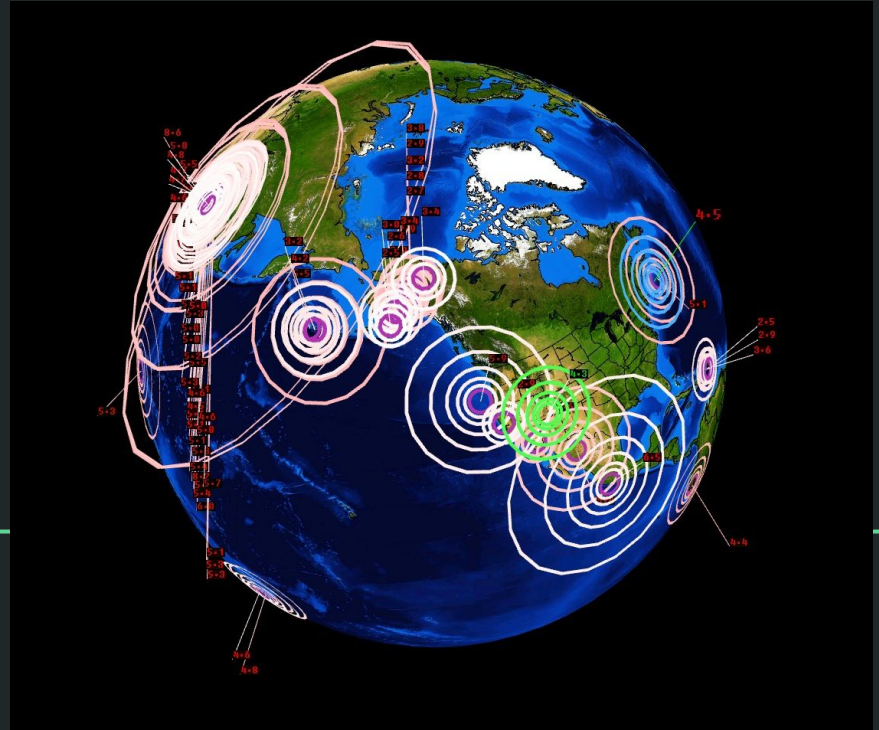


Earthquakes

Chapter 8



Chapter 8.1: What is an Earthquake?

Earthquake: the vibration of Earth produced by the rapid release of energy, often a result of slippage along a break in Earth's crust.

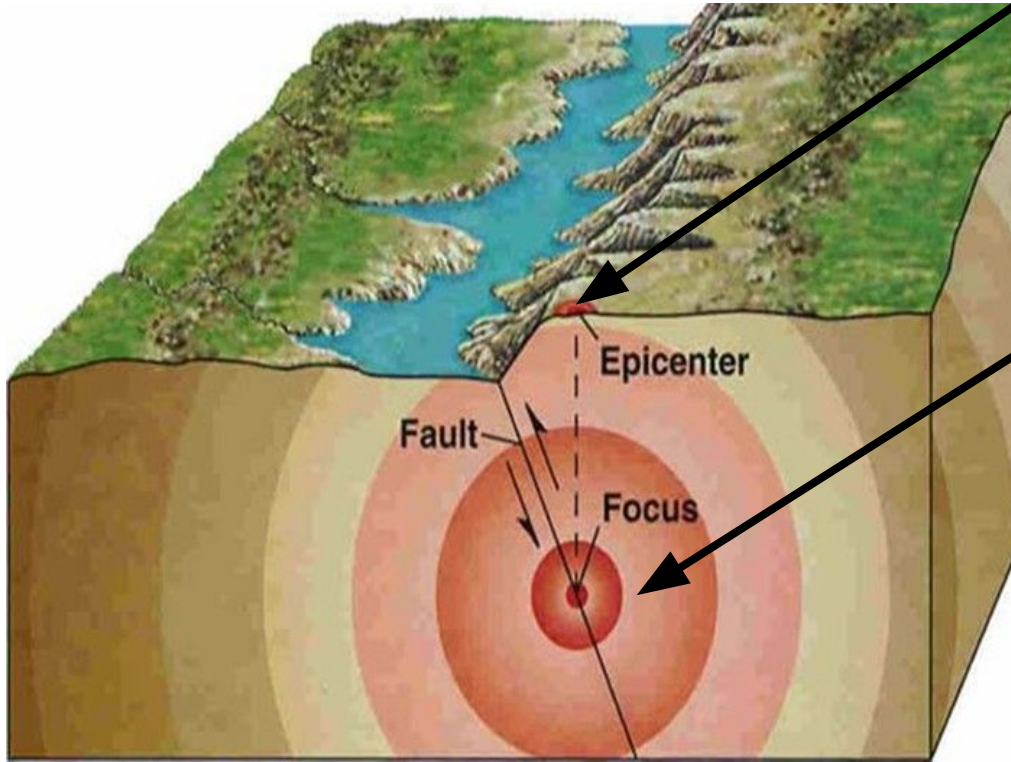


[Earthquakes Intro](#)

