

M 7.5, 89km SSW of Porgera, Papua New Guinea

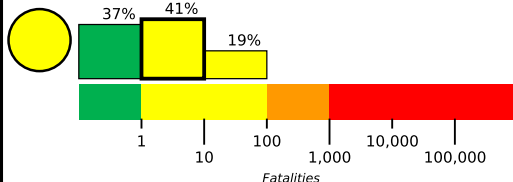
Origin Time: 2018-02-25 17:44:44 UTC (Mon 03:44:44 local)

Location: 6.1488° S 142.7663° E Depth: 35.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 2 hours, 4 minutes after earthquake

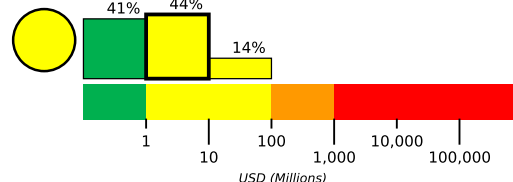
Estimated Fatalities



Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Papua New Guinea.

Estimated Economic Losses

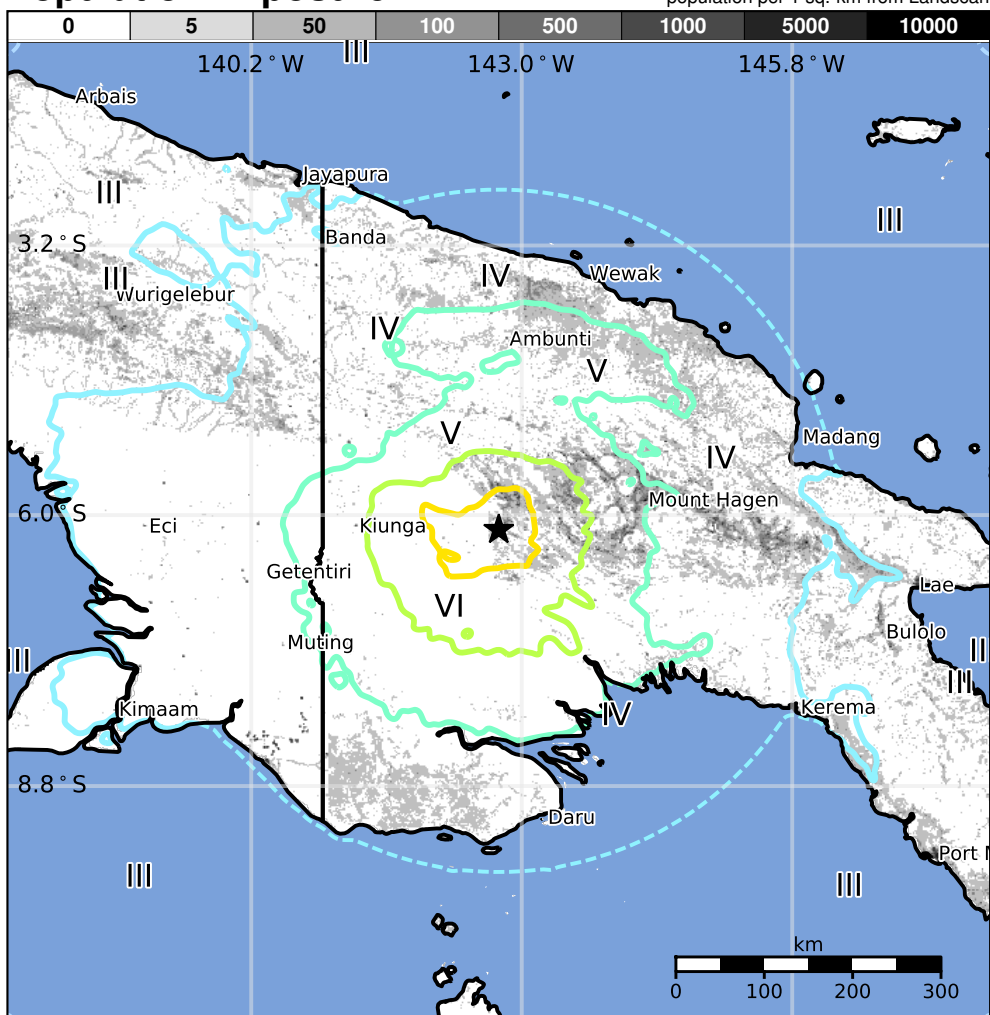


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 2,196k* | 3,341k | 1,330k | 482k | 279k | 1k | 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 |
|------------|------------|------|------------|----------------|
| 1993-10-16 | 389 | 6.3 | VII(75k) | 3 |
| 2002-09-08 | 321 | 7.6 | IX(17k) | 4 |
| 1976-06-25 | 345 | 7.1 | IX(18k) | 422 |

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

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|--------------|------------|
| VII | Tari | 8k |
| VI | Porgera | 2k |
| V | Ialibu | 7k |
| V | Kiunga | 12k |
| V | Mendi | 26k |
| V | Wabag | 4k |
| V | Mount Hagen | 34k |
| IV | Madang | 27k |
| IV | Lae | 76k |
| III | Jayapura | 135k |
| III | 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/us2000d7q6#pager>

bold cities appear on map.

(k = x1000)

Event ID: us2000d7q6