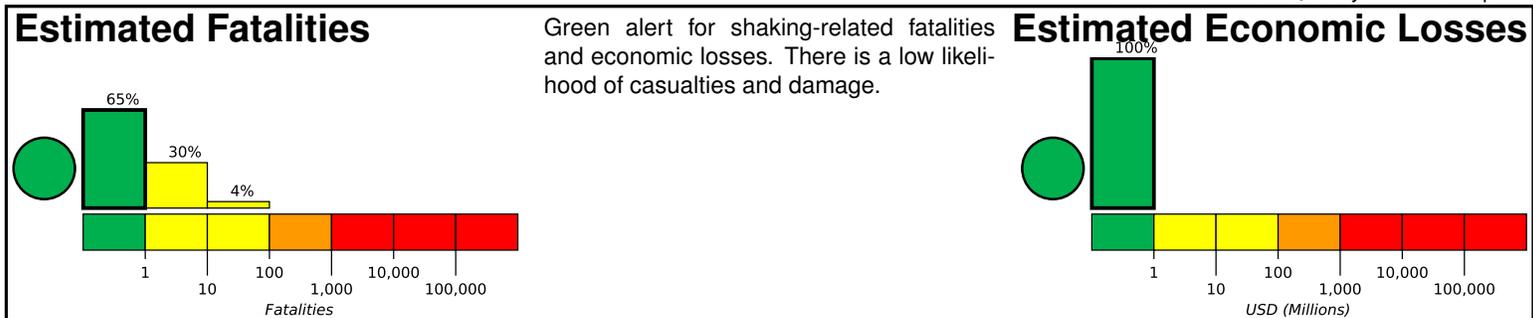


# M 5.1, Puerto Rico

Origin Time: 2010-12-24 23:43:44 UTC (Fri 19:43:44 local)  
Location: 18.2600° N 66.1350° W Depth: 102.9 km

Created: 359 weeks, 5 days after earthquake

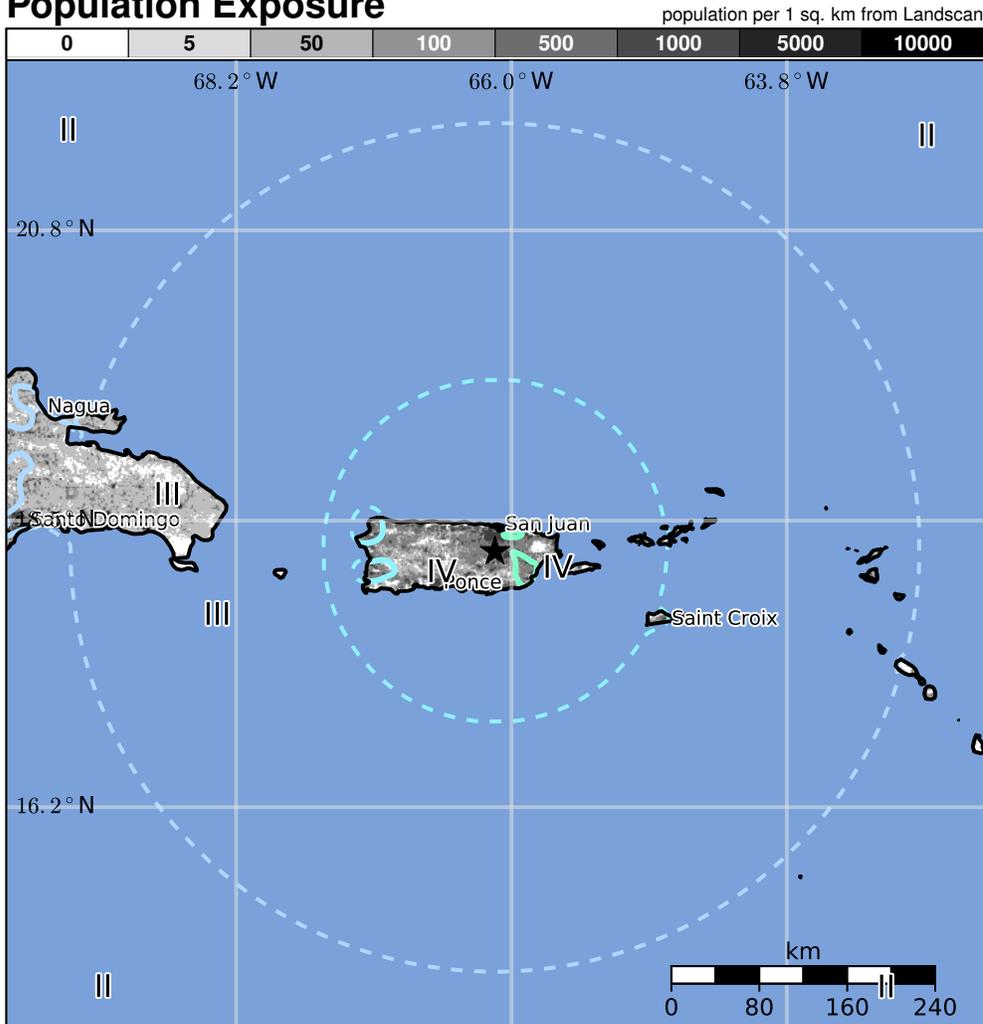


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	5,607k	2,694k	756k	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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-23	312	6.6	VI(605k)	0
1980-11-12	388	5.9	VII(87k)	—
1984-06-24	343	6.7	VII(326k)	5

### Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Yabucoa	7k
V	Maunabo	2k
V	Martorell	3k
V	Comunas	2k
V	Las Piedras	7k
V	San Lorenzo	9k
<b>IV</b>	<b>San Juan</b>	<b>418k</b>
III	La Romana	208k
III	San Pedro de Macoris	218k
III	Santo Domingo Este	700k
III	<b>Santo Domingo</b>	<b>2,202k</b>

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.

bold cities appear on map.

(k = x1000)