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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

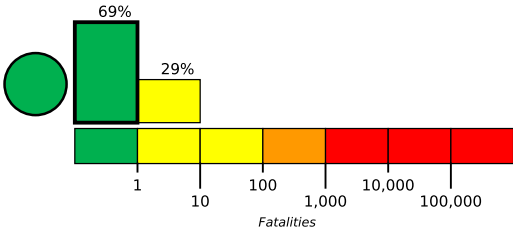
M 5.0, 7km SE of Tallaboa, Puerto Rico

Origin Time: 2020-01-07 08:50:45 UTC (Tue 04:50:45 local)
Location: 17.9418° N 66.6754° W Depth: 10.0 km

PAGER Version 2

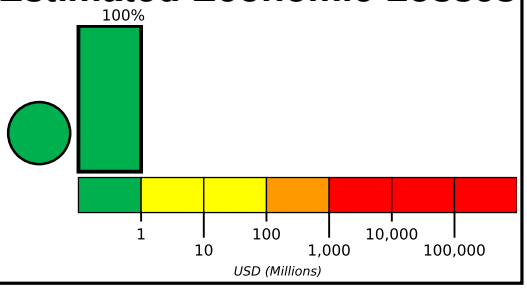
Created: 4 weeks, 1 day after earthquake

Estimated Fatalities



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

Estimated Economic Losses



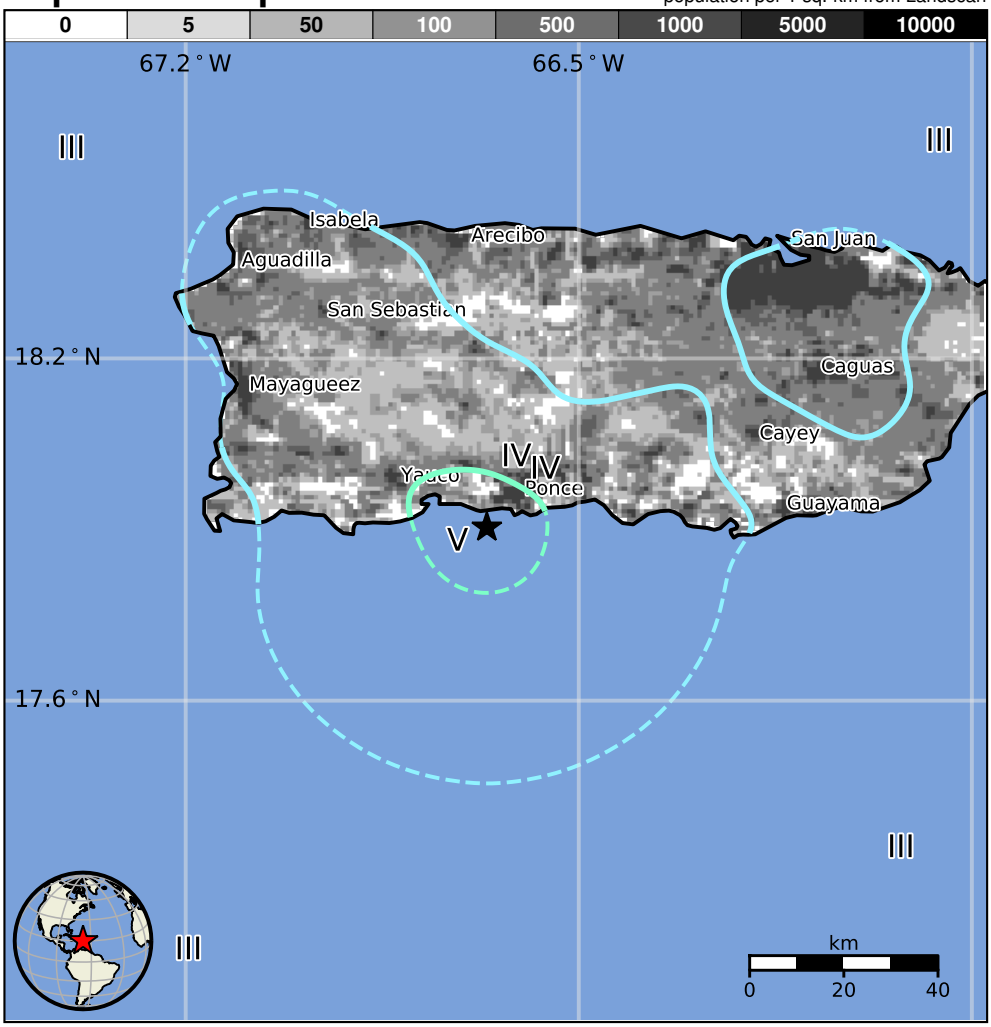
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	805k*	2,311k	107k	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	253	6.6	VI(605k)	0
1980-11-12	350	5.9	VII(87k)	–
1984-06-24	284	6.7	VII(326k)	5

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Tallaboa	1k
V	Magas Arriba	1k
V	Guayanilla	5k
V	Penuelas	7k
V	**Ponce**	**153k**
V	Indios	2k
IV	**Caguas**	**87k**
IV	Guaynabo	81k
IV	Carolina	170k
IV	Bayamon	203k
III	**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/us70006vmj#pager

Event ID: us70006vmj