

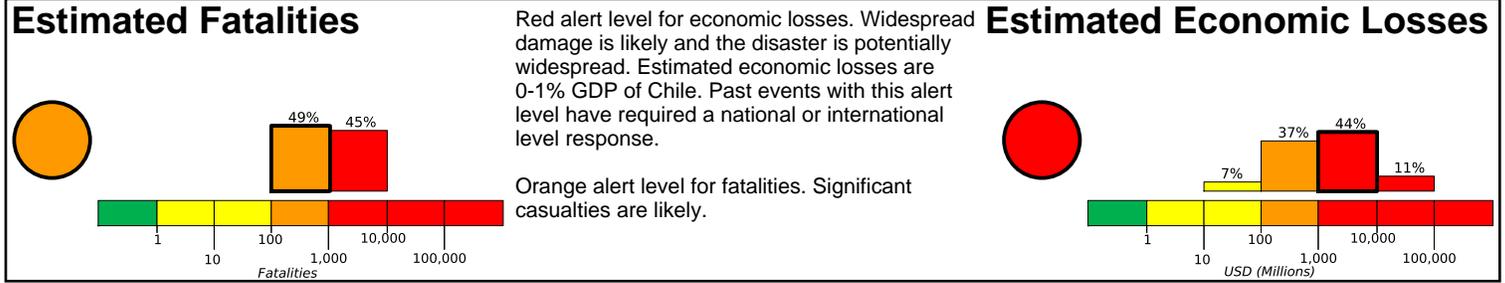
M 8.8, OFFSHORE MAULE, CHILE

Origin Time: Sat 2010-02-27 06:34:14 UTC (02:34:14 local)

Location: 35.85°S 72.72°W Depth: 35 km

PAGER
Version 3

Created: 3 hours, 10 minutes after earthquake

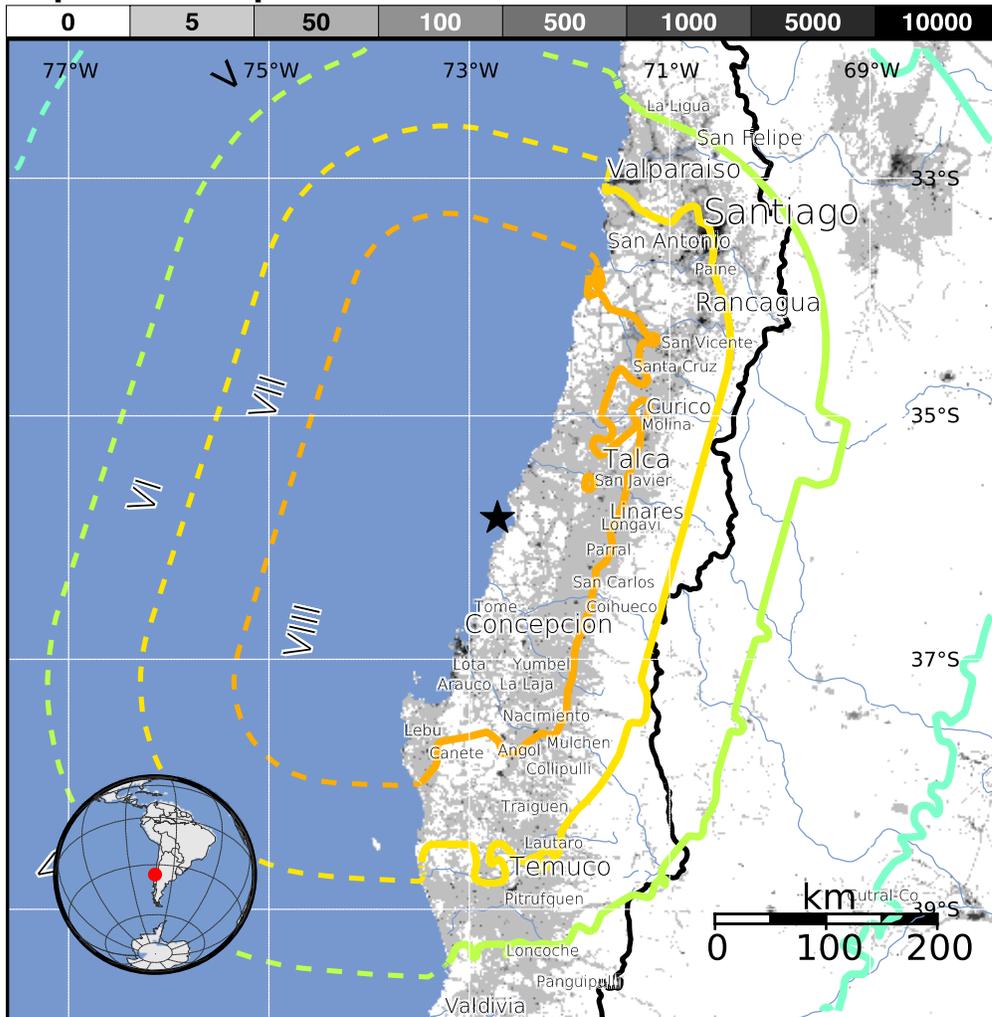


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | --* | --* | 479k* | 2,112k* | 3,589k | 6,284k | 3,028k | 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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are low-rise reinforced/confined masonry and adobe block construction.

Historical Earthquakes (with MMI levels):

| Date | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|-------------|----------------|
| 1975-05-10 | 264 | 7.8 | VIII(69k) | 0 |
| 1985-03-03 | 363 | 7.0 | IX(185k) | 0 |
| 1985-03-03 | 314 | 7.9 | VII(5,449k) | 177 |

Recent earthquakes in this area have caused tsunamis, landslides and liquefaction that may have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI City | Population |
|-------------------|------------|
| VIII Arauco | 25k |
| VIII Lota | 50k |
| VIII Concepcion | 215k |
| VIII Constitucion | 38k |
| VII Bulnes | 13k |
| VII Cabrero | 18k |
| VII Talca | 197k |
| VII Rancagua | 213k |
| VI Santiago | 4,837k |
| VI Temuco | 238k |
| VI Valparaiso | 282k |

bold cities appear on map

(k = x1000)

This information was automatically generated.

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

Event ID: us2010tfan