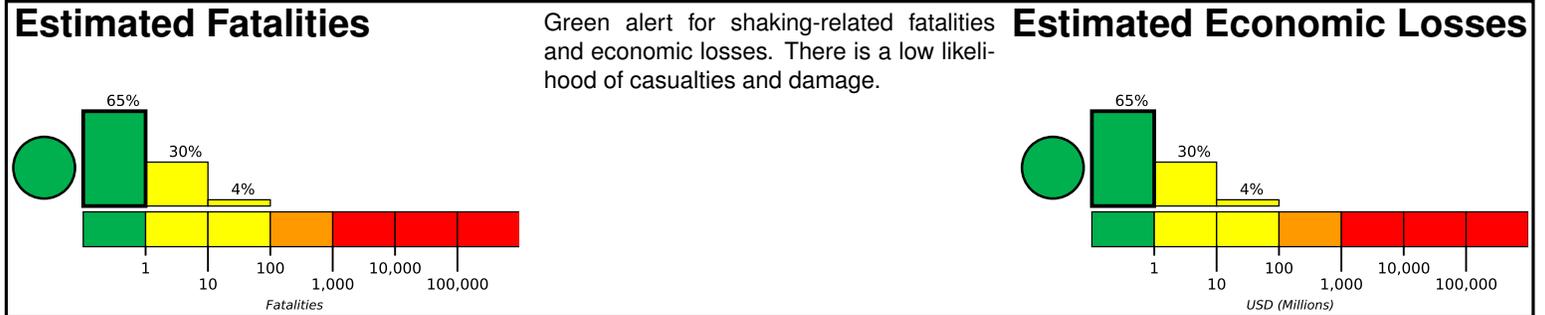


M 5.9, 41km SW of Valparaiso, Chile

Origin Time: 2017-04-28 15:30:05 UTC (Fri 10:30:05 local)
Location: 33.2469° S 71.9968° W Depth: 20.4 km

PAGER
Version 2

Created: 2 hours, 2 minutes after earthquake

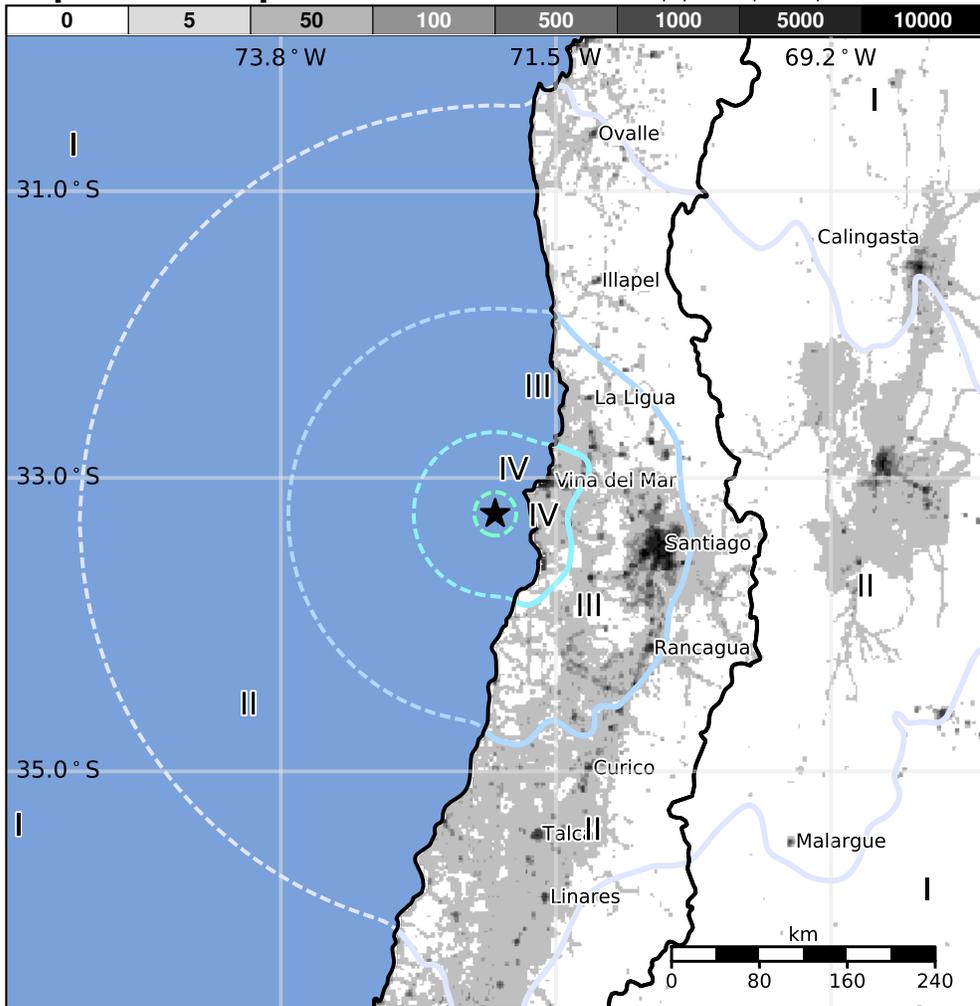


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	622k*	12,430k	1,335k	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	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
1975-03-13	375	6.9	VIII(266k)	2
1985-01-26	317	5.9	VIII(38k)	6
1985-03-03	25	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
IV	El Tabo	<1k
IV	Vina del Mar	295k
IV	Valparaiso	282k
IV	Quillota	68k
IV	Quilpue	130k
IV	Cartagena	17k
III	Santiago	4,837k
III	Rancagua	213k
II	Talca	197k
II	Mendoza	877k
II	San Juan	447k

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/us100081lg#pager>

bold cities appear on map.

(k = x1000)

Event ID: us100081lg