

M 4.0, 18 km S of Rancho Palos Verdes, CA

Origin Time: 2024-01-01 16:27:29 UTC (Mon 08:27:29 local)

Location: 33.4676° N 118.4194° W Depth: 10.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 36 weeks, 0 days after earthquake

PAGER Version 6

Estimated Fatalities

Fatalities: 1, 10, 100, 1,000, 10,000, 100,000

Estimated Economic Losses

USD (Millions): 1, 10, 100, 1,000, 10,000, 100,000

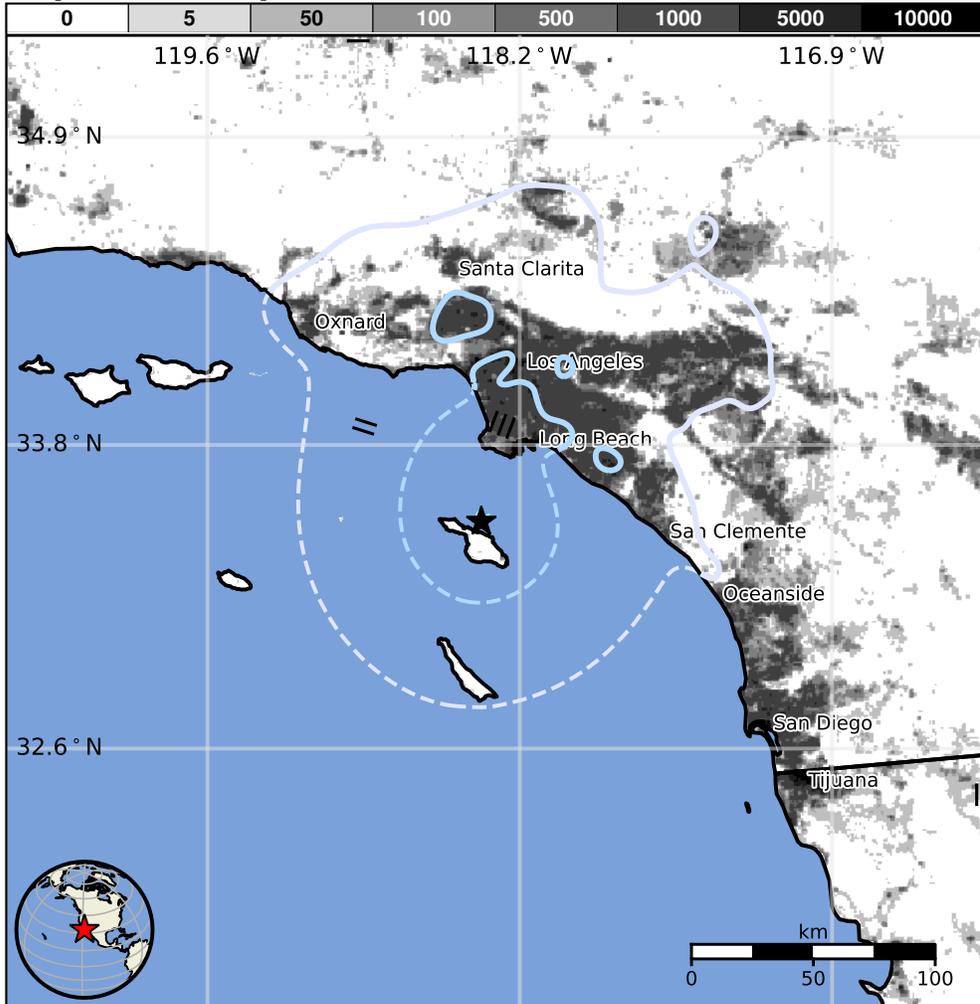
Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		8,333k*	17,660k	0	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 highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	93	5.6	VI(1,267k)	1
2003-12-22	340	6.6	VI(8k)	2
1971-02-09	103	6.6	IX(21k)	65

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
III	Rancho Palos Verdes	42k
III	San Pedro	78k
III	Palos Verdes Estates	13k
III	Redondo Beach	67k
III	Rolling Hills	2k
III	Hermosa Beach	20k
III	Long Beach	462k
II	Los Angeles	3,793k
II	Anaheim	336k
I	Tijuana	1,376k
I	San Diego	1,307k

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/ci40453591#pager>

bold cities appear on map.

(k = x1000)

Event ID: ci40453591