

**M 8.3, OFFSHORE COQUIMBO, CHILE**

Origin Time: Wed 2015-09-16 22:54:32 UTC (19:54:32 local)

Location: 31.56°S 71.74°W Depth: 25 km

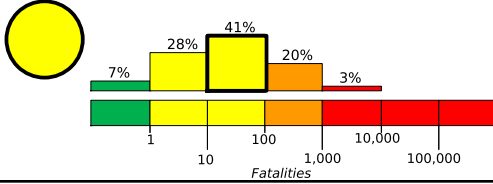
**FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](http://tsunami.gov)**

Created: 52 minutes, 5 seconds after earthquake

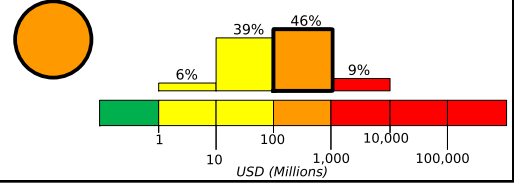
**Estimated Fatalities**

Orange alert level for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are less than 1% of GDP of Chile. Past events with this alert level have required a regional or national level response.

Yellow alert level for shaking-related fatalities. Some casualties are possible.



**Estimated Economic Losses**

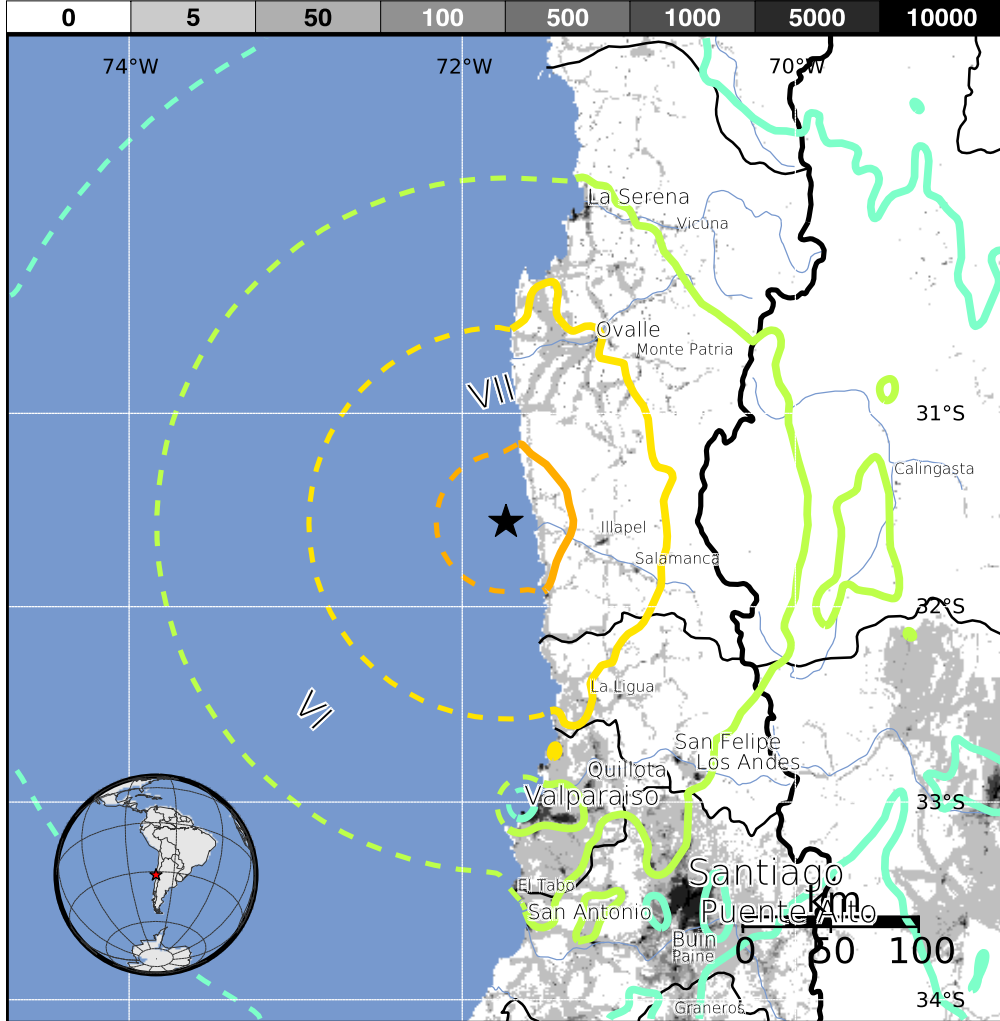


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	--*	1,720k*	7,034k*	1,771k	391k	23k	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 resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are low-rise reinforced/confined masonry and adobe block construction.

**Historical Earthquakes (with MMI levels):**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1973-10-05	168	6.7	VIII(2k)	0
1997-10-15	90	7.1	VIII(3k)	7
1985-03-03	174	7.9	VII(7,023k)	177

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

**Selected City Exposure**

from GeoNames.org

MMI City	Population
<b>VII Illapel</b>	23k
<b>VII Salamanca</b>	13k
<b>VII Ovalle</b>	77k
<b>VII La Ligua</b>	25k
<b>VII Quillota</b>	68k
<b>VII Monte Patria</b>	14k
<b>VI La Serena</b>	155k
<b>V Santiago</b>	4,837k
<b>V Puente Alto</b>	510k
<b>IV Valparaiso</b>	282k
<b>IV Mendoza</b>	877k

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: us20003k7a