





ANSSIMM

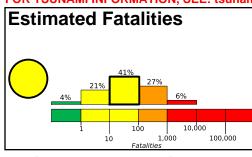
**PAGER** Version 6

Created: 2 hours, 56 minutes after earthquake

# M 8.3, OFFSHORE COQUIMBO, CHILE Origin Time: Wed 2015-09-16 22:54:33 UTC (19:54:33 local)

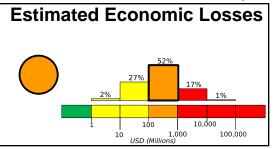
Location: 31.57°S 71.65°W Depth: 25 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov



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.

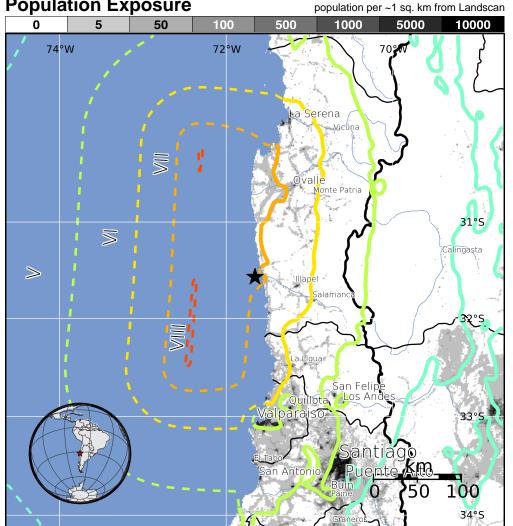


**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k = x1000)		*	*	1,040k*	6,698k*	2,406k*	836k	42k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY			<u></u>	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	D SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
DAMAGE	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



## 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.

#### 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	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	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**

MMI	City	Population
VII	Ovalle	77k
VII	La Serena	155k
VII	Coquimbo	161k
VII	Monte Patria	14k
VII	Illapel	23k
VII	Salamanca	13k
V	Santiago	4,837k
V	Valparaiso	282k
V	Vina del Mar	295k
٧	Puente Alto	510k
IV	Mendoza	877k

bold cities appear on map

(k = x1000)

Event ID: us20003k7a