

# M 5.6, NEAR NORTH COAST OF NEW GUINEA, P.N.G.

# PAGER

Origin Time: Mon 2009-08-10 17:46:27 UTC

# Version 2

Location: 3.13°S 143.18°E Depth: 35 km

Created: 1 days, 21 hrs after earthquake

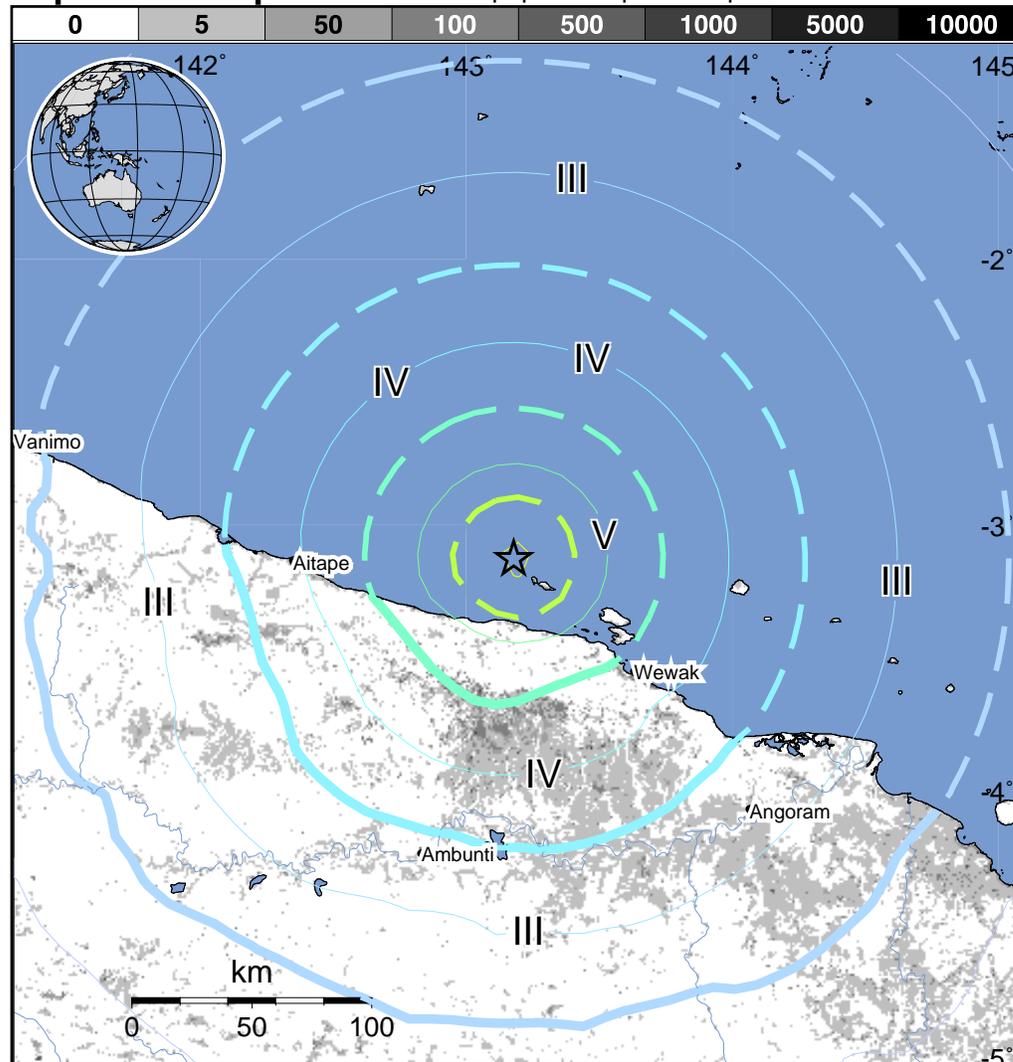
## Estimated Population Exposed to Earthquake Shaking

|   |                       |          |        |       |          |          |                |                |          |          |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) |                       | --*      | 370k*  | 243k  | 38k      | 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       | 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

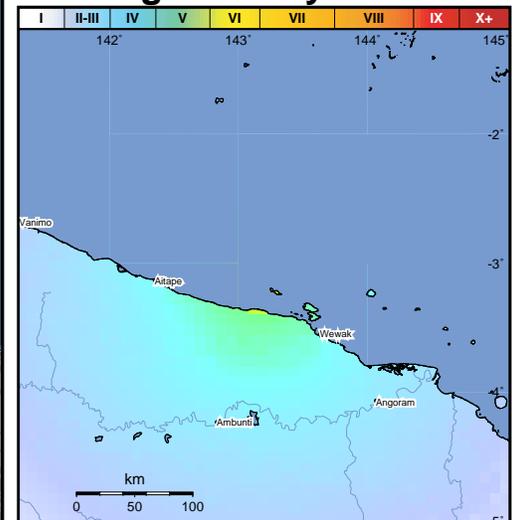


### Selected City Exposure

| MMI City         | Population |
|------------------|------------|
| <b>IV Wewak</b>  | <b>18k</b> |
| <b>IV Aitape</b> | <b>5k</b>  |
| III Ambunti      | 2k         |
| III Angoram      | 1k         |
| II Vanimo        | 11k        |

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 6.1 earthquake occurred in the Papua New Guinea region 324 km south of the location of this earthquake on August 20, 1993 (UTC), with estimated population exposures of 13,000 at intensity VIII and 16,000 at intensity VII, with no reported fatalities. On July 17, 1998 (UTC), a magnitude 7.0 earthquake and tsunami occurred in the Papua New Guinea region 57 km west of the location of this earthquake, with estimated population exposures of 11,000 at intensity VIII and 37,000 at intensity VII, resulting in an estimated 2,700 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.