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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

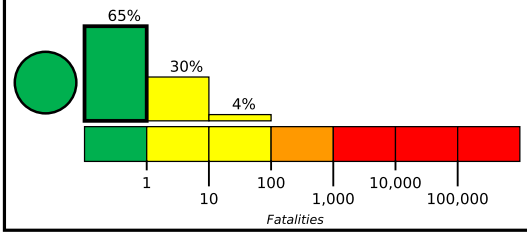
M 4.2, 5 km SSW of La Parguera, Puerto Rico

Origin Time: 2020-09-27 04:28:08 UTC (Sun 00:28:08 local)
Location: 17.9349° N 67.0240° W Depth: 13.2 km

PAGER Version 4

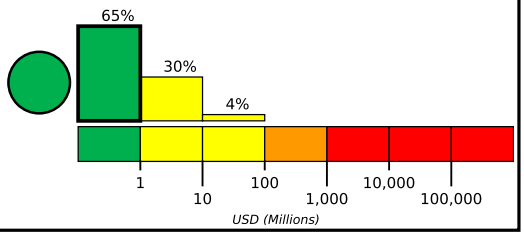
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



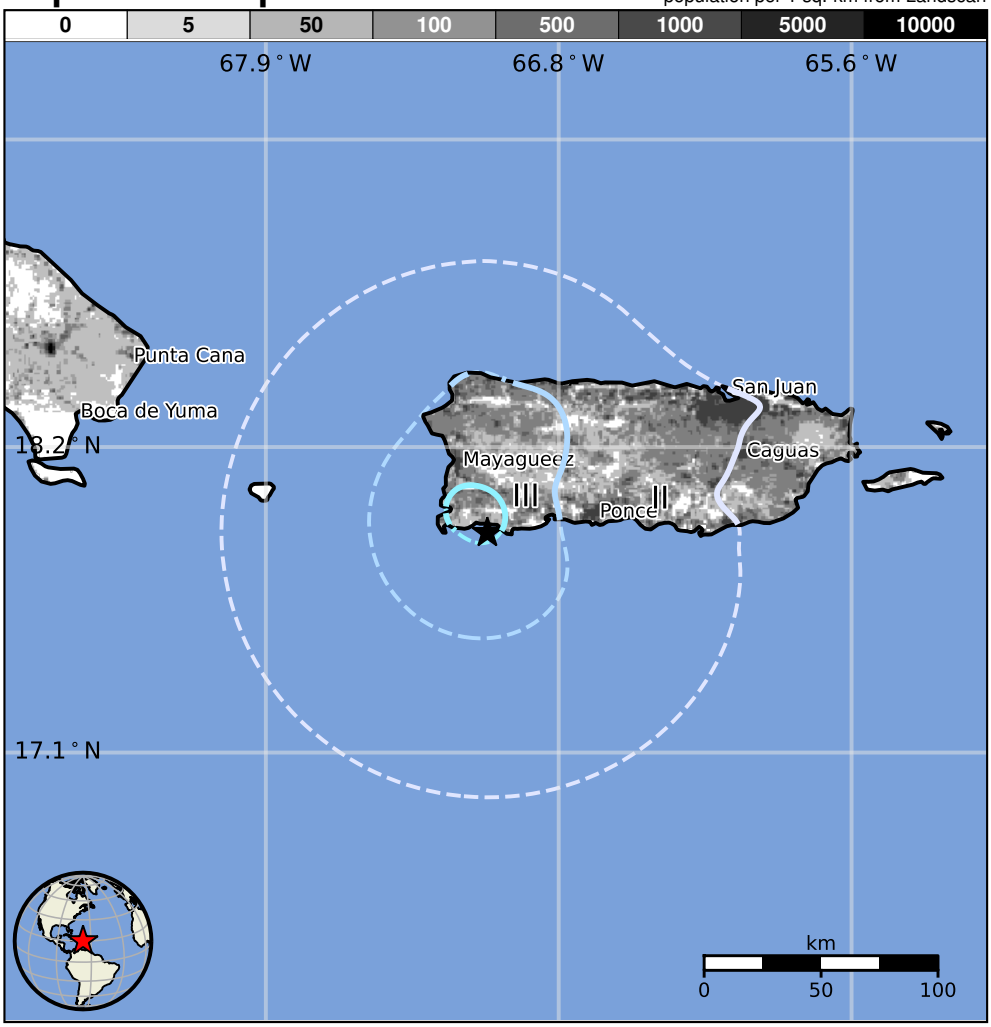
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		914k*	2,596k	85k	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 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	216	6.6	VI(605k)	0
1980-11-12	319	5.9	VII(87k)	–
1984-06-24	247	6.7	VII(326k)	5

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Palmarejo	1k
IV	Lajas	5k
IV	Boqueron	2k
IV	La Parguera	1k
IV	San German	12k
IV	Cabo Rojo	11k
II	**Ponce**	**153k**
II	Bayamon	203k
II	Carolina	170k
I	**San Juan**	**418k**
I	Salvaleon de Higueey	124k

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/pr2020271003#pager

Event ID: pr2020271003