Epicenter: the place on the Earth's surface where the earthquake is located

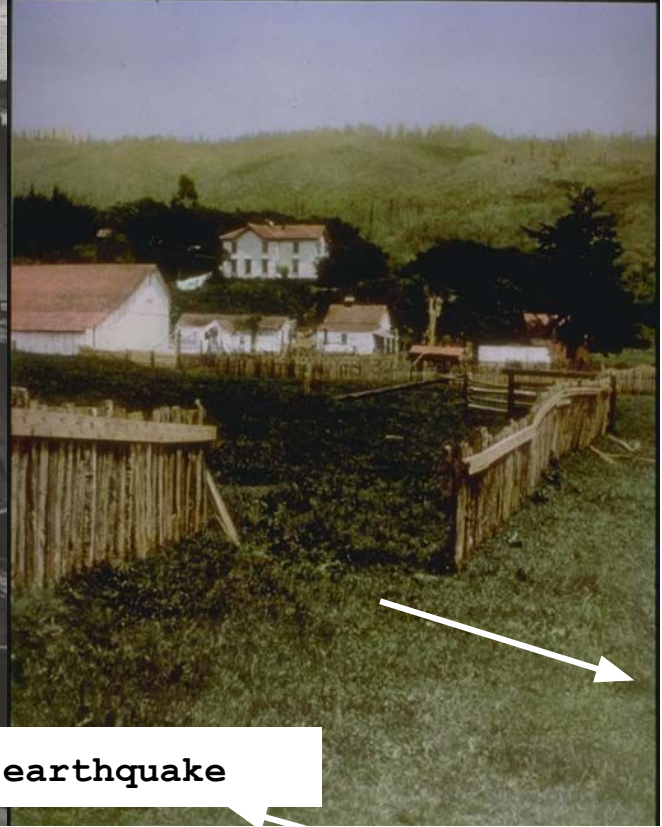
Focus: The point within the Earth where the earthquake starts

Faults: large fractures in the crust where movement occurs





San Francisco, 1906, 7.9 magnitude earthquake



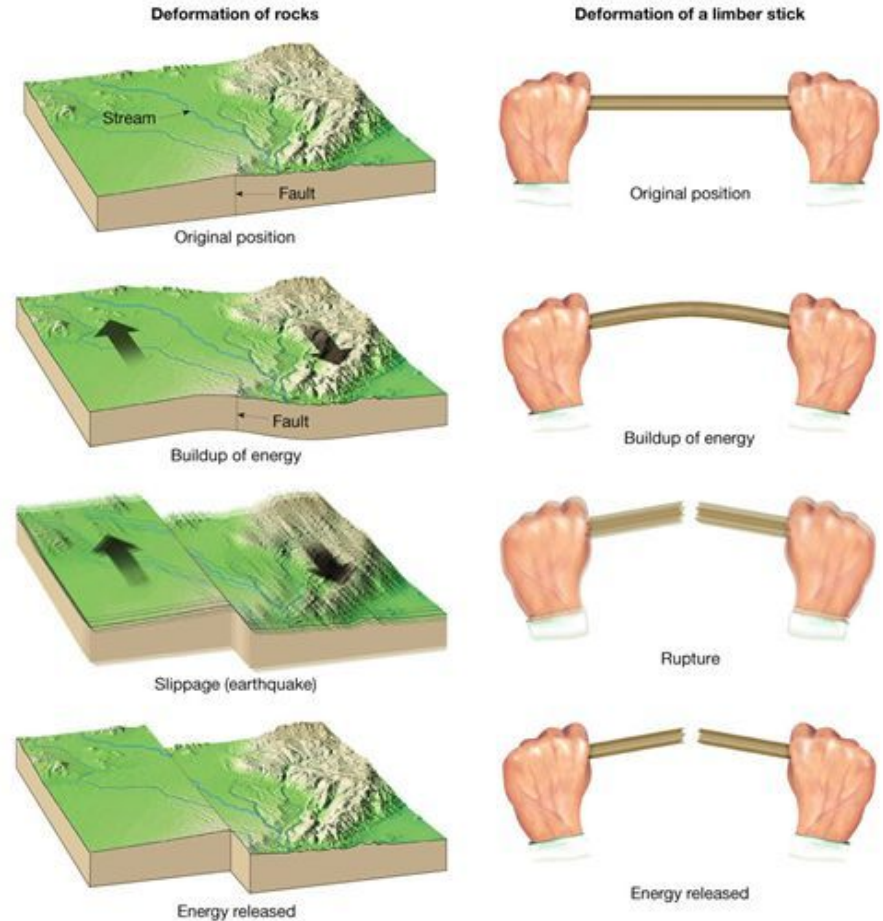
A hypothesis was developed which stated:
forces within the Earth cause rock to bend and release *elastic energy*.

