

M 5.5, EASTERN NEW GUINEA REG, PAPUA NEW GUINEA

Origin Time: Fri 2015-09-11 21:19:18 UTC (07:19:18 local)

Location: 5.98°S 146.66°E Depth: 26 km



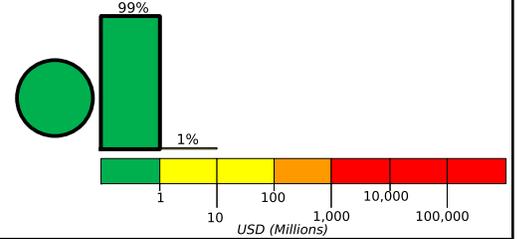
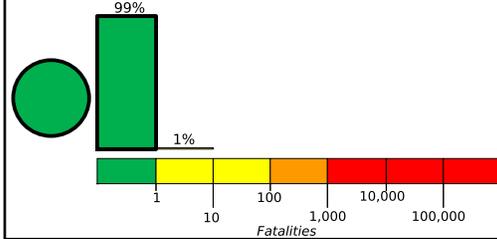
PAGER
Version 4

Created: 2 weeks, 6 days 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

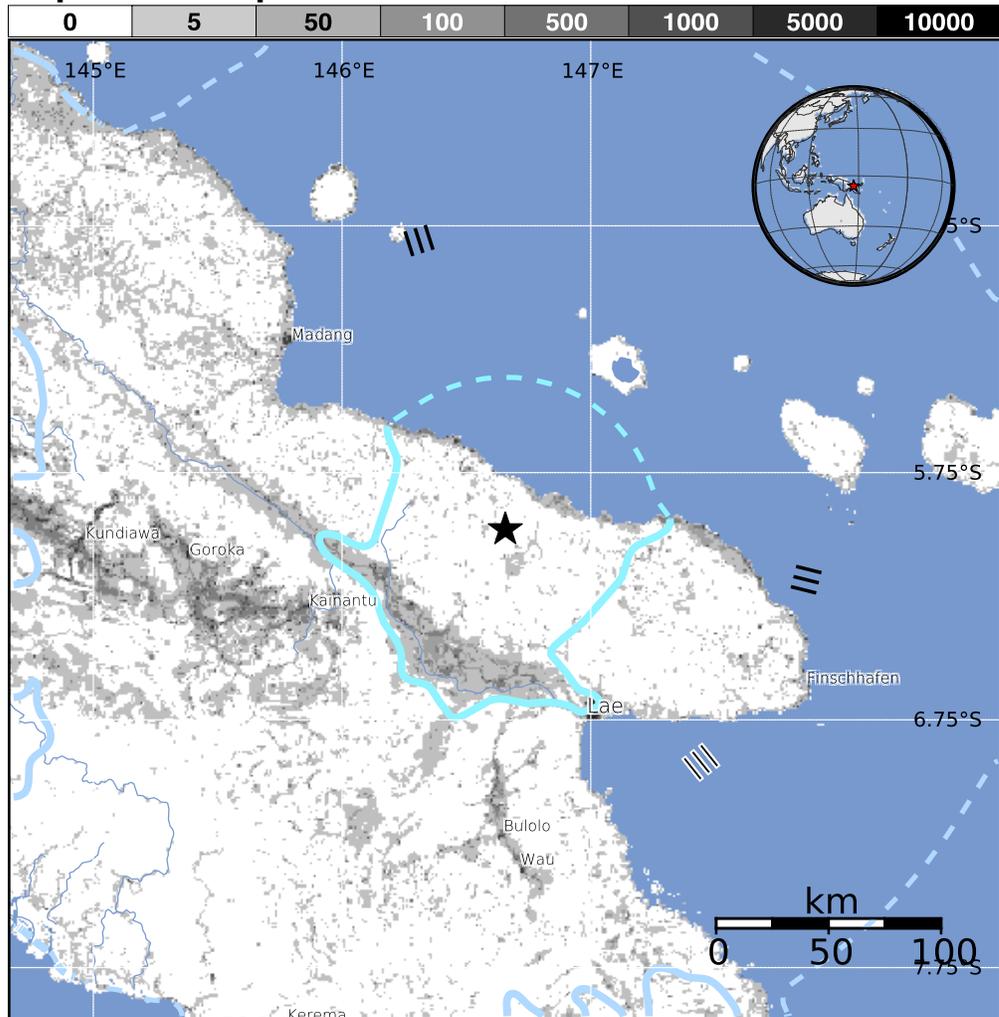


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|---------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | - -* | 1,674k* | 398k | 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 | Moderate/Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | none | none | none | Light | Moderate | Moderate/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 vulnerable to earthquake shaking, though some resistant structures exist.

Historical Earthquakes (with MMI levels):

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1983-12-15 | 340 | 6.3 | V(1k) | 0 |
| 2005-06-04 | 47 | 6.1 | VII(27k) | 1 |
| 1993-10-16 | 43 | 6.3 | VII(75k) | 3 |

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 |
|-----|--------------------|------------|
| IV | Lae | 76k |
| IV | Kainantu | 9k |
| III | Madang | 27k |
| III | Goroka | 19k |
| III | Bulolo | 16k |
| III | Wau | 15k |
| III | Finschhafen | 1k |
| III | Kundiawa | 9k |
| III | Kerema | 6k |

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.

<http://earthquake.usgs.gov/pager>