

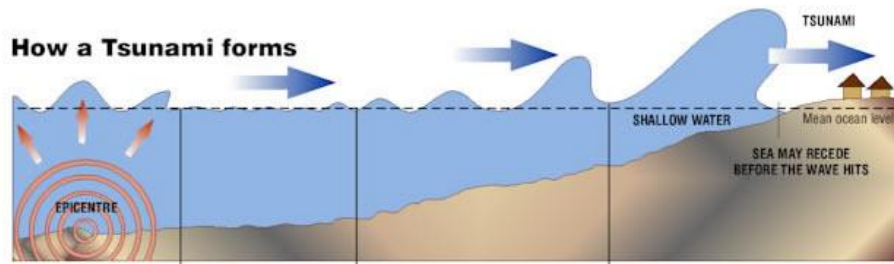
TSUNAMI







How a Tsunami forms



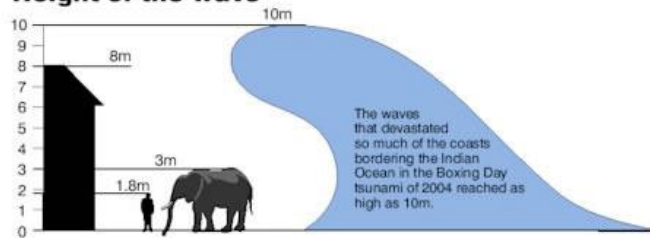
During a quake the sea floor either rises or subsides along a fault line and a mass of water is displaced

Waves rush away at high speeds. In deep oceans tsunamis can be as little as 60cm high but can travel more than 700km/h.

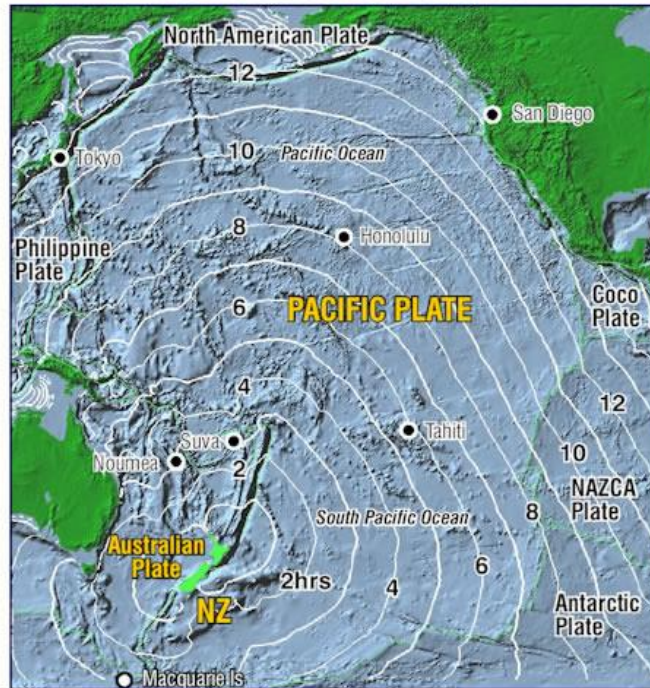
The waves grow higher and slow down as they reach the shallower water near coastal areas

The tsunami hits the coast devastating all in its path. People die not only from drowning, but also from being crushed by buildings and debris.

