

M 6.3, 172 km N of Tobelo, Indonesia

Origin Time: 2023-02-23 20:02:49 UTC (Fri 05:02:49 local)
Location: 3.2863° N 128.1395° E Depth: 110.0 km

PAGER Version 5

Created: 3 weeks, 3 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

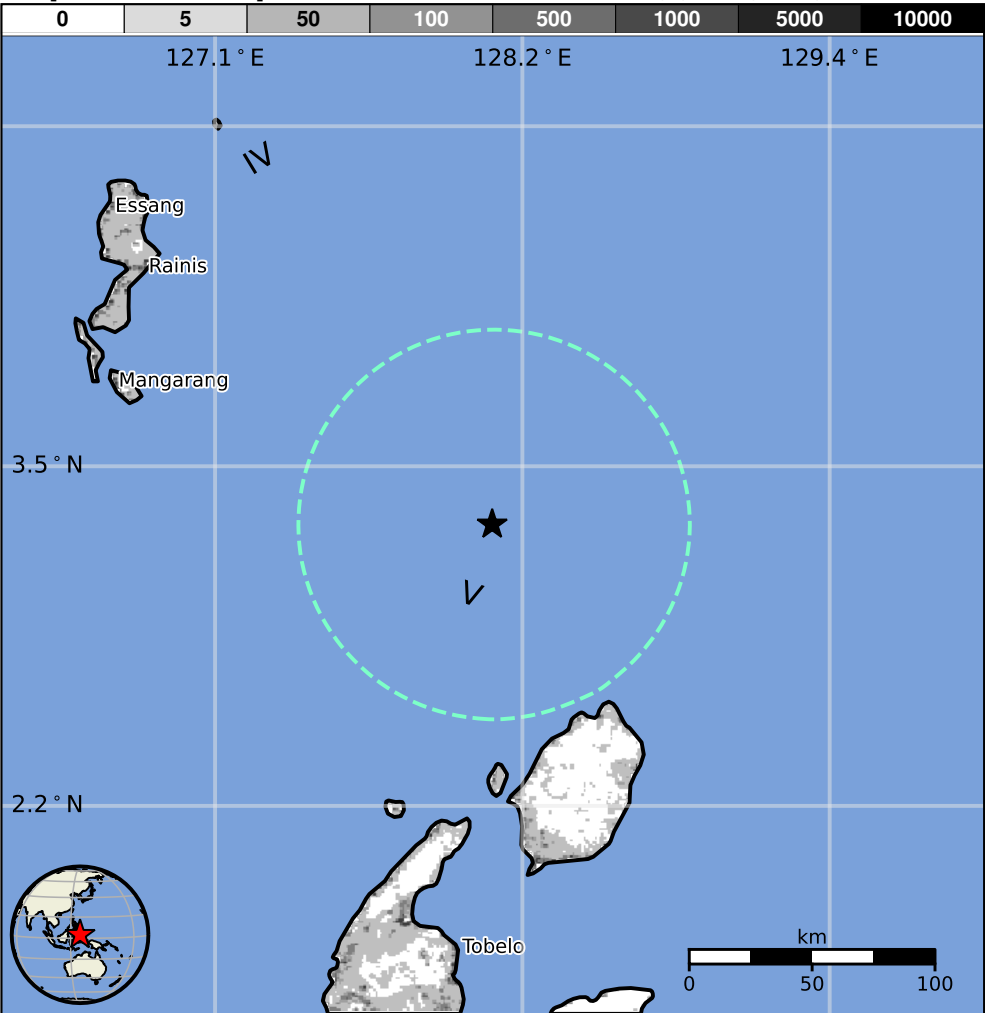


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | —* | 614k | 2k | 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



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are unreinforced brick with concrete floor and precast concrete frame with wall construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2007-01-21 | 313 | 7.5 | VI(283k) | 3 |
| 2003-05-26 | 132 | 6.9 | VIII(10k) | 1 |
| 1994-01-21 | 252 | 6.9 | IX(28k) | 7 |

Selected City Exposure

| MMI | City | Population |
|-----|--------------|------------|
| IV | Daruba | <1k |
| IV | Mangarang | <1k |
| IV | Tobelo | 10k |
| IV | Rainis | <1k |
| IV | Beo | <1k |
| IV | Lirung | <1k |
| IV | Essang | <1k |
| IV | Tongutisungi | <1k |