

M 8.5, Caribe Wave

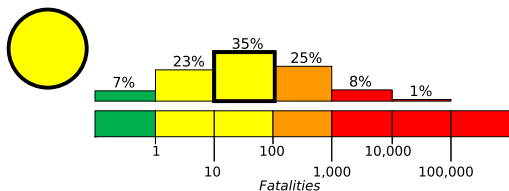
Origin Time: Wed 2015-03-25 14:00:00 UTC (09:00:00 local)

Location: 10.76°N 78.88°W Depth: 15 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: -15707027 seconds after earthquake

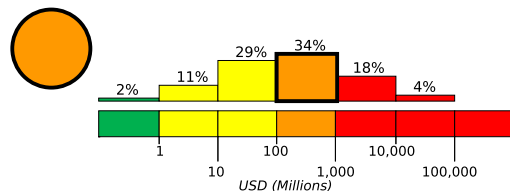
Estimated Fatalities



Orange alert level for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are 0-1% GDP of Panama. Past events with this alert level have required a regional or national level response.

Yellow alert level for shaking-related fatalities. Some casualties are possible.

Estimated Economic Losses

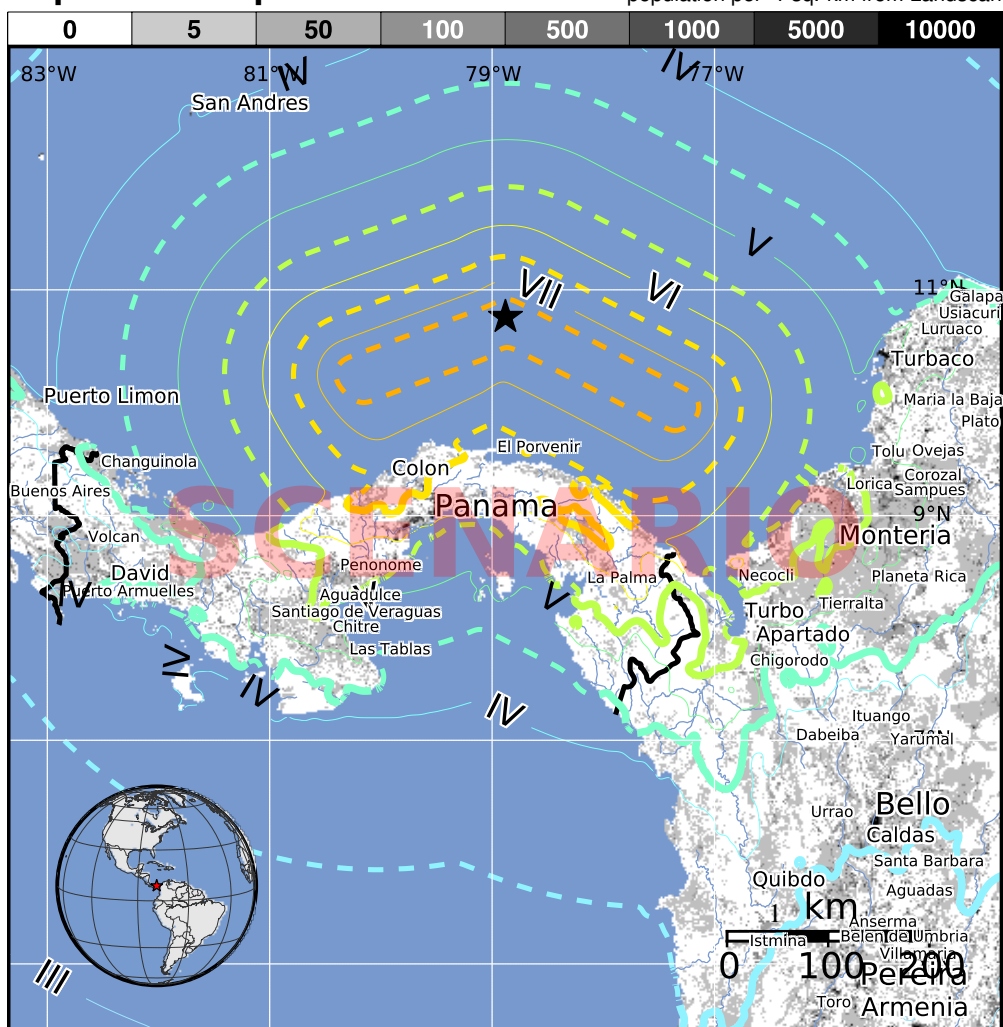


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- *	4,874k*	6,895k*	6,798k	3,256k	282k	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 vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unreinforced brick masonry and mud wall construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max Shaking MMI(#)	Deaths
1985-04-20	254	6.3	VII(7k)	0
1976-07-11	386	7.3	IX(874)	0
1974-07-13	362	7.3	IX(2k)	11

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Colon	77k
VII	Ustupo	3k
VII	Carti Suitupo	1k
VII	San Ignacio de T.	1k
VII	Cativa	30k
VII	Margarita	3k
VI	Panama	408k
V	Barranquilla	1,380k
III	Medellin	2,000k
III	Pereira	440k
III	Ibague	422k

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.

<http://earthquake.usgs.gov/pager>

Event ID: usCaribe_Wave2015_se