Height of the wave



Pacific tsunami travel times



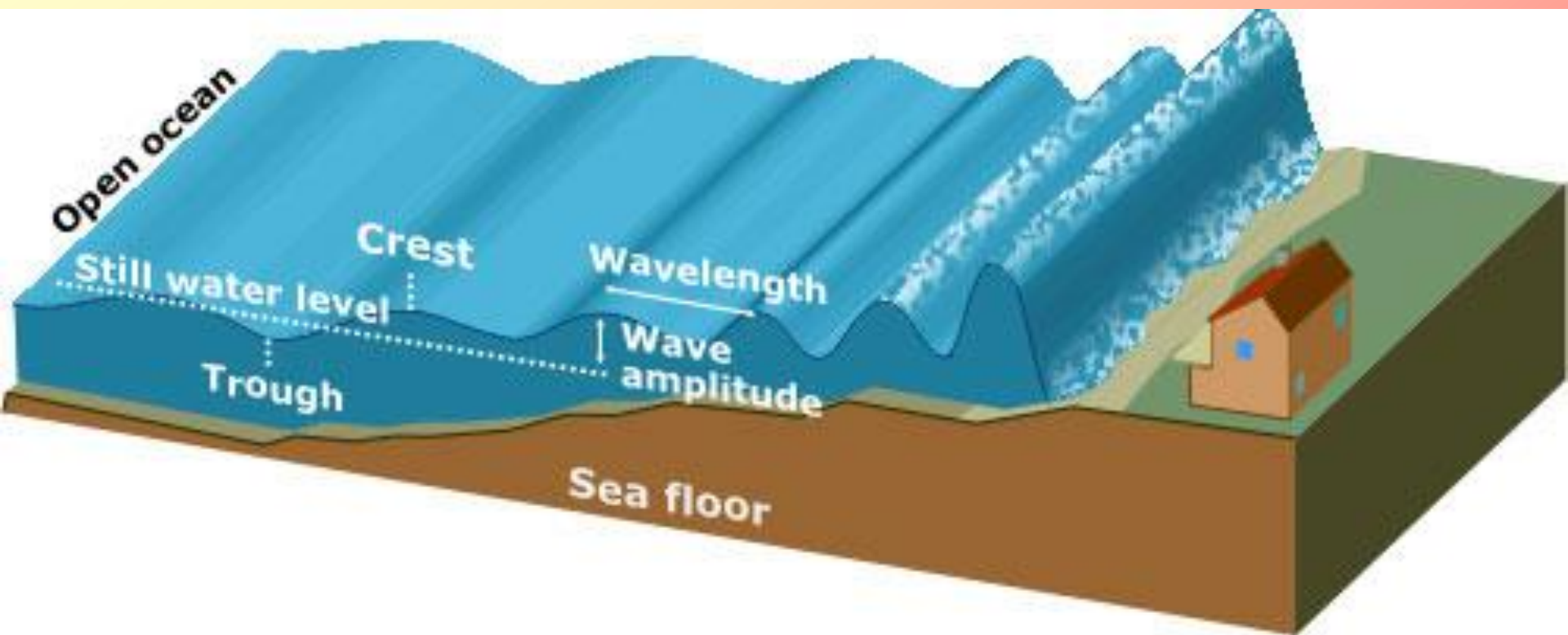




The quake occurred at one of the many seams in the ever-shifting crust of the earth where one plate slips beneath another in an incessant, but spasmodic process. In this case, the quake was set off by an abrupt slippage along 700 miles of the seam where the plate beneath the Indian ocean slides under the Indonesian archipelago.

