

# M 4.0, 8.8 km (5.5 mi) SW of Pt. Fermin San Pedro, CA

Origin Time: Wed 2013-05-15 20:00:06 UTC (13:00:06 local)

Location: 33.66°N 118.37°W Depth: 1 km

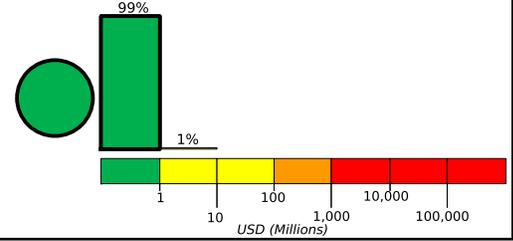
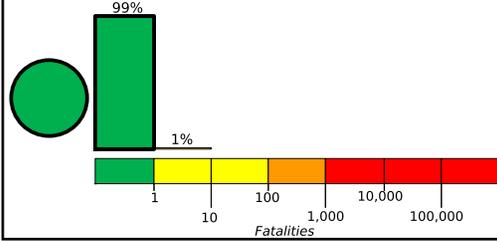
Created: 1 day, 3 hours after earthquake

## PAGER Version 10

### Estimated Fatalities

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

### Estimated Economic Losses

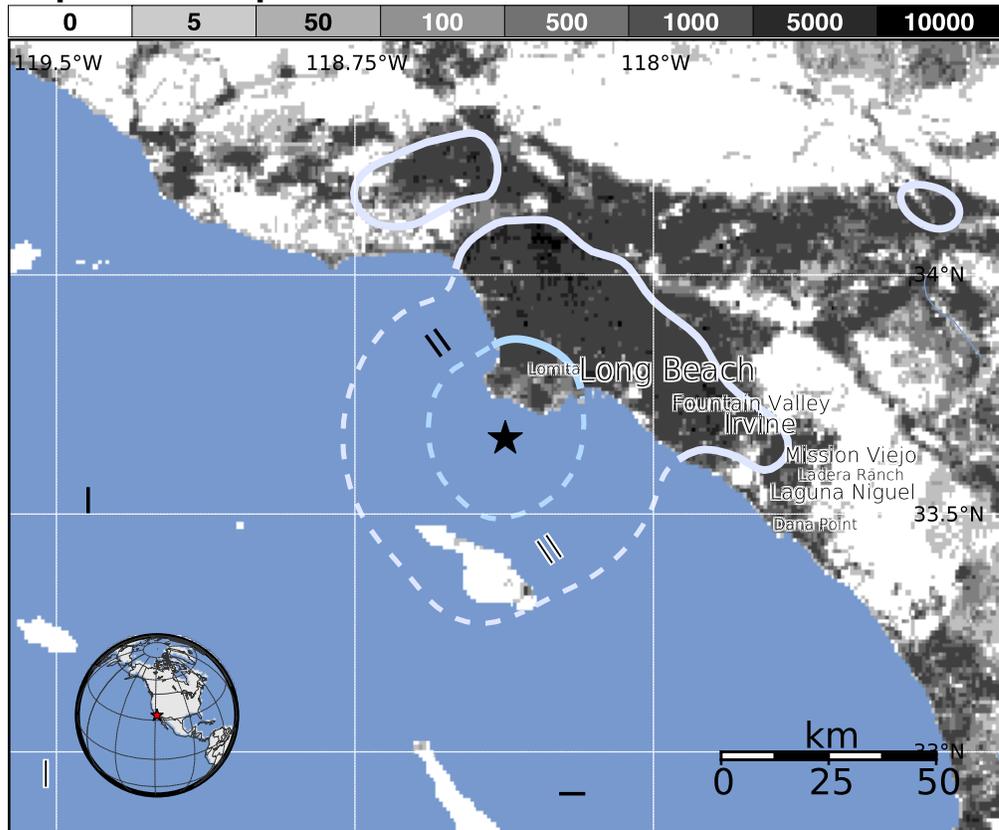


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		7,713k*	10,121k	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	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 highly resistant to earthquake shaking, though some vulnerable structures exist.

### Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1986-07-13	83	5.8	V(9,528k)	0
2003-12-22	329	6.6	VII(213)	2
1994-01-17	59	6.7	IX(181k)	33

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	San Pedro	78k
III	Rancho Palos Verdes	42k
III	Rolling Hills	2k
III	Lomita	20k
III	Long Beach	462k
II	Los Angeles	3,793k
II	Santa Ana	325k
II	Anaheim	336k
I	Riverside	304k

bold cities appear on map

(k = x1000)