

M 5.8, TARAPACA, CHILE

Origin Time: Wed 2008-09-10 16:12:04 UTC

Location: 20.26°S 69.15°W Depth: 38 km

PAGER Version 1

Created: 19 mins, 38 secs after earthquake

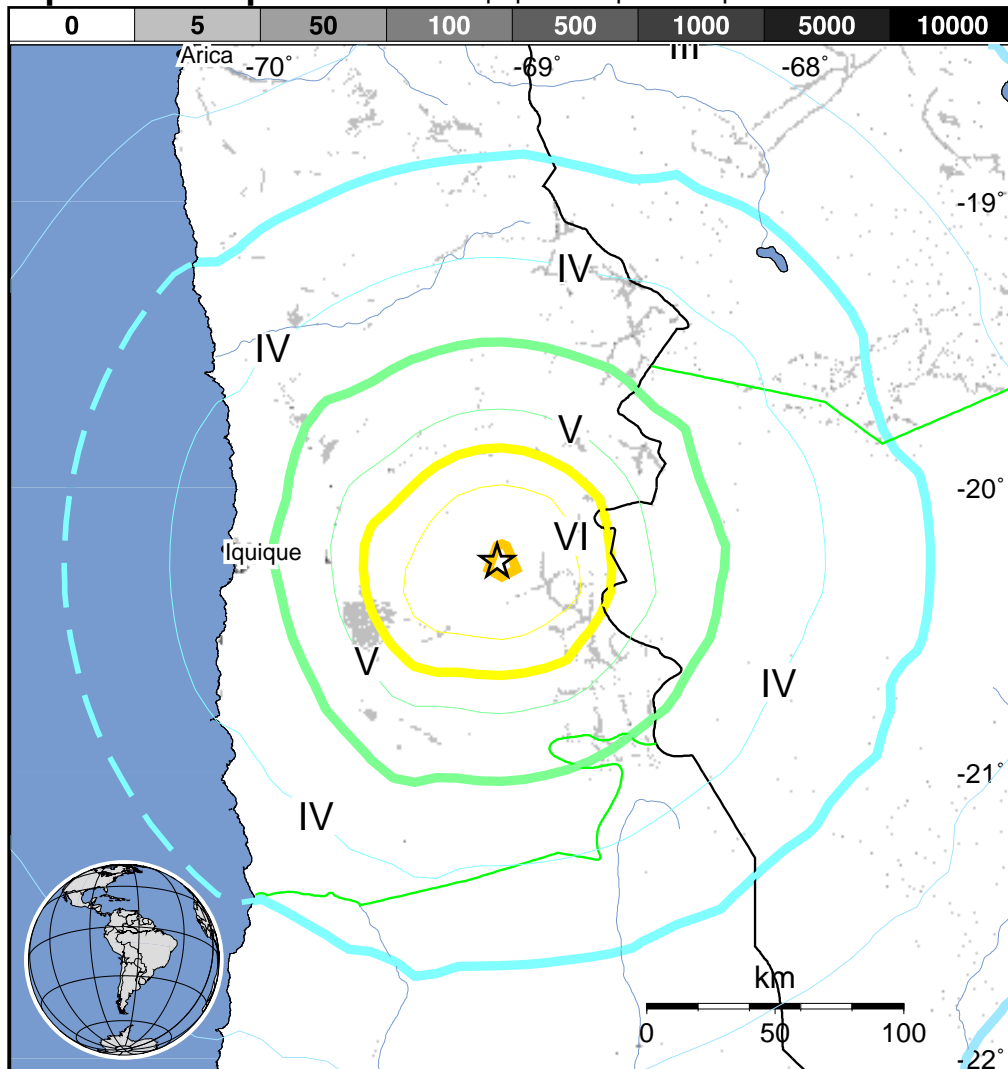
Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | --* | 233k* | 253k | 16k | 4k | 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 Landscan 2006

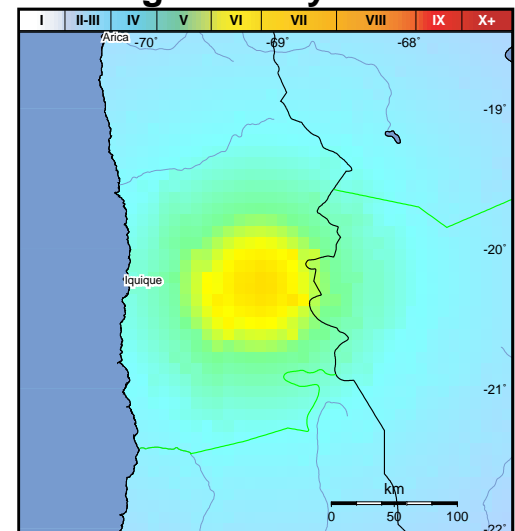


Selected City Exposure

| MMI City | Population |
|----------------------|-------------|
| IV Iquique | 227k |
| III Tocopilla | 24k |
| III Arica | 185k |

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 5.7 earthquake 129 km Northeast of this one struck Chile on June 21, 1981 (UTC), with estimated population exposures of 5,000 at intensity VII and 166,000 at intensity VI, resulting in an estimated 10 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.

<http://earthquake.usgs.gov/pager>

Event ID: us2008wub1