Earthquake Shaking Green Alert

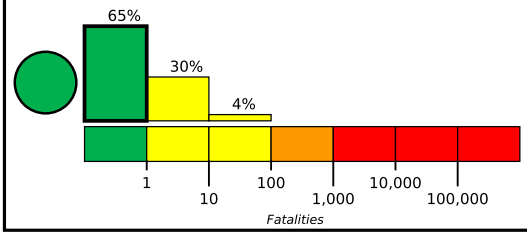
M 5.4, 10 km S of Salina Cruz, Mexico

Origin Time: 2020-12-08 17:56:42 UTC (Tue 11:56:42 local)
Location: 16.0787° N 95.2062° W Depth: 25.6 km

PAGER Version 1

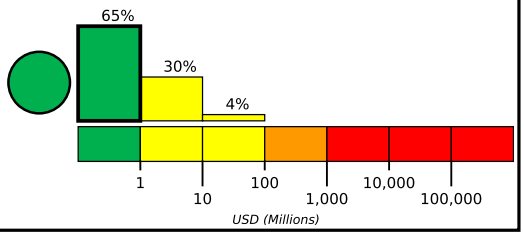
Created: 2 hours, 4 minutes after earthquake

Estimated Fatalities



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

Estimated Economic Losses



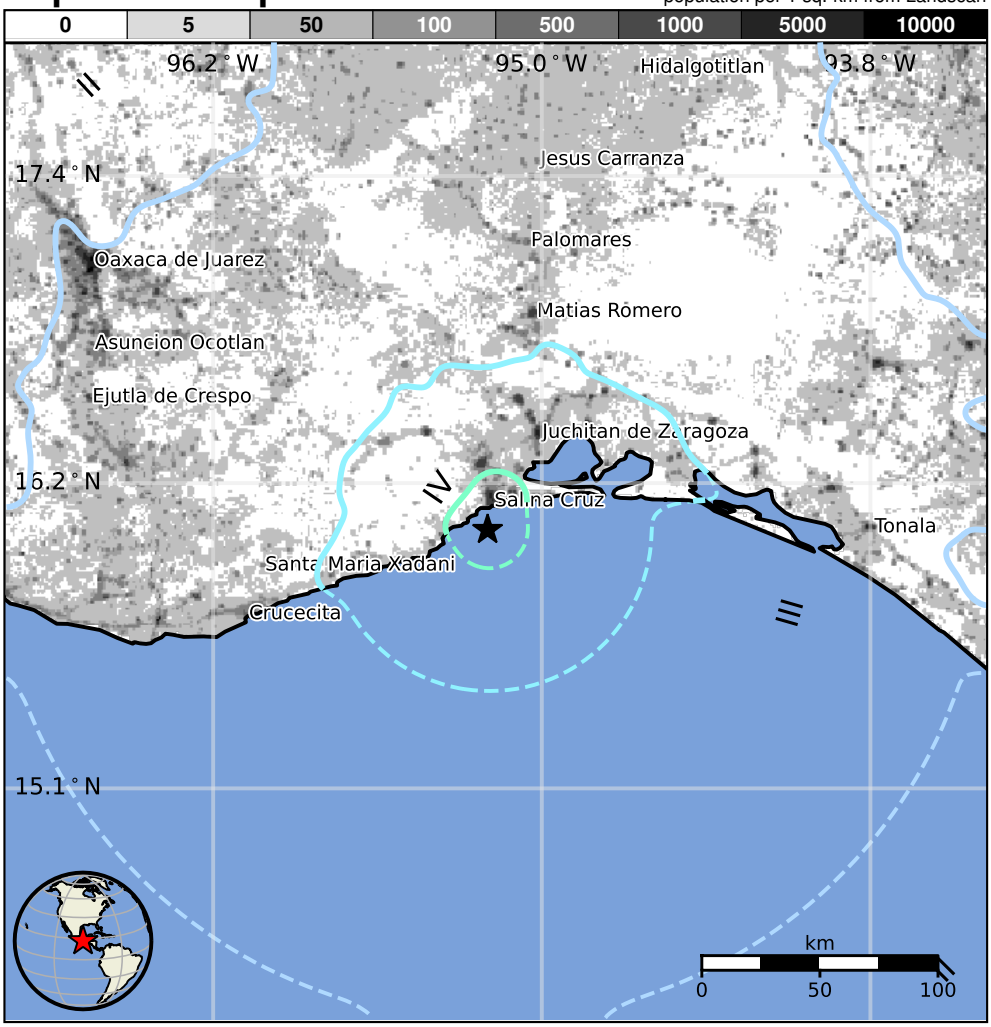
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	3,044k	367k	138k	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 adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1994-07-04	261	6.4	V(118k)	2
1995-09-14	373	7.3	V(459k)	3
1973-08-28	282	7.2	VII(847k)	600

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	**Salina Cruz**	**74k**
V	La Noria	2k
V	Colonia Juarez	3k
IV	El Carrizal	1k
IV	Santa Rosa	2k
IV	San Mateo del Mar	5k
IV	Santo Domingo Tehuantepec	37k
IV	**Juchitan de Zaragoza**	**68k**
III	Cintalapa de Figueroa	33k
III	Santa Cruz Xoxocotlan	62k
III	Oaxaca	263k

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/us7000cp6z#pager

Event ID: us7000cp6z