

M 6.0, NORTHERN SUMATRA, INDONESIA

Origin Time: Mon 2008-05-19 14:26:45 UTC

Location: 1.64°N 99.14°E Depth: 10 km

PAGER Version 2

Created: 4 hrs, 51 mins after earthquake

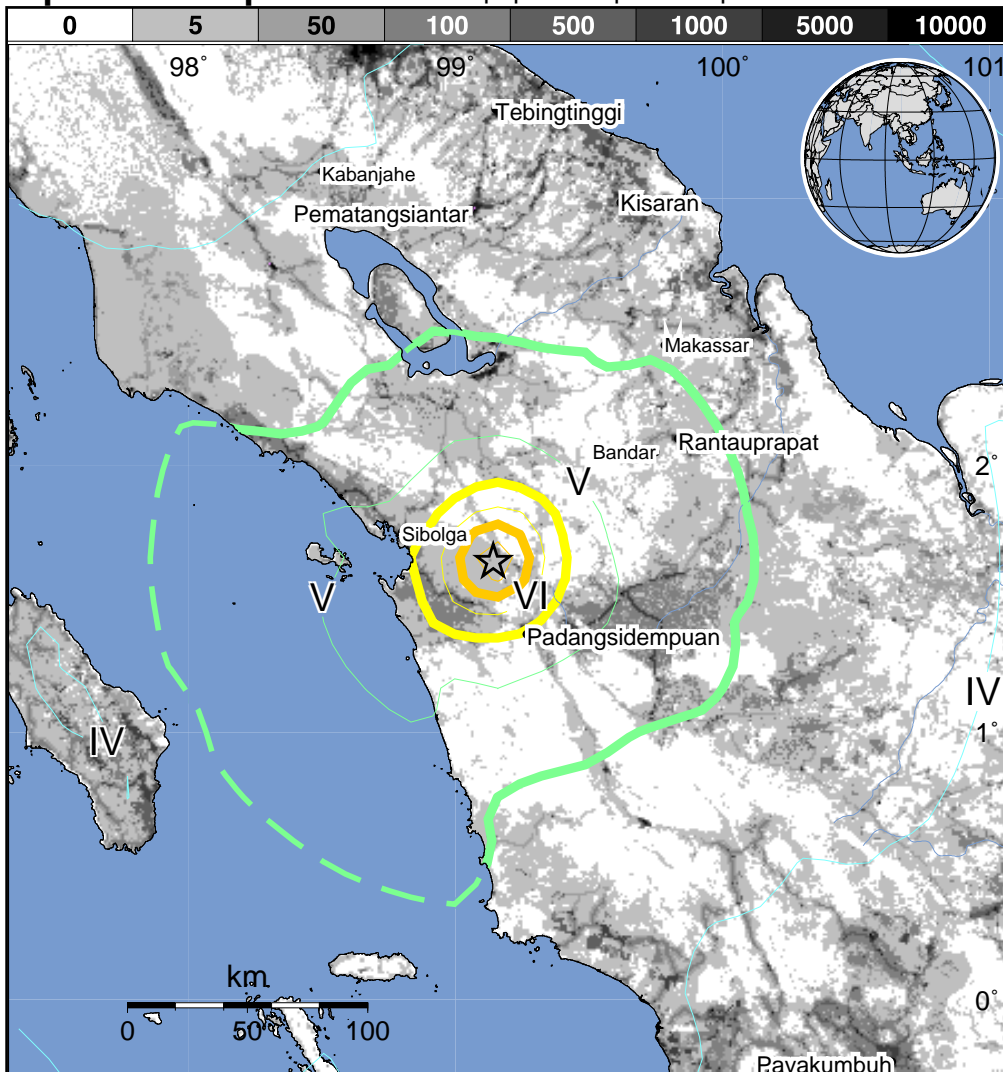
Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|---------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | --* | --* | 9,508k* | 2,408k | 228k | 14k | 4k | 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

population per ~1 sq. km from Landsat 2006

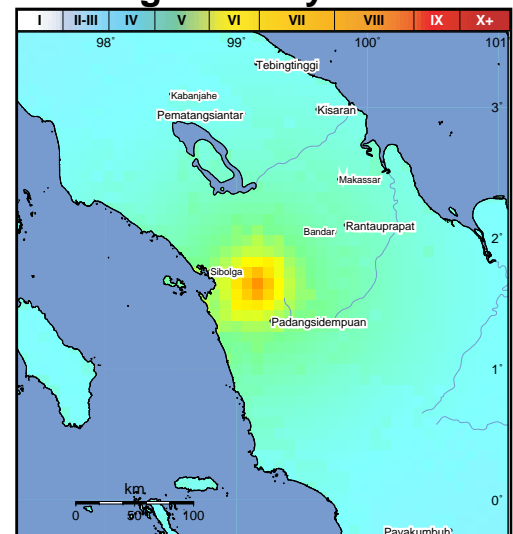


Selected City Exposure

| MMI City | Population |
|---------------------------|---------------|
| V Padangsidempuan | 100k |
| V Sibolga | 79k |
| V Bandar | 31k |
| V Rantauprapat | 103k |
| IV Makassar | 1k |
| IV Kisaran | 129k |
| IV Tanjungbalai | 142k |
| IV Pematangsiantar | 209k |
| IV Sunggal | 157k |
| IV Medan | 1,750k |
| IV Binjai | 228k |

bold cities appear on map (k = x1000)

Shaking Intensity



Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 5.8 earthquake 136 km Northeast of this one struck Indonesia on December 17, 2006 (UTC), with estimated population exposures of 70,000 at intensity VII and 330,000 at intensity VI, resulting in an estimated 7 fatalities. On March 28, 2005 (UTC), a magnitude 8.6 earthquake and tsunami 236 km Northeast of this one struck Indonesia, with estimated population exposures of 15,000 at intensity IX or greater and 521,000 at intensity VIII, resulting in an estimated 1,303 fatalities. Recent earthquakes in this area have caused landslides that may have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.