

M 6.9, 39km W of Valparaiso, Chile

Origin Time: 2017-04-24 21:38:26 UTC (Mon 16:38:26 local)

Location: 33.0729° S 72.0513° W Depth: 25.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

PAGER Version 2

Created: 1 hour, 19 minutes after earthquake

Estimated Fatalities

Estimated economic losses are less than 1% of GDP of Chile.

Estimated Economic Losses

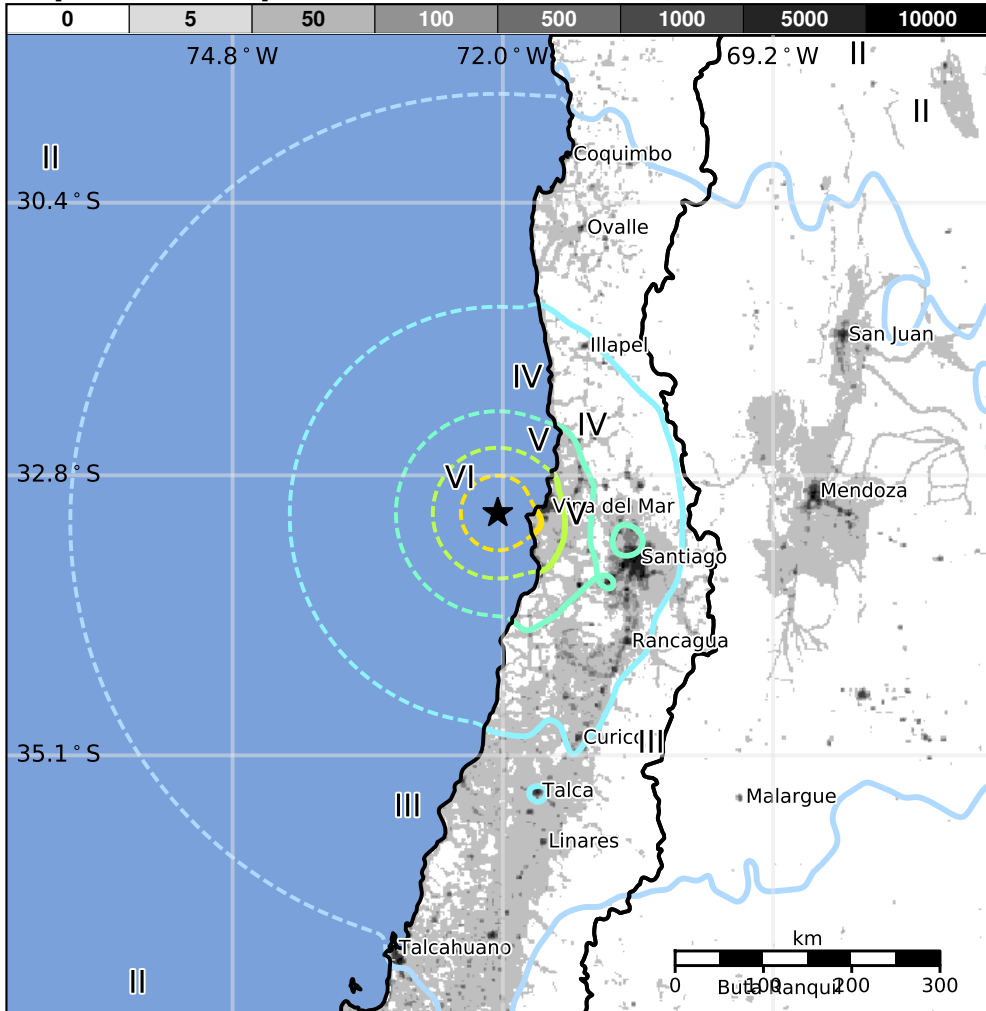
Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	5,701k	7,018k	2,290k	1,181k	28k	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./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 vulnerable structures exist. The predominant vulnerable building types are adobe block and concrete wall construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-01-26	322	5.9	VIII(38k)	6
1997-10-15	256	7.1	VIII(3k)	7
1985-03-03	28	7.9	VII(5,319k)	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
VI	Valparaiso	282k
VI	Vina del Mar	295k
VI	El Tabo	<1k
VI	Quilpue	130k
VI	Villa Alemana	97k
VI	Quillota	68k
IV	Santiago	4,837k
IV	Rancagua	213k
III	Mendoza	877k
III	San Juan	447k
III	Concepcion	215k

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.

<https://earthquake.usgs.gov/earthquakes/eventpage/us10008kce#pager>

Event ID: us10008kce