Earthquake Shaking Green Alert

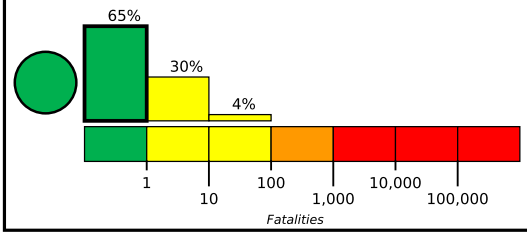
M 5.6, 14 km SW of Puerto Armuelles, Panama

Origin Time: 2021-01-29 12:41:39 UTC (Fri 06:41:39 local)
Location: 8.1941° N 82.9664° W Depth: 10.0 km

PAGER Version 4

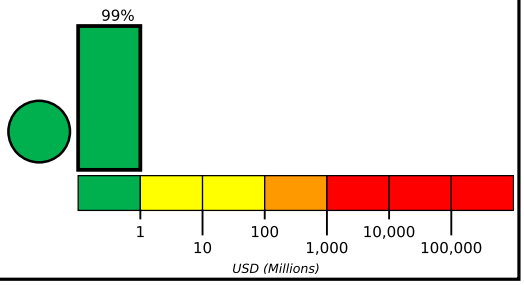
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



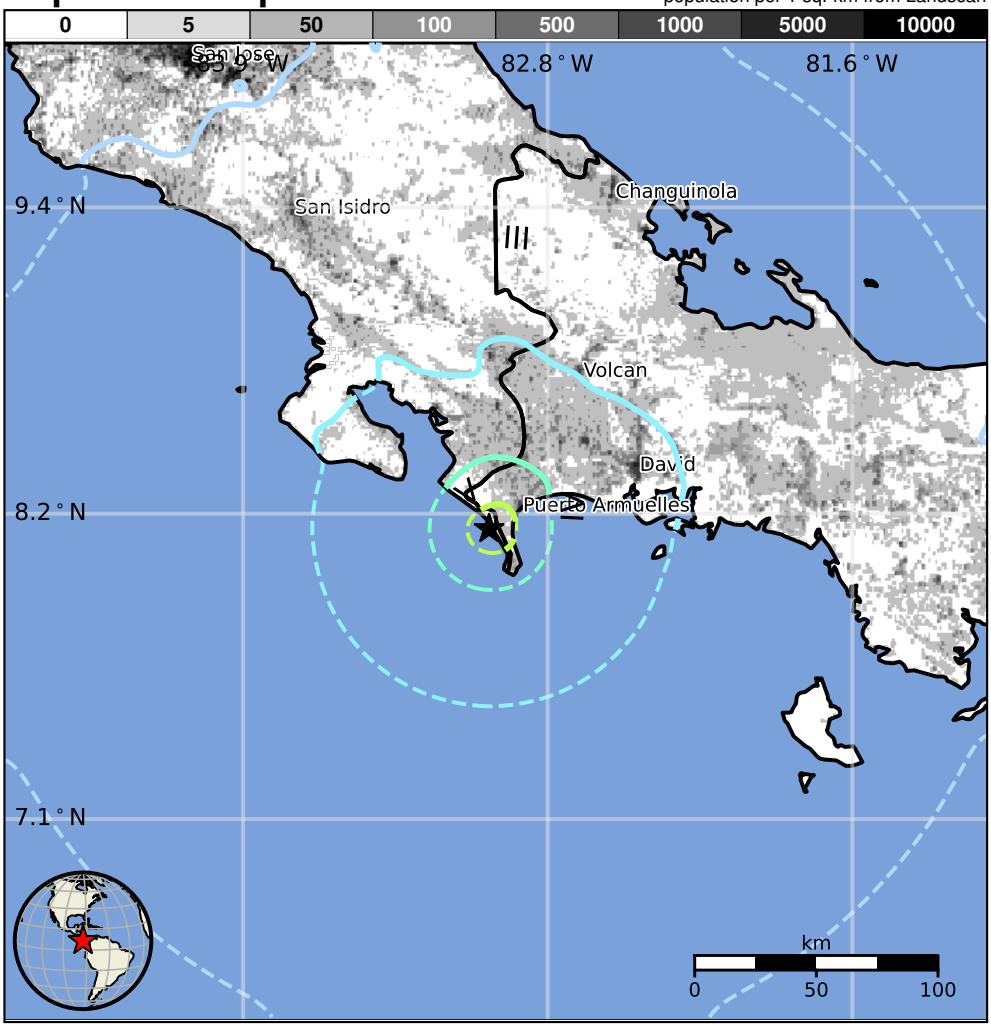
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	3,172k	455k	57k	4k	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
1993-07-10	194	5.8	VII(45k)	1
1990-12-22	242	5.9	VIII(188k)	1
1991-04-22	164	7.6	VII(213k)	75

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	**Puerto Armuelles**	**19k**
V	Limones	<1k
V	Finca Corredor	1k
V	Finca Blanco	2k
V	Punta de Burica	1k
V	La Esperanza	2k
IV	**David**	**83k**
III	Bocas del Toro	13k
III	Buabidi	<1k
III	Cartago	27k
II	**San Jose**	**335k**

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/us6000dcx1#pager

Event ID: us6000dcx1