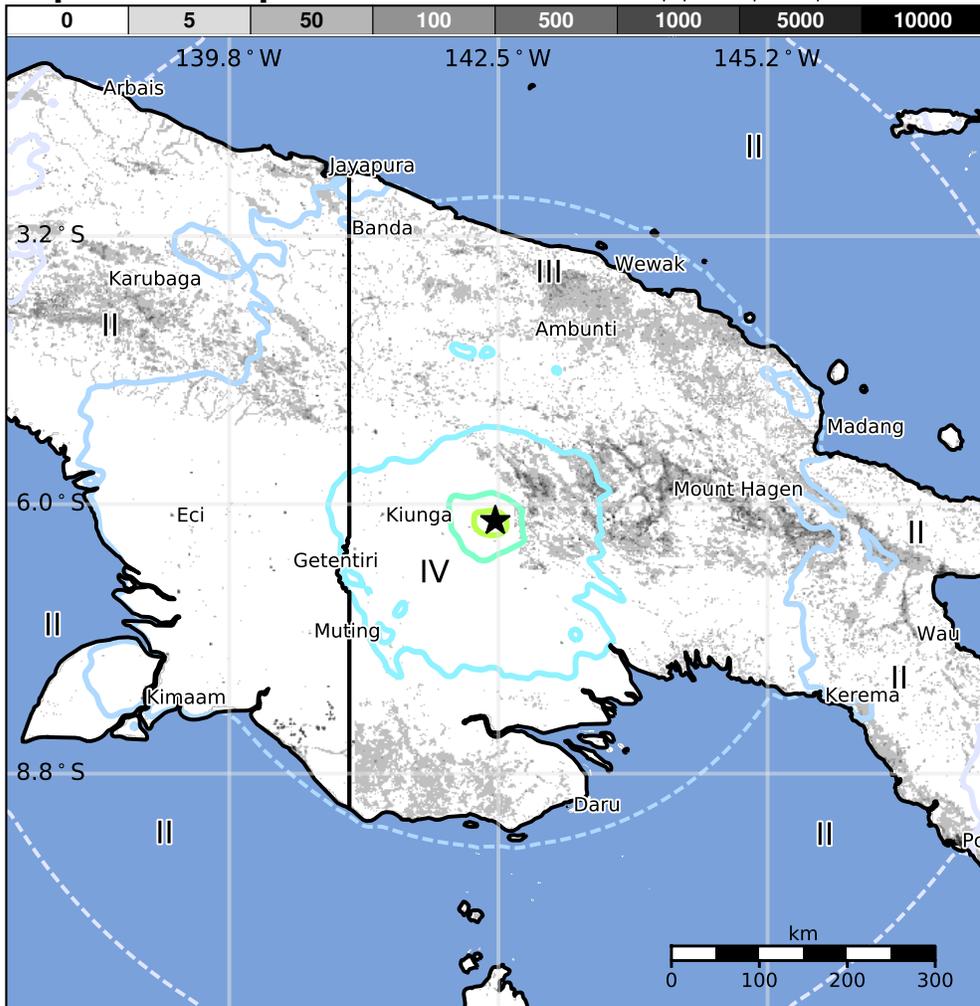


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|--------|-------|----------|----------|-------------|------------|------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | 72k* | 6,808k | 711k | 12k | 1k | 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



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 unreinforced brick masonry construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2002-01-10 | 323 | 6.7 | IX(3k) | 1 |
| 2002-09-08 | 327 | 7.6 | IX(17k) | 4 |
| 1981-01-19 | 397 | 6.6 | IX(1k) | 1k |

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 | Tari | 8k |
| IV | Kiunga | 12k |
| IV | Porgera | 2k |
| III | Ialibu | 7k |
| III | Mindiptana | <1k |
| III | Mendi | 26k |
| III | Mount Hagen | 34k |
| III | Madang | 27k |
| II | Jayapura | 135k |
| II | Lae | 76k |
| II | Port Moresby | 284k |

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/us2000d90d#pager>

bold cities appear on map.

(k=x1000)

Event ID: us2000d90d