Elastic rebound hypothesis:

if the stress placed upon crustal rocks exceeds the strength of the rock, the rock will break releasing elastic energy and send out vibrations.

Aftershocks: movements that follow major earthquakes

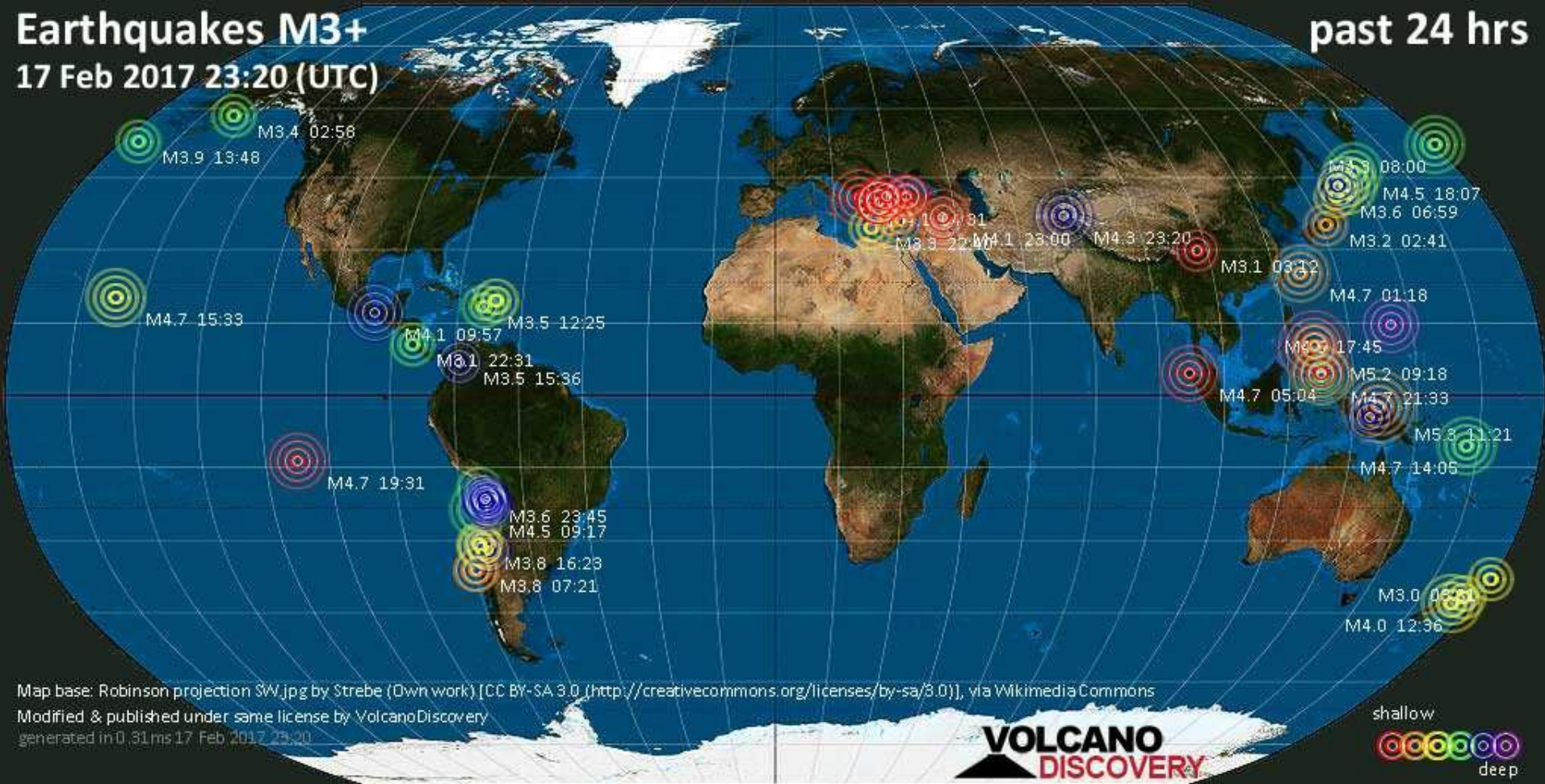
Foreshocks: movements that precede a major earthquakes



Earthquakes M3+

17 Feb 2017 23:20 (UTC)

past 24 hrs



Map base: Robinson projection SW.jpg by Strebe (Down work) [CC BY-SA 3.0 (<http://creativecommons.org/licenses/by-sa/3.0/>)], via Wikimedia Commons
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generated in 0.31ms 17 Feb 2017 23:20

VOLCANO
DISCOVERY

shallow
deep

[Live Earthquake Map- USGS](#)