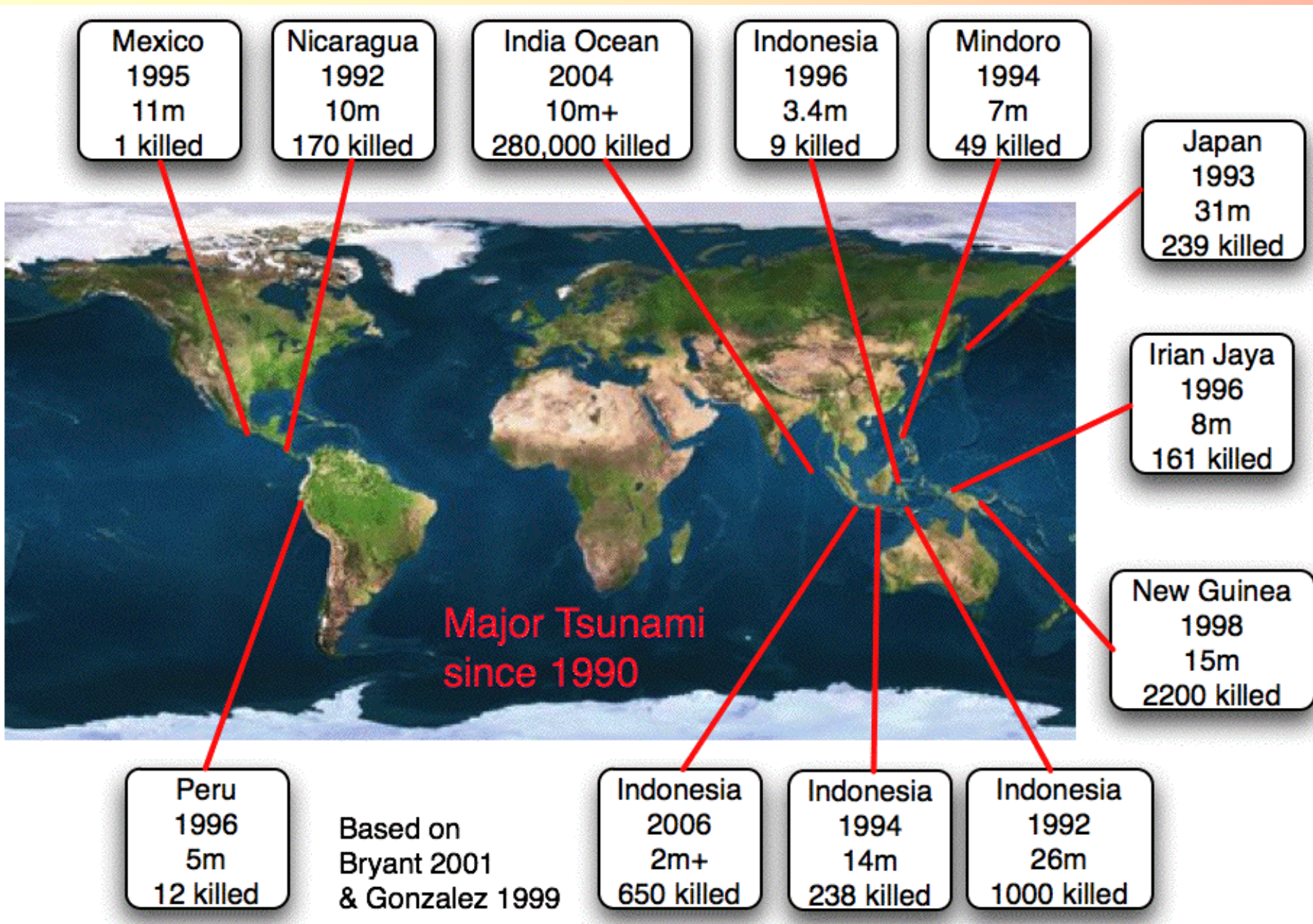


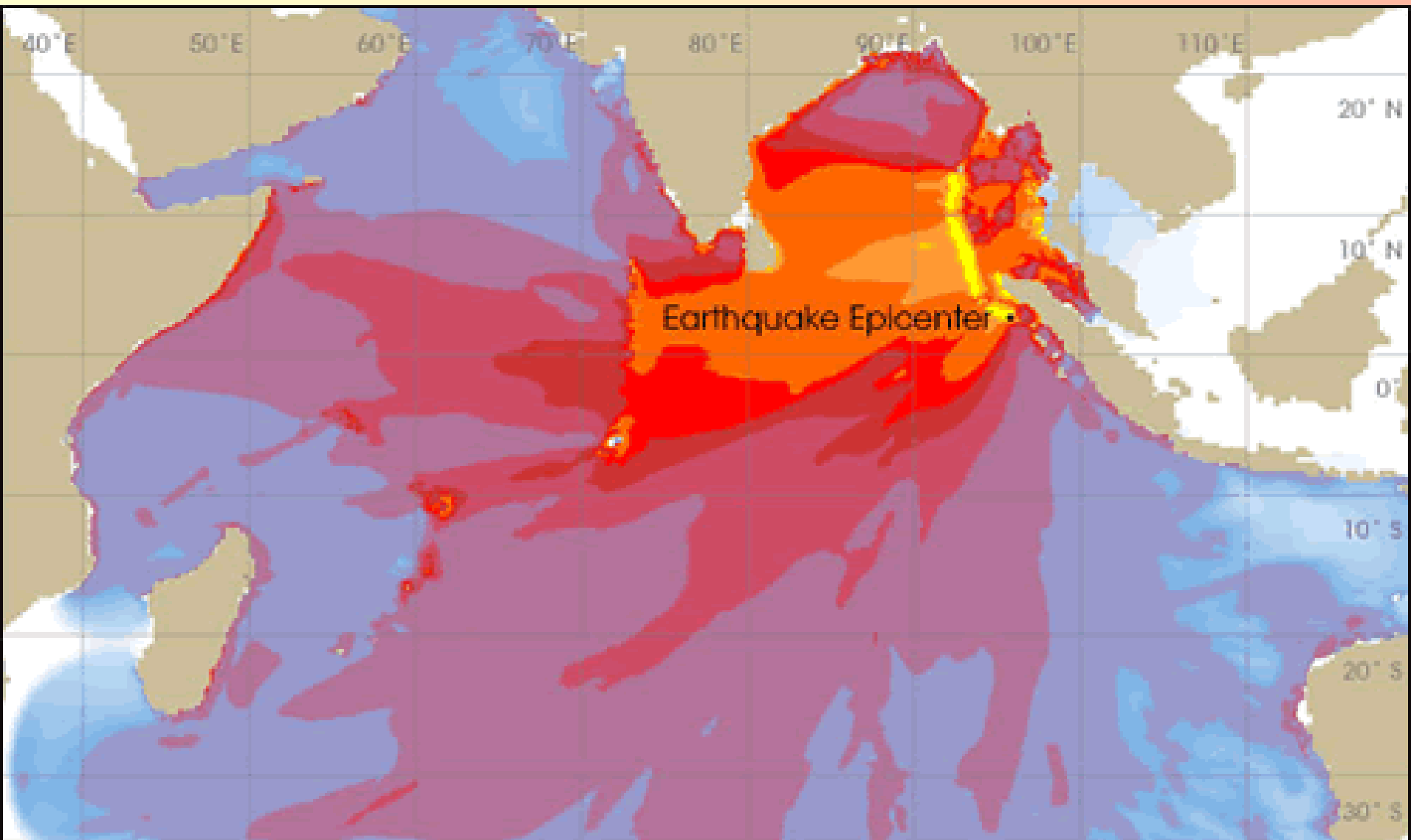








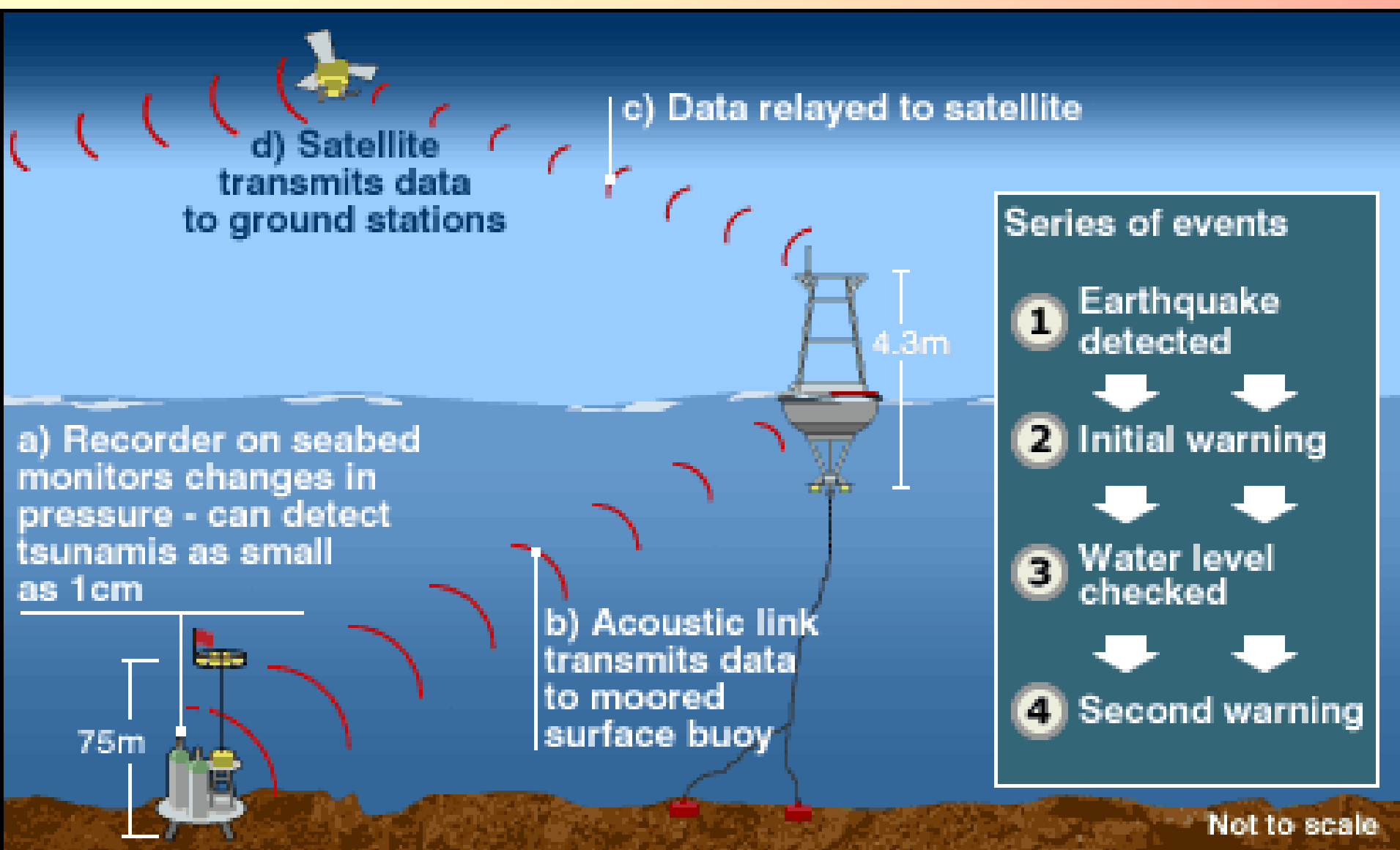




Wave Height (cm)







d) Satellite transmits data to ground stations

c) Data relayed to satellite

a) Recorder on seabed monitors changes in pressure - can detect tsunamis as small as 1cm

b) Acoustic link transmits data to moored surface buoy

- Series of events
- 1 Earthquake detected
 - 2 Initial warning
 - 3 Water level checked
 - 4 Second warning

Not to scale

