

M 6.9, OFFSHORE TARAPACA, CHILE

Origin Time: Tue 2014-04-01 23:57:58 UTC (18:57:58 local)

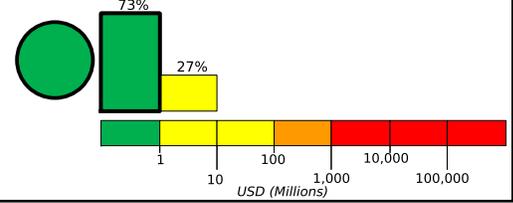
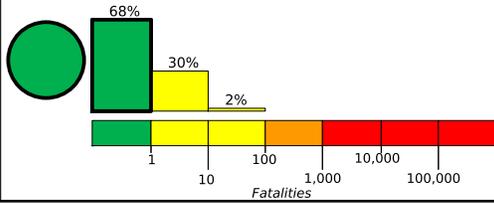
Location: 19.89°S 70.95°W Depth: 28 km

Created: 6 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

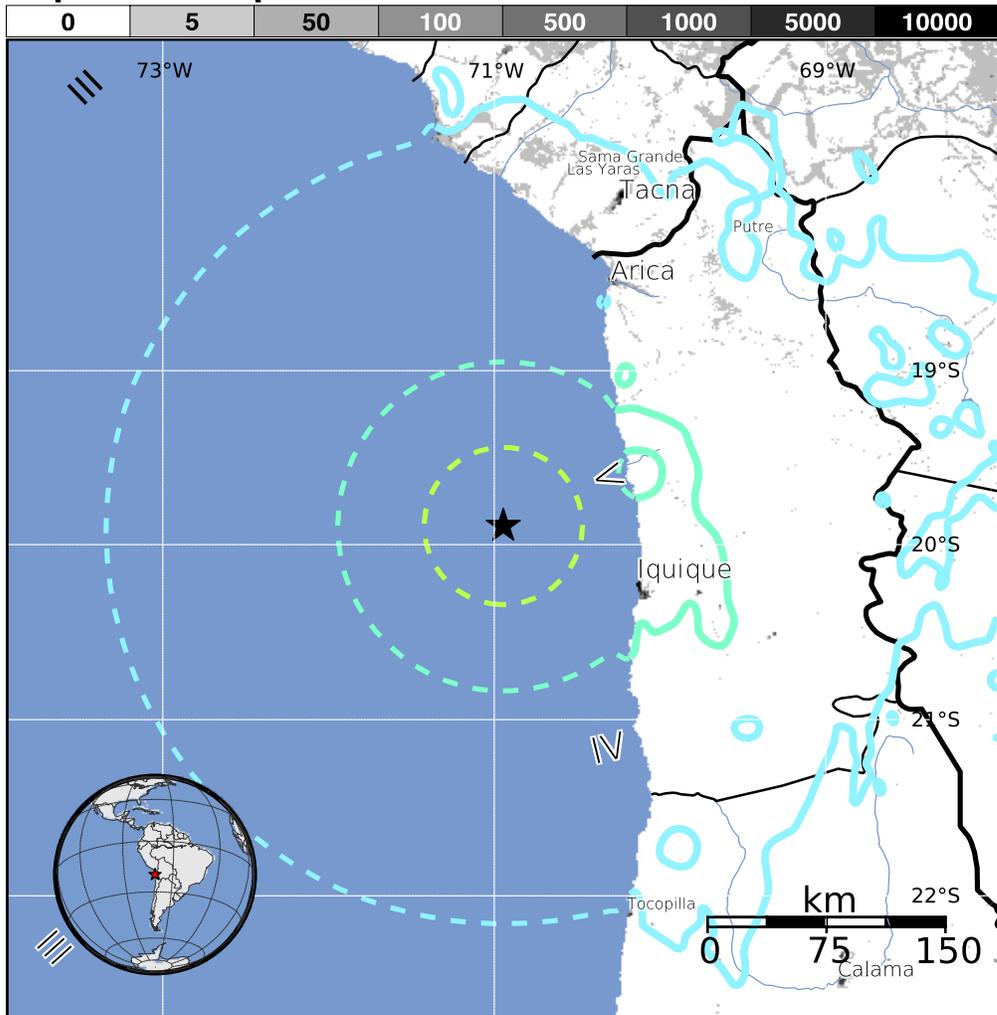


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k = x1000) | - -* | 357k* | 664k | 261k | 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 |
| | Vulnerable Structures | none | none | none | Light | Moderate | Moderate/Heavy | 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 resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1973-08-05 | 378 | 5.5 | VI(2k) | 0 |
| 1987-08-08 | 46 | 7.2 | VIII(112) | 5 |
| 1981-06-21 | 95 | 5.7 | VII(6k) | 10 |

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 |
|---------------|------------|
| V Iquique | 227k |
| IV Arica | 186k |
| IV Las Yaras | < 1k |
| IV Tacna | 280k |
| IV Pocollay | < 1k |
| IV Ilo | 53k |
| III Ilabaya | 9k |
| III Calama | 143k |
| III Tocopilla | 24k |
| III Moquegua | 55k |

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>

Event ID: usc000nzwm