Earthquake Shaking **Green Alert**

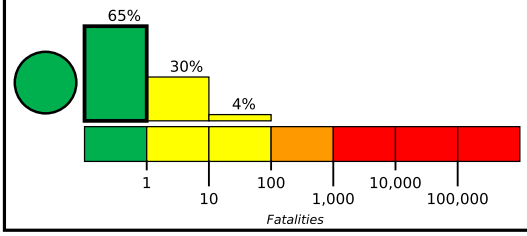
M 6.6, 55 km WSW of Masachapa, Nicaragua

Origin Time: 2022-04-21 07:42:46 UTC (Thu 01:42:46 local)
Location: 11.5537° N 86.9604° W Depth: 27.0 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

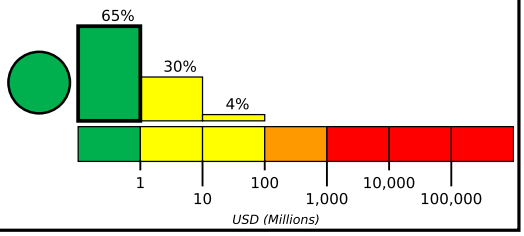
PAGER Version 5
Created: 2 weeks, 0 days after earthquake

Estimated Fatalities

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



Estimated Economic Losses



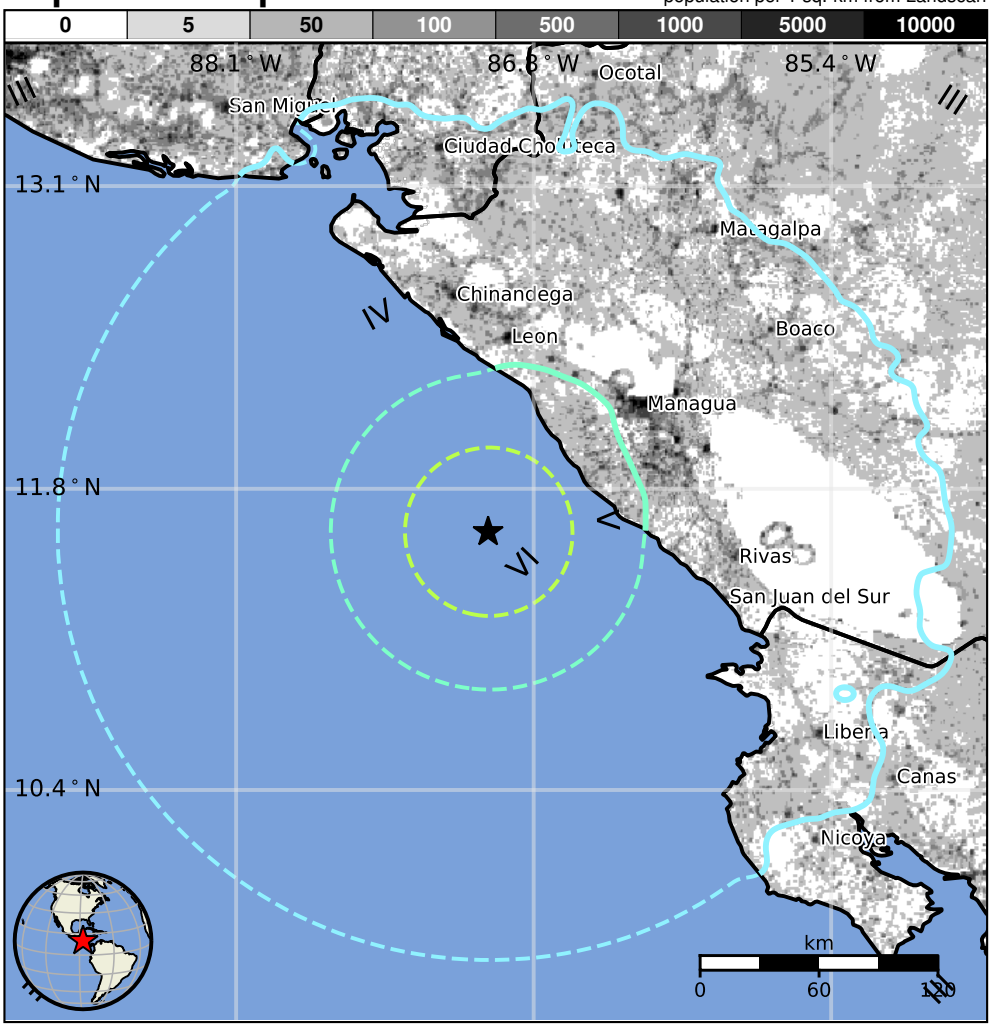
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	4,438k*	5,298k	231k	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 highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and adobe block construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-02-17	340	4.1	V(2,250k)	1
2001-05-08	298	5.7	VII(562k)	1
1972-12-23	126	6.2	VIII(311k)	11k

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Masachapa	5k
V	Carlos Fonseca Amador	5k
V	San Rafael del Sur	30k
V	El Rosario	3k
IV	Ciudad Sandino	70k
IV	La Paz Centro	23k
IV	**Leon**	**145k**
IV	**Managua**	**973k**
IV	Masaya	130k
III	**San Miguel**	**162k**
III	San Salvador	526k

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/us6000hf75#pager

Event ID: us6000hf75