



# Earthquake in Mexico 2012

*Earthquake - the underground vibrations or shocks, arising from the shift of the crust or upper mantle.*



Among all natural disasters, according to UNESCO, earthquakes rank first in the world inflicted economic damage and number of victims.





# The occurrence of earthquakes

The occurrence of earthquakes associated mainly with tectonic processes. In the course of the year on the Earth is fixed separately. 1 million earthquakes. Allocate hypocenter and the epicenter of the earthquake. From them in all parties diverge seismic waves.

# Classification

Depending on the cause and location of earthquakes are divided into:

- Tectonic
- Volcanic



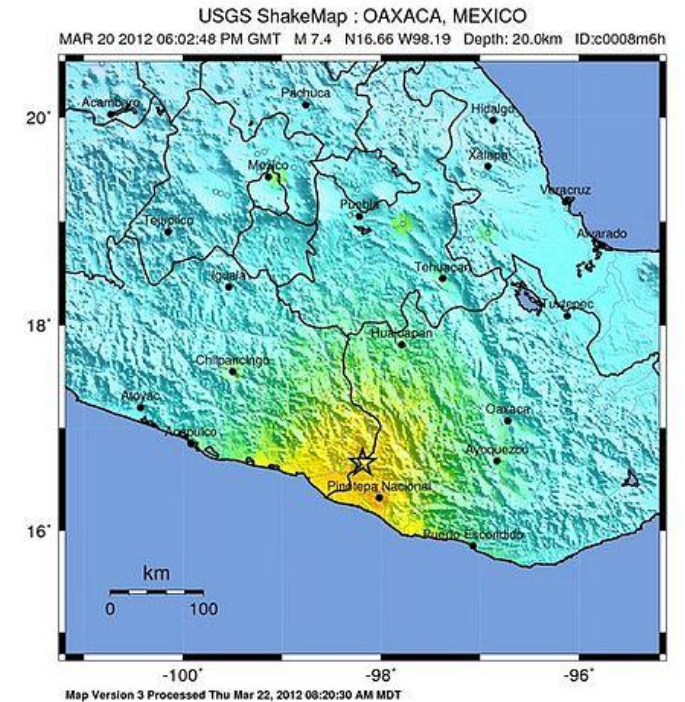
***Earthquake in Mexico (2012) - an earthquake with the magnitude of 7.4 took place on March 20. After the main shock was followed by a series of aftershocks.***





# Localization of the epicenter

The earthquake it was at a depth of 17,5 kilometers of the epicenter tremors was in the state of Guerrero, 25 kilometers to the East of the city Ometepepek and for 186 kilometers to the East from Acapulco.



PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.03	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL.(cm/s)	<0.01	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based upon Worden et al. (2011)







# Behavior during an earthquake

- 1) *Try to stay calm*
- 2) *Quickly leave the house and get away from him at a safe distance.*
- 3) *Leave corner room if you are above the second floor.*



# Behavior during an earthquake

- 4) *If you are in the room to stand in the doorway inside doors or in the corner of the room, away from windows and heavy objects.*
- 5) *Do not rush to the stairs or the elevator. Exit the building will be the most crowded, and elevators fail.*
- 6) *Away from tall buildings, overpasses, bridges and power lines.*

From earthquakes no one is safe. Governments of different countries are spending hundreds of thousands of dollars to measure seismic activity and prevent earthquakes, but so far that is the nature of humanity by surprise. Victims may be less affected if people know how to behave during an earthquake.

