

M 5.4, OFFSHORE COQUIMBO, CHILE

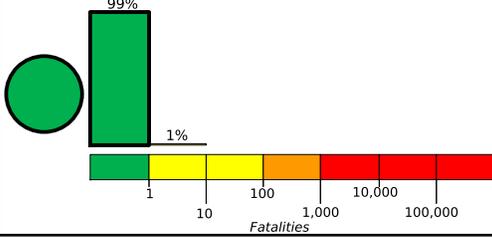
Origin Time: Mon 2016-06-06 13:21:58 UTC (13:21:58 local)

Location: 30.07°S 71.53°W Depth: 27 km

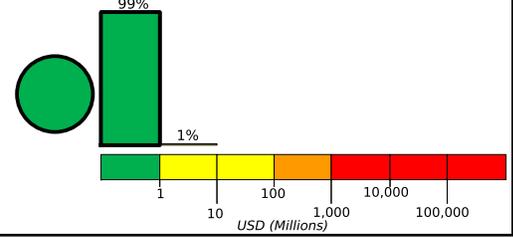
Created: 3 weeks, 6 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

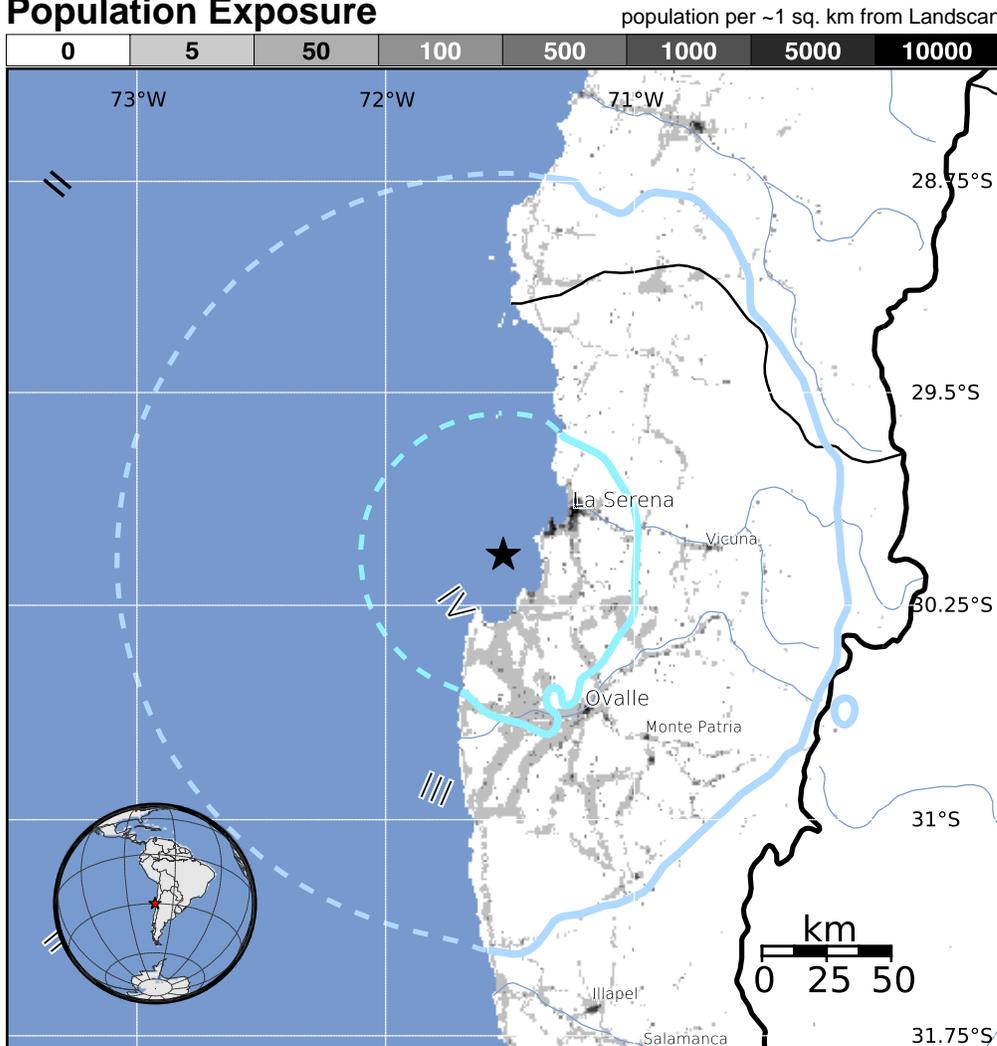


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k = x1000) | - -* | 309k | 487k | 0 | 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 |
|------------|------------|------|-------------|----------------|
| 1986-12-19 | 337 | 5.0 | V(236k) | 0 |
| 1997-10-15 | 101 | 7.1 | VIII(3k) | 7 |
| 1985-03-03 | 342 | 7.9 | VII(7,023k) | 177 |

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

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|--------------|------------|
| IV | Coquimbo | 161k |
| IV | La Serena | 155k |
| IV | Ovalle | 77k |
| III | Vicuna | 13k |
| III | Monte Patria | 14k |
| II | Vallenar | 45k |
| II | Illapel | 23k |
| II | Salamanca | 13k |

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/us200062by>

Event ID: us200062by