

**M 5.7, NEAR THE COAST OF SOUTHERN PERU**

Origin Time: Tue 2016-02-16 10:46:27 UTC (10:46:27 local)

Location: 16.43°S 73.54°W Depth: 13 km

Created: 5 weeks, 2 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**

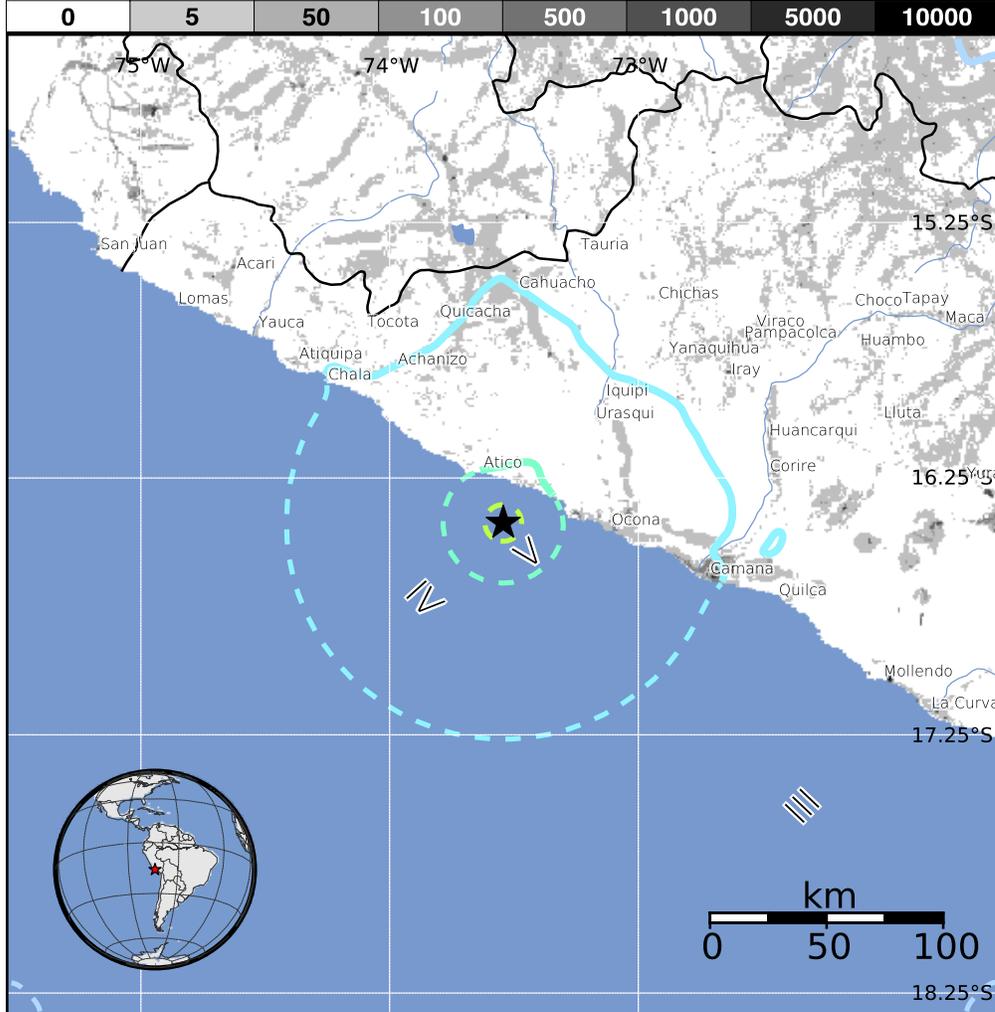


**Estimated Population Exposed to Earthquake Shaking**

|   |                       |          |        |       |          |          |                |                |          |          |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) |                       | --*      | 519k*  | 67k   | 1k       | 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 |
|------------|------------|------|------------|----------------|
| 1988-07-04 | 238        | 5.8  | V(61k)     | 0              |
| 1986-04-05 | 387        | 5.2  | V(403k)    | 16             |
| 2001-06-23 | 7          | 8.4  | VIII(179k) | 48             |

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

**Selected City Exposure**

from GeoNames.org

| MMI City             | Population |
|----------------------|------------|
| IV Atico             | < 1k       |
| IV Ocona             | < 1k       |
| IV El Cardo          | < 1k       |
| IV Camana            | 16k        |
| IV Urasqui           | < 1k       |
| IV La Pampa          | < 1k       |
| III Mollendo         | 29k        |
| III Cocachacra       | 9k         |
| III Minas de Marcona | 15k        |
| III Nazca            | 24k        |
| III Puquio           | 10k        |

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/earthquakes/eventpage/us200050iw>

Event ID: us200050iw