Earthquake Shaking **Green Alert**

M 4.5, 18km SSE of Guanica, Puerto Rico

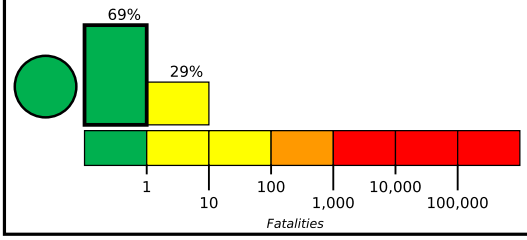
Origin Time: 2020-05-16 04:09:10 UTC (Sat 00:09:10 local)
Location: 17.8265° N 66.8256° W Depth: 10.0 km

PAGER Version 7

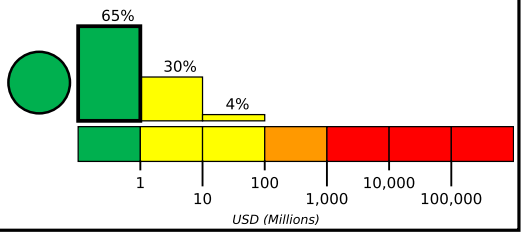
Created: 3 days, 19 hours after earthquake

Estimated Fatalities

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



Estimated Economic Losses



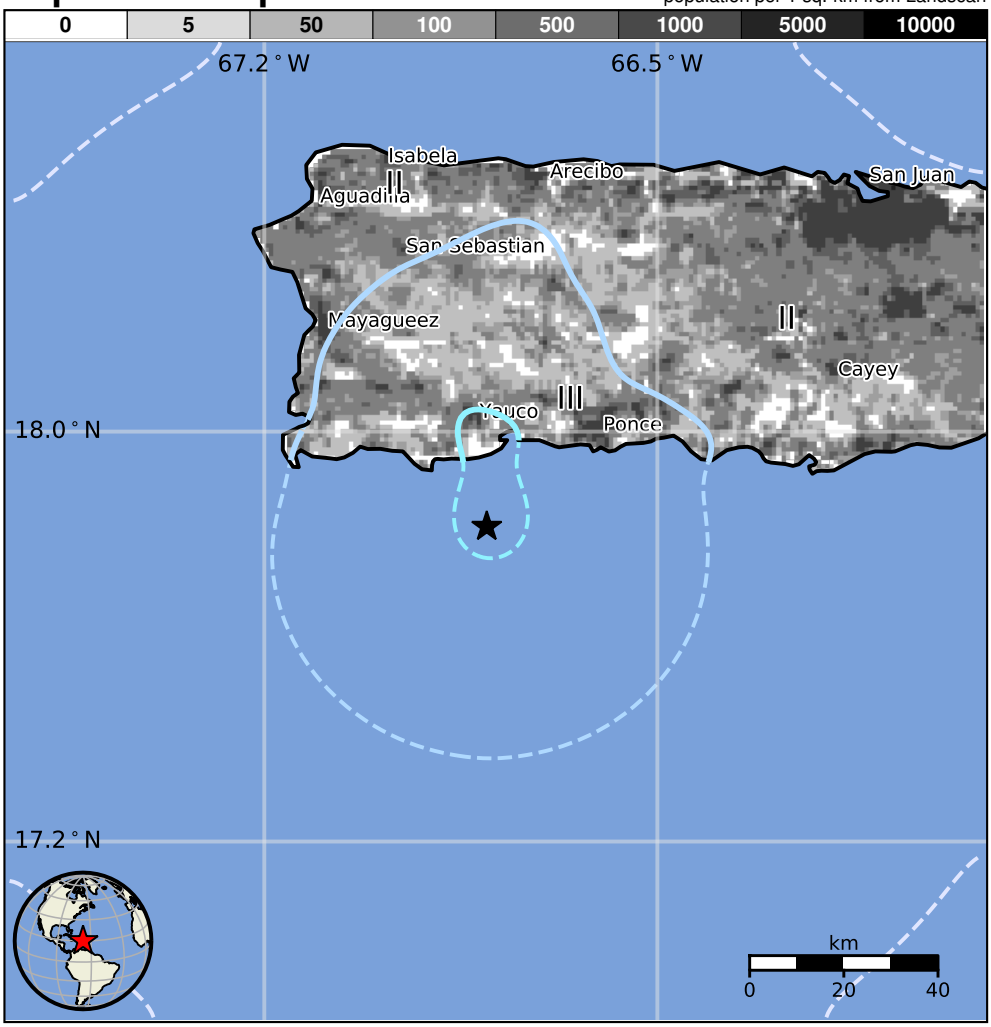
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		17k*	2,987k	52k	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

population per 1 sq. km from Landscan



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 mud wall and informal (metal, timber, GI etc.) construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-23	238	6.6	VI(605k)	0
1980-11-12	343	5.9	VII(87k)	–
1984-06-24	269	6.7	VII(326k)	5

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Yauco**	**20k**
IV	Palomas	2k
IV	Guayanilla	5k
IV	Indios	2k
IV	Magas Arriba	1k
IV	Fuig	1k
III	**Ponce**	**153k**
II	Bayamon	203k
II	Caguas	87k
II	Carolina	170k
II	**San Juan**	**418k**

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/pr2020137000#pager

Event ID: pr2020137000